

PRINCIPLES FOR FINANCIAL MARKET INFRASTRUCTURES

B3 INFORMATION DISCLOSURE

December 2023

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IMPORTANT ADVISORY ABOUT B3'S PFMI DISCLOSURE

This document is made publicly available on B3's website (www.b3.com.br/en_us/) solely to provide information and should not be considered or construed as a binding document concerning B3's activities and its participants, or invoked by third parties for any purpose.

Only the rules and procedures issued by B3 can be invoked by participants or non-participants and considered binding documents, together with the applicable legislation, rules and regulations issued by regulatory authorities with the jurisdiction to supervise B3's activities.

Therefore, in the event of discrepancies between any statements, conclusions or comments contained in this document and any rules or procedures issued by B3, the rules or procedures shall prevail.

Furthermore, any entity interested in evaluating the information in this document for any purpose aside from those specified here should conduct its own evaluation, particularly with regard to capital requirements and any auxiliary rules, regulations, or self-regulation provisions. This document is available in Portuguese. English versions or any other translations are for mere convenience only.

® B3 S.A. – BRASIL, BOLSA, BALCÃO – 2023

I – EXECUTIVE SUMMARY

In April 2012, the Committee on Payment and Settlement Systems of the Bank for International Settlements (CPSS/BIS) and the Technical Committee of the International Organization of Securities Commissions (TC/IOSCO) published the standards report “Principles for financial market infrastructures” (PFMI), which harmonized and replaced the existing international standards applicable to FMIs. In December 2012, the CPSS and IOSCO published “Principles for financial market infrastructures: Disclosure framework and Assessment methodology”, with the aim of promoting consistent disclosures of information by FMIs and consistent assessments by international financial institutions and national authorities.

B3 completed its first self-assessment in compliance with the PFMI in December 2013 and, in the first half of 2017 it published the first disclosure to the general public in accordance with the disclosure framework proposed by the CPSS and IOSCO. In 2017 the document was updated, adding the changes relating to integration of the markets for cash equities, corporate bonds, equity derivatives and securities lending into the B3 Clearinghouse. In 2020, published the third disclosure, which results from a periodic review. This document is updated every two years, or whenever material changes are made to its financial market infrastructures.

This publication refers to two clearinghouses - the B3 Clearinghouse and the B3 Foreign Exchange Clearinghouse – as well as the B3 Central Depository for Equities (B3 Central Depository), the OTC B3 (registration system for financial assets and over-the-counter derivatives), and the registration system for insurance, open supplementary pension, capitalization, and reinsurance transactions linked to the Financial Infrastructure Unit. With regard to some principles, however, reference is made to information, services, responsibilities, and other aspects of B3 as a whole. B3’s activities relating to the securities settlement system (SSS), except OTC B3, and payment system (PS), where applicable, are integrated into the activities of B3’s clearinghouses, which act as central counterparties (CCPs). These functions are therefore considered a single FMI in this report. This view is based on “Principles for financial market infrastructures: Disclosure framework and Assessment methodology”, CPSS-IOSCO, December 2012, p. 8: *“Two or more FMIs are integrated into one entity. A single operator might operate two FMIs whose key functions are highly interrelated and complementary, such as a CSD that operates an SSS. If the CSD and SSS share the same legal and governance arrangements and use highly integrated operational and risk management arrangements, then the two key functions could be assessed as if they were one FMI.”*

II – SUMMARY OF MAJOR CHANGES SINCE THE LAST UPDATE OF THE DISCLOSURE

This version, of December 2023, reflects changes resulting from the periodic review process.

Disclosure history:

- In October/2023, the document was updated to incorporate provisions regarding the registration of insurance, open supplementary pensions, capitalization, and reinsurance operations, in accordance with the resolutions of the National Private Insurance Council (CNSP) and circulars from the Private Insurance Superintendency (SUSEP).
- In October 2022, the version reflected changes regarding the revocation of the CVM Instructions 283/98, from 07/10/1998, 461/07, from 10/23/2007 and 544/13, from 12/12/2013, by CVM Resolution 135/22, from 06/10/2022.
- In March 2022, the version was updated to reflect changes regarding the pre-trade risk monitoring model for the markets settled through B3 Clearinghouse, disclosed by Circular Letters 127/2021-PRE and 138/2021-PRE, and the revocation of CVM Instructions and CMN Resolutions, which have been updated according to the public information disclosed by the respective autarchies.
- In September 2021, the version reflected:
 - the inclusion of the OTC B3 settlement process in the simulation of the default scenario conducted by B3; and
 - the change of the names of the segments in which B3 operates, from “BM&FBOVESPA Segment” (or “Bovespa Segment”, or “BM&F Segment”) to “Listed B3”, and from “Cetip UTVM Segment” to “OTC B3”.
- In April 2021, a version of this document was published to reflect the change in the safeguard structure of B3’s Clearinghouse, disclosed in the Circular Letter 014-2021-PRE, as of 02/25/2021. The change refers to the conversion of the contributions of the full trading participants and settlement participants from “minimum non-operating collateral” to contributions to the settlement fund.
- In September 2020, a version of this document was published with changes regarding the current names of B3’s IMFs, such as listed below:
 - From BM&FBOVESPA Clearinghouse to B3 Clearinghouse;
 - From Foreign Exchange Clearinghouse to B3 Foreign Clearinghouse; and
 - From BM&FBOVESPA Central Depository to B3 Central Depository for Equities.
- In March 2020, a version of this document was published, which the main changes are related to data and information updates;
- In August 2017, this document was updated to reflect:
 - the integration of the markets for cash equities, corporate bonds, equity derivatives and securities lending into the then named BM&FBOVESPA Clearinghouse;

- the merger between BM&FBOVESPA and CETIP;
 - the Central Bank of Brazil’s permission for collateral to be posted abroad by non-resident investors; and
 - the inclusion of references to the legal basis related to the centralized registration and depositing of financial assets and securities.
- In March 2017 the first version of BM&FBOVESPA’s disclosure on the Principles for Financial Market Infrastructures (CPSS-IOSCO) was published.

III – GENERAL BACKGROUND ON B3

B3 S.A. — BRASIL, BOLSA, BALCÃO (B3) is a vertically integrated multi-asset multi-market exchange that provides trading, registration, central securities depository, clearing and settlement services, acting as central counterparty to guarantee cash settlement of transactions. Its vertically integrated business model offers customers and participants the infrastructure required to process transactions through all stages from pre-trade to trade and post-trade at the level of the individual customer.

Created in 2008 as a publicly held company that integrated BM&F (commodities and futures) and BOVESPA (equities and corporate debt) and, subsequently, BM&FBOVESPA and CETIP, B3 is one of the world's top ten financial market infrastructure operators in market value. It is the only securities, commodities and futures exchange in Brazil and the leading exchange in Latin America. It trades under the ticker symbol B3SA3 on the Novo Mercado premium listing segment for companies committed to the highest standards of corporate governance. Its stock is tracked by the Ibovespa, IbrX-50, IbrX and Itag indices, among others.

B3 operates an electronic system (PUMA Trading System B3) for trading in equities, financial, commodity and equities derivatives, corporate debt securities, federal government bonds, and spot currencies, as well as a securities lending system and a system for registering financial assets and OTC derivatives, and a system for registering insurance, open supplementary pension, capitalization, and reinsurance transactions. Its central securities depository function is performed by the B3 Central Depository, while its trade repository (TR) function is performed by the B3 Clearinghouse, the registration system for financial assets, OTC derivatives and payment receivables arrangement in the OTC B3¹, and the registration system for insurance, open supplementary pension, capitalization, and reinsurance transactions. B3's CCP function is performed by its clearinghouses, which are considered systemically important by the Central Bank of Brazil (BCB):²

- B3 Clearinghouse (financial and commodity derivatives, covering the exchange market (futures and options) and the OTC market (swaps, forwards, and flexible options), as well as the spot gold market, the cash equities and corporate bonds market, equity derivatives (forwards and options), securities lending and federal government bond repurchase agreements); and
- B3 Foreign Exchange Clearinghouse (interbank FX market).

B3's clearinghouses are recognized by the European Securities and Markets Authority (ESMA) and therefore classified as qualifying central counterparties (QCCP) for the purposes of capital requirements applicable to European financial institutions, remain eligible for temporary deemed recognition in the United Kingdom by virtue of the UK EMIR Temporary Recognition Regime (TRR) established by the Central Counterparties (Amendments etc., and Transition Provision) (EU Exit) Regulations 2018 as amended and, therefore, classified as QCCP for the purposes of capital requirements applicable to UK financial institutions.

¹ Also referred to only as OTC B3.

² B3's clearinghouses do not operate in other jurisdictions besides Brazil, and B3 is not aware of relevant authorities in other jurisdictions that consider them systemically important in their respective jurisdictions.

B3's clearinghouses, central depository, and OTC B3 are operational departments and not subsidiaries of B3.

B3 uses the individual customer segregation model for all stages of the trade, registration, and post-trade cycles, from participant registration, order insertion into PUMA, pre-trade risk control, registration of transactions in the OTC B3, control of positions in the clearinghouses and OTC B3, and balances in the B3 Central Depository, risk and collateral management, to the treatment of default and the disclosure of information to participants and regulators. The benefits of this model include enhanced efficiency in managing central counterparty risk and systemic risk, more customer protection, and portability.

B3 integrated post-trade to create an integrated clearinghouse that consolidated the activities of the clearinghouses that resulted from the merger of BM&F and BOVESPA. The first stage of the project was completed in 2014 with the establishment of the B3 Clearinghouse (then named as BM&FBOVESPA Clearinghouse), which replaced the former Derivatives Clearinghouse and has a new clearing and settlement platform and a new margin calculation methodology called CORE (Close Out Risk Evaluation). In the second stage of the project, completed in 2017, the scope of the B3 Clearinghouse was extended to equities, corporate bonds, equity derivatives, and securities lending transactions, thus fully replacing the Equities Clearinghouse. With the completion of this stage, the B3 Clearinghouse is now responsible for clearing and settling almost the entire volume traded on the markets managed by B3 with a single set of rules, a single participant structure and register, unified processes for position allocation, clearing and control, a single settlement window, a single risk management system, a single collateral pool, and a single safeguard structure. The benefits for participants will be better liquidity management, more efficient capital allocation, and less operational risk.

The Brazilian financial and capital markets are regulated and supervised by the National Monetary Council (CMN), the Central Bank of Brazil (BCB) and the Securities and Exchange Commission of Brazil (CVM). The legal and regulatory framework in force is based on Law 4595/64 (the National Financial System Law), Law 4728/65 (the Financial and Capital Markets Law), Law 6385/76 (the Securities Law), Law 6404/76 (the Corporation Law), Law 10214/01 (the Brazilian Payment System Law), Law 12810/13 (the CSD and Registration Law), CMN Resolution 4952/21 (regulates the functioning of the clearinghouses and the services provided by clearing and settlement systems in the context of SPB), BCB Resolution 304/23 (regulates, with regards to the SPB, the functioning of settlement systems, the exercise of registration activities and centralized deposit of financial assets and the creation of liens and encumbrances on registered or deposited financial assets, and give other measures on the matter), CVM Resolution 31/21 (provides for the provision of centralised securities deposit services) and CVM Resolution 135/22 (regulates the securities markets and provides for the constitution, organisation, functioning and termination of stock exchanges, commodity and futures exchanges, and organised over the counter markets).

According to the Brazilian regulatory framework, the creation and management of regulated securities markets, settlement and custody systems and financial assets and OTC derivatives trade repository activities require prior authorisation by CVM and/or BCB, depending on the market and on the respective competent legal and regulatory sphere. In January 2014, BCB published

Communiqué 25097/14, announcing that it would henceforth use the PFMI in its monitoring and assessment of the Brazilian Payment System (SPB), and in September 2021, CMN Resolution 4.952/21, article 4, established that the BCB and the CVM will use the PFMI in the regulation, monitoring and evaluation of the safety and efficiency of the clearinghouses and providers of clearing and settlement services. In March 2023, art. 174 of the Regulation Annex to the BCB Resolution 304/23 established that the BCB will observe the PFMI applicable to the activities of institutions operating financial market system through the financial market systems operated by them.

In July 2020, B3 was accredited by the SUSEP as a trade repository for insurance, open supplementary pension, capitalization, and reinsurance transactions, pursuant to the provisions of CNSP Resolution 383/20 of March 20, 2020, and of SUSEP Circular 599/20 of March 30, 2020.

Headquartered in São Paulo, Brazil, B3 S.A. - BRASIL, BOLSA, BALCÃO has representative offices in London (UK), Shanghai (China), Chicago (USA) and Singapore. The following entities are also part of B3's group:

- (i) BSM Market Supervision (or BSM, a private-law association whose purpose is to supervise the activities of B3 and its participants in compliance with the applicable rules and regulations);
- (ii) B3 Bank S.A. (a wholly owned subsidiary whose purpose is to act as settler, custodian, bookkeeper and issuer of securities deposit certificates, fiduciary administrator, manager, and distributor of investment funds, providing services to B3 and its participants in the markets managed by B3);
- (iii) B3 Social (a public-interest civil society organisation whose purpose is to integrate and coordinate B3's private social investment projects);
- (iv) B3 S.A. - Brasil, Bolsa, Balcão (UK) LTD. (subsidiary, located in London, whose objectives are to represent B3 abroad, through relationships with other exchanges and regulatory entities, and to assist in the prospecting of new clients, given the respective regulatory limits);
- (v) Rio de Janeiro Stock Exchange (BVRJ) (inactive stock exchange, on which B3 owns 99 equity titles, corresponding to 86.95% of its social capital);
- (vi) B3 Inova USA LLC (wholly owned subsidiary of B3, headquartered in Delaware (USA), was established in 2017 with the purpose of implementing B3's technology investment policy);
- (vii) Cetip Lux S.à.r.l. (wholly owned subsidiary of B3, headquartered in Luxembourg, its corporate purpose consists of acquiring shares in the capital of any companies or entities established in any form and raising financial resources);
- (viii) Cetip Info Tecnologia S.A. (limited company wholly owned by B3, with headquarters in Luxembourg, whose corporate purpose consists of acquiring shares in the capital of any companies or entities established in any form, and raising financial resources);
- (ix) BM&FBOVESPA BRV LLC (wholly owned subsidiary of B3, registered in Delaware, within the scope of the partnership between B3 and the CME Group, which co-owns, along with B3, of all intellectual property rights related to the shares module of the trading platform

- PUMA Trading System, and any other modules jointly developed by these parties, whose ownership is attributed to B3);
- (x) Neoway Tecnologia Integrada Assessoria e Negócios S.A. (public limited company, headquartered in Florianópolis (Brazil), its corporate purpose is to organize and complement its customers' database with qualified information and to provide market intelligence services, through a big data platform, artificial intelligence, and integrated analysis tools);
 - (xi) B3 Digitas Ltda (its objective is to follow up the trend towards bringing the financial market closer to the digital assets segment and reduce the complexity of access to this market, through the development of an infrastructure for cryptocurrencies, facilitating the launch of new crypto products);
 - (xii) RTM – Rede de Telecomunicações para o Mercado Ltda (B3's affiliate that manages data, voice and image services and develops specific solutions for users in the financial sector);
 - (xiii) Dimensa S.A. (established in 2021, following the carve-out of TFS (Totvs Financial Services), it is a privately-held company associated with B3 in partnership with Totvs S.A., focused on B2B technologies for the financial market and fintechs. In 2021, B3 acquired a minority stake of 37.5% of Dimensa's social capital, with Totvs S.A. remaining as the controlling shareholder with ownership of the remaining shares);
 - (xiv) B3 S.A. USA Chicago LLC (wholly owned subsidiary of B3, headquartered in Delaware (USA), aims to represent B3 abroad, through relationships with other exchanges and regulatory entities);
 - (xv) BLK (limited company based in São Paulo (Brazil) whose corporate purpose is the development of computer programs (softwares), licensing or assignment of rights to use computer programs, technical IT support, training in the IT area, provision activities of information services, rental of space on website and participation in other companies as a partner, shareholder or quota holder);
 - (xvi) Central de Exposição a Derivativos - CED (headquartered in São Paulo (Brazil), whose corporate purpose is to offer to the capital market transparency on derivative positions contracted in Brazil, allowing a more accurate assessment of financial institutions in granting credit to companies in such kind of operation);
 - (xvii) PDtec S.A. (joint-stock company based in Barueri, São Paulo, whose corporate purpose is to present solutions for clients of notary services, increasing the efficiency of such services through the integration and registration of electronic documents for authentication purposes, technical support, maintenance, and other information technology services, others); and
 - (xviii) MBOCHIP (specialized in technology services for capital markets, provides electronic trading solutions and algorithms for institutional clients).

IV – ACRONYMS

The following acronyms are used in this document:

ADR	American Depositary Receipt
AML/CFT	Anti Money Laundering and Combating the Financing of Terrorism and Proliferation of Weapons of Mass Destruction
Anbima	Brazilian Financial and Capital Markets Association
Ancord	National Association of Brokerage Houses and Securities, Exchange, and Commodities Dealers
BCB	Central Bank of Brazil
BCP	Business Continuity Plan
BDR	Brazilian Depositary Receipt
BIA	Business Impact Analysis
BIS	Bank for International Settlements
BM&F	Brazilian Mercantile and Future Exchange
BOVESPA	São Paulo Stock Exchange
BSM	BSM Market Supervision
CCP	Central Counterparty
CD	Bank Certificate of Deposit
CEL	Special settlement account
CELP	Participant special settlement account
Cetip	Central of Custody and Financial Settlement of Securities
CMN	Brazilian National Monetary Council
CNSP	Brazilian National Private Insurance Council
CORE	Closeout Risk Evaluation
COSO	Committee of Sponsoring Organizations of the Treadway Commission
CPSS	Committee on Payment and Settlement Systems
CSD	Central Securities Depository
CVM	Securities and Exchange Commission of Brazil
DTCC	Depository Trust & Clearing Corporation
ESMA	European Securities and Markets Authority
ETF	Exchange-Traded Fund

FRB	Federal Reserve Bank
FMI	Financial market infrastructure
IRL	Intraday Risk Limit
IOSCO	International Organization of Securities Commissions
KR	Key Result
LCA	Agribusiness Letter of Credit
LCI	Real Estate Letter of Credit
LVPS	Large Value Payment System
MRP	Investor Compensation Mechanism
OB	Operating Balance
OKR	Objective Key Result
PFMI	Principles for Financial Market Infrastructures
PQO	Operational Qualification Program of B3
PS	Payment System
PVP	Payment versus Payment
RFB	Brazilian Internal Revenue Agency
SELIC	Special System for Settlement and Custody
SPB	Brazilian Payment System
SSS	Securities Settlement System
STR	Reserves Transfer System
SUSEP	Private Insurance Superintendence
TR	Trade Repository

V – PRINCIPLE-BY-PRINCIPLE DISCLOSURE

PRINCIPLE 1 – LEGAL BASIS

PRINCIPLE 1 – LEGAL BASIS: *An FMI should have a well-founded, clear, transparent, and enforceable legal basis for each material aspect of its activities in all relevant jurisdictions.*

Key Consideration 1 - *The legal basis should provide a high degree of certainty for each material aspect of an FMI's activities in all relevant jurisdictions.*

Brazilian jurisdiction

The Brazilian jurisdiction is of paramount importance to B3's activities as a financial market infrastructure, since it is a corporation established in Brazil in accordance with Brazilian laws and its activities as a clearinghouse and central counterparty (CCP), central securities depository (CSD) and trade repository (TR) are performed in Brazil.

The legal basis currently existing in Brazil provides a high degree of certainty for the activities performed by B3 as a financial market infrastructure. The reliability of this legal framework is also due to the high level of regulation and supervision of the financial and capital markets in Brazil, as discussed below.

The regulatory framework that disciplines the financial and capital markets in Brazil is based on the following laws:

- Law 4595/64 – National Financial System Law;
- Law 4728/65 – Financial and Capital Markets Law;
- Law 6385/76 – Securities Law;
- Law 6404/76 – Corporate Law;
- Law 10214/01 – SPB Law; and
- Law 12810/13 – CSD and Trade Repository Law.

CMN, BCB and CVM are the main bodies responsible for regulating activities performed in the financial and capital markets, and for supervising the participants in such markets in their respective spheres of competence.

CMN is the highest regulatory body and the highest authority for the financial and capital markets in Brazil. Its members are the Minister of Economy, the Governor of the BCB, and the Special Secretary of Finance. CMN was established with the specific purpose of formulating monetary, exchange-rate and credit policies as guidance for the financial and capital markets, among other goals, and in this capacity it decides on matters such as the availability of credit, the operating limits applicable to financial institutions, the rules for foreign investment in Brazil, and foreign-exchange norms.

BCB is a semi-autonomous federal entity empowered to implement the monetary, exchange-rate and credit policies formulated by CMN, regulate the foreign-exchange market and the flow of foreign funds into and out of Brazil, authorise and supervise the functioning of financial institutions, and perform surveillance, oversight and inspection of all financial institutions operating in Brazil, both public and private. BCB is empowered to impose penalties. Its Governor is appointed by the President of the Republic for a fixed term of 4 (four) years, with the possibility of renewal for a further 4 (four), in accordance with Supplementary Law 179/21. The appointment must be confirmed by the Senate.

BCB is currently a member of the Bank for International Settlements (BIS), participating in the following committees: Committee on Payments and Market Infrastructures (CPMI), the Basel Committee on Banking Supervision (BCBS), the Committee on the Global Financial System (CGFS), the Markets Committee, and the Irving Fisher Committee on Central Bank Statistics (IFC).

CVM is a semi-autonomous federal entity empowered to regulate, control, and oversee the capital markets in Brazil. Financial and other institutions authorised to operate by BCB are also subject to CVM's regulatory authority insofar as they act as providers of investment services to participants in these markets, including securities subscription, distribution, and placement, as well as order transmission. CVM also performs the critical task of overseeing the activities of public companies, of the exchange and over-the-counter (OTC) securities markets, and of members of the securities dealing system, including fund managers and asset managers.

CVM is a regular member of the International Organization of Securities Commissions (IOSCO) and an active participant in the development of international business standards. CVM is a member of all eight IOSCO Policy Committees. It is also a signatory to the IOSCO Multilateral Memorandum of Understanding (MmoU).

B3 and its self-regulatory arm, BSM, are associate members of IOSCO.

As members of IOSCO and CPMI respectively, CVM and BCB are active participants in the global benchmarking initiative represented by the Principles for Financial Market Infrastructures, published in 2012 by the CPSS) and IOSCO's Technical Committee. The June 2015 PFMI implementation assessment report issued by CPSS and OICV-IOSCO (*Implementation monitoring of PFMIs: Second update to Level 1 assessment report*, p. 12) awards Brazil Rating 4, the highest possible, indicating that final implementation measures are in force. This status corresponds to cases where, in addition to the required implementation measures having been finalised and approved/adopted, FMIs are expected to observe the Principles or authorities to observe the Responsibilities included in the PFMIs. Brazil was again given Rating 4 in the updates published in June 2016, July 2017, and July 2018. In November 2020, CPSS-IOSCO assessed as consistent and complete the Brazilian legal and regulatory framework regarding the PMFI (Level 2 assessment report for Brazil).

CVM and BCB are members of the Financial Stability Board (FSB), established to coordinate at the international level the work done by national financial authorities and international standard setting bodies to develop and promote the implementation of effective regulatory, supervisory, and other policies for the financial sector.

According to the Brazilian regulatory framework, the creation and management of organised securities markets, clearing and settlement systems, as well as the activities of CCPs, CSDs and

financial assets and OTC derivatives TRs, require prior authorisation by CVM and/or BCB, depending on the market and the respective sphere of legal and regulatory competence.

BCB and CVM are empowered to exercise regulatory supervision of B3. BCB is the authority most intensely involved in the supervision, regulation, and surveillance of B3's clearinghouses, especially with regard to risk management, and also the regulatory authority for the B3 Bank, a subsidiary of B3 that participates in the activities of B3's clearinghouses as one of the settlement agents engaged by clearing members and providers of support services relating to collateral management and transaction settlement processing.

BCB and CVM use the PFMI in supervising, monitoring, and assessing the entities they authorise to operate, as evidenced by CVM Resolution 31/21, by CVM Resolution 135/22, by CMN Resolution 4952/21 and by BCB Resolution 304/23. BCB issues periodically a list of the entities that belong to the Brazilian Payment System (SPB) and are submitted to its inspection, monitoring, and assessment, as per the regulatory documents just mentioned. See also BCB Communiqués 25164/14, 27115/15, 29078/16, 30516/17 and 32549/18³.

The regulatory framework that governs the national private insurance system and the open supplementary pension, capitalization, and reinsurance markets in Brazil is based on the following laws:

- Decree-Law 73/66 - Decree-Law of the National Private Insurance System;
- Decree-Law 261/67 - Decree-Law of the Capitalization Companies;
- Supplementary Law 109/01 - Supplementary Law of the Complementary Pension System; and
- Supplementary Law 126/07 - Supplementary Law of the Reinsurance Policy.

The CNSP and the SUSEP are the main bodies responsible for regulating the activities carried out in the insurance, open supplementary pension, capitalization, and reinsurance markets and supervising their participants under their respective jurisdictions.

The CNSP, which is the body responsible for establishing the guidelines and rules of the private insurance policy, composed by the Ministry of Treasury or its representative, representatives of the Ministry of Justice, of the Ministry of Social Security, of the BCB and of the CVM, and by the SUSEP Superintendent, provides on registration of the insurance, open supplementary pension, capitalization, and reinsurance transactions by means of CNSP Resolution 383/20, which determines that insurance companies, open supplementary pension entities, capitalization companies and local reinsurers register their transactions in registration systems previously homologated by the SUSEP and administrated by trade repositories accredited by such autonomous government agency.

SUSEP, a federal autonomous government agency in charge of controlling and inspecting the insurance, open supplementary pension, capitalization, and reinsurance markets established, by means of SUSEP Circular 599/20, the rules for homologation of the insurance, open supplementary pension, capitalization, and reinsurance trade repositories registration and accrediting systems. Article 2 of such circular defines the minimum requirements to be observed by the trade repositories,

³ https://www.bcb.gov.br/estabilidadefinanceira/sistemasautorizados_spb

especially compliance with technical standards, in line with the PFMI, applicable to repositories of transactions, including with respect to the security, governance, and business continuity, the execution of an instrument of adhesion with SUSEP, as well as prior experience of at least one year in FMI activities authorized by the BCB or by the CVM, or in the provision of information technology services compatible with those required for engagement in registration activities.

Legal basis for B3's activities

B3's clearinghouse, CSD and financial assets and OTC derivatives trade repositories activities are formally authorised by the competent Brazilian regulatory authorities, specifically CMN, BCB and CVM, pursuant to the laws listed at the start of this Key Consideration and to CMN Resolution 4952/21, BCB Resolution 304/23, CVM Resolution 135/22, CMN Resolution 4593/17 and CVM Resolution 31/21. The following documents contain the requisite authorisations: BCB Communiqués 9419/02, 12789/04, 13750/05, 25097/14, 29078/16, 26265/14 and 32549/18, and CVM/SMI Official Letters 018/09 and 101/15.

The operation of B3's activities within the scope of trade repository for insurance, open supplementary pension, capitalization, and reinsurance transactions is formally authorized by SUSEP pursuant to the provisions of CNSP Resolution 383/20 and of SUSEP Circular 599/20. Such authorization is set out in SUSEP Ordinance 7649/20.

According to Law 9613/98, articles 9 and 10, and CVM Resolution 50/21, article 3, paragraph 2, stocks, commodities, and futures exchanges, over the counter trading systems and entities that develops clearing and settlement activities are obligated to identify final beneficial owners and monitor their transactions.

As an operator of organised markets, B3 is authorised to be self-regulating in accordance with the aforementioned legislation, which is enhanced by means of its rulebooks and manuals.

The following items detail the legal basis for each material aspect of B3's activities as an operator of organised securities markets, clearinghouses, central counterparty, central securities depository, trade repository for financial assets and securities and trade repository for insurance, open supplementary pension, capitalization, and reinsurance transactions, and as a self-regulatory organisation.

(a) B3's activities as an operator of organised securities markets

CVM classifies an organised securities market as a "stock market" or as an "organised over-the-counter market", depending mainly on the pricing rules used by the respective trading systems, the volume traded on these systems, and the type of investor targeted by each market. B3 operates as an entity that manages organised securities markets in the organised exchange and organised over-the-counter market categories.

The main set of rules applicable to organised exchange and OTC markets in Brazil is CVM Resolution 135/22, which regulates their functioning and also requires that these markets adopt self-regulation mechanisms. The main features of a stock market or organised OTC market are stipulated in articles 116 and 142 of this Resolution respectively.

(b) B3's clearinghouse activities

Law 10214/01, CMN Resolution 4952/21 and BCB Resolution 304/23 primarily establish the legal and regulatory framework for the activities of clearinghouses as part of the SPB. These norms define the concepts of multilateral netting, settlement, contract novation (via substitution of counterparties), and the rights and obligations of the contracting parties. In addition, they recognize the unconditional and irrevocable nature of settlement, and assure preference for clearinghouses in disposing of assets pledged as collateral in the event of settlement default.

According to the above legislation, BCB is required to assure the continuity and development of the SPB, and is empowered to authorise and regulate the clearing and settlement systems operated by clearinghouses considered systemically important.

BCB shares this competence with CVM as far as the settlement of securities transactions is concerned (but not for the settlement of transactions involving federal government bonds and debt securities issued by private banks). Exercising the regulatory powers attributed to it by the above legal and regulatory framework, CVM has issued several norms applicable to the Brazilian capital markets, including CVM Resolution 135/22, which provides for (i) the operation of regulated securities markets, (ii) the constitution, organisation, functioning and extinction of the operators of organised securities organized markets and (iii) the provision of services referred to in Law 6385/76, article 2, § 4º and Law 12810/13, article 28, regarding to the registration of securities markets.

Relevant aspect	Legislation	B3 Clearinghouse Rules	B3 Foreign Exchange Clearinghouse Rulebook
Classification as a systemically important system	Law 10214 CMN Resolution 4952 BCB Resolution 304	Tit. IV, Chap. II, Art. 177	-
Central counterparty function	Law 10214 BCB Resolution 304	Tit. II, Sole Chapter	-
Multilateral netting	Law 10214 BCB Resolution 304	Tit. II, Chap. III, Section V	Chap. VII
Settlement	Law 10214 CMN Resolution 4952 BCB Resolution 304	Tit. II, Chap. III, Sections VI, VII & VIII	Chap. VIII
Individual customer segregation model	Law 9613 CVM Resolution 50 CVM Resolution 35	Tit. II, Chap. III, Section IV	-
Novation	Law 10214 BCB Resolution 304 Law 10406	Tit. II, Chap. III, Section I	Art. 11
Irrevocable and unconditional settlement of obligations	Law 10214 BCB Resolution 304	Tit. II, Chap. I, Sole Section, Art.10	Art. 21
Closeout of positions in the event of default	Law 10214 BCB Resolution 304	Tit. II, Chap. V	Chap. VIII, Section III

Relevant aspect	Legislation	B3 Clearinghouse Rules	B3 Foreign Exchange Clearinghouse Rulebook
Safeguards and collateral	Law 10214 BCB Resolution 304 Resolution CVM 135	Tit. II, Chap. IV	Chap. IX
Chain of responsibilities	CMN Resolution 5008	Tit. II, Chap. II	Chap. III
Confidentiality	Supplementary Law 105	Tit. IV, Chap. VI, Art. 193	Chap. XII, Art. 50

(c) B3's activities as a central depository for financial assets and securities

In addition to the above legal framework, the following also govern the activities of centralised deposit of financial assets and securities in Brazil: Law 6404/76, Law 12810/13, CVM Resolutions 31/21, 32/21, and 33/21, BCB Resolution 304/23, and CMN Resolution 4593/17.

- Law 6404/76 (the Corporation Law) allows the issuance of shares in book-entry form, and provides that ownership of the shares is presumed by the deposit in the depository institution;
- Law 12810/13 (the CSD Law) governs CSD activities and the registration of securities and financial assets. It empowers BCB and CVM, each within its respective sphere of competence, to authorise and supervise the activities of CSDs, and to establish the conditions in which such activities shall be carried out. It states that the centralised deposit services provided by entities licensed to operate as CSDs comprise the centralised safekeeping of financial assets and securities, fungible or non-fungible, control of their effective ownership, and treatment of their events. It also states that these entities are responsible for the integrity of their systems and of the records corresponding to the financial assets and securities held by them as CSDs. It requires fiduciary transfer of title in all such financial assets and securities to the CSD in question;
- According to CVM Resolution 31/21, securities deposited in accounts with the CSD are represented and transferred only in the form of ledger entries booked to the accounts concerned. CVM Resolution 32/21 establishes the requirements for an institution to obtain a license to operate as a custodian in Brazil, as a CSD participant, and CVM Resolution 33/21 contains the rules for service provision by securities registrars and issuers of securities certificates;
- Article 26 of Law 12810/13 states that the constitution of security interests, liens and encumbrances on financial assets and securities for registration or depositing with CSDs, whether individually or universally, including for purposes of publicity and efficacy in relations with third parties, may be performed solely by means of their registration with the registration entities or CSDs where they are registered or deposited, regardless of the legal nature of the transaction involved, and that any such instrument must also be registered whenever the law requires a specific deed or agreement in order to constitute a lien or security interest;
- BCB Resolution 304/23 establishes specific requirements for centralised deposit services involving financial assets. Based on the provisions of Law 10214/01, article 10, and Law

12810/13, articles 22, 26 and 28, this resolution regulates, within the scope of the SPB, the operation of settlement systems, the exercise of registration and central depository activities for financial assets and the establishment of encumbrances and liens on deposited or registered financial assets, and gives other measures on these matters; and

- CMN Resolution 4593/17 deals with registration and central depository activities for financial assets and securities by financial institutions and other institutions licensed by the Central Bank of Brazil.

Relevant aspects	Legislation	B3 Central Depository Rules
Centralised deposit of financial assets and securities	Law 6404 Law 12810 CVM Resolution 31 BCB Resolution 304 CMN Resolution 4593	Title II
Individual customer segregation model	Law 9613 CVM Resolution 50 CVM Resolution 31	Art. 2, sole paragraph, item III Art. 5, item II & first paragraph Art. 15 and ff.
Fiduciary ownership	Law 6404 Law 12810 CVM Resolution 31 BCB Resolution 304	Art. 2, sole paragraph, items I, II, III Art. 5, items V, VI, X and XI, and first paragraph Art. 18 Art. 19 Art. 23
Confidentiality	Supplementary Law 105	Art. 5, item XLII

(d) B3's financial assets and OTC derivatives TR activities

Law 12810/13, article 28, defines the registration of financial assets and securities, and stipulates that it includes the safekeeping of information on financial transactions, as well as the disclosure of such information except where subject to secrecy laws.

CVM Resolution 135/22 deals with securities registration and trading activities, clarifying that to comply with registration obligations (e.g., the ruling that registration of a derivative is a condition of its validity) it suffices to register the transaction or security in an organised OTC market.

CMN Resolution 4593/17 deals with registration and central depository activities for financial assets and securities by financial institutions and other institutions licensed by the Central Bank of Brazil, establishing the conditions under which registration and centralised depositing of financial assets and securities are required for financial institutions and other entities specified therein, besides the registration of liens and encumbrances, according to Law 12810/13, article 26-A.

CMN Resolution 4734/19 establishes the conditions and procedures to be complied with by the financial institutions for operating discount transactions on receivables from a payment arrangement

within the SPB, based on post-paid and deposit accounts and credit operations collateralized by these receivables.

Relevant aspects	Legislation	B3 Clearinghouse Rules	B3 Foreign Exchange Clearinghouse Rulebook	OTC B3 Rulebook
Financial assets and securities TR	Law 10214 BCB Resolution 304 Law 12810 CMN Resolution 4593 CVM Resolution 135	Tit. I, Sole Chap. Tit. II, Chap. III, Section IV	Chap. I, item 44 Chap. IV	Chaps. I, II and IV
Individual customer segregation model	Law 9613 CVM Resolution 50	Tit. II, Chap. III, Section IV	Chap. III, art. 5 Chap. IV, art. 8, paragraph 2, paragraph 3, and paragraph 9	-
Confidentiality	Supplementary Law 105	Tit. IV, Chap. VI, Art. 191	Chap. XII, Art. 50	-
Payment receivables arrangement registration	CMN Resolution 4734	-	-	Chaps. II and IV

(e) B3's insurance, open supplementary pension, capitalization, and reinsurance TR activities

B3 was accredited by the SUSEP as a trade repository of insurance, open supplementary pension, capitalization, and reinsurance transactions by means of SUSEP Ordinance 7.649/20.

SUSEP Circular 601/20 provides on the conditions for registration of performance bond transactions in registration systems homologated and administrated by repositories accredited by the SUSEP.

SUSEP Circular 619/20 provides on the policy on security and confidentiality of the data and information of the trade repositories accredited to provide insurance, open supplementary pension, capitalization, and reinsurance transaction registration services.

SUSEP Circular 624/21 provides on the conditions for optional registration and for mandatory registration of the damage insurance and person insurance transactions structured in a simple sharing financial system and registration systems homologated and administrated by trade repositories accredited by the SUSEP.

SUSEP Circular 655/22 provides on the conditions for optional registration and for mandatory registration of open supplementary pension transactions with risk coverage in registration systems homologated and administrated by trade repositories accredited by the SUSEP.

SUSEP Circular 673/22 provides on the conditions for registration of transactions with survival coverage in open supplementary pension and person insurance plans in registration systems homologated and administrated by trade repositories accredited by the SUSEP.

SUSEP Circular 675/22 provides on the conditions for optional registration and for mandatory registration of person insurance transactions with structured risk coverage in the financial system of sharing of coverage or capitalization capital in registration systems homologated and administrated by trade repositories accredited by the SUSEP.

SUSEP Circular 679/22 provides on the conditions for the registration of capitalization transactions in registration systems homologated and administrated by trade repositories accredited by the SUSEP.

SUSEP Circular 686/23 provides on the conditions for the registration of financial assistance transactions of the open supplementary pension entities and insurance companies in registration systems homologated and administrated by trade repositories accredited by the SUSEP.

CNSP Resolution 393/20 provides on administrative sanctions, governs administrative investigations, the term of conduct adjustment and sanctioning administrative proceedings within the scope of the SUSEP, and it applies also to trade repositories.

Relevant aspects	Legislation
Mandatory registration	SUSEP Circular 601 SUSEP Circular 624 SUSEP Circular 655 SUSEP Circular 673 SUSEP Circular 675 SUSEP Circular 679 SUSEP Circular 686 CNSP Resolution 383
Accreditation and homologation	SUSEP Circular 599
Confidentiality	SUSEP Circular 619
Sanctions	CNSP Resolution 393

(f) Self-regulatory function

Organised securities markets, clearinghouses, CSDs and financial assets and OTC derivatives TRs are considered ancillary organs of BCB and CVM in performing market surveillance, which they do by exercising the self-regulatory authority delegated to them to supervise the conduct of the intermediaries and other financial institutions that operate in their markets, as well as the transactions involving financial assets and securities executed in these markets, as set forth below.

Entities that manage organised securities markets must issue specific norms that regulate financial assets and securities trading and registration in their markets, as well as clearing, settlement, and centralised deposit. In B3's case, these norms are embodied in its rulebooks, manuals, circular letters, and external communications, issued in accordance with procedures based on case-by-case evaluation for drafting, approval by the regulators and publication to the market.

To assure the independence of the self-regulation function, on one hand, and segregation from operating activities, on the other, CVM Resolution 135/22 allows operators of organised markets to choose one of the following options:

- creation of a specific self-regulation structure comprising a department of self-regulation, a chief regulatory officer, and a self-regulation board;
- incorporation of a special-purpose vehicle; or
- engagement of an independent third party, or a self-regulation association that maintains an agreement with CVM for the exchange of information and use, by CVM, of regulation, supervision and sanctioning actions performed by the private self-regulation association.

B3 chose to incorporate an association, BSM Market Supervision (BSM), which performs part of B3's self-regulatory activities.

BSM supervises the markets managed by B3 to assure compliance with legal, regulatory, and operational norms, and hence also to assure adequate functioning of the market. Its main activities are supervising the transactions performed in B3's markets (market surveillance), the parties authorised to trade on B3's markets (supervision of participant) and the activities of B3's operating areas, as well as monitoring trading in securities issued by B3.

BSM is also responsible for administration of the Investor Compensation Mechanism (MRP), established in accordance with CVM Resolution 135/22 to ensure that investors are compensated for losses resulting from action or omission attributable to participants or administrators, staff or acting on behalf of participants in relation to the intermediation of operations carried out in the organized securities markets or securities custody activities.

Other jurisdictions

The only material aspects of B3's activities to be taken into consideration with regard to other relevant jurisdictions besides Brazil are the posting of collateral abroad and settlement in United States Dollars (USD).

On the posting of collateral abroad, the following applies:

- In connection with B3 Clearinghouse, non-resident investors trading pursuant to CMN Resolutions 4373/14 or 2687/00 may post collateral abroad in accordance with the terms and conditions established by B3 Clearinghouse Rules and Risk Management Manual, subject to the limit established by CMN Resolution 4569/17 and BCB Resolution 304/23. On September 29, 2023, collateral deposited abroad (R\$ 12.7 billion) corresponded to 2.2% of the total amount of collateral pledged to the B3 Clearinghouse (R\$ 574 billion). A study on acceptance of collateral posted abroad conducted by B3, which commissioned legal memoranda from foreign and domestic law firms, concluded that such collateral enjoys the same legal certainty and the same degree of enforceability as collateral constituted in Brazil relative to certain types of collateral posted by certain types of non-resident investors domiciled in the United States, United Kingdom, France, Luxembourg, and Cayman Islands;
- In connection with the B3 Foreign Exchange Clearinghouse, participants may constitute collateral by depositing USD in an account held by B3 with a bank established in the USA. On

September 29, 2023, no collateral was posted by the participants of this clearinghouse in such form; and

- With regard to settlement in USD, please refer to the answers in the section on Principle 8 – Settlement Finality.

Confidentiality and legal and regulatory framework on AML/CFT

With regard to data access, confidentiality and disclosure, CVM Resolution 135/22 determines the minimum requirements and how information is to be made available to regulators (articles 39 and 40). According to Supplementary Law 105/01, which applies to exchanges, financial intermediaries and financial institutions, the general rule is that confidential information must not be disclosed or published, with some exceptions. Any information conveyed to BCB and CVM by force of law or regulation must remain confidential and cannot be disclosed to third parties.

Law 9613/98 provides for measures that financial institutions and clearinghouses, among others, are obliged to implement in order to prevent the use of the financial system for money laundering and terrorism financing. It defines money laundering crimes, stipulates preventive measures and a system for communicating suspicious occurrences, and calls for international cooperation procedures.

Decree 5640/05 made public the International Convention for the Suppression of the Financing of Terrorism, adopted by the United Nations General Assembly on December 9, 1999, and signed by Brazil on November 10, 2001.

Money laundering and tax evasion

Basic law:

- Law 9613/98: provides for crimes of “laundering” or concealment of assets, rights and values, and prevention of use of the financial system for illicit activities also contemplated by this law, and creates the Financial Activities Control Council (COAF);
- Decree 8506/15: promulgates the Intergovernmental Agreement between the Government of the Federative Republic of Brazil and the Government of the United States of America on the Improvement of International Tax Compliance and FATCA Implementation;
- Decree 8842/16: promulgates the text of the Multilateral Convention on Mutual Administrative Assistance in Tax Matters (Common Reporting Standard);
- CVM Resolution 50/21: provides for the prevention of money laundering, the financing of terrorism and the financing of the proliferation of weapons of mass destruction - AML/CFT within the scope of securities market;
- RFB NI 1571/15: provides for the obligation to submit information regarding financial transactions of interest to the Brazilian Internal Revenue Agency; and
- RFB NI 1680/16: provides for the identification of financial accounts in accordance with the Common Reporting Standard (CRS).

By virtue of Laws 12683/12 and 9613/98, B3 is obligated to take steps to prevent money laundering, including (i) identify and maintain customer records, (ii) keep records of transactions in assets

convertible into local currency comprising, for this purpose, trades in securities, foreign currencies, credit securities and metals, (iii) and adopt policies, procedures and internal controls for risk identification and mitigation purposes.

However, B3 is not obligated to file periodic investor data with the Brazilian Internal Revenue Agency to comply with Decrees 8506/15 and 8842/16 and RFB Normative Instructions 1571/15 and 1680/16, an obligation non-resident investors' intermediaries, custodians, investment fund managers, brokers, and dealers, as the case may be, are accountable for.

CVM Resolution 50/21 establishes obligations for B3, as a market management entity and financial market infrastructure operator, to identify, analyse, understand, and mitigate risks associated with money laundering, the financing of terrorism and the financing of the proliferation of weapons of mass destruction - AML/CFT.

Finally, CVM/SMI Official Letter 05/2015 establishes the duty to the institutions under CVM's supervision to notify the Financial Activity Control Council (COAF) if they detect transactions that might relate to money laundering or terrorism financing.

Key Consideration 2 - *An FMI should have rules, procedures, and contracts that are clear, understandable, and consistent with relevant laws and regulations.*

The rules and procedures for B3's clearinghouse, CSD and financial assets and OTC derivatives TR activities, as well as the contracts that can be traded and/or registered through its trading and/or registration systems, are approved by BCB and/or CVM, in accordance with the markets involved and with the respective legal and regulatory competences.

These rules, procedures and contracts are sent to participants electronically (by email), through circular letters or external communications when they are issued for the first time or amended, and can be read on B3's website in Portuguese and English. New rules and amendments to existing rules are published in the daily bulletin, also available from B3's website as soon as they are issued and disclosed to the market.

B3 believes participants know and understand the rules and procedures. BSM regularly audits participants and periodically submits participants' employees to tests prepared by Ancord, in partnership with B3 Education⁴, prepares for each audited area (operations, compliance, risk management, back office, custody, settlement and participant registration) as part of its Operational Qualification Program (PQO).

B3 has an area dedicated to relations with and development of participants. This department is responsible for clarifying questions about rules, procedures, contracts, and systems, among others. In addition, all operational areas of B3 are available to participants for clarifications about the rules and procedures in force.

⁴ B3 Education is a nonprofit association linked to B3 with the purpose of training financial professionals and investors.

B3 engages actively with participants by discussing relevant new rules and procedures, as well as alterations to existing ones.

B3 assures the consistency of its rules, procedures and contracts with relevant laws and regulations. Legal opinions on specific issues may be commissioned from outside advisors or lawyers. B3 is not aware of any inconsistencies between its rules, procedures and contracts and the applicable laws and regulations.

The fact that B3's rules, procedures and contracts do not enter into force until they have been approved by the regulatory authorities minimises the risk of inconsistencies. Any inconsistencies that may be identified are taken to the regulators for discussion, and as appropriate the rules, procedures and contracts are reviewed, amended, and resubmitted for approval by the regulators.

Pursuant to the regulation presented in Key Consideration 1, B3's rules, procedures and contracts are approved by the regulatory authorities (BCB and/or CVM depending on the markets involved and the respective legal and regulatory spheres of competence) before entering into force.

Key Consideration 3 - *An FMI should be able to articulate the legal basis for its activities to relevant authorities, participants, and, where relevant, participants' customers, in a clear and understandable way.*

B3 maintains constant communication with the regulatory authorities, participants and, where relevant, customers in a clear and understandable way about the legal basis for the activities it performs.

B3 discusses such matters with and within its advisory committees, made up of participants and academics, among others, and also submits proposed rules to the regulatory authorities and, in some cases, to the participants in order to receive their feedback.

Key Consideration 4 - *An FMI should have rules, procedures, and contracts that are enforceable in all relevant jurisdictions. There should be a high degree of certainty that actions taken by the FMI under such rules and procedures will not be voided, reversed, or subject to stays.*

B3 has rules, procedures and contracts that are enforceable in the jurisdiction most relevant to its activities, which is the Brazilian jurisdiction. There is a high degree of certainty that its actions will not be voided or reversed in any way.

B3's rules, procedures and contracts follow the laws of Brazil, so that their enforceability is governed by Brazil's legal and regulatory structure, described in the answers to Key Consideration 1, and they are applicable in the Brazilian jurisdiction to its participants, including non-resident investors. With regard to collateral posted abroad, see the specific reference under Key Consideration 1.

B3 has its own legal department and uses outside advice to support the department whenever appropriate.

All regulated activities carried out by B3 are evaluated as to their adherence to the relevant legislation and regulations, and are subject to the regulations issued by B3 itself.

B3 is confident that its own rulebooks and operating manuals are clear, above all because they comply with the applicable laws and regulations.

Given the legal and regulatory framework described above (see Key Consideration 1), B3 offers a high degree of certainty that its rules, procedures, and contracts are valid and effective.

B3's rules and procedures are derived from law and are based on legal and regulatory provisions.

To date no court has held unenforceable any of the arrangements adopted in B3's clearinghouse, CSD or financial assets and OTC derivatives TR activities in accordance with the applicable laws and procedures.

Key Consideration 5 - An FMI conducting business in multiple jurisdictions should identify and mitigate the risks arising from any potential conflict of laws across jurisdictions.

B3 does not operate in multiple jurisdictions. In fact, it does not conduct business in any jurisdictions other than Brazil, except for regional representation in the United Kingdom, United States of America, Singapore, and China.

In the event of uncertainty as to the applicable laws, B3's Legal Department analyses the issue and, if necessary, engages outside consultants or law firms, particularly with regard to foreign legislation.

PRINCIPLE 2 – GOVERNANCE

PRINCIPLE 2 – GOVERNANCE: *An FMI should have governance arrangements that are clear and transparent, promote the safety and efficiency of the FMI, and support the stability of the broader financial system, other relevant public interest considerations, and the objectives of relevant stakeholders.*

Key Consideration 1 - *An FMI should have objectives that place a high priority on the safety and efficiency of the FMI and explicitly support financial stability and other relevant public interest considerations*

B3 has objectives that place a high priority on its safety and efficiency, and explicitly support financial stability and other relevant public interest considerations.

B3's Bylaws, which are available from the investor relations website (ri.b3.com.br/en), formally express the following corporate purposes:

- I. Operation of organised securities markets, charged with managing the organization, maintenance, and development of free and open markets for the trading on cash or futures markets (including future settlement markets) of any and all types of marketable securities, including contracts based on or backed by financial assets, indices, rates, commodities, currencies, energy products, transport products, commodities, and other assets or rights related or not related thereto;
- II. Maintenance of environments and systems appropriate for trading, auctions and registration of transactions involving securities, derivatives, rights and financial or non-financial assets typically traded on an exchange or organised OTC markets;
- III. Provision of registration, clearing, and (physical and financial) settlement services, through an internal facility or a company specifically organised for this purpose, which may or may not act as counterparty clearinghouse and provider of final settlement of outstanding obligations, pursuant to applicable legislation and its own rules, including, but not limited to:
 - (a) Transactions carried out and/or registered in any of the environments or systems listed in items "I" and "II" above; or
 - (b) Transactions carried out and/or registered with other exchanges, markets, or trading systems.
- IV. Provision of services as register institution and central depository services for financial assets, securities, and any properties or assets and provider of custody of securities and other assets;
- V. Provision of services of registration of liens and encumbrances on securities, notes, assets, whether financial or not, and other instruments, including registration of instruments constituting collateral, under applicable regulations;

- VI. Provision of services related to the insurance, reinsurance, pension, and savings bond market, including by licensing and operating information technology systems, under the applicable regulations;
- VII. Creation of a database and performance of related activities, including data processing and data intelligence;
- VIII. Provision of services relating to processed data, involving subjects that concerns to B3 and to participants in the markets it directly or indirectly serves, including, but no limited to, standardisation, classification, analyses, quotes, statistics, professional training, services involving research, publications, information, provision of information, including for compliance with the applicable laws and regulations, repository, as well as software and information technology systems and platforms development, licensing, operation and technical support;
- IX. Provision of services associated with (i) transactions registered in the markets and systems operated by B3 and (ii) support to credit, financing and lease-purchase transactions or transactions registered in the systems operated by B3 or in other market and related segments, including by licensing and operating information technology and data processing systems, involving, among other things, the automotive vehicle and the real estate segment, the energy market, the agribusiness, and the insurance, reinsurance, pension, savings bond and trust markets, in accordance with the applicable regulations;
- X. Provision of technical, administrative, and managerial support for market development, including, but not limited to, customer analysis supporting services and money laundering prevention procedures;
- XI. Performance of educational, promotional, and publishing activities related to its corporate purpose and the markets operated by B3;
- XII. Performance of other activities authorised by CVM or BCB, if applicable;
- XIII. Holding ownership interest in other companies or entities based in Brazil or abroad, whether as a member, partner, or shareholder, whether as a controlling shareholder or otherwise, under the terms to be resolved by the competent management bodies, as applicable, in compliance with the regulations in force; and
- XIV. Provision of services linked to governmental and private bidding processes, as well as similar proceedings, through technical and operational support.

Also, according to B3's Bylaws, in exercising the powers granted to it by Law 6385/76 and the applicable rules and regulations, B3 is charged with:

- (i) Regulating the granting of permits for access to the trading, registration, depository and clearing and settlement systems operated by B3 or its subsidiaries (access permits);
- (ii) Setting rules of conduct as necessary for efficient and regular operating of the market and for keeping high ethical standards in the markets operated by B3, pursuant to the applicable regulations;

- (iii) Regulating the activities access permit that holders may perform on markets and systems operated by B3;
- (iv) Establishing, when applicable, mechanisms and rules designed to mitigate the risk that access permit holders would default on their obligations under transactions carried out and/or registered in any trading, registration, deposit and clearing and settlement environments or systems operated by B3;
- (v) Pursuant to the roles defined by law, regulations, or the normative documents issued by B3, monitoring the transactions carried out and/or registered in any trading, registration, deposit and clearing and settlement environments or systems operated by B3, as well as all those it regulates;
- (vi) Monitoring, under the terms of the attributions defined by the legislation, regulation or by the rules issued by B3, the activities of access authorization holders performed, regarding any trading, registration, deposit or clearing and settlement environments or systems operated by B3, as well as all those it regulates; and
- (vii) Applying penalties for infringement of the legal, regulatory, and operating rules that B3 is responsible for enforcing.

With regard to the B3 Clearinghouse, article 1, paragraph 1 of the B3 Clearinghouse Rules states that in performing its activities it prioritizes the security, efficiency, integrity, and stability of the financial system.

With regard to B3's CDS activities, article 2 of the B3 Central Depository rules states that in performing its activities it adopts mechanisms designed to assure the existence and integrity of the securities deposited with it, effecting their safekeeping, position control and reconciliation in accordance with the applicable rules and laws, and with its own operating procedures.

With regard to the B3 Foreign Exchange Clearinghouse, the main objectives are defined in article 2 of its rulebook, which states that only foreign-exchange transactions registered in the clearinghouse's systems, and analysed, accepted, and contracted for by the clearinghouse, are cleared and settled by it and that all this is performed according to the foreign-exchange regulations in force.

B3 defined strategic drivers for the performance of its activities so as to increase the safety and efficiency of the services it provides. The members of B3's Executive Board and Board of Directors meet at least once a year to discuss and define said strategic drivers. As the body responsible for setting priorities, B3's Executive Board ensures that security and efficiency enhancements are among the key drivers.

The existence of specific drivers aimed at increasing operational efficiency and market security ensures that efforts are appropriately addressed and prioritised.

As a public company, B3 publishes quarterly reports and financial statements in compliance with Brazilian law. These include information about its performance in meeting its objectives and the status of its strategic projects. B3's Board of Directors holds at least six ordinary meetings a year to discuss the company's strategic performance and evaluate its achievements, in accordance with the requirements of its Bylaws and the Board of Directors' own Internal Regulation. Its corporate

governance guidelines are established and followed in the same way as the requirements for the listing of public companies in the listing segment named Novo Mercado.

The areas of B3 involved in efforts to achieve the financial stability expressed in B3's objectives are described below.

1. Risk Management Department: responsible for implementing all the risk management and control processes outlined for the B3 Clearinghouse and the B3 Foreign Exchange Clearinghouse;
2. Governance, Integrated Management and Cyber Security Executive Department: responsible for identifying and assessing B3's corporate risks and carrying out independent assessments of the models utilized in the management of the central counterparty, credit, and market risks, monitoring the structure of B3's internal controls, ensuring compliance with the applicable laws and regulations, and establishing business continuity and crisis management plans and processes;
3. Intern Audit Department: responsible for conducting independent, impartial, and periodic assessments of the effectiveness of risk management and governance processes, as well as the appropriateness of internal controls and compliance with the rules and regulations underlying the operations of B3 and its affiliates and subsidiaries;
4. Audit Committee: responsible for supervising the activities of independent auditors and internal audit areas, internal controls, and corporate risk management systems, it also monitors and reviews on an ongoing basis internal control and corporate risk management mechanisms;
5. Central Counterparty (CCP) Risk Internal Committee: as a supporting committee to B3's Executive Board, its responsibilities are defined in Key Consideration 2 of this Principle;
6. Financial, Administrative and Investors Relations Executive Department: responsible for evaluating and monitoring B3's compliance with the Financial Investment Policy approved by the Board of Directors;
7. Risk and Financial Committee (a supporting committee to B3's Board of Directors): responsible for monitoring and assessing, from a strategic and structural standpoint, the risks inherent in B3's activities, periodically evaluating and suggesting strategies and guidelines for B3's risk management, and reassessing periodically the adequacy of B3's risk management strategy (Bylaws, article 52); and
8. Self-regulation Department: responsible for ensuring the integrity of the markets managed by B3, guiding participants, monitoring offers and trades, auditing participants and promoting the investigation and punishment, if applicable, of possible violations of the provisions of CVM rules, B3 regulations and the rules that complement them, in the form of its Procedural Rules.

Such structure is complemented by the external audit, responsible for providing an independent auditing of financial statements.

B3's Board of Directors and Executive Board keep constant contact with regulators and government officials to identify public-interest issues that may contribute to the stability and development of the

capital markets and educational activities. Also, for this reason, identifying and pursuing objectives that reflect public interests are part of B3's objectives and are contemplated in its Bylaws.

Key Consideration 2 - *An FMI should have documented governance arrangements that provide clear and direct lines of responsibility and accountability. These arrangements should be disclosed to owners, relevant authorities, participants, and, at a more general level, the public.*

B3 has documented its corporate governance in order to provide clear and direct lines of responsibility and accountability. The corporate governance model that was adopted is described below, as contemplated in B3's Bylaws and its committees internal regulation.

The corporate governance documents are disclosed to B3's shareholders, relevant authorities, participants, and the general public, and available for download from its investor relations portal (ri.b3.com.br/en).

B3 is a public company, and its stock is traded on the Novo Mercado premium listing segment for companies committed to the highest standards of corporate governance.

Shareholders participate directly in certain B3 decisions and in approving the financial statements. General shareholder meetings are held at least once a year.

B3 publishes its quarterly and annual results, and complies with all the norms and obligations of a legal and regulatory nature relating to accountability.

The documents Disclosure Policy, Policy on Related Party Transactions, and other Potential Conflict of Interest, and Policy for Trading Securities Issued by B3 govern the use and disclosure of information relating to B3, its affiliates and subsidiaries, the confidentiality of insider information, and the policy for trading in securities issued by B3.

All stock issued by B3 consists of common shares giving the holder the right to vote at general shareholder meetings. However, no single shareholder or organised shareholder group may exercise voting rights equivalent to more than 7% of the total number of shares outstanding. This voting limit is designed to preserve dispersed ownership. Moreover, in accordance with the rules and regulations issued by CVM and with B3's Bylaws, any investor who wishes to acquire equity corresponding to 15% or more of the total shares outstanding must first obtain permission from CVM. Pursuant to B3's Bylaws, any shareholder who becomes the holder of an amount of shares equal to or greater than, directly or indirectly, 30% of the total shares issued by B3, through prior authorization by CVM, the interested party must carry out a public tender offer in which the minimum price offered per B3 share must, at least, correspond to the highest price paid by the acquiring shareholder in the 6 months prior to reaching a percentage equal to or greater than 30%, adjusted by corporate events, such as the distribution of dividends or interest on equity, groupings, splits, bonuses, except those related to corporate reorganization operations. The offer must be addressed to all shareholders without distinction, in order to ensure equal treatment for all.

The Board of Directors is the principal collegiate decision-making body in B3's management structure. It establishes guidelines for B3's actions in pursuit of its strategic objectives, approves the

organisation's key plans and targets, establishes specific guidelines to be internally implemented, and oversees the business performance of the organisation and of its executives.

The Board of Directors has at least 7 (seven) and at most 11 (eleven) members who are highly experienced in their respective knowledge areas.

B3's Bylaws define as unbound independent board members those who (a) comply with both the independence criteria established by the Novo Mercado Listing Rules and those of CVM Resolution 135/22, and (b) neither directly nor indirectly hold voting rights equivalent to 7% or more of B3's total equity or total voting stock nor have links to shareholders with such voting rights.

The following supporting committees are subordinated to B3's Board of Directors: Audit Committee, Corporate Governance and Nomination Committee, Risk and Financial Committee, Personnel and Compensation Committee, and Product & Pricing Committee. The key function of such committees is to ensure that B3's business activities are conducted so as to protect and increase the value of its equity while preserving the security, efficiency, integrity, and stability of the financial system. Specifically, the committees examine and evaluate processes and policies in their respective spheres and knowledge areas, formulating recommendations that may or may not be taken up by the Board. Committee members serve a two-year term.

Supporting committees to B3's Board of Directors

- Audit Committee: must comprise up to 6 (six) members, all independent, of whom at least 1 (one) and at most 2 (two) must be independent members of the Board of Directors, and at least 3 (three) and at most 4 (four) must be external independent committee members. At least 1 (one) of the committee members must have a recognized experience in corporate accounting. Among other functions, this committee is responsible for assessing and approving the internal controls framework and B3's and its subsidiaries internal audit and independent audit processes, including nominating an independent audit firm and reviewing any proposals for extra audit services. This committee also analyses financial statements and quarterly financial information, supervising the area that prepares the financial statements;
- Corporate Governance and Nomination Committee: must comprise 5 (five) members, up to 4 members of the B3's Board of Directors, of which 2 (two) of whom must be independent members of B3's Board of Directors, and 1 (one) external member, whom must have recognized experience with the subjects pertaining the committee, in the terms of B3's Bylaws. This committee's remit includes responsibility for monitoring the adoption of practices of good corporate governance, supporting B3's Board of Directors in the process of selecting and nominating the CEO, and supporting B3's CEO in the process of selecting and nominating the Chief Officers and Managing Directors;
- Personnel and Compensation Committee: must comprise 5 (five) members, 4 (four) of them members of the B3's Board of Directors, at least 2 (two) of whom must be independent members of B3's Board of Directors, and 1 (one) external member, whom must have recognized experience with the subjects pertaining the committee, in the terms of B3's Bylaws. This committee is responsible for proposing and reviewing the human resources and compensation policy and the personnel management model;

- Risk and Financial Committee: must comprise at least 7 (seven), at least 4 (four) members of B3's Board of Directors, regardless of whether they are independent or not, and at least 3 (three) external members, whom must have recognized experience with the subjects pertaining the committee, in the terms of B3's Bylaws. This committee's purposes include monitoring and assessing market, liquidity, credit, and systemic risks in the markets managed by B3 from a strategic and structural standpoint, as well as reviewing B3's financial position and capital structure; and
- Product & Pricing Committee: must comprise at least 6 (six) and at most 9 (nine) members, at least 2 (two) of whom must be independent members of B3's Board of Directors, one of whom will act as committee coordinator, and at most 7 (seven) external members to be appointed from among people (a) with reputable knowledge of treasury products, credit operations, and asset management, and (b) who represent domestic and international financial institutions. This committee is responsible for monitoring the investment and products development plans for listed, OTC and credit operations support products, monitoring the implementation of commercial discount policies practiced by B3, evaluating B3's prices structure, comparing them to the prices practiced by the main international exchanges, and for proposing to the President of B3 to consider evaluating changes to the pricing and price structure of B3's products and services.

B3 is administered and managed by an Executive Board, which comprises at most 6 (six) and up to 20 (twenty) members, 1 (one) of whom must be the Chief Executive Officer (CEO), up to 10 (ten) C-level executives and up to 15 (fifteen) Managing Directors, all elected and dismissed by the B3's Board of Directors. Current members of B3's Joint Board of Officers are: the CEO, Financial, Administration and Investors Relations Executive Director, Chief Operating Officer - Electronic Trading and Central Counterparty, Chief Operating Officer - Issuers, Depository and OTC, Chief Technology Officer, Chief Product and Client Officer, Chief Financial Infrastructure Unit Officer, Chief Operating Officer - Human Resources, Brand, Communication, Sustainability and Social Investment, Chief Operating Officer - New Business, Governance, Integrated Management and Cyber Security Executive Officer and Legal Executive Officer.

The Executive Board is responsible for general and routine administration of B3's business activities so as to ensure B3's regular functioning, compliance with the Bylaws and the decisions of the Board of Directors and general meetings of shareholders. The Executive Board is responsible for deciding on the topics provided for in article 37 of B3's Bylaws and for submitting to the Board of Directors proposals on matters relevant to B3's business, as required by the Bylaws. The Executive Board meets, preferably, once a week and decides by a majority of those attending. The CEO has the casting vote. Consensus decisions are preferred. Thus, the Executive Board focuses on constructive discussion, team spirit, and collegiate decision making. In sum, based on the powers conferred by law and B3's Bylaws, the Executive Board performs the following duties:

- Proposing initiatives and policies to B3's Board of Directors;
- Implementing the strategy established by B3's Board of Directors;
- Directing B3's business activities and managing its routine operations; and

- Assuring compliance with legal and regulatory obligations and with the performance of the duties imposed on the Executive Board and B3 as an operator of exchanges and regulated capital markets.

Pursuant to the provisions of B3's Bylaws, the members of the Board of Directors are not eligible to be B3's managing directors or officers of B3's affiliates and subsidiaries.

B3's corporate governance model also includes BSM's Self-regulation Board whose remit is, among other activities, to supervise compliance with BSM's work plan, judge proceedings and their respective appeals, decide on terms of commitment submitted, apply penalties, consider appeals against decisions of the Chief Regulatory Officer or B3, and decide on claims on the MRP. The members of BSM's Self-regulation Board are appointed by approval of B3's Board of Directors.

B3's corporate governance model

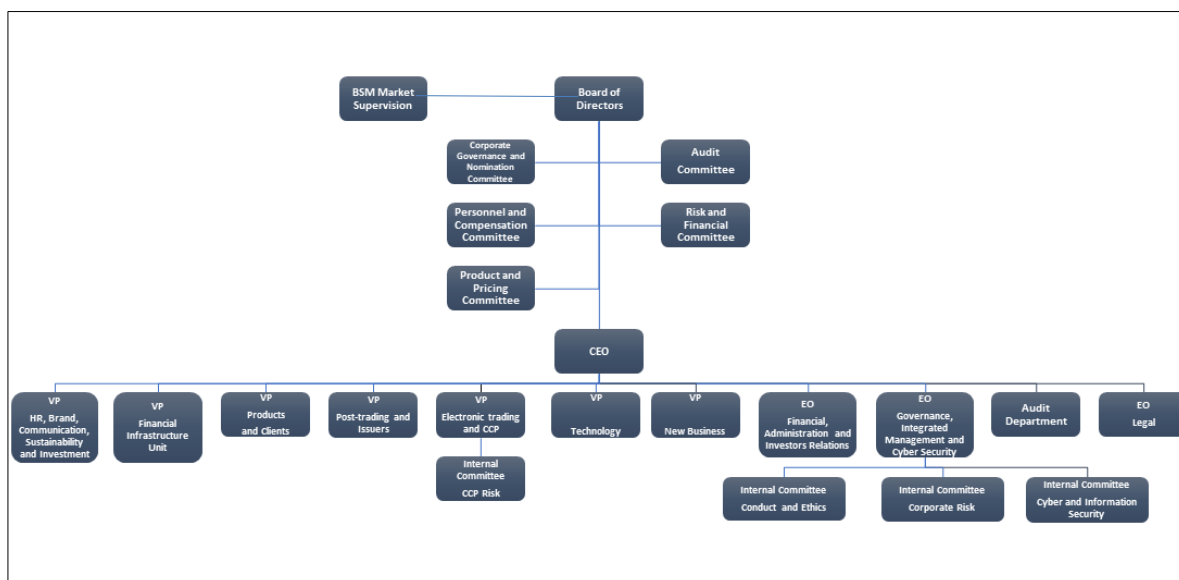


Figure 1. B3's corporate governance structure

In addition to the committees that support B3's Board of Directors, other committees have been set up to reinforce B3's corporate governance. The purpose of such committees, which comprise at least 3 (three) and at most 10 (ten) members, who serve an indefinite period from the date of its election, being automatically revoked in the event of loss of the member's relationship with B3.

- Corporate Risk Internal Committee: this committee's main functions consist of approving the governance (policies and methodologies) that rules corporate risk management, information security, and business continuity. Particularly in relation to the corporate risk methodology, the committee also evaluates and monitors risk appetite and tolerance on an ongoing basis, in addition to the operational, strategic, financial, and regulatory, image and socioenvironmental risks that make up B3's corporate risk profile. This committee also monitors recovery activities, tests and objectives proposed by the business continuity area;
- Central Counterparty (CCP) Risk Internal Committee: this committee is responsible for defining and periodically reviewing criteria, limits, margin parameters and other parameters used to

control market, credit and liquidity risk limits assigned to participants in B3's clearinghouses, monitoring and periodically evaluating counterparty risk represented by clearinghouse participants, custody agents and investors, establishing criteria and parameters for requiring additional collateral, defining the criteria and parameters to be used in calculating margin requirements and collateral valuation, proposing collateral management parameters, evaluating the macroeconomic outlook in terms of risks for the markets managed by B3, analysing the level of leverage in the system, analysing and proposing suggestions for the enhancement of the risk systems, and analysing any other matters and proposing any other measures it deems necessary in connection with the aforementioned issues;

- Sustainability Internal Committee: its main responsibilities include guiding, from a strategic perspective, B3's sustainability themes and approving planning and initiatives related to sustainability;
- Conduct and Ethics Internal Committee: this committee is responsible for developing, assessing, and deciding on the adoption of the practices defined in B3's Code of Conduct and Ethics;
- Operations Monitoring and Prevention of Money Laundering and Concealment of Assets, Rights and Values, Financing of Terrorism and Financing of the Proliferation of Weapons of Mass Destruction Internal Committee: among this committee's functions are approving norms, procedures and measures relating to the anti-money laundering program, evaluating the effectiveness of B3's AML processes and controls, approving the models, criteria and parameters used for monitoring and detecting operations considered suspicious and/or atypical, and evaluating suspicious and/or atypical transactions detected by surveillance processes, and deciding whether to notify the relevant authorities; and
- Information and Cyber Security Internal Committee: responsible for approving the Strategic Security Plan, recommending the strategic direction regarding information and cyber security management, guiding the adoption of risks mitigation measures in order to ensure compliance with policies and norms, monitoring critical incidents directing structural actions to improve the resilience of the environment, defining criteria, based on cyber incidents, to activate the crisis management plan, defining scenarios of the crisis management plan and monitoring risks cyber security of controlled companies.

In addition to the aforementioned supporting committees to B3's Board of Directors and to Executive Board, B3 has 9 (nine) 10 (ten) advisory committees, comprising representatives of intermediaries, investors, issuers, among others, designed to assure continuous interaction between B3 and market participants in specific areas of the capital markets (for a list of these advisory committees, see under Key Consideration 7 of this Principle).

Duties, powers, and responsibilities

B3's Board of Directors is the main collegiate decision-making body in B3's administrative structure and is responsible for establishing guidelines for B3's performance in pursuit of its strategic objectives. B3's Board of Directors also approves key organizational plans and goals, establishes specific guidelines to be implemented internally, and oversees the business performance of B3 and its executives. Articles 29 and 30 of B3's Bylaws set forth, respectively, the matters of competence

and the powers of the Board of Directors. The powers of the B3's Executive Board are defined in article 37 thereof.

Self-regulation

As required by Law 6385/76 and CVM Resolution 135/22, B3 is a self-regulatory entity and, as such, is responsible for establishing norms and standards for market participants and for securities registration and trading in the markets it operates. B3 chose to constitute a non-profit civil association, under its control, BSM, which is in charge of self-regulatory activities. B3's operational departments provide information to BSM on a regular basis and whenever deemed necessary, under specific circumstances.

Accountability to market participants

Formally speaking, B3 discloses decisions and material information regarding its trade and post-trade activities in notices called circular letters and external communications. B3 has departments responsible for relations with market participants (Customer Relations - Brazil, Customer Relations - International Business Development, Customer Relations - Multiple Banks and Buy Side, and Customer Relations - Companies and Assets, all reporting to the Chief Product and Client Officer) and for ensuring that they receive required or requested information.

Accountability to regulators

B3 is legally obligated to provide the regulators with certain information associated specifically with trade and post-trade, at regular intervals. B3's Management Board responds promptly to requests for information and questions formally received from regulators.

Key Consideration 3 - *The roles and responsibilities of an FMI's board of directors (or equivalent) should be clearly specified, and there should be documented procedures for its functioning, including procedures to identify, address, and manage member conflicts of interest. The board should review both its overall performance and the performance of its individual board members regularly.*

Roles and responsibilities of B3's Board of Directors

The roles and responsibilities of B3's Board of Directors are clearly identified and listed in articles 29 and 30 of the Bylaws, including the guidelines to be followed by B3 in conducting its business and pursuing its strategic objectives.

The procedures, roles, responsibilities, and composition of B3's Board of Directors are comprehensively described in the Internal Regulation of the Board of Directors and in the regulations of each of its supporting committees. All these documents are available from B3's investor relations portal (ri.b3.com.br/en).

The B3's Board of Directors may delegate to B3's Executive Board powers to define technical, financial, and operational criteria as supplementary requirements to the norms and regulations addressed by some of the above items.

The B3's Board of Directors also approves the annual budget of B3 and its affiliates and subsidiaries, setting their key organizational plans and goals, establishing specific guidelines to be internally implemented, and overseeing the business performance of B3 and its executives.

With regard to conflicts of interest, the Policy on Related Party Transactions and other Potential Conflict of Interest establishes rules to ensure that all decisions, especially those involving related parties and other potential conflicts of interest, are aligned with the interests of B3 and its shareholders. This policy applies to all members of the Board of Directors, executives, and other staff of B3 and its affiliates and subsidiaries, and is available from B3's investor relations portal (ri.b3.com.br/en).

If they suspect a potential conflict of interest, B3's administrators must promptly disclose it. They are also required to abstain from taking part in discussions or voting on such matters. They may contribute partially to discussions if asked to do so by the chair of B3's Board of Directors or the CEO, with the aim of providing further information on the transaction concerned and the parties involved. In this case they must recuse themselves from the concluding part of the discussion and from voting on the issue that has given rise to a conflict of interest.

If any member of B3's Board of Directors or Executive Board remains silent about a potential conflict of interest, any other member of the same governance body who is aware of the situation may disclose on such conflict. Such silence is considered an infringement of B3's Policy on Related Party Transactions and other Potential Conflict of Interest and is brought to the notice of the B3's Board of Directors or the B3's Executive Board, as the case may be, when identified or pointed out by a third party, and sanctions may be applied.

All notices of potential conflicts of interest and abstentions from voting must be recorded in the minutes from the corresponding meeting of the B3's Board of Directors or of the B3's Management Board, as appropriate.

On taking office, the members of the Board of Directors, chief officers, and other executives of B3 are required to sign a document attesting to their awareness of the Policy on Related Party Transactions and other Potential Conflict of Interest, and undertake to comply with it.

B3 maintains the supporting committees to its Board of Directors referred to in Key Consideration 2 of this Principle.

Each year the chair of B3's Board of Directors, with the support of the Corporate Governance and Nomination Committee, conducts a structured formal assessment of the Board of Directors as a whole, and of its individual members, with the aim of enhancing efficiency and corporate governance. This process entails a self-assessment by board members in response to specific questions covering the main dimensions of effective corporate governance:

- Strategic focus;
- Knowledge and information about B3's business activities;
- The board's independence and decision-making process;
- Efficiency and effectiveness of board meetings and supporting committees;

- Impartiality;
- Effective contribution to the decision-making process; and
- Assertiveness.

The results of these assessments are compiled and discussed at a board meeting, which then evaluates proposals and plans for improvement.

Key Consideration 4 - *The board should contain suitable members with the appropriate skills and incentives to fulfil its multiple roles. This typically requires the inclusion of non-executive board member(s).*

B3's Bylaws state that all members of the Board of Directors must be at least 25 (twenty-five) years old, have an unblemished reputation, and be familiar with B3's internal policies and norms. B3's Bylaws and the Internal Regulation of the Board of Directors contain a detailed description of the eligibility requirements applicable to independent board members. They also require board members to be elected by slate, and only slates that nominate candidates may run. These must include the slate presented by the board itself. In preparing its slate, the Board of Directors is assisted by the Corporate Governance and Nomination Committee. Any shareholder or shareholder group (as defined in the B3's Bylaws) may also present a slate.

Suitable compensation incentivises board members to demonstrate a high degree of commitment and contribute effectively to achievement of B3's long-term objectives.

Board members receive a fixed monthly remuneration to compensate them for attending meetings and participating in B3's business activities.

Members of the supporting committees to B3's Board of Directors receive fixed monthly remuneration. Board members who also sit on committees receive additional fixed monthly remuneration.

B3 has a stock grant plan whereby all board members are eligible for grants of shares in B3's common (voting) stock.

As mentioned in Key Consideration 2, B3's Board of Directors must comprise at least 7 (seven) and at most 11 (eleven) 14 (fourteen) members, all of them must be unbound independent, as defined in its Bylaws and in accordance with the CVM Resolution 135/22 (in which they are called unbound independent).

The definition of an unbound independent director is given, in a cumulative manner, by the Novo Mercado Listing Rules and CVM Resolution 135/22.

B3 publishes the names of all board members, clarifying which ones qualify as unbound independent. The board currently has 11 (eleven) members, all independents, of which 9 (nine) are unbound independent. No director has any relationship with B3's management.

Key Consideration 5 - *The roles and responsibilities of management should be clearly specified. An FMI's management should have the appropriate experience, a mix of skills, and the integrity necessary to discharge their responsibilities for the operation and risk management of the FMI.*

The B3's Executive Board is B3's representative body and empowered to perform all acts required for management of the business. At this time the B3's Executive Board comprises 11 (eleven) members including the B3's CEO. Its roles, responsibilities and objectives are specified in articles 36 to 39 of B3's Bylaws. Any changes must be approved by the Board of Directors.

The members of the Executive Board are responsible for complying with and enforcing compliance with B3's Bylaws and the decisions of the Board of Directors and general shareholder meetings, performing within their powers all acts necessary to the regular functioning of B3 and achievement of its corporate purposes, and coordinating the activities of B3's affiliates and subsidiaries.

The members of the B3's Executive Board are subject to specific internal rules contained in the Disclosure Policy, the Policy for Trading Securities Issued by B3, the Code of Conduct and Ethics, the Information Security Policy and the Policy on Related Party Transactions and other Potential Conflict of Interest.

The B3's Executive Board's performance is evaluated by means of an assessment of B3's CEO, Chief Officers, and Executive Directors. All such assessments are carried out at the start of each year when targets are also set for the following year on the basis of B3's strategic plans. The composition and powers of the B3's Executive Board are defined in B3's Bylaws (Chapter IV, Section III, Subsection I).

Responsibilities of B3's CEO, Chief Officers, and Executive Directors

B3's CEO is responsible for the day-to-day management of B3, coordinating the other chief officers and acting as the link between them and the Board of Directors. The CEO reports to the Board of Directors and must execute the guidelines set by it. The CEO has a duty of loyalty to B3.

Each chief officer and the executive officer are personally liable for their duties to B3's management and accountable for this to the CEO, as well as the Board of Directors, shareholders and other parties involved, whenever so required and with the consent of the CEO.

As the leader of B3's chief officers, executive officers and managing and associate directors, the CEO is responsible for approval and implementation of all operational and financial processes. The CEO must also implement and control all legal and regulatory obligations applicable to B3 as an operator of regulated securities and financial assets markets.

The B3's CEO roles and powers are listed in article 35 of B3's Bylaws. The roles and powers of the other chief officers are described in article 32 of B3's Bylaws.

The roles and objectives of the B3's Executive Board are contemplated in article 37 of B3's Bylaws. The assessment process of the members of the B3's Executive Board provides that goals be established at the start of each year, in line with B3's strategic planning, in two dimensions of analysis: "what" (projects, budget and operational indicators) and "how" (skills). The appraisal and

final assessment of all Executive Board members are submitted to the Personnel and Compensation Committee, which should ratify the final assessment proposal.

Candidates for membership of the B3's Executive Board must comply with the following requirements in addition to those established in the applicable legislation and regulation:

- They must be more than 25 (twenty-five) years old;
- They must have an unblemished reputation, and knowledge as provided for in B3's internal rules and policies;
- They must not have spouses, life partners or first- or second-degree relatives in management positions at B3 or its affiliates or subsidiaries, or otherwise be employed by them;
- They must not hold a position in a company that can be considered a competitor of B3, its affiliates or subsidiaries;
- They must not have interests or represent anyone who has interests that conflict with those of B3 and its affiliates and subsidiaries, as required by B3's Policy on Related Party Transactions and other Potential Conflict of Interest;
- Have exclusive professional dedication to B3; and
- While holding their positions, they do not maintain ties with: (i) access authorizations holders, (ii) shareholders or groups of shareholders which holds 5% or more of B3's voting capital, (iii) institution that is part of a securities distribution system in Brazil or abroad, (iv) publicly-held companies, (v) institution that manages a securities portfolio, and (vi) institutional investors.

To ensure that candidates have the necessary skills to manage operations and risks in the context of B3's clearinghouses, CSD and TR activities, they are interviewed by the Board of Directors, and by B3's CEO and other chief officers. They must also present documents evidencing their qualifications for the position.

B3's Board of Directors is also responsible for the election and substitution of chief officers and other executives, establishing their duties, subject to the provisions of B3's Bylaws.

Key Consideration 6 - *The board should establish a clear, documented risk-management framework that includes the FMI's risk-tolerance policy, assigns responsibilities and accountability for risk decisions, and addresses decision making in crises and emergencies. Governance arrangements should ensure that the risk-management and internal control functions have sufficient authority, independence, resources, and access to the board.*

Concerning B3's activities as a clearinghouse, CDS and financial assets and OTC derivatives TR, the Board of Directors discusses the risk management framework, including in relation to the risk tolerance policy, accountability for decisions regarding assumed risks, and decisions to be enforced in crisis and emergency situations.

B3's Board of Directors has established two risk management frameworks: a framework for managing central counterparty risk, and a framework for managing corporate risk.

Central counterparty risk management framework

The central counterparty risk management framework covers risk tolerance policy and establishes responsibilities and reporting lines for decisions on risk through the following bodies, and according to the Central Counterparty Risk Management Policy, available at B3's Investor Relations website (ri.b3.com.br/en):

- (i) B3's Board of Directors: oversees enforcement of the risk management policies and assessment of their results;
- (ii) Risk and Financial Committee (advises the Board of Directors): establishes high-level risk management guidelines for the entire company and for the central counterparty function;
- (iii) B3's Executive Board: defines high-level risk management policies and takes decisions in crisis and emergencies, with the support of the Central Counterparty (CCP) Risk Internal Committee;
- (iv) Central Counterparty (CCP) Risk Internal Committee (advisory to B3's Executive Board): the responsibilities of this committee are defined in Key Consideration 2 of this Principle;
- (v) Risk Analysis Advisory Committee: analysis of B3's risk methodologies, discussion of best practices in risk management, and monthly review of stress scenarios;
- (vi) Risk Management Department (reporting to the Chief Operating Officer – Electronic Trading and Central Counterparty, with 5 (five) Associate Directors – Central Counterparty Risk Management, Systemic Risk Management, Risk Modelling, Risk Operations and Risk Projects): implementation and control of guidelines and policies in accordance with the strategy defined, development of risk management models based on stress testing, intraday monitoring of market, liquidity and credit risks based on the aforementioned models, control of risk exposure limits at the level of the individual customer.

The B3 Clearinghouse and the B3 Foreign Exchange Clearinghouse are subject to supervision by BCB and CVM in relation to:

- authorisation for risk methodologies and risk management parameters and procedures, including norms and procedures for use in the event of participant default, as published and posted on B3's website;
- analysis of margin methodology backtesting, position limit and liquidity testing reports; and
- annual audits and inspection.

With regard to the risk management models and methodologies used, the Risk and Financial Committee analyses proposed risk management models approved by the Central Counterparty (CCP) Risk Internal Committee.

The Governance, Integrated Management and Cyber Security Executive Department also validates the methodologies used to manage central counterparty risk and reports on the results of such

validations to the Central Counterparty Internal Risk Committee, Risks and Finance Committee and to BCB.

The process for determining, endorsing, and reviewing the risk management framework also applies when new products to be cleared and settled by B3's clearinghouses are introduced, and when risk management methods are modified or improved:

- New products: Product Development submits new products to the Risk Management Department, which specifies the risk model to be submitted to review by the Central Counterparty (CCP) Risk Internal Committee. Once approved, the new specification is implemented; and
- Risk management methodology modifications and enhancements: proposed modifications/enhancements are submitted to the Central Counterparty (CCP) Risk Internal Committee and to the Risk Analysis Advisory Committee. If approved, they are then presented to the B3's Executive Board and submitted to BCB for approval.

See under Principles 3-7 for more information on the central counterparty risk management framework.

Corporate risk management framework

B3's corporate risk management framework is designed to assure the identification, measurement, control, and mitigation of material risks inherent in B3's activities. It is based on the Corporate Risk Policy, Compliance, and Internal Controls Policy, available at B3's Investor Relations website (ri.b3.com.br/en), and on risk management processes such as the recording of risks identified, controls, and risk assessment and treatment.

Corporate risk management is the responsibility of the Governance, Integrated Management and Cyber Security Executive Department, which reports to the B3's CEO and has 3 (three) Associate Directors (Governance Office, Cyber Security Office, Integrated Management and Client Centricity Office, Agile PMO, Lean Agile, and New Business).

The corporate risk management framework is reinforced by the performance of the Audit Committee, Risk and Financial Committee and Corporate Risk Internal Committee, according to the Key Consideration 2 of this Principle.

B3's Corporate Risk Policy and Compliance and Internal Controls Policy are reviewed every year for approval by the Corporate Risk Internal Committee, B3's Executive Board, Risks and Finance Committee, Corporate Governance and Nomination Committee and B3's Board of Directors. Every two years, Compliance and Internal Controls Policy is reviewed and approved, as appropriate, by the B3's Executive Board of Directors, the Corporate Governance and Nomination Committee and the B3's Board of Directors.

The methodology for the corporate risk management framework is based on ISO 31000:2009, in CVM Resolution 135/22 and in BCB Normative Instruction 374/23. In relation to corporate risk assessment and to evaluate internal controls, B3's Governance, Integrated Management and Cyber Security Executive Department uses the COSO-ERM Framework, defined by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

The corporate risk management framework establishes the principles, guidelines – including the appetite and tolerance of the various risks faced by B3 – and responsibilities to be observed in the risk management process so as to enable the identification, assessment, treatment, monitoring, and communication of risks. To treat risks identified within the sphere of a given department’s activities, the officer responsible must decide how to respond. The options available are acceptance, elimination, reduction, or transfer.

Acceptance of residual risks is assessed by different levels of signoff authority depending on their gravity. For example, risks classified as high must be approved by the B3’s Executive Board and risks classified as extreme must be approved by the Board of Directors, in line with the level of risk appetite established by B3.

If the decision is to eliminate, reduce or transfer risk, the officer responsible for the department concerned must develop the relevant action plans, working with the Governance, Integrated Management and Cyber Security Executive Department, and these plans must be approved by the B3’s Executive Board.

The Audit Department is responsible for conducting internal audit activities at B3. It has its own rules – Internal Audit Regiment – which are approved by the Board of Directors and periodically reviewed by the Audit Committee. The regiment specifies the appropriate levels of access and authority for the performance of its activities.

The Audit Department has two divisions (Process Auditing and Technology Auditing), each headed by an Associate Director who reports directly to the Audit Managing Director.

In order to ensure the independence of internal auditing, the Managing Director who heads the department reports to B3’s Board of Directors and to the Audit Committee, which is responsible for evaluating and supervising the independent auditing, internal auditing, internal controls, and corporate risk management systems activities.

Key Consideration 7 - *The board should ensure that the FMI’s design, rules, overall strategy, and major decisions reflect appropriately the legitimate interests of its direct and indirect participants and other relevant stakeholders. Major decisions should be clearly disclosed to relevant stakeholders and, where there is a broad market impact, the public.*

B3’s decision-making process takes the interests of stakeholders into account through the advisory committees, specific meetings for all participants, and public consultations. These mechanisms ensure that B3 is capable of receiving the views of participants about proposed new policies or amendments to existing policies, and can examine these views to decide whether any not already covered should be included in the new policies or amendments. In the case of existing policies, participants may ask for or propose a justified change at any time via the advisory committees or channels of communication with members of B3’s Board of Directors.

B3’s advisory committees comprising representatives of intermediaries, investors, and issuers, among others, are as follows:

1. Commodities Advisory Committee;
2. Equities Advisory Committee;
3. Risk Analysis Advisory Committee;
4. Trading Advisory Committee;
5. Post-Trade OTC Advisory Committee;
6. Companies and Underwriting Advisory Committee;
7. Interest Rates and Currencies Advisory Committee;
8. Norms Advisory Committee;
9. Infrastructure for Financing Advisory Committee; and
10. Post-trade Listed Advisory Committee.

New risk management policies and amendments to existing risk management policies must be approved by BCB and CVM, so that their interests as stakeholders are also taken into consideration.

Market participants (clearing members, brokerage houses, custody agents, investors etc.) can contact B3's management at any time. Their requirements are evaluated by B3's appropriate governance bodies.

With regard to conflicts of interest, the Policy on Related Party Transactions and other Potential Conflict of Interest establishes rules to ensure that all decisions are aligned with the interests of B3 and its shareholders.

B3 discloses the main decisions that have effects on third parties taken by the Board of Directors by publishing the minutes from board meetings on its investor relations website (ri.b3.com.br/en).

PRINCIPLE 3 – FRAMEWORK FOR THE COMPREHENSIVE MANAGEMENT OF RISKS

PRINCIPLE 3 – FRAMEWORK FOR THE COMPREHENSIVE MANAGEMENT OF RISKS: An FMI should have a sound risk-management framework for comprehensively managing legal, credit, liquidity, operational, and other risks.

Key Consideration 1 - An FMI should have risk management policies, procedures, and systems that enable it to identify, measure, monitor, and manage the range of risks that arise in or are borne by the FMI. Risk-management frameworks should be subject to periodic review.

B3 is exposed to strategic risks (such as the possibility of implementing a strategy that fails to achieve the expected goals), financial risks (including credit, market, and liquidity risks), operational risks, and regulatory risks.

As noted under Principle 2, Key Consideration 6, B3 has a framework for the management of central counterparty risk and a framework for the management of corporate risks.

B3's Board of Directors is responsible for defining risk appetite and establishing high-level guidelines for risk management activities. In this respect the board is supported by the assessments and recommendations of the Risk and Financial Committee, Audit Committee and B3's Executive Board.

Corporate risks

B3's framework for the management of corporate risks is designed to assure the identification, measurement, control, and mitigation of material risks inherent in B3's activities. It is based on B3's Corporate Risk Policy and Compliance and Internal Controls Policy, and on risk management processes such as the recording of risks identified, controls, and risk assessment and treatment (supported by the B WiseGRC system). Policies are reviewed and approved as provided within Key-Consideration 6 of Principle 2.

The governance of B3's risk management and internal controls is structured in terms of lines, as described below:

1st line - The business areas responsible for sponsoring the implementation of efficient business practices and adequate and effective internal controls, to this end it must allocate the resources required by the process and define the appropriate infrastructure for management of business risks and the internal control system. Management is responsible for establishing, maintaining, promoting, and evaluating efficient business practices and adequate and effective internal controls.

2nd line– The Governance, Integrated Management and Cyber Security Executive Department is responsible for defining the methods to be used to evaluate and monitor business risks, the internal control system and adherence to the processes adopted by Internal Controls and Compliance, as well as for verifying compliance with the norms issued by the regulators, especially CVM and BCB.

3rd line– The Audit Department is responsible for independent evaluation of the activities of B3's departments, enabling management to verify the adequacy of controls, the effectiveness of risk

management and governance processes, the adequacy of the controls that support the issuance of financial statements, and compliance with norms and regulations.

4th line – The independent external audit is responsible for evaluating and issuing an independent opinion on B3's financial statements and internal controls.

The regulators, especially BCB and CVM, independently regulate and monitor B3's internal controls and apply sanctions, when and if necessary.

The governance framework is reinforced by the actions of the structures mentioned in Principle 2, Key Consideration 2.

Central counterparty risk

The main risks associated with B3's clearinghouse and CCP activities are credit, market, and liquidity risks.

B3's Board of Directors has defined a risk-averse appetite for CCP risks, establishing that the safeguard structure must be capable of protecting B3 against events whose severity is defined by a high confidence level (e.g., against a scenario in which two participants default simultaneously with a 99.984% market risk confidence level).

The CCP risk management policies and procedures are described in the rulebooks, operating procedures manuals and risk management manuals of B3's clearinghouses. Any changes in risk management that require amendments to the clearinghouse rules must be submitted to the B3's Board of Directors for approval. Changes to risk management procedures, criteria and systems must be approved by the Central Counterparty (CCP) Risk Internal Committee and the B3's Executive Board and, in the case of changes considered relevant, the approval of the B3's Board of Directors is also required. Changes to clearinghouse rules and manuals also require prior approval by BCB and CVM.

B3's clearinghouses have safeguard structures to cover credit and liquidity risks, as well as their own risk management systems.

Each clearinghouse's safeguard structure consists of collateral posted by participants and B3's own resources, which are B3's contribution to their respective settlement funds and additional resources exclusively earmarked for each clearinghouse. The amount of collateral required from participants is calculated on the basis of the risk associated with transactions: for both end-of-day margin requirements and intraday monitoring, risk is calculated according to the stress test methodology with a risk horizon of up to ten days, full valuation, and heavy-tailed distribution.

The risk management systems used by the clearinghouses are described below.

B3 Clearinghouse

- *CORE – CloseOut Risk Evaluation*: the risk calculation or margining system used both to calculate margin requirement for each customer at the end of the day (T+0) and the corresponding margin calls for T+1, and to monitor intraday risk. CORE is a stress test methodology to estimate the worst cash flow accumulated during the process of closing out a defaulter's portfolio, considering a closeout horizon of up to ten days, full valuation, and a confidence level of at least

99.5% for commodities and 99.96% for other risk factors (heavy-tailed distributions) for all contracts considered systemically relevant. The risk calculated by CORE captures market, liquidity, and cash flow risks (for more information, see under Principle 6, Key Consideration 3);

- *Intraday risk system*: intraday risk monitoring system for each intermediary (full trading participants and settlement participants), using the CORE methodology to update approximately every 20 (twenty) minutes throughout the day both risk for all portfolios at the customer level and risk for unallocated trades, aggregating trades and the movement of collateral performed up to the moment of calculation (for more information, see under Principle 4, Key Consideration 4);
- *Risk simulator*: margining for hypothetical portfolios based on the CORE methodology, offered to intermediaries, and clearing members to assist them in their risk management activities, especially intraday risk monitoring;
- *Open interest concentration limits*: a system that controls and monitors compliance by each customer's positions with the concentration limits set by the clearinghouse. Positions are consolidated taking into consideration the customer's activities with all intermediaries and clearing members. Violations of position limits result in an additional margin call (concentration add-on), and/or compulsory position closeout. Concentration add-ons cover potential losses during the additional period (over and above the period considered for margining) potentially required to close out the position that exceeds the limit;
- *Collateral management*: a system that controls and processes all movements of collateral, segregating them at the customer level (in the case of collateral posted by investors for margin coverage), or at the level of the intermediary or clearing member (in the case of the collateral posted to cover intraday risk or to contribute to the settlement fund). The functioning of the system follows the rules, limit criteria and procedures for transfers and custody of the assets deposited;
- *Collateral issuance limits*: a system to control the issuer credit risk inherent in collateral consisting of CDs, letters of credit issued by banks, real estate letters of credit (LCIs) and agribusiness letters of credit (LCAs). The system manages the rules for issuer concentration at the level of the customer, intermediary and clearing member;
- *Backtesting*: a system for backtesting the margin model (CORE), run every day to evaluate margin requirement for each customer's portfolio;
- *Liquidity stress testing*: a system that analyses the sufficiency of liquid resources available to the clearinghouse;
- *Credit stress testing*: a system that analyses the sufficiency of the clearinghouse's safeguard structure for credit risk; and
- *Pre-trade risk (LiNe)*: a system that verifies the compliance of the orders received by the trading system with the limits set for the customer by the respective intermediary. In the case of a new order or change of an order, such verification is carried out before or immediately after its insertion into the order book and, in the case of an executed trade, immediately after its

execution. In the case of orders that infringe any limit, such orders may be rejected or cancelled. Use of the system is mandatory for all customers.

B3 Foreign Exchange Clearinghouse

- *Risk analysis*: a system that evaluates acceptance of new transactions based on the sufficiency of collateral posted and the trading limits set by the clearinghouse for participants. (The clearinghouse uses a pre-margin model. For more information, see under Principle 6, Key Consideration 3);
- *Collateral management*: see the description of the system used by B3 Clearinghouse;
- *Pre-trade risk*: a system that verifies the compliance of every order received by the trading system with the trading limit set for the participant and the amount of collateral posted before its insertion into the trading system;
- *Backtesting*: a system for backtesting the margin model;
- *Liquidity stress testing*: a system that analyses the sufficiency of liquid resources available to the clearinghouse; and
- *Credit stress testing system*: a system that analyses the sufficiency of the clearinghouse's safeguard structure for credit risk.

B3 Clearinghouse's risk management systems replicate in their structure the individual customer segregation model adopted by B3 for identifying and segregating positions and collateral. Risk calculation and margin requirement are defined at the level of the individual customer, while open position concentration limits and limits for collateral composition also apply to economic groups or groups of investors acting jointly. Risk management reports present exposures at all possible levels, i.e., by customer (and groups of customers), aggregated by intermediary, and aggregated by clearing member. In the case of the B3 Foreign Exchange Clearinghouse, the "customer" is the clearinghouse participant.

The effectiveness of the risk management policies, procedures and management systems is reviewed periodically in accordance with the following governance structure:

- B3's Board of Directors periodically receives recommendations from the Risk and Financial Committee, B3's Executive Board and Audit Committee for the purposes of analysing and reviewing the clearinghouse risk profile and any changes to risk policies considered necessary;
- The Central Counterparty (CCP) Risk Internal Committee continuously reviews the key aspects and risk factors that affect the clearinghouses, suggesting any changes it deems necessary;
- The Governance, Integrated Management and Cyber Security Executive Department periodically reviews the model, while Audit Department conducts assessments of key processes;
- Risk Management Department executes risk management procedures and monitors the performance of models, criteria, and systems on a daily basis, proposing improvements when necessary;
- Outside auditors review the key components of the model annually; and

- The Risk Analysis Advisory Committee, which consists of representatives of participants in B3's clearinghouses, including investors, meets periodically and may present suggestions for improvements to the risk management model.

Furthermore, the model's operation is subject to authorisation by BCB. Besides prior approval of the clearinghouses' rulebooks and manuals, BCB conducts annual on-site inspections and continuously reviews the effectiveness of the risk management policies, procedures and systems using the reports and other information supplied to it every day (such as backtesting results, data on positions, exposures, collateral posted etc). In accordance with the policy established by B3's Central Counterparty (CCP) Risk Internal Committee, the risk management methodologies are reviewed internally at least once a year, and the committee may require interim reviews whenever deemed necessary.

Key Consideration 2 - *An FMI should provide incentives to participants and, where relevant, their customers to manage and contain the risks they pose to the FMI.*

B3 provides incentives and the necessary means for participants to manage and mitigate the risks associated with transactions under their responsibility.

Besides offering ample access to all information of material relevance to risk management (individual limits and exposures, for example), B3 disseminates the methodologies and parameters used to calculate margin requirement, value collateral, and set trading limits, among others. Participants have direct electronic access to clearinghouse systems to perform their functions in post-trading processes (allocation, settlement, collateral management, risk monitoring, margin requirement lookup etc). Thus, the clearinghouses offer access to the full array of tools needed by participants to manage risk as rigorously as B3, including access to the risk simulation tool.

Finally, participants are audited periodically by BSM, which reviews their processes for customer registration, suitability, order execution, trade settlement, asset and position custody management, and risk management, as well as their governance of investment agents, internal controls, supervision of transactions, money laundering prevention, certification of professionals, information security, business continuity, IT infrastructure monitoring and operation, change management, and infrastructure support.

A degree of shared responsibility and the safeguard structure of B3's clearinghouses promote an adequate alignment of interests between participants and clearinghouses, incentivising active engagement in risk management practices. The co-responsibility structure formalises obligations between participants with regard to settlement obligations (i.e., between customers and their intermediaries, between intermediaries and their clearing members, and between clearing members and clearinghouse), while the safeguard structure delineates the elements "defaulters pay", "survivors pay", and B3's own capital (in the shape of its contribution to the settlement fund and additional resources earmarked for each clearinghouse). See under Principle 4, Key Consideration 1 for more details.

Key Consideration 3 - *An FMI should regularly review the material risks it bears from and poses to other entities (such as other FMIs, settlement banks, liquidity providers, and service providers) as a result of interdependencies and develop appropriate risk-management tools to address these risks.*

Regular reviews of material risks arising from other entities are part of B3's overall risk management framework. These risks are reviewed by means of updates to the relationship matrix under the responsibility of the Central Counterparty (CCP) Risk Internal Committee. The reviews form the basis for the development of business continuity plans (BCPs) to reduce the impacts arising from the materialization of relevant risks. Furthermore, the map of clearinghouse processes is updated by the Governance, Integrated Management and Cyber Security Executive Department from time to time or when requested, and the risks associated with each process are reviewed as part of such updates.

B3's clearinghouses are not linked to other exchanges and have no interdependencies with other settlement service providers or central counterparties, settling only transactions performed in the markets managed by B3.

For cash settlement in local currency, the clearinghouses use BCB's reserves transfer system directly (central bank money). For settlement in USD, they use top-tier correspondent banks in New York (Citibank, in the case of the B3 Clearinghouse. Bank of America, Merrill Lynch, Citibank, JP Morgan Chase and Standard Chartered, in the case of B3 Foreign Exchange Clearinghouse). With regard to the collateral posted by participants, the clearinghouses have links to CSDs, registration systems and banks depending on the type of asset (SELIC, B3 Central Depository, OTC B3, B3 Bank and top-tier banks in Brazil and New York).

Thus B3's clearinghouses are exposed to the following risks due to interdependencies with other entities:

- Failures of IT systems in the entities holding collateral posted by participants;
- Failures of banks that provide liquidity and correspondent banks (New York), especially where such banks are clearing members; and
- Failures by suppliers of IT systems.

In the first two cases, the critical scenario would materialise only in the hypothetical case of application of the procedures used to deal with default by clearing members. To address this risk, B3's clearinghouses have safeguards that include settlement funds, liquidity assistance mechanisms, and indirect access to BCB's discount window via B3 Bank, as well as B3's resources dedicated to the clearinghouses. The banks that provide liquidity are among the largest in Brazil. B3's resources dedicated to the clearinghouses and those that constitute B3's contribution to the settlement funds must be invested in accordance with the restrictions imposed by B3's Financial Investment Policy to assure the immediate availability of funds.

In the third case, the risk of IT system supplier failures is not very significant because most clearinghouses' systems were developed in house. The main exception is B3 Clearinghouse's clearing platform, which has an external supplier involved in the update process, but its contract provides for

B3's participation in the development process and construction of the knowledge base, given that B3 has an access license to the source code.

Regarding the risk related to dependence on critical service providers directly related to the operations of the FMIs managed by B3, these are assessed using a methodology recommended by CPMI-IOSCO and the results of the assessment are considered within the B3's risk indicators.

Key Consideration 4 - *An FMI should identify scenarios that may potentially prevent it from being able to provide its critical operations and services as a going concern and assess the effectiveness of a full range of options for recovery or orderly wind-down. An FMI should prepare appropriate plans for its recovery or orderly wind-down based on the results of that assessment. Where applicable, an FMI should also provide relevant authorities with the information needed for purposes of resolution planning.*

B3's recovery plan, which results from the consolidation and updating of BM&FBOVESPA's and CETIP's recovery plans prepared by each company in 2016, was approved by B3's Board of Directors in February 2019 and must be reviewed at least once a year. The plan contemplates 10 (ten) stress scenarios capable of constituting a threat to its business continuity and viability, as shown below, and a specific recovery plan for each one.

Scenarios associated with credit and/or liquidity risk and default of CCP participants

1. Temporary insufficiency of funds in local currency in the B3 Clearinghouse;
2. Temporary insufficiency of funds in local or foreign currency in the B3 Foreign Exchange Clearinghouse;
3. Definitive insufficiency of funds in local currency in the B3 Clearinghouse;
4. Definitive insufficiency of funds in local or foreign currency in the B3 Foreign Exchange Clearinghouse;
5. Impossibility of B3 Clearinghouse returning to neutral position, given an event of default;

Other scenarios associated with credit and/or liquidity risk

6. Failure of one or more B3 Foreign Exchange Clearinghouse's correspondent banks in the New York, causing the unavailability of the clearinghouse's resources already received in its account at the mentioned bank;
7. Unexpected outflow of financial resources;

Scenarios associated with technological infrastructure failures

8. Unavailability or failure of the integrity of B3's systems that support critical services;
9. STR out of operation; and
10. Cyberattacks on B3's systems.

The recovery strategies applicable to scenarios associated with credit and/or liquidity risk and default of clearinghouses participants consist of a set of recovery tools, including:

- Using B3's free resources;
- Raising funds via debt issuance;
- Selling B3SA3 shares held in treasury;
- Raising funds via issuance of new B3 shares;
- Using FMI's segregated assets to which the scenario refers, upon the regulator's approval;
- Using resources available from FMIs other than the one to which the scenario refers, upon the regulator's approval;
- Making a cash call from non-defaulting participants;
- Postponing settlement window hours until a later time, on the same day regular processing was due;
- Reducing dividend payouts to shareholders;
- Reducing the variable compensation paid to B3's administrators;
- Selling B3's assets;
- Restructuring liabilities;
- Final auction; and
- Mandatory partial early settlement.

The order in which such tools will be executed is based on guidelines such as (i) use of unrestricted B3's own resources, before using tools having an impact on participants, (ii) use of restricted B3's and the relevant FMI's resources, before using tools having an impact on participants, (iii) use of tools having an impact on participants, before using resources linked to other FMIs managed by B3, and (iv) among the other FMIs managed by B3, use of resources available to CCPs, only after using resources available to other types of FMIs.

That order does not imply a strict sequential rule. It is up to B3, once the recovery plan is activated, to decide whether to apply the recovery tools in a sequential order or in a different order, and even decide not to implement one or more of the prescribed tools.

For scenarios associated with technological infrastructure failures, the recovery strategy consists of a set of actions to be taken by B3 in relation to the services it provides, such as suspension, in whole or in part, of certain services, changes to certain procedures connected with a service, and return the services that were suspended or the procedures that were changed to regular operation. The scenario of unavailability or integrity failure of B3's systems that support critical services is divided into 9 (nine) subscenarios per system (trading system, clearing platform, risk management system, CDS platform etc.), defining a recovery strategy for each subscenario.

PRINCIPLE 4 – CREDIT RISK

PRINCIPLE 4 – CREDIT RISK: *An FMI should effectively measure, monitor, and manage its credit exposure to participants and those arising from its payment, clearing, and settlement processes. An FMI should maintain sufficient financial resources to cover its credit exposure to each participant fully with a high degree of confidence. In addition, a CCP that is involved in activities with a more-complex risk profile or that is systemically important in multiple jurisdictions should maintain additional financial resources sufficient to cover a wide range of potential stress scenarios that should include, but not be limited to, the default of the two largest participants and their affiliates that would potentially cause the largest aggregate credit exposures to the CCP in extreme but plausible market conditions. All other CCPs should maintain, at a minimum, total financial resources sufficient to cover the default of the one participant and its affiliates that would potentially cause the largest aggregate credit exposures to the CCP in extreme but plausible market conditions.*

Key Consideration 1 - *An FMI should establish a robust framework to manage its credit exposures to its participants and the credit risks arising from its payment, clearing, and settlement processes. Credit exposure may arise from current exposures, potential future exposures, or both.*

The framework for managing credit risk exposure to participants in B3's clearinghouses include the following components:

- *Admission criteria:* rules and minimum operational and financial requirements, among others, for the admission of clearing members and intermediaries, as well as maintenance of access authorisation in the case of already admitted participants. The Risk Management Department and BSM independently monitor compliance by participants with the criteria for admission;
- *Co-responsibility structure:* defines credit relationships and hence responsibilities between investors and intermediaries, intermediaries and clearing members, and clearing members and the clearinghouse; and
- *Safeguard structure:* a tiered structure of collateral designed to absorb potential losses associated with default by one or more participants. The guarantees are sized in accordance with a stress test methodology. Current exposures and potential future exposures define the total value of collateral required for the safeguard structure, especially margin requirement (see under Principle 6 for more information on the margin model).

B3 Clearinghouse's safeguard structure consists of margin requirement, a settlement fund (to which clearing members, full trading participants, settlement participants and B3 contribute), and B3's own resources (in addition to B3's contribution to the settlement fund) exclusively earmarked for the clearinghouse, at an amount dimensioned in conjunction with the rest of the safeguard structure to cover, at least, the scenario of simultaneous defaults of 2 (two) clearing members (Cover 2), what could potentially cause the highest aggregate credit exposure to the clearinghouse under market conditions given by more severe market risk scenarios than those used in calculating required margin.

The B3 Foreign Exchange Clearinghouse's safeguard structure consists of margin requirement and a settlement fund (to which clearinghouse participants and B3 contribute).

- *Daily mark-to-market*: daily calculation of market value for all open positions and collateral, resulting in daily revisions of margin requirement and settlement values;
- *Intraday and daily margin calls*: assurance of adequate amounts of guarantees available in the safeguard structure;
- *Position limits*: upper limits for long and short positions in each instrument per investor, group of investors (investors belonging to the same economic conglomerate or acting jointly, for example), and full trading participant or settlement participant, by taking into account their positions under all intermediaries and clearing members;
- *Daily price fluctuation limits*: limits for positive and negative variations in the prices of instruments in each trading session, so as to limit the daily amounts to be settled via clearinghouses;
- *Limits for collateral constitution (B3 Clearinghouse)*: upper limits for the use of certain types of assets eligible to be accepted as collateral, such as limits for illiquid collateral and private issuers. The limits apply to collateral posted by an investor (or group of investors) aggregated under all intermediaries linked to the investor and their clearing members, as well as collateral posted by intermediaries and their clearing members. For participants that trade in more than one category (investor and/or intermediary and/or clearing member), the limits apply to all collateral posted by such a participant, including collateral posted by participants that belong to the same economic group;
- *Intraday risk limit (B3 Clearinghouse)*: a limit assigned to each intermediary (full trading participants and settlement participants) for the highest collateral deficit allowed during the day in transactions under its responsibility. The clearinghouse's intraday risk system monitors intermediaries' collateral deficits during the day to permit same-day risk coverage;
- *Trading limit (B3 Foreign Exchange Clearinghouse)*: maximum exposure to risk associated with transactions executed by participants without additional collateral being required, subject to current legislation;
- *Pre-trade risk limits*: limits assigned by intermediaries to their customers for the purpose of controlling pre-trade risk (assessing risks associated with offers, offers changes or trades processed, in the case of a new offer or offer change, before or immediately after its insertion into the trading system and, in the case of an executed trade, immediately after its execution). The use of the pre-trade risk control tool offered by B3 is mandatory for all profiles of investors who access, directly or indirectly, the electronic trading platform PUMA;
- *Limits for deposit of federal government bonds as collateral for third parties (B3 Clearinghouse)*: limits assigned by the B3 Clearinghouse to each participant for the deposit of federal government bonds held by the participant as collateral for customers under its responsibility. The limits apply to the total financial volume provided as collateral to third parties and to the financial volume that can be distributed to the same third party; and

- *Participant monitoring*: daily monitoring by Credit Risk Management of clearinghouse participants' credit quality and liquidity conditions (including certain investors considered relevant by B3, and private issuers of securities accepted as collateral).

The clearinghouses do not incur third-party credit risk in connection with settlement in local currency since each clearinghouse is solely responsible for execution of these activities and uses its own account with BCB in the Reserve Transfer System (STR) to receive and make payments from and to its clearing members. For settlement in USD, the correspondent banks used by the clearinghouses are submitted periodically to credit assessments by the Central Counterparty (CCP) Risk Internal Committee.

The credit exposure management framework is reviewed whenever enhancements are necessary owing to changes in the trading, clearing and settlement environments, changes in market practices, laws and regulations in effect, or new product launches. Changes to the framework are subject to prior approval by B3's Central Counterparty (CCP) Risk Internal Committee, Executive Board and Board of Directors, and BCB.

Key Consideration 2 - *An FMI should identify sources of credit risk, routinely measure and monitor credit exposures, and use appropriate risk-management tools to control these risks.*

B3 faces 3 (three) main types of credit risk: (i) the risk of financial losses associated with failure by providers of infrastructure for settlement processes (including failures by the correspondent banks used for USD settlement), (ii) the risk of losses due to default by one or more participants, associated with the market and liquidity risks inherent in closeout of positions and collateral execution, and (iii) the credit risk associated with issuers of assets used in the clearinghouses' safeguard structures.

Sources of credit risk are identified by the Risk Management Department and the Central Counterparty (CCP) Risk Internal Committee.

B3 monitors credit exposure every day using credit stress tests that assume default by participants and their affiliates. The financial impact of such defaults is simulated using the CORE methodology, assuming market risk scenarios of greater severity than those used to calculate margin requirement.

The credit quality of participants, collateral issuers and infrastructure suppliers is assessed using external metrics (balance sheet data at the same level of detail as is available to BCB, information disclosed by credit rating agencies, and market indicators) and internal metrics (daily settlement volumes, margin requirements and collateral posted, for example). If a participant's credit quality deteriorates, B3 can take steps to reduce its exposure, such as lowering the limits assigned to the participant and requiring additional collateral. If a participant is undergoing bankruptcy, reorganisation, intervention or court-ordered or out-of-court liquidation, B3 can also prohibit new transactions that cause an increase in exposure, determine position closeout, and cancel the participant's access authorisation.

B3 Clearinghouse

B3 Clearinghouse monitors its credit exposure on an ongoing intraday basis and at the end of each day.

In intraday monitoring, the operating balance (OB) of each intermediary (full trading participants and settlement participants) is monitored by the intraday risk system. For this purpose, the system recalculates the risk of each customer and each intermediary approximately every 20 (twenty) minutes throughout the day, considering the positions, trades and movement of collateral performed until the moment of calculation.

The operating balance is given by the difference between (a) the intraday risk limit (IRL) assigned by B3 (and reducible by the clearing member) plus the collateral (C) posted by the intermediary or its clearing member to raise the limit, and (b) the intraday risk of the intermediary (Risk), i.e., $OB = IRL + C - Risk$. The intermediary's intraday risk has five (5) parts: one part referring to the risk of trades not yet allocated to customers, calculated without netting out buy and sell trades, a second part referring to the risk of unallocated operations, but indicated for master accounts, a third part referring to the residual risk of allocated customer-collateralized trades, given by the sum of the highest collateral deficits associated with the accounts of such customers (relative to customer-collateralized positions and the corresponding collateral), a fourth part referring to allocated participant-collateralized trades, which considers all trades collateralized by participants, and a fifth part referring to any additional margin (e.g. if an open interest concentration limit is breached).

The intermediary must keep its operating balance positive ($OB > 0$) throughout the day and must take the necessary steps to ensure this. If $OB < 0$, the clearinghouse sets a deadline (on the same day) for the intermediary to comply by posting its own collateral, allocating unallocated trades, requiring customers to post intraday collateral, and/or performing risk-mitigating trades. If the intermediary fails to comply by the deadline, the clearinghouse may require the clearing member to post intraday collateral of its own, among other measures.

At the end of the day all exposures are recalculated at the level of the customer on the basis of updated positions, collateral, and closing or settlement prices. The results indicate whether extra collateral or margin calls are needed. If so, they must be covered on the next business day.

Both to calculate margin requirement for customers and participants at the end of the day and for intraday monitoring, risk is calculated using the CORE methodology, which consists of a stress test methodology to estimate the worst cash flow accumulating during the process of closing out a defaulter's portfolio, considering a closeout horizon of up to ten days, full valuation, a confidence level of at least 99.5% for commodities and 99.96% for other risk factors, and heavy-tailed distributions for all contracts considered systemically relevant (for details of CORE, see under Principle 6, Key Consideration 3).

The B3 Clearinghouse rules and risk management manual contain a detailed description of the procedures for calculating risk and margin, and for intraday risk monitoring.

B3 Foreign Exchange Clearinghouse

The B3 Foreign Exchange Clearinghouse uses the pre-margin model whereby advance posting of collateral is a necessary condition for acceptance of transactions.

The clearinghouse assigns each participant a trading limit, which represents the largest long or short position the participant may hold on to each settlement date without having to post extra collateral. The participant's exposure is updated by adding the amount of a new transaction to the cleared net balance for each settlement date (T+0, T+1 and T+2) and the new situation is compared with its trading limit. Exposure is calculated using the stress test method and considering market risk scenarios with a confidence level of at least 99.96%. Any transaction that would result in a higher exposure than the trading limit assigned is accepted only after the extra collateral required has been deposited, required from the participant, preferably in the currency in which it is the debtor (USD, in the case of a selling position, and BRL, in the case of a buying position).

Besides prior posting of collateral, therefore, the clearinghouse may require extra collateral, including on an intraday basis, from participants whose marked-to-market balances pending settlement present a risk to the clearinghouse's settlement process.

There are 3 (three) trading limits (L1, L2 and L3, with $L1 < L2 < L3$) that involve the entire exposure of the settlement cycle. Limits L1 and L2 are based on the B3 Foreign Exchange Clearinghouse's assessment of the participants' credit risk and entail different margin levels. Limit L3, which is identical for all participants, represents a critical threshold above which pre-settlement of a trade is required by depositing the full amount that exceeds the limit.

The clearinghouse's rulebook and risk management manual contain a detailed description of the procedures for calculating risk and margin.

Key Consideration 3 - *A payment system or SSS should cover its current and, where they exist, potential future exposures to each participant fully with a high degree of confidence using collateral and other equivalent financial resources (see Principle 5 on collateral). In the case of a DNS payment system or DNS SSS in which there is no settlement guarantee but where its participants face credit exposures arising from its payment, clearing, and settlement processes, such an FMI should maintain, at a minimum, sufficient resources to cover the exposures of the two participants and their affiliates that would create the largest aggregate credit exposure in the system.*

See under Key Consideration 4.

Key Consideration 4 - *A CCP should cover its current and potential future exposures to each participant fully with a high degree of confidence using margin and other prefunded financial resources (see Principle 5 on collateral and Principle 6 on margin). In addition, a CCP that is involved in activities with a more-complex risk profile or that is systemically important in multiple jurisdictions should maintain additional financial resources to cover a wide range of potential stress scenarios that should include, but not be limited to, the default of the two participants and their affiliates that*

would potentially cause the largest aggregate credit exposure for the CCP in extreme but plausible market conditions. All other CCPs should maintain additional financial resources sufficient to cover a wide range of potential stress scenarios that should include, but not be limited to, the default of the participant and its affiliates that would potentially cause the largest aggregate credit exposure for the CCP in extreme but plausible market conditions. In all cases, a CCP should document its supporting rationale for, and should have appropriate governance arrangements relating to, the amount of total financial resources it maintains.

The B3 Clearinghouse and the B3 Foreign Exchange Clearinghouse have their respective safeguard structures to cover current exposures and potential credit exposures. In each clearinghouse, the safeguard structure consists of collateral posted by participants and a settlement fund (FLI in the B3 Clearinghouse, FLOC in the B3 Foreign Exchange Clearinghouse). In the event of participant default, these can be promptly accessed by the clearinghouse concerned.

B3 Clearinghouse

B3 Clearinghouse's safeguard structure must be used in the following order in the event of default:

1. Collateral posted by the defaulting customer (margin requirement, including additional margin);
2. Collateral posted by the defaulting intermediary;
3. Collateral posted by the defaulting clearing member;
4. B3's contribution to FLI;
5. Other contributions to FLI; and
6. B3's resources exclusively earmarked for the clearinghouse.

The intermediary's collateral (item 2) means the collateral posted by an intermediary to raise its intraday risk limit and any extra collateral. The clearing member's collateral (item 3) means collateral posted by a clearing member to raise the intermediary's intraday risk limit and extra collateral.

The customer's margin requirement and the intermediary's intraday risk are determined using a portfolio (positions plus collateral) risk assessment methodology, assuming extreme market conditions (scenarios for variations in risk factors – prices, rates and volatilities – that affect the value of positions and collateral), with a risk horizon of up to 10 (ten) days, considering heavy-tailed distributions, and with a confidence level of at least 99.5% for variations in commodities and at least 99.96% for variations in other risk factors considered systemically important (CORE methodology). The scenarios for such variations include historical, quantitative, and prospective scenarios.

A credit stress test is used to assess the level of protection afforded by the safeguard structure, which should be at least N=2 largest participants (Cover 2). A daily check is performed to ensure that B3's amount of resources dedicated to the clearinghouses, as established by the Board of Directors, together with the other elements of the safeguard structure, is sufficient to cover simultaneous default by the two largest participants, with a higher confidence level for market risk than the level used to calculate margin requirement.

The FLI consists of (i) variable contributions made by clearing members, full trading participants and settlement participants, according to risk band (measured monthly on the basis of daily margin requirements in the 6 (six) months prior to the date of measurement), and (ii) a fixed contribution by B3. B3's contribution is R\$ 1.447 billion (11/30/2023) and represents roughly 41% of the fund. If the settlement fund is used in toto or in part, the funds later injected to replenish it must not be used to cover losses due to the same default.

B3 Foreign Exchange Clearinghouse

The B3 Foreign Exchange Clearinghouse's safeguard structure must be used in the following order in the event of default:

1. Collateral posted by the defaulting participant;
2. FLOC - defaulting participant's contribution;
3. FLOC - B3's contribution; and
4. FLOC - non-defaulting participants' contributions.

The FLOC comprises fixed contributions by clearing members and a contribution by B3. B3's contribution represents at least 50% of the fund, since the clearinghouse rules state that it must be at least equal to the total amount required from clearing members. As in the case of the FLI, if the FLOC is used in toto or in part, the funds later injected to replenish it must not be used to cover losses due to the same default. The FLOC contribution required from each participant is defined on the basis of its trading limit.

Participant risk is calculated using a stress test with a two-day risk horizon and assuming heavy-tailed distributions for exchange-rate variation, with a confidence level of at least 99.96%.

As in the case of B3 Clearinghouse, a credit stress test is used to assess the level of protection afforded by the safeguard structure, and a daily check is performed to ensure that B3's resources dedicated to the clearinghouse, as established by the Board of Directors, together with the other elements of the safeguard structure, is sufficient to cover the simultaneous defaults of the 2 largest participants, with a higher confidence level for market risk than the level used to calculate margin requirement.

All definitions relating to the clearinghouses' safeguard structures (calculation methodologies and parameters, use criteria, assets accepted as collateral etc.) are published on B3's website and in the clearinghouses' rulebooks and risk management manuals. The values of collateral posted to cover margin requirements by type of asset accepted are also published on B3's website.

To ensure that the safeguard structures provide adequate coverage, B3 defines the minimum level of own resources it must have in hand for dedicated use by the clearinghouses if residual losses remain after the settlement funds have been fully used in the event of default. This minimum level of own resources is established by B3's Board of Directors on the basis of a recommendation by the Risk and Financial Committee. The committee's recommendation is based on the aforementioned credit stress test, using more severe market risk scenarios than those used to calculate margin requirements, as well as the minimum coverage required by the regulator and B3's risk appetite.

Key Consideration 5 - *A CCP should determine the amount and regularly test the sufficiency of its total financial resources available in the event of a default or multiple defaults in extreme but plausible market conditions through rigorous stress testing. A CCP should have clear procedures to report the results of its stress tests to appropriate decision makers at the CCP and to use these results to evaluate the adequacy of and adjust its total financial resources. Stress tests should be performed daily using standard and predetermined parameters and assumptions. On at least a monthly basis, a CCP should perform a comprehensive and thorough analysis of stress testing scenarios, models, and underlying parameters and assumptions used to ensure they are appropriate for determining the CCP's required level of default protection in light of current and evolving market conditions. A CCP should perform this analysis of stress testing more frequently when the products cleared or markets served display high volatility, become less liquid, or when the size or concentration of positions held by a CCP's participants increases significantly. A full validation of a CCP's risk-management model should be performed at least annually.*

As mentioned under the previous Key Considerations to this Principle 4, stress testing is inherent in the margin calculation models and intraday risk management procedures that determine financial resources in the form of guarantees deposited with the safeguard structures of B3's clearinghouses. Thus, these resources reflect participants' current risk profile and ultimately that of the clearinghouses, considering market risk scenarios with a severity of at least 99.5% for commodities and 99.96% for other risk factors applied to marked-to-market positions and collateral.

Risk Management Department monitors the adequacy of the margining model's parameters and assumptions every day using (i) a daily margin backtesting procedure for all portfolios, and (ii) daily monitoring of the market risk scenarios, which are compared with the observed variations in market prices. Any violations detected using procedures (i) and (ii) are analysed by the Risk Management Department and submitted to the Central Counterparty (CCP) Risk Internal Committee, and, according to its materiality, to the B3's Executive Board, potentially leading to a revision of the parameters and/or the model. The results of the portfolio margin backtests are reported to BCB on a daily basis.

In addition to and independently from the margin backtesting procedure, the Central Counterparty (CCP) Risk Internal Committee re-examines, at least monthly, or whenever deemed necessary the parameters of the margining methodology and credit stress test, such as the scenarios for risk factors.

B3's resources dedicated to the clearinghouses, established by the Board of Directors in accordance with the recommendation of the Risk and Financial Committee, is also calculated using a daily stress test.

As noted under Key Consideration 2 of this Principle, the Risk Management Department monitors credit exposure every day using a credit stress test. The credit exposure resulting from the test is the threshold for the total amount of financial resources available in the safeguard structure required to obtain the desired level of coverage in more extreme market conditions than those assumed for the purposes of calculating margin requirement. Any actual or potential breach of this threshold is reported to the Chief Operating Officer – Electronic Trading and Central Counterparty, who may

choose the action or actions to be taken to restore the desired coverage: increasing customers' margin requirement, lowering the concentration for open positions, and requiring additional margin from specific customers. The result of the test is also reported to B3's Board of Directors and its Risk and Financial Committee every month or whenever deemed necessary. Having consulted the Risk and Financial Committee, the Board of Directors may decide to restore the desired level of coverage by raising the amount of the required contributions to the settlement fund and increasing B3's resources earmarked for the clearinghouses for risk coverage purposes.

In recent years B3's resources dedicated to the clearinghouses, established by the Board of Directors, together with the other elements of the safeguard structures, assured sufficient funds to cover N=2 largest participants.

The Governance, Integrated Management and Cyber Security Executive Department independently annually performs the validation of the credit stress test carried out by the Risk Management Department.

Key Consideration 6 - *In conducting stress testing, a CCP should consider the effect of a wide range of relevant stress scenarios in terms of both defaulters' positions and possible price changes in liquidation periods. Scenarios should include relevant peak historic price volatilities, shifts in other market factors such as price determinants and yield curves, multiple defaults over various time horizons, simultaneous pressures in funding and asset markets, and a spectrum of forward-looking stress scenarios in a variety of extreme but plausible market conditions.*

Given that the margin calculation methodology consists of a stress test, a large number of scenarios are taken into account for each of the risk factors that influence the prices of assets and derivatives, such as exchange rates, yield curves, stock indices, commodity prices and volatility surfaces. The scenarios are developed by the Central Counterparty (CCP) Risk Internal Committee and consist of forward-looking scenarios, historical scenarios (January 2004 to May 2023) and quantitative scenarios (for details of each type of scenario, see under Principle 6). The stress scenarios used for margining include (i) all ten-day price trajectories observed in the market from January 2004 until May 2023 (historical simulations), (ii) price trajectories generated by statistical models that use heavy-tailed distributions and incorporate the joint movement of prices using the copula technique (Monte Carlo simulations), and (iii) prospective scenarios defined by the Central Counterparty (CCP) Risk Internal Committee, considering the possibility of a "correlation break" between the main risk factors. All told, 10,000 scenarios are developed and used for all risk factors (i.e., 10,000 sets, each of which contains a scenario for the trajectory of each risk factor for a horizon of 1-10 days). Thus, the margining system uses 10,000 scenarios to compute margin requirement for each customer, even in intraday processing. B3 can alter any scenario without notice if necessary.

In assessing B3's resources dedicated to the clearinghouses, the Risk and Financial Committee tests scenarios with escalating levels of severity (market risk scenarios with greater severity than those used to calculate margin requirement and scenarios assuming simultaneous default by escalating

numbers of participants). The committee itself develops these scenarios. As noted above, the results of the daily credit stress test are also analysed.

Key Consideration 7 - *An FMI should establish explicit rules and procedures that address fully any credit losses it may face as a result of any individual or combined default among its participants with respect to any of their obligations to the FMI. These rules and procedures should address how potentially uncovered credit losses would be allocated, including the repayment of any funds an FMI may borrow from liquidity providers. These rules and procedures should also indicate the FMI's process to replenish any financial resources that the FMI may employ during a stress event, so that the FMI can continue to operate in a safe and sound manner.*

B3's clearinghouse risk management rules and manuals clearly establish the rules for covering losses due to participant default, in particular the following:

- The responsibilities of each participant in the obligation settlement chain (i.e., customers, intermediaries and clearing members), with regard to the posting of collateral or the flows of funds for trades and positions;
- A defaulting clearing member's obligation to identify the defaulting intermediary and a defaulting intermediary's obligation to identify the defaulting customer;
- The rules for using the collateral posted by defaulting participants (customer, intermediary and clearing member) and the contributions of B3 and non-defaulting clearing members to the settlement fund, including the order in which they are to be used (see the order in which collateral is to be used under Key Consideration 4 of this Principle); and
- The possibility of using the collateral posted by defaulting participants and the settlement fund to reimburse liquidity providers if the liquidity assistance mechanisms have been used.

The only component of the safeguard structure that can be replenished after use due to participant default is the settlement fund. The rules for replenishment of the fund are set out in the clearinghouse rulebooks. The main rules are as follows:

- If B3's contribution is used, the Board of Directors may determine partial or total replenishment;
- If the contributions of non-defaulting participants are used, the clearinghouse sets a deadline for replenishment of the contributions concerned, and the contributions made for replenishment purposes may be used only to cover future defaults;
- The total value of contributions required from a participant to replenish the fund in any 20 (twenty) day period is limited to three times the value of its contribution;
- Any participant that fails to discharge its obligation to replenish the settlement fund may be declared defaulter or operational defaulter by the clearinghouse; and
- B3 may implement a charge to recover the amount necessary to replenish the settlement fund, in which case the amount recovered is transferred to the non-defaulting participants that replenished the fund.

If losses due to the default remain after the settlement fund is fully utilized, B3 may use its resources dedicated to the clearinghouses.

Situations in which losses exceed the amount available in the safeguard structure are dealt with in B3's recovery plan, which is reviewed at least annually.

In addition, the clearinghouses' rulebooks also contain the applicable rules in the event of B3's bankruptcy or request for reorganisation, and in the event of non-payment by the clearinghouses to one or more clearing members, including position closeout and preservation of the net settlement of rights and obligations.

PRINCIPLE 5 – COLLATERAL

PRINCIPLE 5 – COLLATERAL: *An FMI that requires collateral to manage its or its participants' credit exposure should accept collateral with low credit, liquidity, and market risks. An FMI should also set and enforce appropriately conservative haircuts and concentration limits.*

Key Consideration 1 - *An FMI should generally limit the assets it (routinely) accepts as collateral to those with low credit, liquidity, and market risks.*

The main criteria used by B3 to determine whether a specific asset can be accepted as collateral are as follows:

- No legal obstacles to its use as collateral;
- Pricing transparency and efficiency in trading and post-trading environments;
- Minimum liquidity level;
- Existence of liquidity providers;
- It must be possible to estimate market and credit risk with a tolerable degree of accuracy; and
- In the case of private securities, such as CDs, LCIs, LCAs and bank letters of credit, the issuer must comply with the applicable requirements established as conditions for access, as well as those established in the clearinghouse's rulebook and risk management manual.

B3's clearinghouses accept the following assets as collateral, besides cash in the form of Brazilian currency:

B3 Clearinghouse

- Brazilian government bonds traded in Brazil;
- Gold as a financial asset;
- Shares of a stock issued by a publicly traded company listed on B3;
- Certificates of deposit of shares of a stock (units) issued by a publicly traded company listed on B3;
- American Depositary Receipts (ADRs) representing stocks eligible to be accepted as collateral; *
- Brazilian Depositary Receipts (BDRs) representing shares of stocks;
- BDR (Brazilian Depositary Receipt) representing ETF (Exchange Traded Fund) with reference index composed of shares traded abroad;
- Bank certificates of deposit (CDs);
- Real Estate Letters of Credit (LCIs);
- Agribusiness Letters of Credit (LCAs);
- US dollars; *
- Euro; *
- US Treasury bonds; *

- German Treasury bonds; *
- Bank letters of credit (LCs);
- Exchange-traded fund (ETF) shares traded in Brazil;
- Shares of the investment fund B3 Margem Garantia Renda Fixa Referenciado DI Fundo de Investimento em Cotas de Fundos de Investimento (FIC); ** and
- Shares of the investment fund Fundo de Investimento Liquidez Câmara B3 (FILCB). **

(*) Only non-resident investors of types and jurisdictions specified in the B3 Clearinghouse Risk Management Manual may use these assets as collateral.

(**) Fund designed specifically for constitution of collateral, with automatic pledge of fund shares to the B3 Clearinghouse.

B3 Foreign Exchange Clearinghouse

- Brazilian government bonds traded in Brazil;
- US dollars; and
- Local currency.

Market risk associated with collateral is mitigated through the application of shocks. Liquidity risk relating to collateral execution is mitigated by liquidity assistance facilities (see under Principle 7), and in the case of B3 Clearinghouse also by the imposition of specific acceptance limits depending on the type of asset.

With regard to credit risk, B3 Clearinghouse sets limits for issuers of CDs, LCIs, LCAs and bank letters of credit. In this Principle, in the following descriptions, the term “participants” refers to persons or entities that act as customers and/or intermediaries and/or clearing members.

- *Limits for acceptance of CDs, LCIs, LCAs and bank letters of credit:* limits are assigned to each issuing bank by the Central Counterparty (CCP) Risk Internal Committee, which takes into account quantitative and qualitative aspects that determine the bank’s credit quality. The committee can alter or block any limit at its sole discretion and at any time. The limits listed below apply to CDs, LCIs, LCAs and letters of credit issued by the same bank:
 - a limit for the total posted to the B3 Clearinghouse;
 - a limit for the total posted by the same customer or customer group; and
 - a limit for the total posted by customers under the responsibility of or linked to an intermediary or clearing member linked to the issuing bank.
- *Limit for CDs, LCIs and LCAs with no early redemption clause:* a limit per participant or group of participants for posting collateral that consists of assets with restrictions or conditions regarding early redemption;
- *Limits for Brazilian government bonds posted as collateral for third parties:* limits set by the B3 Clearinghouse for government bonds held by participants when posted as collateral for customers. These limits refer to total financial volume posted as third-party collateral and to the volume that can be distributed to the same third party. The B3 Clearinghouse grants these limits,

and their maintenance depends on the compliance with the procedures, parameters and conditions established in its manuals and rulebooks;

- *Limits for acceptance of stocks, ADRs, BDRs representing shares of stocks, units, and ETF shares:* a limit per asset for the total posted in the form of the asset by the same customer or group of customers. These limits are defined on the basis of the asset's liquidity;
- *Limit for use of illiquid collateral:* a limit for the total amount of illiquid assets posted as collateral by the same participant or group of participants, regardless of the other limits applicable to the assets concerned. The B3 Clearinghouse classes assets as liquid or illiquid according to the time taken to monetise them. Local currency, Brazilian government bonds, and bank letters of credit with same-day liquidity are classed as liquid. Other assets accepted as collateral are classed as illiquid. An upper limit is applied to the illiquid portion of collateral posted by each participant, including customers: this limit corresponds to a fraction of the funds available (see under Principle 7, Key Consideration 1, for details); and
- *Limit for collateral posted abroad:* a limit granted by the B3 Clearinghouse to non-resident investors for collateral posted abroad, as a means of assuring compliance with the limit established by BCB Resolution 304/23. Based on operational criteria, the B3 Clearinghouse sets for each non-resident investor (i) a financial limit in BRL or (ii) a limit in the form of a percentage of the total margin required by the B3 Clearinghouse.

Besides these limits, other restrictions apply to collateral acceptance, such as not allowing persons linked to a given company to post securities issued by that company as collateral to mitigate wrong-way risk, for example.

The list of eligible assets, criteria for valuing collateral, criteria for limits and other restrictions are publicly available.

The Central Counterparty (CCP) Risk Internal Committee reviews and assesses the policies, practices and parameters relating to the posting of collateral at least once a month.

The asset types eligible for acceptance as collateral by B3's clearinghouses and the acceptance criteria and limits are established in the clearinghouses' rulebooks and manuals, which are approved by BCB. Any change in the list of accepted assets and in the criteria of eligibility and acceptance limits requires approval by BCB.

B3's clearinghouses do not reuse assets posted as collateral by participants.

Key Consideration 2 - *An FMI should establish prudent valuation practices and develop haircuts that are regularly tested and take into account stressed market conditions.*

The B3 Clearinghouse assesses market risk associated with a customer's collateral together with the customer's positions. The adequacy of collateral price variation scenarios is checked by backtesting the margining model.

All assets posted as collateral except CDs, LCIs, LCAs and bank letters of credit are marked to market daily at the closing price, and shocks representing market risk are then applied. The use of liquidity-based criteria for collateral acceptance mitigates the risk of distorted values due to marking assets posted as collateral to market.

Shocks applied after marking to market are given by the scenarios for price variation in the risk factors that determine the prices of assets posted as collateral. Their adequacy is verified as part of the validation of these scenarios, conducted every day by the Risk Management Department and fortnightly or whenever necessary by the Central Counterparty (CCP) Risk Internal Committee.

Key Consideration 3 - *In order to reduce the need for procyclical adjustments, an FMI should establish stable and conservative haircuts that are calibrated to include periods of stressed market conditions, to the extent practicable and prudent.*

The B3 Clearinghouse calculates risk using the CORE methodology, which includes collateral valuation, so there is no need for procyclical adjustment to the market risk scenarios used. These scenarios are stable by definition, as described under Principle 6, Key Consideration 3.

The same applies to the B3 Foreign Exchange Clearinghouse, since this clearinghouse's collateral is valued using the same market risk scenarios.

Key Consideration 4 - *An FMI should avoid concentrated holdings of certain assets where this would significantly impair the ability to liquidate such assets quickly without significant adverse price effects.*

Most of the collateral posted to B3's clearinghouses (more than 82% of the total in the case of B3 Clearinghouse, and 100% in the case of B3 Foreign Exchange Clearinghouse, in 09/29/2023) consists of Brazilian government bonds, considered the most liquid assets in the Brazilian market.

Posting of other eligible assets is subject to the limits mentioned under Key Consideration 1 of this Principle, which help avoid concentration. Because collateral posted to B3's clearinghouses is segregated by individual customer, concentrated holdings of certain assets are easily identifiable.

Key Consideration 5 - *An FMI that accepts cross-border collateral should mitigate the risks associated with its use and ensure that the collateral can be used in a timely manner.*

With regard to legal risk, in 2020 B3 completed a study to review its acceptance of collateral posted abroad, concluding that such collateral enjoys the same legal certainty and the same degree of enforceability as collateral constituted in Brazil relative to certain types of collateral posted by certain types of non-resident investors in Brazil domiciled in the United States of America, United Kingdom, France, Netherlands (whose analysis was completed in 2018), Cayman Islands and Luxembourg. The

degree of legal certainty indicated by the study applies to collateral abroad accepted by the B3 Clearinghouse and the B3 Foreign Exchange Clearinghouse, considering the types of asset accepted (see under Key Consideration 1 of this Principle) and the profile of the participants who currently use them as collateral for these clearinghouses.

With regard to the operational risk associated with access to collateral, Risk Management Department performs monthly collateral execution tests with the banks and depository entities located abroad. In the case of USD, only cases in which conversion to local currency is required incur operational risk, which is the same as the operational risk usually associated with foreign-exchange transactions.

Market and liquidity risks are mitigated by the application of shocks for market risk, by the limit on illiquid collateral (B3 Clearinghouse), and by the maintenance of liquidity facilities for fast conversion of USD into local currency.

Exposure to credit risk derives from the correspondent banks in New York, where collateral is deposited. To mitigate this risk, B3 uses only top-tier banks, which are periodically monitored by the Risk Management Department and the Central Counterparty (CCP) Risk Internal Committee.

Key Consideration 6 - *An FMI should use a collateral management system that is well-designed and operationally flexible.*

The primary features of the collateral management system operated by B3's clearinghouses are as follows:

- Identification of the customer/depositor and segregation at the customer/depositor level, in accordance with each clearinghouse's account structure;
- Eligibility rules and limits by asset class to mitigate credit and liquidity risks;
- Real-time integration with risk and settlement systems, and with CSDs;
- Shocks and daily marking-to-market;
- Criteria and timetables for asset transfers;
- Execution rules (default events and order of use) and operational collateral execution capacity;
- Simulation tool; and
- Access to information in the system and transfer instruction commands via messaging or in screen.

Collateral is never reused, since all assets posted as collateral are transferred or linked to accounts held by the concerned clearinghouse with depository entities. Moreover, segregation of collateral in the name of its depositor also gives B3's clearinghouses full control of deposits, withdrawals, substitutions, transfers, and liquidations. The collateral management systems were developed in house by B3, and a dedicated IT team provides support, assuring robustness and flexibility. Collateral management is the responsibility of a division of the Risk Management Department.

PRINCIPLE 6 – MARGIN

PRINCIPLE 6 – MARGIN: A CCP should cover its credit exposures to its participants for all products through an effective margin system that is risk-based and regularly reviewed.

Key Consideration 1 - A CCP should have a margin system that establishes margin levels commensurate with the risks and particular attributes of each product, portfolio, and market it serves.

B3 uses the term “margin” to mean the collateral required from participants by clearinghouses to cover credit exposure. Thus, it refers to both margin requirements and margin calls. Margin does not include other components of daily settlement obligations, such as daily settlement prices, settlement prices for OTC derivatives at maturity or for early settlement (registered in the mode with clearinghouse guarantee), options premiums (in the case of B3 Clearinghouse) or settlement amounts for foreign-exchange transactions (in the case of the B3 Foreign Exchange Clearinghouse), although all these influence the calculation of margin requirements and margin calls. For both clearinghouses, the confidence level used in this calculation, as defined by the Central Counterparty (CCP) Risk Internal Committee, is at least 99.5% for commodities and 99.96% for other risk factors.

Given the high confidence level, considering heavy tails, B3’s approach to calculate margin is a stress testing approach, based on scenarios for price variations in the primitive risk factors that influence portfolio value. The risk methodology and the parameters used to calculate risk are approved by the Central Counterparty (CCP) Risk Internal Committee. Independently, B3’s margin systems (the risk model and associated IT systems) are approved and inspected annually by BCB, internally and externally audited, and periodically reviewed by the Governance, Integrated Management and Cyber Security Executive Department.

Additional margin may be required by the clearinghouses from any participant at any time for prudential reasons.

B3 Foreign Exchange Clearinghouse

The B3 Foreign Exchange Clearinghouse uses a pre-margin model whereby advance posting of collateral is a necessary condition for acceptance of transactions. Given the payment-versus-payment (PvP) mechanism, margin requirement aims to cover market risk during reversal of a defaulting participant’s position, without netting out different settlement dates (T+0, T+1, T+2). Risk calculation is based on marking to market and position stress tests using severe scenarios for the BRL/USD exchange rate, assuring a confidence level of at least 99.96%.

B3 Clearinghouse

The B3 Clearinghouse’s margining system is based on the integrated calculation of portfolio risk (positions in the Listed B3 and OTC B3 segments plus collateral) at the customer level. Using the CORE methodology, potential credit exposure is estimated as the worst scenario for closeout of all customer positions in case of default, given a closeout strategy, i.e., the worst financial loss due to the closeout process considering adverse price movements given by scenarios for the variation in

each primitive risk factor (interest rates, exchange rates, volatilities, stock prices, stock indices etc). The calculation considers specific position closeout assumptions for each type of contract settled via the clearinghouse and each type of asset accepted as collateral by the clearinghouse, such as assumptions regarding risk horizons (closeout period), settlement cycles, cash flow structures (daily settlement price vs. settlement at maturity) and liquidity levels. The estimated time to close out the portfolio and extensions to position risk horizons are defined on the basis of the contract's daily liquidity. To assure consistency in selecting the worst closeout scenario, positions and collateral are valued jointly for each scenario.

The clearinghouse also requires extra collateral for positions that exceed the concentration limits for open positions, and may require intermediaries and clearing members to post collateral on an intraday basis if justified by its monitoring of intraday risk (see under Key Consideration 3 of this Principle).

The customer's margin call calculated at the end of the day (T+0) must be covered by collateral posted in cash or assets not later than 1:30 p.m. on the next day (T+1). Any portion of a margin call not covered by the deadline must be covered by the clearing member during the cash settlement window, in which case it is debited to the clearing member's multilateral net balance for same-day settlement (2:10-2:50 pm: window for debtor clearing members to pay the clearinghouse, 3:50 pm: clearinghouse pays creditor clearing members). Collateral posting therefore becomes an obligation to be settled with the clearinghouse in national currency by the clearing member. If the clearing member fails to settle this obligation with the clearinghouse, it is declared an operational defaulter or defaulter, and the procedures established for operational default or default situations are applied. Thus, the enforceability of the requirement to meet the deadline for collateral posting is based on the possibility of declaring in default a participant that fails to discharge its collateral posting obligation.

In the event of default, the clearinghouse accesses its safeguard structure and can use the collateral posted by the defaulting participants. If this is not sufficient, the settlement fund and B3's resources dedicated to the clearinghouses are used.

Clearinghouse participants have full access to information on margin values and limits. Participants in the B3 Foreign Exchange Clearinghouse, under the pre-margin model, can consult the values of the collateral they have posted and required values at all times. In the B3 Clearinghouse, intermediaries and clearing members are informed about margin call every day with enough notice to post the requisite amount by the deadline set. They also have access to the intraday risk tool used by the clearinghouse to monitor customer risk during the day, to the risk simulator, which enables them to simulate margin requirements and margin calls for any of their customers, and to the position limit system, which enable them to monitor their customers' positions in relation to applicable limits. In the absence of sharp fluctuations in prices, positions and collateral, the customer's intraday collateral balance (the difference between collateral posted and intraday risk) can be used as an estimate of the customer's margin call for T+1.

The rules of B3's clearinghouses establish the responsibilities of participants regarding settlement obligations, including the obligation to deposit margin requirement. The margin methodologies used

by the clearinghouses are documented in detail in their respective risk management manuals, available from B3's website (www.b3.com.br/en_us/, Regulation, Regulations and manuals, Clearing, settlement and risk management, Access the documents). The models' parameters are published in files or directly on B3's website, enabling participants to use them in their own risk management activities. More details on the margin calculation models are presented under Key Consideration 3.

Key Consideration 2 - *A CCP should have a reliable source of timely price data for its margin system. A CCP should also have procedures and sound valuation models for addressing circumstances in which pricing data are not readily available or reliable.*

The main source of price data for B3's clearinghouse margin systems is Risk Management Department's pricing division, which is staffed by a team of specialists and has systems dedicated to providing the prices used in several critical processes, including calculation of margins and settlement amounts. The accuracy and reliability of the prices and financial indicators collected are assured by the use of information obtained from direct sources and liquid markets on the basis of trades actually executed.

B3's pricing manuals, available from its website (www.b3.com.br/en_us/, Market data and indices, Market data, Reports, Know more, Derivatives, Methodology), describe the methodologies used to calculate the settlement prices for futures contracts and the reference premiums and implied volatilities for options contracts traded on B3. The methodologies draw on primary sources for prices considering the trades and/or orders that meet minimum requirements for validity, as well as alternative sources used if the primary source does not produce valid trades and/or orders.

The pricing manuals also state that B3, through its Central Counterparty (CCP) Risk Internal Committee, may arbitrate settlement prices at its sole discretion if the inputs to the methodologies described in it should be totally or partially unavailable owing to economic or operational events that may compromise price synchronicity or hinder application of the corresponding methodology.

Key Consideration 3 - *A CCP should adopt initial margin models and parameters that are risk-based and generate margin requirements sufficient to cover its potential future exposure to participants in the interval between the last margin collection and the closeout of positions following a participant default. Initial margin should meet an established single-tailed confidence level of at least 99 percent with respect to the estimated distribution of future exposure. For a CCP that calculates margin at the portfolio level, this requirement applies to each portfolio's distribution of future exposure. For a CCP that calculates margin at more-granular levels, such as at the subportfolio level or by product, the requirement must be met for the corresponding distributions of future exposure. The model should (a) use a conservative estimate of the time horizons for the effective hedging or closeout of the particular types of products cleared by the CCP (including in stressed market conditions), (b) have an appropriate method for measuring credit exposure that accounts for relevant product risk factors*

and portfolio effects across products, and (c) to the extent practicable and prudent, limit the need for destabilising, procyclical changes.

The margin models used by B3's clearinghouses are risk-based, as noted under Key Consideration 1, with stress testing to estimate the potential future exposure associated with the process of portfolio closeout in the event of participant default.

There is no inherent procyclicality in the model because its parameters (daily liquidity and scenarios for risk factors) are determined ex ante, unconditionally and exogenously to the model by the Central Counterparty (CCP) Risk Internal Committee.

B3's clearinghouses seek to minimize position closeout risk by defining closeout periods suited to the various types of market and product, and by using stress scenarios compatible with those periods. In the case of the B3 Clearinghouse in particular, the CORE methodology explicitly treats this aspect by taking the maximum daily liquidity of each contract or asset into account when defining the closeout strategy. Thus, the presence of positions in contracts with low liquidity may result in a higher margin requirement.

The risk factor variation scenarios are a key element of the margining methodologies. They are based on historical data (since 2004) as well as quantitative and prospective variables. The Central Counterparty (CCP) Risk Internal Committee is responsible for defining the policy, parameters, and methodology for these scenarios. For each risk factor, the committee sets variation ceilings and floors considered plausible for all risk horizons (1-10 days in the case of the B3 Clearinghouse, 2 days in the case of the B3 Foreign Exchange Clearinghouse), these function as an envelope for factor returns in the horizons mentioned, and no other scenario for the factor exceeds this envelope. Envelopes are defined prospectively based on quantitative models for the available historical returns and forward-looking analysis by specialists in risk, considering a confidence level for the distribution of future returns of risk factors individually of at least 99.5% for commodities and 99.96% for other risk factors. This scenario framework substantially mitigates the procyclicality of the margin models used by B3's clearinghouses.

Any scenarios and other parameters can be changed without notice, even intradaily.

The margin models are described in detail in the clearinghouses' risk management manuals, which are available from B3's website, and their parameters can also be obtained via the website.

B3 Clearinghouse

B3 Clearinghouse's margin model is based on the calculation of portfolio risk at the customer level. The measure of risk used by the CORE methodology is the maximum cash flow requirement accumulated during the process of closing out the portfolio of a defaulting customer, given adverse price movements defined in the risk factor variation scenarios for the portfolio in question, i.e., for the customer's positions and collateral.

The CORE methodology:

- Considers market, liquidity, and cash flow risks, distinguishing them appropriately in the modelling process;

- Represents the portfolio closeout process in detail, evaluating potential losses and gains during the process;
- Offers, in addition to risk measures, the closeout strategy to be followed, i.e., a set of buy and sell instructions for all positions as well as instructions for collateral execution;
- Considers, in determining closeout or settlement, the cash flow structure of each type of contract and collateral and the amount to be closed out in a speedy and orderly manner, i.e., without significant adverse effects on price;
- Assures adequate treatment of potential cash flow mismatches during closeout, comprehensively representing the potential flows of each type of asset and contract and recognising their different cash flow structures; (and)
- Does not commit pricing errors derived from approximation techniques, since it uses the full valuation method to value all positions, including positions in non-linear instruments, under all scenarios.

The main stages of customer margin requirement calculation are as follows:

1. The portfolio closeout strategy is determined;
2. Execution of the closeout strategy is simulated under different scenarios for the risk factors present in the portfolio (10,000 scenarios), calculating for each scenario the daily cash flows accumulated on each of the closeout period as a result of the closeout process;
3. For each simulation/scenario, the worst accumulated daily cash flow is taken; and
4. The worst of the worst accumulated daily cash flows, if negative, represents the worst potential loss.

Margin requirement is therefore given not only by the potential loss at the end of the closeout period, but also by any transient losses representing financing requirements during the closeout process.

The risk horizon, or time required to close out a position, is defined as a period of between 1 and 10 days depending on the types of contract in the portfolio: 2 days for equity options, 2-10 days for futures, securities lending positions and equity forwards, 5 days for financial options, and 10 days for OTC derivatives (swaps, flexible options, and non-deliverable forwards). Thus, the scenarios for market variations of risk factor prices are defined for risk horizons from 1 to 10 days and a coherent timeline for each risk factor's price trajectory.

Inclusion of the daily liquidity of each contract or instrument in margin calculation means that the customer portfolio closeout period is a function of the size of its positions. For each position that exceeds the level of daily liquidity of the contract or instrument, the methodology assumes closeout on each day of at most the proportion of the position limited to the level of liquidity. To mitigate the risk of longer position closeout periods and higher price impacts, the clearinghouse sets concentration limits for open positions, requiring participants with positions that exceed such limits to post extra collateral.

The set of 10,000 scenarios used to evaluate each customer's portfolio comprises historical, quantitative, and prospective scenarios, always limited to the envelopes defined by the Central Counterparty (CCP) Risk Internal Committee.

- The historical scenarios comprise all mobile risk factor variation windows with sizes between 1 and 10 consecutive days. The sample used, which ranges from January 2004 to May 2023 and is updated at least once a year, encompasses multiple periods of stress in more than 19 (nineteen) years of data. The historical simulation captures the dependency structure as well as the individual variations observed throughout the sample period;
- The quantitative scenarios are simulated on the basis of quantitative models estimated using historical data with the aim of reproducing stylised events from the financial literature. Risk is broken down into two parts: specific (or idiosyncratic) risk and joint movement risk. Specific risk is modelled independently and on the basis of heavy-tailed distributions (e.g., asymmetric t or GPD). Joint distribution is obtained using statistical techniques relating to concurrent extreme events, such as the grouped t-copula. The quantitative scenarios are obtained via Monte Carlo simulation from the distributions described above. The quantitative approach is capable of producing scenarios that are plausible, given the history, but did not necessarily occur in the period covered by the sample; and
- The prospective scenarios are determined by the Central Counterparty (CCP) Risk Internal Committee on the basis of a risk analysis that, in addition to the quantitative elements and the history of risk factor returns, considers the following: (i) the evolution of idiosyncratic risk and joint movement risk over time as a result of changes in the fundamentals (of countries and companies) and in the market microstructure, (ii) the lack of a history of returns for new assets and new asset classes, (iii) identification of the plausibility of severe events that have never occurred, and (iv) sudden changes in the domestic or international political and/or economic outlook. Based on this prospective risk analysis, the committee may include additional scenarios for risk factors that plausibly cause breaks in the dependency structure not covered by the sample of historical or quantitative scenarios.

Given the segregation of all positions and collaterals in individual customer accounts, the proprietary portfolio of a clearing member or intermediary represents a particular case of a customer portfolio, and the criteria and parameters used to calculate margin do not differ from those applicable to other customers.

B3 Foreign Exchange Clearinghouse

The value of the collateral required from participants by the pre-margin model is determined by stress testing.

The exposure associated with closeout of a defaulting participant's positions is the result of multiplying the positions to be settled on T+0, T+1 and T+2, marked to market, by the percentage variation in the exchange rate for 2 days, given by the envelope for this risk factor for the B3 Clearinghouse defined by the Central Counterparty (CCP) Risk Internal Committee.

Key Consideration 4 - *A CCP should mark participant positions to market and collect variation margin at least daily to limit the build-up of current exposures. A CCP should have the authority and operational capacity to make intraday margin calls and payments, both scheduled and unscheduled, to participants.*

Every day B3's clearinghouses mark to market all positions and collaterals of all customers in the exchange and OTC markets, based on settlement prices and reference prices for T+0 collected by the pricing division of the Risk Management Department.

The clearinghouses use marked-to-market values to update margin requirement, collateral, and margin calls, as well as calculating daily settlement values. The B3 Foreign Exchange Clearinghouse calculates amounts in local currency and USD for the daily settlement cycles for T+0, T+1 and T+2. The B3 Clearinghouse calculates amounts in local currency for the daily settlement cycle for T+0, according to its settlement window's timetable. Until settlement, daily settlement values affect the risk assigned to each participant. In each clearinghouse the daily settlement cycle follows the specific timetable for its settlement window.

The possibility of intraday margin calls is an essential part of the process of managing the B3 Clearinghouse's intraday risk, whose function is to assure same-day risk coverage. In this process, the B3 Clearinghouse monitors throughout the day the operating balance (OB) of each intermediary (full trading participant or settlement participant), given by the difference between (a) the intraday risk limit (IRL) assigned by the Central Counterparty (CCP) Risk Internal Committee plus the collateral (C) posted by the intermediary or its clearing member to raise the limit, and (b) the intraday risk associated with the intermediary (Risk), i.e., $OB = IRL + C - Risk$. The intermediary's intraday risk has 5 (five) parts: the risk of unallocated trades, the risk of unallocated trades, but indicated to master accounts, the residual risk associated with allocated customer-collateralized trades, the risk associated with allocated participant-collateralized trades, and the risk associated with the possibility of an additional margin call.

For monitoring purposes, risk is recalculated many times during the day (approximately every 20 minutes) for each customer and each intermediary, incorporating new trades and movements of collateral performed on the day until the moment of calculation. The B3 Clearinghouse does not mark positions or collateral to market intradaily but is capable of doing so if necessary.

The intermediary must keep its operating balance positive ($OB > 0$) throughout the day. If $OB < 0$, the clearinghouse sets a deadline (on the same day) for the intermediary to comply by posting its own collateral, allocating unallocated trades, requiring customers to post intraday collateral, and/or performing risk-mitigating trades. If the intermediary fails to comply by the deadline, the clearinghouse may require the clearing member to post intraday collateral of its own, among other measures.

The clearinghouse has the authority and operational capacity to make and process intraday margin calls and payments. Its rulebooks and manuals contain specific provisions on this possibility. Operationally speaking, the risk management system processes intraday risk calculations and the movements of collateral, so that the intraday margin call process is straightforward.

In the B3 Foreign Exchange Clearinghouse, given the pre-margin model, the risk management system recalculates each participant's risk with every new transaction, and acceptance of transactions is conditional upon the sufficiency of posted collateral and compliance of positions with trading limits.

Key Consideration 5 – *In calculating margin requirements, a CCP may allow offsets or reductions in required margin across products that it clears or between products that it and another CCP clear, if the risk of one product is significantly and reliably correlated with the risk of the other product. Where two or more CCPs are authorised to offer cross-margining, they must have appropriate safeguards and harmonised overall risk-management systems.*

For the purposes of calculating customers' margin requirements, the B3 Clearinghouse allows offsetting of risks across products that it clears, based on the existence of common risk factors in positions in different products and risk factors with proven joint movement. The presence of the same risk factor in positions in different products and assets posted as collateral can give rise to offsets, depending on the signs of the positions and the liquidity of the products and collaterals concerned. Another source of possible risk offsets in the process of calculating customers' margin requirements is joint movement by different risk factors in the portfolio, regardless of the product and collateral from which they derive. The clearinghouse uses scenario modelling to control the selection of risk factors eligible for offsetting by joint movement and the intensity of these offsets.

In the main stages of margin requirement calculation, as described under Key Consideration 3, offsets naturally result from the stage involving simulation of execution of the closeout strategy under different scenarios for the risk factors present in the portfolio (10,000 scenarios), and calculation for each scenario of daily cash flows accumulated on each day of the closeout period.

B3's clearinghouses do not participate in cross-margining programs with other CCPs, so there are no offsets or reductions in margin requirement due to positions settled via other clearinghouses, even if they have risk factors in common.

Key Consideration 6 – *A CCP should analyse and monitor its model performance and overall margin coverage by conducting rigorous daily backtesting – and at least monthly, and more-frequent where appropriate, sensitivity analysis. A CCP should regularly conduct an assessment of the theoretical and empirical properties of its margin model for all products it clears. In conducting sensitivity analysis of the model's coverage, a CCP should take into account a wide range of parameters and assumptions that reflect possible market conditions, including the most-volatile periods that have been experienced by the markets it serves and extreme changes in the correlations between prices.*

Backtesting of B3's margin methodology has two main components: backtesting of scenarios for risk factor returns, and backtesting of portfolio closeout.

Scenario backtesting evaluates the adequacy of the risk factor variations assumed by the scenarios used to calculate margin, taking the factors individually. The current level of protection is compared

to the historical data for factor return. The expected confidence level is at least 99.5% for commodities and 99.96% for other risk factors.

Portfolio closeout backtesting evaluates the margin methodology, especially with regard to its risk offsetting and position closeout assumptions. In brief, assuming the event of customer default, portfolio closeout is simulated, and the amount of margin required from the customer at the moment of default is compared with the total cost of closeout calculated under current market conditions. Insufficient margin requirement to cover the observed cost of closing out any customer's portfolio is considered a "failure" of the model. Only actual portfolios are analysed in these backtests. This is done on a dynamic basis, corresponding to the closeout of positions during the days following the default (in the case of the B3 Clearinghouse, closeout is simulated in accordance with the closeout strategy defined by the CORE methodology).

The Risk Management Department backtests the B3 Clearinghouse's margin model every day, both for risk factor return scenarios and for all customer portfolios. Breaches evidenced by risk factor scenario backtesting may entail changes to the scenarios, while portfolio closeout cost breaches may also entail changes to other parameters or premises of the model. In the past 12 (twelve) months, no potential deficiencies of the margin models have been detected as a result of backtesting.

The results of portfolio backtesting are sent to BCB on a daily basis.

The Risk Management Department conducts monthly sensitivity tests of the clearinghouses' margin models. In the case of the B3 Clearinghouse, the analysis focuses on the model's sensitivity to the following risk parameters: (i) confidence level of stress scenarios, (ii) maximum amount available for use as liquidity resource, (iii) daily liquidity limits, (iv) risk horizon in which the closeout process of positions begins, and (v) number of simultaneous defaults by customers whose cash positions are collateralized by the intermediary. In the case of the B3 Foreign Exchange Clearinghouse, sensitivity to market risk is assessed.

Key Consideration 7 - A CCP should regularly review and validate its margin system.

As noted under Principle 3, Key Consideration 1, and Principle 4, Key Consideration 5, validation of the risk management models is part of the continuous process of evaluation of B3's clearinghouses' risk management structures performed by the Central Counterparty (CCP) Risk Internal Committee. In addition, the model is also submitted to:

- BCB for approval;
- The Risk Analysis Advisory Committee (market participants) for review, whose outcome is reported to Risk Management Department;
- The Governance, Integrated Management and Cyber Security Executive Department for periodic reviews, independently from B3's clearinghouses, and whose results are reported to the Central Counterparty Risk Internal Committee, to the Risks and Finance Committee and to the BCB; and
- Internal and external audits, whose outcomes are reported to the Audit Committee of B3's Board of Directors.

PRINCIPLE 7 – LIQUIDITY RISK

PRINCIPLE 7 – LIQUIDITY RISK: *An FMI should effectively measure, monitor, and manage its liquidity risk. An FMI should maintain sufficient liquid resources in all relevant currencies to effect same-day and, where appropriate, intraday and multiday settlement of payment obligations with a high degree of confidence under a wide range of potential stress scenarios that should include, but not be limited to, the default of the participant and its affiliates that would generate the largest aggregate liquidity obligation for the FMI in extreme but plausible market conditions.*

Key Consideration 1 - *An FMI should have a robust framework to manage its liquidity risks from its participants, settlement banks, nostro agents, custodian banks, liquidity providers, and other entities.*

It is important to note the following with regard to the settlement model used by B3's clearinghouses:

- There is no such figure as a nostro agent;
- The settlement bank for settlement in local currency is the Central Bank of Brazil; and
- Commercial banks are used as settlement banks only for settlement in USD. They are selected by B3's Executive Board on the basis of recommendations by the Central Counterparty (CCP) Risk Internal Committee.

CMN Resolution 4952/21, article 3, states that the SPB must be structured according to principles that guarantee the safety, efficiency, integrity and confiability of the clearinghouses and of the providers of clearing and settlement services that operate in them. In this regard, under the terms of the Law 10214/01, article 8, in the event of a participant default, the clearinghouses must settle the obligations, observing the provisions of the rulebooks and procedures, through (i) the tradition of the assets traded or the transferring of the resources, in the case of financial transactions, and (ii) the delivery of the results of collateral monetization and the use of the mechanisms and safeguards referred to in article 4, paragraph 2 and paragraph 3, when the assets traded or the resources to be transferred are non-existent or insufficient. The liquidity needs of B3's clearinghouses in the settlement process when one or more clearing members default consist of funds in local currency and as well as funds in USD. In the case of the B3 Clearinghouse, however, low settlement volumes associated with "2687 investors" (non-resident investors who trade solely in agricultural markets pursuant to CMN Resolution 2687/00) mean that potential liquidity requirements in USD are irrelevant compared with local-currency requirements.

B3's liquidity management structure comprises (i) the maintenance of safeguards, (ii) the use of specific criteria for the mitigation of liquidity risk in the event of participant default, in the process of monetising collateral and, in the case of the B3 Foreign Exchange Clearinghouse, in the conversion of local currency into USD and vice-versa, (iii) monitoring of the adequacy of the available liquidity resources in the event of default, and (iv) monitoring of external providers of liquidity facilities, clearing members and intermediaries, banks that hold cash collateral, and correspondent banks.

- (i) Safeguards and liquidity criteria:

The rulebooks of B3's clearinghouses require them to establish risk protection and containment mechanisms, especially liquidity assistance facilities and the right to use posted collateral to cover unsettled debtor balances in a timely manner.

To guarantee the liquidity required to discharge obligations in the stipulated timeframe, the clearinghouses have (a) access to BCB's discount window, via B3 Bank (this access is important because more than 82% of the collateral posted to the B3 Clearinghouse and 100% of the collateral posted to the B3 Foreign Exchange Clearinghouse consists of Brazilian government bonds, in 09/29/2023), (b) collateralised and non-collateralised liquidity assistance facilities in local currency and USD, depending on the clearinghouse, provided by top-tier banks in Brazil and abroad under formal bilateral agreements (more information on liquidity assistance facilities can be found under Key Consideration 5), (c) assets deposited as contributions to the settlement fund, (d) B3's resources dedicated to the clearinghouses, and possibly (e) B3's free resources.

- (ii) In addition, the B3 Clearinghouse sets liquidity-based limits on the acceptance of assets as collateral, consisting of a limit on the acceptance of illiquid collateral, limits on the acceptance of stocks, ADRs, BDRs representing shares of stocks, units, and ETFs shares, and a limit for the posting of CDs, LCIs and LCAs with no early redemption clause (see under Principle 5, Key Consideration 1).
- The illiquid collateral acceptance limit is set as a function of the liquid resources available to the clearinghouse for rapid monetisation of such collateral. According to this criterion, the value of each asset posted as collateral by participants or groups of participants is divided into two parts, liquid and illiquid. The liquid portion corresponds to 50% or less of the funds available to the clearinghouse via liquidity assistance facilities collateralised by the asset concerned. The rest is the illiquid portion. Cash collateral in local currency, Brazilian government bonds and bank letters of credit with same-day liquidity are considered wholly liquid regardless of the amount posted as collateral. The sum of the illiquid portions of all the assets posted by a participant must be less than a fraction (50% or less, representing at least two simultaneous defaults) of the funds available to the clearinghouse via other liquidity assistance facilities plus B3's resources dedicated to the clearinghouses. Any amount posted above this limit by the participant in the shape of assets subject to the limit for illiquid collateral is ignored by the clearinghouse, the participant must replace them with collateral classified as liquid according to this criterion. The above fractions of liquid resources are a function of the number of simultaneous defaults used as a premise, so that liquidity funds are adequately spread and can be used to treat all defaults;
 - The limit for acceptance of each share of a stock, ADR, BDR representing shares of a stock, unit, or ETF share is set on the basis of asset liquidity for the total amount deposited in the form of the asset concerned by the same customer or group of customers; and
 - The limit for acceptance of CDs, LCIs and LCAs with no early redemption clause limits the posting of collateral by a participant or group of participants in the form of assets that are less liquid for lack of an early redemption clause.

The B3 Foreign Exchange Clearinghouse in turn sets trading limits for its participants as ceilings for their positions on each settlement date (T+0, T+1 and T+2) in order to limit its exposure in the currency conversion process to the amount established in its agreements to buy and sell USD (for additional information regarding operating limits and collateral constitution, please refer to Key Consideration 2, Principle 4 – Credit Risk).

(iii) Monitoring of available liquidity resources:

To monitor the adequacy of the available liquidity, Risk Management Department (a) performs a daily check of the sufficiency of liquidity resources available to cover simultaneous defaults of the clearing members with the N largest debtor balances in the day's settlement window, excluding the lines provided by the hypothetically defaulting clearing members (liquidity backtesting) – see under Key Consideration 9, (b) checks participant compliance with the collateral acceptance limits daily, denying the posting of assets or requiring participants to replace assets that violate the limits, and (c) monitors intraday information on B3's resources, the use of liquidity assistance facilities, and the margin calls to be covered in cash during the multilateral settlement window.

(iv) Monitoring of participants, providers of liquidity facilities and other external entities:

The Central Counterparty (CCP) Risk Internal Committee periodically assesses participant credit quality, including liquidity aspects. The same applies to the banks that provide liquidity and the banks with which collateral is deposited in local currency and USD. With regard to custodians that hold other collateral posted by participants, it should be stressed that B3 is the custodian of its clearinghouses' accounts with the B3 Central Depository, OTC B3, SELIC, Euroclear, and DTCC.

B3 sends BCB a complete report on the existing liquidity assistance facilities each month.

Key Consideration 2 - *An FMI should have effective operational and analytical tools to identify, measure, and monitor its settlement and funding flows on an ongoing and timely basis, including its use of intraday liquidity.*

Through their systems B3's clearinghouses calculate settlement obligations, including collateral requirements, for all participants, at all levels (customers, intermediaries and clearing members), and monitor settlement and financial flows in real time.

Financial flows are monitored:

- By the Settlement Department using (i) the "Settlement Pilot" in the case of local-currency settlement flows, via BCB's STR, and (ii) the "Dollar Pilot" in the case of USD flows, including in both cases the flows deriving from the use of intraday liquidity via B3's resources dedicated to the clearinghouses and non-collateralised lines;
- By the Risk Management Department using the collateral management system in the case of financial flows relating to the posting and withdrawal of cash collateral and collateral monetisation; and

- Jointly by both departments in the case of flows relating to collateral that involves the STR or correspondent banks abroad, and when they involve the use of collateralised liquidity facilities.

The Risk Management Department also monitors liquidity via intraday reports containing information on the availability of the systems operated by the banks that provide liquidity, the amounts available from liquidity assistance facilities, the expected volume of margin calls to be covered in cash by clearing members in the multilateral settlement window, the results of liquidity testing, and the values of the various components of B3's total resources.

The deployment of liquid resources depends largely on the analysis of the default event that creates the need for liquidity.

Key Consideration 3 - *A payment system or SSS, including one employing a DNS mechanism, should maintain sufficient liquid resources in all relevant currencies to effect same-day settlement, and where appropriate intraday or multiday settlement, of payment obligations with a high degree of confidence under a wide range of potential stress scenarios that should include, but not be limited to, the default of the participant and its affiliates that would generate the largest aggregate payment obligation in extreme but plausible market conditions.*

See under Key Consideration 4.

Key Consideration 4 - *A CCP should maintain sufficient liquid resources in all relevant currencies to settle securities-related payments, make required variation margin payments, and meet other payment obligations on time with a high degree of confidence under a wide range of potential stress scenarios that should include, but not be limited to, the default of the participant and its affiliates that would generate the largest aggregate payment obligation to the CCP in extreme but plausible market conditions. In addition, a CCP that is involved in activities with a more-complex risk profile or that is systemically important in multiple jurisdictions should consider maintaining additional liquidity resources sufficient to cover a wider range of potential stress scenarios that should include, but not be limited to, the default of the two participants and their affiliates that would generate the largest aggregate payment obligation to the CCP in extreme but plausible market conditions.*

As noted under Key Consideration 1, the liquid resources available to the clearinghouses, in the currencies pertinent to each one, to assure the fulfilment of their payment obligations within the timeframe established for the daily settlement windows are sufficient to cover at least (i) default by the two clearing members that owe the largest settlement amounts in B3 Clearinghouse (Cover 2), and (ii) default by the clearing member that owes the largest settlement amount in the B3 Foreign Exchange Clearinghouse (Cover 1).

The adequacy of the liquidity resources to the requirements of B3's clearinghouses is verified daily using a liquidity stress test (see under Key Consideration 9). In this context, liquid resources mean the funds provided by liquidity assistance facilities from banks and B3's resources dedicated to the

clearinghouses, as well as the use of assets deposited as contributions to the settlement fund and the clearinghouses' indirect access via B3 Bank to BCB's discount window for rapid monetisation of Brazilian government bonds, an important mechanism for access to liquidity in situations of stress.

The liquidity stress test scenario is the failure to access a liquidity assistance mechanism (the participant that failed to settle may be the liquidity provider of the mechanism in question), to cover the deficit arising from the failure of payment by one participant and those belonging to the same financial group/conglomerate.

Furthermore:

- B3's resources dedicated to the clearinghouses is established and periodically reviewed by the Board of Directors on the basis of the Risk and Financial Committee's analysis and recommendations, and must comply with B3's Financial Investment Policy, consisting therefore of Brazilian government bonds and funds that invest only in such bonds, with immediate liquidity;
- The limit for acceptance of illiquid collateral in the B3 Clearinghouse is a function of the available liquidity resources (a control that is unnecessary in the B3 Foreign Exchange Clearinghouse which accepts only collateral in local currency, USD, and highly liquid Brazilian government bonds);
- By controlling their trading limits, the B3 Foreign Exchange Clearinghouse does not allow participants to hold positions exceeding the total amount of liquidity resources provided under agreements to buy and sell USD. In the event of a limit violation, collateral is required from the participant, preferably in the currency in which it is the debtor (USD, in the case of a selling position, and BRL, in the case of a buying position);
- The adequacy of the amount of liquid resources available to each of the clearinghouses is monitored daily by Risk Management Department through liquidity backtesting reports showing whether these resources would be sufficient in the event of simultaneous default by clearing members; and
- Collateral posted by participants consists mostly of (more than 82% of the total in the case of B3 Clearinghouse, and 100% in the case of B3 Foreign Exchange Clearinghouse, in 09/29/2023) highly liquid Brazilian government bonds, and margin requirements are calculated at the customer level using methodologies based on stress testing and with a confidence level of at least 99.5% for commodities and 99.96% for other risk factors.

Given the controls implemented by B3, including the allocation and sizing of its resources dedicated to the clearinghouses, and in accordance with the independent assessment performed by the Governance, Integrated Management and Cyber Security Executive Department, the stress tests show that there is no liquidity deficit.

Key Consideration 5 - *For the purpose of meeting its minimum liquid resource requirement, an FMI's qualifying liquid resources in each currency include cash at the central bank of issue and at creditworthy commercial banks, committed lines of credit, committed foreign exchange swaps, and*

committed repos, as well as highly marketable collateral held in custody and investments that are readily available and convertible into cash with prearranged and highly reliable funding arrangements, even in extreme but plausible market conditions. If an FMI has access to routine credit at the central bank of issue, the FMI may count such access as part of the minimum requirement to the extent it has collateral that is eligible for pledging to (or for conducting other appropriate forms of transactions with) the relevant central bank. All such resources should be available when needed.

As noted under Key Consideration 1, the liquid resources available to B3's clearinghouses to cover its liquidity requirements consist of:

- Funds obtained via liquidity assistance facilities from top-tier banks;
- Funds obtained via liquidity assistance facilities from the B3 Bank;
- B3's resources dedicated to the clearinghouses;
- Assets deposited as contributions to the settlement fund; and
- B3's free resources (defined at the sole discretion of B3's Board of Directors).

Funds obtained via liquidity assistance facilities from top-tier banks

The liquidity assistance facilities are formalised in bilateral agreements that specify the amount of funding to be supplied by the bank, the assets accepted as collateral and the corresponding haircuts (where applicable), the times at which the bank must make the funds available, repayment periods, and the costs involved.

The commercial banks that supply liquidity (i) are among the ten largest banks in Brazil in terms of net assets according to the rank order provided by BCB, (ii) have access to BCB's discount window, (iii) have on average cash equivalents at amounts significantly higher than the liquidity to be supplied to B3 under the aforementioned agreements, and (iv) are rated by internationally recognized rating agencies, such as Moody's and Standard & Poor's, whose national scale ratings are made public.

Indirect access to BCB's discount window via B3 Bank

The liquidity assistance facilities from the B3 Bank provide the clearinghouses with indirect access to BCB's discount window for monetisation of Brazilian government bonds (posted as collateral by participants and B3's own Brazilian government bonds). Thus, the clearinghouses' liquidity requirements, including in the event of consecutive default by participants, are met as long as there is collateral in the shape of Brazilian government bonds.

B3's resources dedicated to the clearinghouses

The availability of resources dedicated to the clearinghouses is assured by B3's Financial Investment Policy. The policy's main guidelines are assuring the maintenance of an adequate level of liquidity, preserving capital, and assuring the sustainability of B3's business activities. According to the policy, B3's investment of its own resources must comply with allocation limits relating to: (i) the type of asset (100% in Brazilian government bonds, Brazilian government bond repos, and investment funds with same-day redemption that hold in portfolio only such bonds and repos, and have as managers,

administrators and custodians only institutions authorised by the policy (basically institutions with high credit ratings)), (ii) the type of return (at least 70% floating rate and at most 30% fixed-rate or inflation return, in Brazil), and (iii) liquidity (at least 70% with immediate liquidity - i.e. same-day redemption - and at most 30% with liquidity between 1 and 5 business days in Brazil). B3's Financial Investment Policy also establishes allocation limits for the investment of B3's own resources abroad with regards to (i) the type of asset (at least 85% in demand deposits, interest-bearing or non-interest-bearing, and a maximum of 15% in sovereign bonds of authorized sovereign issuers), (ii) the type of return (at least 85% linked to floating-rate return, and a maximum of 15% linked to fixed-rate return, inflation return or exchange rate return), and (iii) liquidity (at least 90% with immediate liquidity - i.e. same day redemption - and at most 10% with liquidity between 1 and 90 business days). The Financial, Administration and Investors Relations Executive Officer is responsible for compliance with the policy and the B3's Board of Directors for approving any changes thereto.

Assets deposited as contributions to the settlement fund

In the case of the B3 Foreign Exchange Clearinghouse, such assets are the Brazilian government bonds deposited by clearing members and by B3 as contributions to this clearinghouse's settlement fund.

In the case of the B3 Clearinghouse, they are those deposited in the form of shares in the FILCB (Fundo de Investimento Liquidez Câmara B3) as contributions to the settlement fund.

The FILCB is formally constituted as an investment fund, and is administered, managed and custodied by the B3 Bank. It comprises contributions by B3 (B3's contribution to the settlement fund) and participants (clearing members', full trading participants' and settlement participants' contributions to the settlement fund). Its purpose is to provide the clearinghouse with liquidity, which is achieved by means of loans of Brazilian government bonds from the fund to the clearinghouse, upon collateral posting in favour of the fund (such collateral consists of assets settled by the clearinghouse or eligible assets to be accepted from participants). The government bonds borrowed by the clearinghouse are used, via the intermediation of B3 Bank, in rediscount transactions with BCB, obtaining the necessary liquidity.

B3's free resources

The portion of B3's resources not dedicated to specific activities and subject to B3's Financial Investment Policy.

Key Consideration 6 - *An FMI may supplement its qualifying liquid resources with other forms of liquid resources. If the FMI does so, then these liquid resources should be in the form of assets that are likely to be saleable or acceptable as collateral for lines of credit, swaps, or repos on an ad hoc basis following a default, even if this cannot be reliably prearranged or guaranteed in extreme market conditions. Even if an FMI does not have access to routine central bank credit, it should still take account of what collateral is typically accepted by the relevant central bank, as such assets may be more likely to be liquid in stressed circumstances. An FMI should not assume the availability of emergency central bank credit as a part of its liquidity plan.*

There are no supplementary liquid resources besides those mentioned under previous Key Considerations. The clearinghouses do not have liquidity supplied by participants via rule-based arrangements.

Key Consideration 7 - *An FMI should obtain a high degree of confidence, through rigorous due diligence, that each provider of its minimum required qualifying liquid resources, whether a participant of the FMI or an external party, has sufficient information to understand and to manage its associated liquidity risks, and that it has the capacity to perform as required under its commitment. Where relevant to assessing a liquidity provider's performance reliability with respect to a particular currency, a liquidity provider's potential access to credit from the central bank of issue may be taken into account. An FMI should regularly test its procedures for accessing its liquid resources at a liquidity provider.*

The providers of liquidity to B3's clearinghouses are:

- BCB, via B3 Bank (local-currency liquidity assistance facilities and FILCB);
- B3 (resources dedicated to the clearinghouses and free resources); and
- Commercial banks (local-currency and USD liquidity assistance facilities).

The commercial banks are selected to be liquidity providers among top-tier banks based on their reputation and credit ratings from independent agencies. They are subject to a credit quality review by the Central Counterparty (CCP) Risk Internal Committee, periodically or whenever the committee deems necessary. The committee's review uses an analysis of each bank's financial health produced by the credit risk division of the Risk Management Department. This analysis takes into account, among other things, data from financial statements (liquidity, loans, asset quality, leverage, delinquencies, earnings) obtained from disclosures to B3 with the same level of detail as disclosures to BCB ("level 8", higher than disclosures to the market); market indicators, if available (bond yields, price to book, price to earnings, market cap, credit default swaps spreads); and information disclosed by rating agencies. It also appraises each bank's business model and strategy, management expertise and experience, and information about its parent if it is a subsidiary of a foreign bank.

The Risk Management Department and Settlement Department work with the banks that supply liquidity facilities to perform monthly tests to assure timely use of the facilities (checking the right staff will be contacted at each bank, for example, and that they are cognizant of the procedures and know how to implement them, as well as making sure the timing specified in the agreement, if any, will be complied with). The tests are conducted in rotation by different professionals in B3's collateral management and settlement teams so that all staff are prepared to carry out the requisite operational procedures in the event of an actual need to use the liquidity facilities. The results are reported to the Central Counterparty (CCP) Risk Internal Committee. The use of liquidity mechanisms is also included in the annual testing of delivery failure management procedures (default scenario simulation of one or more clearing members).

The institutions that supply liquidity to B3's clearinghouses are fully cognisant of B3's business activities: BCB is a regulator, and the commercial banks are participants.

Key Consideration 8 - *An FMI with access to central bank accounts, payment services, or securities services should use these services, where practical, to enhance its management of liquidity risk.*

In accordance with the applicable legal framework in Brazil, only financial institutions such as banks but not clearinghouses have full access to BCB's services:

- B3's clearinghouses have direct access to BCB with regard to their settlement accounts, which receive payments in local currency (BRL) made by debtor clearing members and perform transfers in local currency from the clearinghouses to creditor clearing members. Such transfers are effected in bank reserves via the STR; and
- With regard to liquidity risk management in the collateral monetisation process, B3's clearinghouses have:
 - indirect access to BCB's discount window via B3 Bank for monetisation of Brazilian government bonds;
 - a liquidity provision mechanism via lending of government bonds from the *Fundo de Investimento Liquidez Câmara B3* (FILCB); and
 - direct access to BCB/SELIC, with their own custody accounts to hold the Brazilian government bonds posted as collateral; transfer of these depends exclusively on instructions from the clearinghouses, with no need for third-party involvement.

With regard to settlement in USD, B3 does not have direct access to the FRB's settlement system. Settlement in USD is processed via commercial banks located in New York, which have access to the Fed's discount window. Use of the Fed's services to process settlement in USD is not feasible owing to the difficulty of implementing this model, especially in light of the economic and financial prerequisites applicable in the United States.

Key Consideration 9 - *An FMI should determine the amount and regularly test the sufficiency of its liquid resources through rigorous stress testing. An FMI should have clear procedures to report the results of its stress tests to appropriate decision makers at the FMI and to use these results to evaluate the adequacy of and adjust its liquidity risk-management framework. In conducting stress testing, an FMI should consider a wide range of relevant scenarios. Scenarios should include relevant peak historic price volatilities, shifts in other market factors such as price determinants and yield curves, multiple defaults over various time horizons, simultaneous pressures in funding and asset markets, and a spectrum of forward-looking stress scenarios in a variety of extreme but plausible market conditions. Scenarios should also take into account the design and operation of the FMI, include all entities that might pose material liquidity risks to the FMI (such as settlement banks, nostro agents, custodian banks, liquidity providers, and linked FMIs), and where appropriate, cover*

a multiday period. In all cases, an FMI should document its supporting rationale for, and should have appropriate governance arrangements relating to the amount and form of total liquid resources it maintains.

Margin requirement at the final customer level is calculated daily using a stress testing methodology. In the case of the B3 Clearinghouse, collateral and positions are treated together for the purposes of calculating customer margin requirements, and shocks are applied to collateral using the same scenarios (for variations in primitive risk factors) as those used to evaluate positions. In addition, the collateral posted by each participant is subject to limits based on the volume of liquidity resources available. Liquidity risk is therefore supported by the clearinghouses and participants (via the collateral they post).

The daily analysis of the sufficiency of liquidity resources performed by the Risk Management Department is also based on stress testing with scenarios for simultaneous defaults.

Liquidity stress test

The liquidity stress test performed by Risk Management Department uses six scenarios, described in detail below. For each of these scenarios the test measures the largest liquidity requirement deriving from simultaneous default by two debtor clearing members and reduced by use of the liquidity resources available to the clearinghouse. After evaluation of the six scenarios, the largest remaining liquidity requirement is selected. The liquidity resources available to the clearinghouse are considered sufficient if there is no remaining liquidity requirement after their use. The liquidity resources available to the clearinghouse are as follows:

- Non-collateralised liquidity facilities provided by top-tier Brazilian banks: facilities provided by the clearing members assumed to be in default under the liquidity stress scenario concerned are not considered;
- Collateral posted by the customers involved in the settlement failure: the test conservatively ignores surplus collateral and considers only highly liquid assets posted as collateral (cash in local currency, and Brazilian government bonds convertible into cash almost instantly via access to BCB's discount window through B3 Bank – regular access tests indicate monetisation in 15 minutes).
- The B3 Foreign Exchange Clearinghouse's settlement fund, which consists entirely of Brazilian government bonds. B3's contribution to the fund represents approximately 50% of the total (this contribution must be at least equal to the total required from clearing members, as established in the clearinghouse's rulebook);
- B3 Clearinghouse's settlement fund, which consists entirely of FILCB shares deposited by B3 and by clearing members, full trading participants and settlement participants. FILCB shares are the only assets eligible to be deposited for this purpose in the B3 Clearinghouse's safeguard structure. B3's contribution is fixed and equivalent to R\$ 1.447 billion (11/30/2023). Participants each contribute between R\$ 2.5 million and R\$ 23.8 million according to their individual risk band, pursuant to the B3 Access Manual; and

- B3's resources dedicated to the clearinghouses, consisting of Brazilian government bonds.

Scenarios

The liquidity stress test is performed on the morning of the same-day settlement cycle. The scenarios assume default by two clearing members and vary in two dimensions – settlement cycle and use of customer collateral – as described below.

1. Settlement cycle

Each scenario evaluates a specific settlement cycle:

- Cash settlement of real obligations due on T+0;
- Cash settlement of simulated obligations due on T+1; and
- Cash settlement of simulated obligations due on T+2.

Financial obligations of customers, intermediaries and clearing members are considered. Obligations due on T+1 and T+2 are simulated using the CORE methodology, considering market risk scenarios with higher severity than the scenarios used to calculate margin requirement.

2. Rule for selecting customers whose collateral is used by the B3 Clearinghouse

The B3 Clearinghouse establishes the following rule for selecting customers whose collateral can be used by the clearinghouse:

- If the defaulting clearing member identifies defaulting customers, only these customers' collateral may be used; and
- If the defaulting clearing member does not identify defaulting customers, the collateral of all debtor customers under the clearing member can be used up to the limit of their respective obligations.

The following table summarises the 6 (six) scenarios.

Scenario	Settlement date	Financial obligation to clearinghouse	Rule for selecting customers
1	T+0	Actual	A
2	T+0	Actual	B
3	T+1	Simulated via CORE	A
4	T+1	Simulated via CORE	B
5	T+2	Simulated via CORE	A
6	T+2	Simulated via CORE	B

Simulation of future cash settlement using CORE methodology

The CORE methodology (used to calculate customer margin requirement) considers multiple risk horizons, from 1 to 10 days, and calculates margin requirement as the worst accumulated cash flow resulting from position and collateral closeout, evaluated from the first to the tenth risk horizon,

assuming the closeout process occurs in an orderly manner (the methodology set a ceiling on the positions and collateral that can be settled daily without affecting market prices). Thus, margin requirement considers (i) market risk, (ii) liquidity risk, and (iii) cash flow risk.

Because transactions to close out positions and collateral are considered on a daily basis in the closeout horizon, the CORE methodology uses ten-day price trajectories for risk factors called market risk scenarios and defined in terms of three different but complementary generation strategies: (i) historical simulation, (ii) simulation using quantitative models, and (iii) a choice of prospective scenarios. The CORE methodology measures the liquidity of customer positions and collateral during the closeout process, so it runs the liquidity stress test on every customer.

All analyses take into account the clearinghouses' settlement structures (deferred net settlement, T+1 settlement for derivatives, T+0, T+1 or T+2 for FX transactions, T+2 for equities, settlement windows, rules for investment and return of cash collateral, collateral execution procedures). In the case of B3 Clearinghouse, for example, payments by debtor clearing members to the clearinghouse must occur between 2:10 pm and 2:50 pm, and payment by the clearinghouse to creditor clearing members must occur at 3:50 pm – the clearinghouse must obtain the necessary funds in this 60 (sixty) minute period even in the event of default by a debtor clearing member.

In the case of B3 Foreign Exchange Clearinghouse, in the event of non-compliance with the deadline established for the payment of domestic currency or for the delivery of foreign currency by the participant, the clearinghouse activates the failure handling mechanisms.

Failure to pay local currency or delivery of foreign currency results in charging a fine, levied on the defaulting participant, as provided for in the clearinghouse operating procedures manual.

With regard to collateral return, surplus collateral is returned on request by the participant and in the same asset type. Thus, only cash collateral is returned in cash: cash collateral corresponded on September 29, 2023, to about 0.60% (R\$ 3.2 billions) of the total collateral posted to the B3 Clearinghouse. On the same date, no collateral was posted by participants of the B3 Foreign Exchange Clearinghouse in this form. B3 can invest cash collateral, provided this is done in compliance with the restrictions established in the Financial Investment Policy (basically the same as those applicable to the investment of B3's own resources).

The sizing of B3's resources earmarked for the clearinghouses, also the basis for evaluating the sufficiency of the collateral posted by participants, including the settlement funds, is also derived from stress testing, with (i) risk factor variation scenarios that are more severe than those used to calculate margin requirement, and (ii) multiple default scenarios. All decisions on the subject are duly recorded and supporting documents archived.

The amounts and forms of the liquidity assistance agreements are defined by the B3's Executive Board, after consulting the Central Counterparty (CCP) Risk Internal Committee. The results of the test to trigger and use liquidity facilities are reported to these committees.

Finally, as noted under Principle 3, validation of the clearinghouses' risk management model is part of a continuous process of evaluation by the Central Counterparty (CCP) Risk Internal Committee, and the model is subject to authorisation by BCB, review by the Risk Analysis Advisory Committee, and

periodic review by the Governance, Integrated Management and Cyber Security Executive Department and external auditors.

Key Consideration 10 - *An FMI should establish explicit rules and procedures that enable the FMI to effect same-day and, where appropriate, intraday and multiday settlement of payment obligations on time following any individual or combined default among its participants. These rules and procedures should address unforeseen and potentially uncovered liquidity shortfalls and should aim to avoid unwinding, revoking, or delaying the same-day settlement of payment obligations. These rules and procedures should also indicate the FMI's process to replenish any liquidity resources it may employ during a stress event, so that it can continue to operate in a safe and sound manner.*

Law 10214/01 and BCB Resolution 304/23 establish the clearinghouses' obligations in the event of participant default, including the creation of adequate mechanisms and safeguards to assure the settlement of transactions, such as contracting for liquidity assistance facilities.

The clearinghouse rulebooks state that B3 is required to establish risk protection and containment mechanisms, especially liquidity assistance facilities, and that it is entitled to use posted collateral to cover debtor balances in a timely manner.

The clearinghouses have fully documented procedures for the use of collateral and liquidity assistance facilities, including the return of funds obtained by such means, which must occur as quickly as possible.

- In the case of non-collateralised facilities and B3's resources dedicated to the clearinghouses, funds are returned by executing or monetising the collateral posted by the defaulting participant;
- In the case of collateralised liquidity assistance facilities (Brazilian government bond repos), resources can be returned in cash (if the default was operational and the defaulting participant effected late payment) or as the same collateral (i.e., the collateral posted by the defaulting participant); and
- In the case of use of the FILCB (B3 Clearinghouse), funds can be returned to the FILCB in the form of the borrowed government bonds or by executing the collateral given to the FILCB when the lending transaction was performed (assets settled by the clearinghouse or accepted by it as collateral).

Once the above measures have been completed by the clearinghouse, the resources available to it return to the original amounts.

In the case of contracts to buy and sell USD (B3 Foreign Exchange Clearinghouse), the clearinghouse must deliver BRL or USD to complete the transaction and uses the defaulting participant's rights and collateral for this purpose. Currency delivered to the clearinghouse as part of a transaction to buy or sell USD is not refunded.

PRINCIPLE 8 – SETTLEMENT FINALITY

PRINCIPLE 8 – SETTLEMENT FINALITY: *An FMI should provide clear and certain final settlement, at a minimum by the end of the value date. Where necessary or preferable, an FMI should provide final settlement intraday or in real time.*

Key Consideration 1 - *An FMI's rules and procedures should clearly define the point at which settlement is final.*

The rulebooks of B3's clearinghouses and OTC explicitly state that settlement of a payment, transfer instruction or other obligation is irrevocable and unconditional when processed by the clearinghouse concerned. See article 12 of the B3 Clearinghouse Rules, article 19 of the B3 Foreign Exchange Clearinghouse Rulebook and article 176 of the Norms of Registration, Centralized Deposit and OTC Clearing and Settlement Subsystems Manual.

Brazil is the most relevant jurisdiction for the settlement activities conducted by B3's clearinghouses. The applicable legal and regulatory framework is embodied above all in Law 10214/01, CMN Resolution 4952/21 and BCB Resolution 304/23.

- Article 116 of the BCB Resolution 304/23 states that in systemically important systems (such as B3's clearinghouses), cash settlement of the net obligations resulting from accepted transactions must occur directly in BCB;
- The definition of "definitive event" as described in article 2, item XXVII of the BCB Resolution 304/23 establishes rules for the payment system of which B3's clearinghouses are part, particularly the irrevocable and unconditional settlement of obligations;
- CMN Resolution 4952/21, article 4, establishes that, without prejudice to the legal and regulatory rules applicable within the scope of the SPB, the BCB and the CVM, in their areas of competence, will use the PFMI originally published by the CPSS/BIS and the TC/IOSCO, in the regulation, monitoring and evaluation of safety and efficiency of clearinghouses and providers of clearing and settlement services; and
- Law 10214/01, article 4, states that with regard to clearing members, clearinghouses recognise the full discharge of obligations when they receive BCB's confirmation that the corresponding settlement accounts have been credited with the requisite amounts.

Settlement in local currency between B3's clearinghouses and clearing members takes place via STR, which is the LVPS in Brazil relevant for B3's clearinghouses. According to the STR's rules (attached to BCB Resolution 105/21), settlement of an order to transfer funds is irrevocable and unconditional once performed. An order to transfer funds is considered settled at the moment when the balances in the accounts involved are altered in BCB's records to reflect the transfer.

The operating of the settlement and clearing activities of financial assets and derivatives with no CCP are described at the OTC B3 rules, which provides that financial settlement occurs in the STR, so that financial resources are fully transferred between the parties.

Key Consideration 2 - *An FMI should complete final settlement no later than the end of the value date, and preferably intraday or in real time, to reduce settlement risk. An LVPS or SSS should consider adopting RTGS or multiple-batch processing during the settlement day.*

As aforementioned in the previous key consideration, CVM Resolution 4952/21, article 4, establishes that “without prejudice to the legal and regulatory rules applicable within the of the SPB, the BCB and the CVM, in their areas of competence, will use the PFMI originally published by the CPSS/BIS and the TC/IOSCO, in the regulation, monitoring and evaluation of safety and efficiency of clearinghouses and providers of clearing and settlement services”. In this sense, B3’s clearinghouses and OTC Clearing and Settlement Subsystem are structured to conclude the settlement finality within the day for which it was stipulated.

Besides the fixed-income transactions that can be performed for same-day settlement via the B3 Clearinghouse and the OTC Clearing and Settlement Subsystem, the B3 Foreign Exchange Clearinghouse provides intraday settlement, for transactions registered for same-day settlement, processing only one settlement batch each day. See the B3 Foreign Exchange Clearinghouse Rulebook, Chapter VIII – *Settlement*, Section II – *Settlement Sessions*; and the B3 Foreign Exchange Clearinghouse Operating Manual, Chapter 14 – *Foreign Exchange Transaction Settlement*.

B3’s clearinghouses have never experienced deferral of final settlement not provided for in their rules.

Key Consideration 3 - *An FMI should clearly define the point after which unsettled payments, transfer instructions, or other obligations may not be revoked by a participant.*

There is no possibility for participants to cancel or revoke instructions or obligations accepted for settlement by B3’s clearinghouses and OTC B3, as evidenced by their rules and other normative documents.

Furthermore, according to the clearinghouses and OTC B3 rules, failure to effect a payment determined by a clearinghouse characterises default by the participant concerned.

PRINCIPLE 9 – MONEY SETTLEMENTS

PRINCIPLE 9 – MONEY SETTLEMENTS: *An FMI should conduct its money settlements in central bank money where practical and available. If central bank money is not used, an FMI should minimise and strictly control the credit and liquidity risk arising from the use of commercial bank money.*

Key Consideration 1 - *An FMI should conduct its money settlements in central bank money, where practical and available, to avoid credit and liquidity risks.*

Settlement in local currency

BCB considers B3's clearinghouses systemically important. As a result, according to BCB Resolution 304/23, money settlement of the net balance of transactions accepted by the clearinghouses must be effected directly in BCB.

Transfers of funds in local currency (BRL) between clearing members and B3's clearinghouses for the settlement of obligations are therefore made in bank reserves via the STR.

Settlement via a "special settlement account" (CEL) is also offered by the B3 Clearinghouse to investors accredited for the purpose, as an alternative to multilateral settlement via clearing members. In this settlement method, the customer's obligations and rights are settled via the account held in the customer's name with the B3 Bank, without the participation of the brokerage house or clearing member responsible for the customer: if the customer is a debtor, the customer transfers funds to this account; if the customer is a creditor, the customer receives funds in this account from the B3 Bank. Settlement via a CEL account also takes the form of transfers of bank reserves via the STR: (i) funds received from customers by the B3 Bank are transferred by the latter to the clearinghouse via the STR, and (ii) funds owed to investors are transferred to the B3 Bank via the STR. The timeline for settlement via CEL is contained in the window for multilateral settlement by clearing members (via the STR), so that in the event of a CEL account settlement failure the obligations of the customer concerned are transferred to the relevant clearing member and brokerage house.

B3 Clearinghouse offers the possibility of settlement through "participant special settlement account" (CELP). CELP is a special account maintained and managed by B3 Bank, with characteristics of a deposit account, held by the full trading participant or settlement participant, through which the financial settlement of the rights and obligations of the full trading participant or settlement participant exclusively takes place directly with the B3 Clearinghouse, in a segregated manner from the cash settlement flow of the responsible clearing member if identified, by the B3 Clearinghouse, at its sole discretion, an operational situation, regarding the clearing member liquidity or credit, that prevents, or entails a reasonable probability of preventing, settlement of the multilateral net balance in national currency between the full trading participant or settlement participant and the clearing member, or between the clearing member and the B3 Clearinghouse. Segregation between the full trading participants or settlement participants settlement amounts and the responsible clearing member financial flow of funds resulting from use of the CELP does not alter participants' rights and obligations.

Regarding OTC B3, in addition to the multilateral clearing settlement modality, the bilateral clearing settlement modality is available, for derivatives with no CCP, and by gross transfer, in real time, for financial assets and derivatives with no CCP. Both forms of settlement of OTC B3 Settlement and Clearing Subsystem occur through STR managed by the BCB.

Settlement in USD

Settlement in USD performed by the B3 Clearinghouse and the B3 Foreign Exchange Clearinghouse is not made in bank reserves via the Federal Reserve because this would not be feasible, owing mainly to the difficulty of complying with the economic and financial requirements applicable in the United States.

Key Consideration 2 - *If central bank money is not used, an FMI should conduct its money settlements using a settlement asset with little or no credit or liquidity risk.*

For settlement in USD, B3's clearinghouses use commercial banks located in New York, named as "correspondent banks" (Citibank in the case of the B3 Clearinghouse, Bank of America Merrill Lynch, Citibank, JP Morgan Chase and Standard Chartered in the case of the B3 Foreign Exchange Clearinghouse).

It should be noted that at the end of each day no balances remain in the clearinghouses' accounts with the correspondent banks, since the funds deposited in them by debtor participants are transferred to creditors on the same day they are received by the clearinghouse, except the balance maintained due to collateral posted in USD by participants (B3 Foreign Exchange Clearinghouse) and "2687 customers" (B3 Clearinghouse).

Key Consideration 3 - *If an FMI settles in commercial bank money, it should monitor, manage, and limit its credit and liquidity risks arising from the commercial settlement banks. In particular, an FMI should establish and monitor adherence to strict criteria for its settlement banks that take account of, among other things, their regulation and supervision, creditworthiness, capitalisation, access to liquidity, and operational reliability. An FMI should also monitor and manage the concentration of credit and liquidity exposures to its commercial settlement banks.*

The B3 Foreign Exchange Clearinghouse and B3 Clearinghouse's "2687 customers" (see under Principle 1, Key Consideration 1) use commercial banks for settlement. These institutions are top-tier banks selected by B3's Executive Board on the basis of recommendations by the Central Counterparty (CCP) Risk Internal Committee.

This committee evaluates the institutions regularly. Its analysis is based on reputation, balance sheet, credit ratings awarded by independent agencies, credit risk implicit in debt securities issued and credit derivatives, stock price, and operational efficiency.

B3 currently does not directly impose on its clearinghouses' correspondent banks any restrictions designed to limit the risks deriving from these banks' participation in the settlement process,

although it can do so at any time and at its sole discretion. However, the B3 Foreign Exchange Clearinghouse does set buy and sell limits for each participant, which indirectly limit the risks deriving from the involvement of commercial banks in the settlement process.

As noted above, at the end of each day no balances remain in B3's clearinghouses' accounts with the correspondent banks resulting from the settlement process, except the balance maintained due to collateral posted in USD by participants (B3 Foreign Exchange Clearinghouse) and "2687 customers" (B3 Clearinghouse).

Key Consideration 4 - *If an FMI conducts money settlements on its own books, it should minimise and strictly control its credit and liquidity risks.*

B3's clearinghouses do not conduct money settlement on their own books.

Key Consideration 5 - *An FMI's legal agreements with any settlement banks should state clearly when transfers on the books of individual settlement banks are expected to occur, that transfers are to be final when effected, and that funds received should be transferable as soon as possible, at a minimum by the end of the day and ideally intraday, in order to enable the FMI and its participants to manage credit and liquidity risks.*

Transfers of USD between B3's correspondent banks and those of B3's clearinghouse participants are performed via Fedwire or book transfer, so that transfers to B3's accounts with its correspondent banks are final and irrevocable when effected, and funds are transferable intraday once received.

PRINCIPLE 10 – PHYSICAL DELIVERIES

PRINCIPLE 10 – PHYSICAL DELIVERIES: *An FMI should clearly state its obligations with respect to the delivery of physical instruments or commodities and should identify, monitor, and manage the risks associated with such physical deliveries.*

Key Consideration 1 - *An FMI's rules should clearly state its obligations with respect to the delivery of physical instruments or commodities.*

The B3 Clearinghouse conducts settlement by physical delivery only for coffee futures, corn price basis contract futures, anhydrous fuel ethanol futures and spot gold. Its obligations and responsibilities with respect to settlement by physical delivery are set out in the specifications of these contracts, and in the Rulebook, Operating Procedures Manual and Risk Management Manual.

Key Consideration 2 - *An FMI should identify, monitor, and manage the risks and costs associated with the storage and delivery of physical instruments or commodities.*

Commodities to be physically delivered under the aegis of the B3 Clearinghouse must be stored/deposited in depository institutions registered by B3. Registration entails compliance with a set of financial, functional, operational, legal and tax requirements. The requirements and obligations are stipulated in the B3 Access Manual. Compliance with them is monitored by B3's Participant and Investors Registration Department, by Central Counterparty Risk Management Department and by BSM.

The procedures, processes and controls adopted by the clearinghouse to identify, monitor, and manage the risks and costs associated with the storage, deposit and delivery of commodities include registration of depository institutions and verifying compliance with the requirements mentioned above. From time-to-time depository institutions send B3 updated information on financial and insurance matters.

Intermediaries and clearing members are subject to audits that verify whether their systems and resources are capable of assuring compliance with the requirements and obligations relating to physical delivery.

B3's Commodities Certification division is responsible for inspecting depositories and checking storage and deposit conditions. In the case of the products that B3 is responsible for certification, routine inspections of depository establishments and certified lots are performed by the above division. For other products, the quality and quantity of warehoused lots are tested, classified, and certified by a grading supervisor entity (accredited by B3), and this entity issues a classification report.

In other words, the risk identified by B3 is that an unforeseen event could prevent physical delivery or affect the contractual characteristics of the commodity to be delivered.

However, such risk is small, among other reasons, because the volume settled by physical delivery in the B3 Clearinghouse is extremely small (regarding coffee futures settled in 2022, for example, the largest volume settled by physical delivery corresponded to only 0.11% of the total financial volume settled by the clearinghouse).

The rules and procedures for delivery are set out in the B3 Clearinghouse Rules, Operating Procedures Manual and Risk Management Manual. B3 Clearinghouse's system, also accessible to participants, controls all stages of the physical delivery process, including registration of intent to effect physical delivery, specification of the commodity to be delivered, choice of commodity by buyers, maintenance of billing information, and calculation of settlement amounts. When there are no buyers interested in receiving the full quantity specified for delivery by sellers, the B3 Clearinghouse matches sellers and buyers for delivery and receipt respectively, in accordance with the chronological order of positions (oldest first).

PRINCIPLE 11 – CENTRAL SECURITIES DEPOSITORIES

PRINCIPLE 11 – CENTRAL SECURITIES DEPOSITORIES: *A CSD should have appropriate rules and procedures to help ensure the integrity of securities issues and minimise and manage the risks associated with the safekeeping and transfer of securities. A CSD should maintain securities in an immobilised or dematerialised form for their transfer by book entry.*

Key Consideration 1 - *A CSD should have appropriate rules, procedures, and controls, including robust accounting practices, to safeguard the rights of securities issuers and holders, prevent the unauthorised creation or deletion of securities, and conduct periodic and at least daily reconciliation of securities issues it maintains.*

In its activities as a provider of CSD services, B3 operates in a well-defined regulatory environment with rules and procedures duly approved by BCB and CVM, and has appropriate controls to assure the integrity of the securities (and rights to such securities) deposited with the B3 Central Depository.

As for the regulatory environment, Law 12810/13, articles 22 to 31, CVM Resolutions 31/21, 32/21 and 33/21, BCB Resolution 304/23, and BCB Resolution 4593/17 clearly establish and regulate the activities of CSDs. The following aspects of the regulations in force should be highlighted:

- The definition of a CSD's activities;
- The empowerment of BCB and CVM to regulate and supervise these activities;
- The institutions authorised to operate as CSDs and the authorisation process;
- Establishment of the fiduciary ownership principle in favour of the CSD (whereby the CSD has effective control of the securities deposited with it, acting as fiduciary owner toward the issuer but keeping such securities separate from its own equity);
- Mandatory identification of actual owners (individual customer segregation model);
- The impossibility of negative balances in an investor's deposit account;
- Recognition that records of securities deposited with the CSD in the holder's name represent effective ownership of such securities; and
- Recognition of the legal validity of the liens and encumbrances constituted in the CSD environment.

The B3 Central Depository activities are governed by rules and operating procedures approved by BCB and CVM. B3 also implements appropriate processes and controls to assure the integrity of deposited securities (and rights to such securities). The following are especially relevant:

- Control and processing of all balances, transfers, and treatments of corporate events in deposit accounts at the level of the individual customer;

- Control of central depository deposits and withdrawals to ensure that the respective credits and debits under B3's fiduciary ownership are concurrent with credits and debits to the deposit accounts concerned so as to avoid the "creation" or "loss" of securities;
- Robust accounting practices that do not permit the existence of negative account balances;
- Procedures performed with issuers, registrars appointed by issuers or issuer custodians, as the case may be, to reconcile:
 - (i) the central depository accounts kept in the names of the owners (investors) with the account balances held directly on the issuers' books under B3's fiduciary ownership, thereby assuring the existence and ownership of the securities deposited with the central depository; and
 - (ii) the corporate events calculated by B3 on behalf of the owners with the issuers' calculations regarding the balances held under B3's fiduciary ownership, thereby assuring the accuracy of accounting records and payment of corporate events.
- Daily notification of issuers, registrars appointed by issuers or issuers custodians, as the case may be, regarding the status of positions in the central depository, including owner identification and contact details, enabling issuers to perform reconciliation and access owners whenever necessary (e.g., to convene a shareholder meeting);
- Daily notification of custodians regarding deposit account movements and positions for which they are responsible, in real time and/or by batch processing, enabling custodians to perform reconciliation;
- Disclosure of information regarding positions and account movements and statements directly to investors (owners) via a secure electronic channel accessible around the clock, 7 (seven) days a week, on B3's website; and
- Internal and external auditing to verify processes, risks, and internal controls in the central depository environment.

Safeguarding the rights of securities issuers and holders

The records kept by the issuer, by the registrar appointed by the issuer or issuer custodians, as the case may be, are the initial source of a security's existence. All securities deposited with the central depository must necessarily be transferred in the issuer's records to the fiduciary ownership of B3.

Concurrently with confirmation of the transfer and constitution of fiduciary ownership, the quantities of securities are credited to a deposit account in the owner's name in B3's central depository services, and from this moment on B3 is responsible for control of the securities.

The securities held by the B3 Central Depository are registered in its deposit accounts directly in the name of the owners. These records give them effective ownership rights to the securities, which are segregated from B3's capital and from the proprietary positions of the custodians engaged by the owners.

Relations between the central depository and issuers, or their appointed registrars, or issuer custodian, as the case may be, are defined in the applicable legislation and in the B3 Central Depository rules and procedures, which establish and preserve the rights and obligations (i) of the issuer regarding the securities it issues, and (ii) of the central depository in safekeeping the securities.

Account balances, custody movements and treatment of corporate events affecting the securities are governed by rules, procedures and controls designed to assure appropriate accounting and maintenance of positions held on behalf of their owners and to mitigate any risks associated with other services offered to participants by the B3 Central Depository.

All processes and controls, including reconciliation performed internally and with issuers, are audited periodically by B3's Audit Department and independent auditors authorised by CVM. Risk mapping and internal controls are reviewed periodically by the Governance, Integrated Management and Cyber Security Executive Department.

Control of account balances: The balances of securities (and of the corporate events affecting such securities), custody movements (deposits, withdrawals, and transfers) and treatment of corporate events are all booked in deposit accounts with complete identification of account owners.

To assure the control, consistency and integrity of account balances, the B3 Central Depository uses a process of internal reconciliation and a process of verification with issuers. Internal reconciliations are executed during the day via automatic procedures to verify the consistency of account balances with registered account movements. The process involving issuers' records verifies the consistency of the balances held by the central depository on behalf of the owners with the balances held directly on the issuer's books under B3's fiduciary ownership, assuring the existence of the correct amounts of securities deposited.

Deposits: Account movements triggered by securities deposit instructions are processed by dual command, involving the issuer (or its appointed registrar) and the custodian of the security's owner. Upon dual command, the issuer must transfer ownership of the security registered on its books as owned by the investor concerned to B3's fiduciary ownership. Concurrently with this transfer, the amount of the security is credited to the investor's deposit account with the central depository. In specific cases, the following commands are also required:

- (i) of the fiduciary agent, to covered bonds (LIG);
- (ii) of custodian, to physical bearer securities certificates;
- (iii) of the settlement agent, in the case of financial asset where the obligation to pay events is attributed to him;
- (iv) of the issuer settlement institution, in the case of debenture and commercial paper, both traded in OTC; and/or
- (v) of the financial market infrastructure.

The controls that are part of this process ensure that crediting the security to B3's fiduciary ownership and crediting the same security to the investor's deposit account do not result in

duplication or creation of securities, thereby maintaining the ownership rights and integrity of the securities held in the deposit accounts.

Withdrawals: Withdrawal instructions are accepted only if the specified amount of the securities concerned is available in the investor's deposit account, since negative balances are not allowed. The process begins with a request from the investor's custodian, which is copied to the issuer, who transfers fiduciary ownership of the security concerned, registered on its books in B3's name, to the final beneficial owner. Concurrently with this transfer, and the resulting extinction of fiduciary ownership, the specified amount of the security is debited against the investor's deposit account, with no duplication or deletion of securities, thereby maintaining the investor's ownership rights to the securities directly in the issuer's records.

Custody transfers: Custody transfers may be (i) a response to an instruction to settle a transaction from one of B3's clearinghouses, or (ii) a free-of-payment transfer ordered by a custodian. In both cases, custody transfer instructions are accepted only if the specified amount of the securities concerned is available in the investor's deposit account, since negative balances are not allowed.

Treatment of corporate events: Corporate events are treated at the level of the investor's deposit account. In the case of corporate events in securities, the B3 Central Depository performs the calculations concerned considering the balance in each deposit account and credits the securities originating in the event directly to the investor's account, thereby preserving the rights associated with the securities deposited. In the case of corporate events in cash, the result of the calculation processed by the B3 Central Depository, including tax liability for B3 Listed assets, is reconciled with the issuer responsible for payment, or with the issuer's registrar. After reconciliation, the B3 Central Depository receives the cash and transfers it to the custodian, which credits the funds directly to the investor. Voluntary corporate events create exercise rights to the event directly in the investor's deposit account. The B3 Central Depository coordinates rights exercise and the respective payments.

Prevention of the unauthorised creation or deletion of securities

As established in the B3 Central Depository regulations, securities are created/credited or deleted/debited against the owner's deposit account only after the issuer confirms (i) that ownership of the securities entered into its books in the owner's name has been transferred to B3's fiduciary ownership, in the case of deposits, or (ii) that fiduciary ownership of the securities entered into its books in B3's name has been transferred to the final beneficial owner, in the case of withdrawals.

These restrictions are configured and controlled in the systems maintained by the B3 Central Depository.

Key Consideration 2 - *A CSD should prohibit overdrafts and debit balances in securities accounts.*

The B3 Central Depository systems do not allow overdrafts or debit balances in the deposit accounts held in the names of securities owners.

Key Consideration 3 - A CSD should maintain securities in an immobilised or dematerialised form for their transfer by book entry. Where appropriate, a CSD should provide incentives to immobilise or dematerialise securities.

All B3 Listed securities accepted for deposit are already dematerialised by virtue of the applicable regulations. Thus, all the B3 Listed securities held by the B3 Central Depository are dematerialised and no physical certificates are issued.

In the case of OTC B3, around 98% of the assets accepted for deposit are dematerialized. Approximately 2% still refers to assets issued in physical form. Assets issued in cartular form are identified in the system, which generates reports to participants for their control and monitoring.

The participant's obligations regarding the endorsement and transfer of fiduciary property, necessary for the dematerialization of the assets issued in cartular form, are provided for in the OTC B3's regulation. The dematerialization takes place in the participant, through the endorsement process, and the custody of these assets is also under the responsibility of the participant, who must comply with a secure process, assessed by B3 as provided in its regulations.

Key Consideration 4 - A CSD should protect assets against custody risk through appropriate rules and procedures consistent with its legal framework.

The B3 Central Depository has appropriate mechanisms to protect securities and mitigate custody risks associated with the operations of its participants and their internal processes.

The following points should be noted with regard to these protection and custody risk mitigation mechanisms associated with the activities of custodians:

- The individual customer segregation model, which in the event of custodian insolvency permits rapid portability of balances to another custodian, preserving the ownership rights of securities holders;
- The setting of custody limits to Listed B3 according to the custodian's financial capacity;
- The use of systems with control rules and automated tools to assist custodians with the management of operational risk and internal control processes;
- The provision of information to custodians, enabling them to perform reconciliation, and directly to securities holders enabling them to control custodians; and
- The process of self-regulation executed by BSM, involving risk-based supervision and periodical audits of custodians.

With regard to the risks associated with the B3 Central Depository activities, the protection and mitigation mechanisms include the processes and controls in place to assure the integrity of the securities held deposited and the ownership rights of their owners (as stressed under Key

Consideration 1 of this Principle), as well as the annual review of risk mapping and internal controls by the Governance, Integrated Management and Cyber Security Executive Department.

Furthermore, the responsibilities of the B3 Central Depository are established in the applicable legislation and in B3's rules and operating procedures approved by BCB and by CVM, and its activities are subject to supervisory audits by the regulators as well as external and internal auditing to verify compliance with the applicable legislation.

B3 has, to Listed B3, an investor compensation mechanism (local acronym MRP) managed by BSM to ensure that investors, and only investors, are compensated for losses resulting from operating errors by participants when intermediating transactions performed on the exchange or providing custody services. Investors can submit claims for compensation within 18 months of the event that caused a loss, and any compensation is limited to R\$120,000 per claim. The MRP can be triggered mainly in the following situations:

- Non-execution or faulty execution of orders;
- Inadequate use of cash, securities, or other assets, including financing or lending of securities operations;
- Delivery to investors of illegitimate or restricted securities or other assets;
- Inauthentic endorsement of securities or other assets, or use of an illegitimate power of attorney or another document required for securities transfer; and
- Business closure.

Key Consideration 5 - *A CSD should employ a robust system that ensures segregation between the CSD's own assets and the securities of its participants and segregation among the securities of participants. Where supported by the legal framework, the CSD should also support operationally the segregation of securities belonging to a participant's customers on the participant's books and facilitate the transfer of customer holdings.*

In accordance with the applicable legislation and the B3 Central Depository rules, the securities deposited with the B3 Central Depository must be registered in deposit accounts directly in the names of the owners. This ensures that the account holders are the legal owners of such securities (and of the rights arising from them). It also assures segregation both from B3's equity and from the proprietary positions of the custodian.

Transfers of custody between deposit accounts held under different custodians are allowed and occur in real time, with transfer instructions being issued by transferor custodians to transferee custodians. In the case of transfers with ownership change or by request of the transferee custodian, a command by the transferee and a justification by the transferor are also required. The transferor custodian must order the transfer of custody from a deposit account under its responsibility to a deposit account under the responsibility of another custodian.

Key Consideration 6 - *A CSD should identify, measure, monitor, and manage its risks from other activities that it may perform; additional tools may be necessary in order to address these risks.*

B3 is a vertically integrated market infrastructure operator and as such it provides CSD, listing, trading and CCP services, as well as securities lending, federal government bond repurchase agreements, OTC derivatives registration, fixed-income securities registration, and information services.

Additionally, B3 manages Tesouro Direto, a program for individual investors to buy and sell federal government debt securities developed by the National Treasury in partnership with B3. The system is processed in an integrated environment developed by the National Treasury and operated by the B3 Central Depository. Besides purchases and sales, B3 also performs settlement of transactions, together with the corresponding movements of the securities in SELIC. B3 does not act as central counterparty, there is no trading on the exchange market, the investor's counterparty is always the National Treasury, and liquidity is guaranteed by the National Treasury. In this way, and considering the B3 Central Depository's responsibilities described in Tesouro Direto's rules, B3 is not exposed to credit, market or liquidity risks owing to participation in this activity.

All activities, risks and internal controls associated with the B3 Central Depository services, without exception, are mapped, evaluated, and monitored by the Governance, Integrated Management and Cyber Security Executive Department.

B3 is not exposed to credit and/or liquidity risks as a provider of CSD services.

PRINCIPLE 12 – EXCHANGE-OF-VALUE SETTLEMENT SYSTEMS

PRINCIPLE 12 – EXCHANGE-OF-VALUE SETTLEMENT SYSTEMS: *If an FMI settles transactions that involve the settlement of two linked obligations (for example, securities or foreign exchange transactions), it should eliminate principal risk by conditioning the final settlement of one obligation upon the final settlement of the other.*

Key Consideration 1 - *An FMI that is an exchange-of-value settlement system should eliminate principal risk by ensuring that the final settlement of one obligation occurs if and only if the final settlement of the linked obligation also occurs, regardless of whether the FMI settles on a gross or net basis and when finality occurs.*

The article 4 of the CMN Resolution 4952/21 establishes that “without prejudice to the legal and regulatory rules applicable within the scope of the SPB, BCB and CVM, in their areas of competence, will use the PFMI originally published by the CPSS/BIS and TC/IOSCO, in regulation, monitoring and evaluating of the safety and efficiency of the clearinghouses and providers of clearing and settlement services”.

The B3 Clearinghouse adopts the principle of delivery-versus-payment (DvP) to settle transactions in the equities market (stocks, BDRs, ADRs, ETF shares, subscription bonuses, subscription rights, subscription receipts, mutual fund shares) and corporate debt market, and for physical delivery contracts, i.e., coffee, corn price basis futures, anhydrous fuel ethanol futures, gold spot, securities lending and federal government bond repurchase agreements.

The B3 Foreign Exchange Clearinghouse adopts the principle of payment-versus-payment (PvP) in the settlement of spot foreign-exchange transactions.

The finality of settlement of linked obligations is considered simultaneous, as established in the clearinghouses’ rulebooks and manuals.

OTC B3 adopts the principles of settlement by multilateral clearing with transfer of financial resources between different institutions for financial assets, of settlement by bilateral clearing with transfer of financial resources between different institutions for derivatives operations with no CCP, and of settlement by gross transfer in real time for individual operations with transfer of financial resources for financial assets and derivatives with no CCP.

PRINCIPLE 13 – PARTICIPANT DEFAULT RULES AND PROCEDURES

PRINCIPLE 13 – PARTICIPANT DEFAULT RULES AND PROCEDURES: *An FMI should have effective and clearly defined rules and procedures to manage a participant default. These rules and procedures should be designed to ensure that the FMI can take timely action to contain losses and liquidity pressures and continue to meet its obligations.*

Key Consideration 1 - *An FMI should have default rules and procedures that enable the FMI to continue to meet its obligations in the event of a participant default and that address the replenishment of resources following a default.*

B3's clearinghouses have rules and procedures that allow them to take the necessary action if a participant defaults or becomes an operational defaulter to assure the fulfilment of their obligations within the requisite timeframe, in accordance with Law 10214/01, CMN Resolution 4952/21 and BCB Resolution 304/23. These rules and procedures, as well as the definition of the terms "operational defaulter" and "defaulter" as they apply to participants, are clearly and explicitly set out in their rulebooks and risk management manuals.

In the B3 Clearinghouse, participants are declared "operational defaulters" when they fail to discharge their obligations for operational reasons during a certain period of time at B3's discretion, and "defaulter" when they fail to discharge their obligations and are not declared, or cease to be, operational defaulters. The rules also state who is empowered to declare participants in such conditions, reflecting the chain of responsibilities (the clearinghouse in the case of clearing members, clearing members in the case of the brokerage houses to which they provide settlement services, and brokerage houses in the case of customers). The clearinghouse must immediately notify BCB when it declares clearing members and brokerage houses operational defaulters or defaulters.

Participants declared operational defaulters or defaulters must identify to the clearinghouse the participants under their responsibility who caused the failure, declaring them operational defaulters or defaulters. This identification is fundamental to identification of the collateral that can be used to address the payment failure. If it does not occur, the value of the failure is assigned to the debtor participants under the responsibility of the participant declared an operational defaulter or defaulter, in proportion to its multilateral net debit balances. The B3 Clearinghouse segregates positions and collateral in individual accounts at the final beneficial owner level, so it has complete information on the multilateral net balances of all participants. The proprietary positions and collateral of brokerage houses and clearing members are treated identically to customers' positions and collateral.

Among the measures that can be taken by the clearinghouse to deal with default by a clearing member (and hence default by one or more brokerage houses and one or more customers, jointly referred to as "defaulting participants"), the following should be stressed: (a) blocking of the collateral posted by the clearing member and participants under its responsibility, (b) use of the defaulting participants' rights and collateral, as well as other collaterals available in the safeguard structure, to discharge the clearinghouse's obligations to other clearing members, (c) a ban on new transactions by the defaulting participants, (d) blocking of registration functionality for accounts

under the responsibility of participants linked to the defaulting clearing member, (e) blocking of access by participants under the defaulting clearing member's responsibility to the trading and transaction registration systems, (f) reduction of the operational limits applicable to the defaulting clearing members and participants linked to it, (g) closeout at market prices of the positions registered in the names of the defaulting participants, (h) a requirement to post extra collateral, (i) transfer of non-defaulting customers' positions and collateral linked to the defaulting brokerage house and clearing member, (j) closeout at market prices of the positions held by the customers referred to in item (i), if the transfer of their positions and collateral is not possible or viable according to the clearinghouse, and (k) determination for direct settlement between the clearinghouse and non-defaulting full trading participants and settlement participants under the responsibility of the defaulting clearing member, through B3 Bank, via CELP. In the case of clearing members declared operational defaulters, the same measures apply, except those relating to position closeout, and position and collateral transfer.

The sequence for use of collateral is as follows: (1) collateral posted by defaulting customers, (2) collateral posted by defaulting brokerage houses linked to defaulting clearing members; (3) collateral posted by defaulting clearing members, (4) B3's contribution to the settlement fund, (5) other participants' contributions to the settlement fund, and (6) B3's resources dedicated exclusively to the clearinghouse.

This sequence can be changed in order to mitigate liquidity risk if the clearinghouse deems the collateral concerned to display distinct characteristics in terms of liquidity, but final allocation of losses among participants must follow the original applicable sequence.

See the B3 Clearinghouse Rules, Title II – *Clearinghouse Operations as Central Counterparty*, Chapter V – *Failure to Perform Obligations*; Chapter IV – *Risk Management*; and the B3 Clearinghouse Risk Management Manual, Chapter 2 – *Procedures for a default or operational defaulter event*.

In the B3 Foreign Exchange Clearinghouse, a participant is declared an “operational defaulter” if it cannot settle an obligation on time for an operational reason, and “defaulter” if it cannot settle an obligation on time owing to lack of payment capacity.

The B3 Foreign Exchange Clearinghouse can take the following measures when participants are declared operational defaulters: (a) a ban on new transactions by such participants, (b) blocking payments or delivery of USD to them, (c) blocking amounts due to them and collateral posted by them (including their contributions to the settlement fund) and use of such amounts and collateral by the clearinghouse to discharge its obligations to other participants, and (d) a requirement to post extra collateral, which may be required of the participant, including, depending on the currency in which it is the debtor (USD, in the case of a selling position, and BRL, in the case of a buying position), according to the clearinghouse risk management manual. Operational defaulters are granted more time – which does not exceed the clearinghouse's settlement window for creditor participants – to correct the payment failure. If they fail to do so within the extra time, they are declared in default.

In the case of a declaration of default, (a), (b) and (c) above mentioned are applied, as well as charging a fine, levied on the defaulting participant, as provided for in the clearinghouse operating procedures manual and the defaulter is excluded as a participant in the clearinghouse, and the clearinghouse

settles its transactions due for settlement on dates later than the default date using the amounts due to the defaulter and the collateral posted by the defaulter. The sequence for collateral use is as follows: (1) collateral posted by the defaulting participant, (2) the defaulting participant's contribution to the settlement fund, (3) B3's contribution to the settlement fund, and (4) other participants' contributions to the settlement fund.

See the B3 Foreign Exchange Clearinghouse Rulebook, Chapter VIII – *Settlement*, Chapter IX – *Safeguards*; the B3 Foreign Exchange Clearinghouse Risk Management Manual, Chapter 8 – *Operational Defaulters and Defaulters*; and the B3 Foreign Exchange Clearinghouse Operating Manual, Chapter 16 – *Failure Management*.

To cover their liquidity requirements during the management of an event of default or operational default, B3's clearinghouses can trigger their liquidity assistance agreements with banks or use B3's own resources dedicated to them (see under Principle 7, Key Consideration 4). To collateralise the provision of funds via collateralised agreements or return funds obtained via non-collateralised agreements or B3's resources dedicated to the clearinghouses, collateral posted by defaulting participants (or operational defaulters) is used, as well as resources in the clearinghouses' settlement funds.

As established in the clearinghouse rulebooks, the following rules among others apply to the settlement funds:

B3 Clearinghouse

- B3's contribution to the fund is R\$ 1.447 billion (11/30/2023, about 41% of the fund);
- If the contributions of non-defaulting participants are used, the sums later injected to replenish the fund must not be used to cover losses due to the same default or previous losses;
- The total value of additional sums required from a participant to replenish the fund in a 20 (twenty) day period is limited to three 3 (three) times the value of its required individual contribution; and
- If required contributions to the fund are increased as a result of a review by B3, the additional sums contributed to comply with the new required contributions may not be used to cover losses due to defaults that occurred prior to the announcement of the newly required contributions.

B3 Foreign Exchange Clearinghouse

- B3's contribution must be at least equal to the total of all participants' contributions (thus representing at least 50% of each fund);
- If the contributions of non-defaulting participants are used, the sums with which the settlement fund is replenished may not be used to cover losses due to the default or prior to its occurrence;
- The total value of contributions required from a participant to replenish the fund in any period of 20 (twenty) business days is limited to 3 (three) times the value of its individual required contribution; and

- If required contributions to the fund are increased as a result of a review by B3, the additional sums contributed to comply with the new required contributions may not be used to cover losses due to defaults that occurred prior to the announcement of the new contributions.

Key Consideration 2 - *An FMI should be well prepared to implement its default rules and procedures, including any appropriate discretionary procedures provided for in its rules.*

B3's clearinghouses have documented internal procedures that are followed by its departments in the event of participant default. Top management notifies stakeholders about default events in a timely manner by means of circular letters (in the case of communications to participants and the general public), and electronic messages and telephone calls (in the case of communications to regulators). If discretionary decisions have to be made, the B3's Executive Board or the Central Counterparty (CCP) Risk Internal Committee, as appropriate, is responsible for doing so.

Internal processes to manage default events are reviewed whenever there are significant changes in clearinghouse operating procedures and/or rules that might affect them. Proposed changes may be submitted to the B3's Executive Board for approval, depending on their content.

Key Consideration 3 - *An FMI should publicly disclose key aspects of its default rules and procedures.*

The rules and procedures of B3's clearinghouses relating to participant default are contained in their rulebooks and manuals, which are published on B3's website (www.b3.com.br/en_us/, Regulation, Regulations, and manuals, Clearing, settlement and risk management, Access the documents).

Key Consideration 4 - *An FMI should involve its participants and other stakeholders in the testing and review of the FMI's default procedures, including any close-out procedures. Such testing and review should be conducted at least annually or following material changes to the rules and procedures to ensure that they are practical and effective.*

In 2019 B3 introduced an annual testing for default management procedures, by simulating a default scenario for a clearing member regarding the multilateral settlement for which the B3 Clearinghouse acts as CCP. Since then, B3 performs test of the default management procedures, at least, annually, with the scenario to be simulated redefined at every test, according to the test objectives and the scope of the set of procedures to be tested, which may vary in terms of number of defaulters, level of risk and complexity of defaulters' portfolios, severity of price fluctuations and impact on market liquidity, other functions performed by defaulters at B3, settlement services, among other aspects. As of 2021, the annual testing also contemplates the OTC B3 procedures, by simulating a default scenario for an OTC B3 participant, in the scenario where the participant does not accomplish its payments obligations in the settlement process of this segment, in which B3 does not act as CCP. Participants can be called upon to perform the test, carrying out activities associated with the

closeout of defaulting positions, monetisation of collateral, and transfer of defaulting customers. The simulation runs in non-production environments at B3, its participants, and BCB.

Concerning a customer's default to the brokerage house, when the latter's obligations to its clearing member and the clearing member's obligations to the clearinghouse are both met, it should be noted that, as such a default does not change the responsibilities of the brokerage house and its clearing member with regard to the obligations associated with the customer's transactions (which will be settled in accordance with regular procedures and rules), and as all positions and collateral are identified and segregated into individual accounts at the customer level, in the course of their regular daily activities B3 and its participants carry out the most critical procedures relating to the measures required to deal with participant default, such as position closeout and collateral use. These procedures are performed by the brokerage house responsible for the defaulting customer via usual and regular trade and post-trade processes applicable in the course of the firm's daily activities.

With regard to a brokerage house's default to the clearing member, when the latter's obligations to the clearinghouse are met, the transfer of non-defaulting customers' positions and collateral to other participants, is foreseen in the minimum clauses of the normative documents issued by B3 and occurs via the clearinghouse's regular process for transferring positions and collateral in the customer's account under the brokerage house of origin to the customer's account under the brokerage house of destination, regardless of whether the brokerage house of origin defaulted.

As noted under Principle 7, Key Consideration 7, B3 performs monthly tests relating to the activation and use of bank liquidity assistance facilities and the liquidity provision mechanism by the B3 Clearinghouse via the liquidity fund.

PRINCIPLE 14 – SEGREGATION AND PORTABILITY

PRINCIPLE 14 – SEGREGATION AND PORTABILITY: *A CCP should have rules and procedures that enable the segregation and portability of positions of a participant's customers and the collateral provided to the CCP with respect to those positions.*

Key Consideration 1 - *A CCP should, at a minimum, have segregation and portability arrangements that effectively protect a participant's customers' positions and related collateral from the default or insolvency of that participant. If the CCP additionally offers protection of such customer positions and collateral against the concurrent default of the participant and a fellow customer, the CCP should take steps to ensure that such protection is effective.*

The segregation of positions and collateral implemented by B3 is organised in accordance with the applicable Brazilian legal framework, especially Law 9613/98 and CVM Resolutions 50/21 and 35/21, which require operators of organised securities markets and clearinghouses to identify and monitor the individual customers of transactions, and CVM Resolution 31/21, which stipulates that CSDs must keep securities in individual investors' deposit accounts (including encumbered or pledged assets and assets posted as collateral), each of which must be segregated from all other assets held in deposit accounts and other transactions.

The regulatory framework applicable to resident investors also applies to non-resident investors, in accordance with CMN Resolution 4373/14 and CMN Resolution 2687/00.

The arrangement that guarantees the segregation and protection of positions and collateral is the account structure of B3's clearinghouses. This structure reflects the legal requirement mentioned: every transaction is registered in an account that permits the identification of all participants responsible for it up to the final customer level, and the account in which a customer's transactions are booked is also used to control the collateral posted by that same customer. B3 is therefore able to identify accurately the owner of each position and collateral. In the case of the B3 Foreign Exchange Clearinghouse, the account structure is simpler since there is no chain of participants in the settlement process (a transaction is registered in the name of a clearinghouse participant, which is alone responsible for settlement).

The arrangement to guarantee portability in the B3 Clearinghouse is the specific process for transfer, through which a customer's positions and collateral can be transferred from an account held in its name under a brokerage house and clearing member to an account in its name under a different brokerage house and/or a different clearing member. The transfer is set up and completed via the clearinghouse's systems. Its completion depends on the consent of the clearing member that represents the receiving brokerage house. By consenting, this clearing member assumes responsibility for the positions and collateral transferred. The transfer procedures are defined in the clearinghouse's operating procedures manual (Chapter 7 - *Position Control*). In the case of the B3 Foreign Exchange Clearinghouse, portability does not apply, since there is no chain of responsibilities between participants.

All the B3 Clearinghouse's rules, procedures, processes and systems are based on identification of the customer and protect the customer's positions and collateral against default by the participants responsible for the customer and default by other customers – see the rules for collateral use and the requirement that a non-defaulting customer's positions and collateral under the responsibility of a defaulting brokerage house/clearing member be transferred to another brokerage house/clearing member.

With regard to the legal solidity and enforceability of customer position and collateral protection and transfer, Brazil's legal framework, specifically Law 10214/01, CMN Resolution 4952/21 and BCB Resolution 304/23, provides a high level of assurance for B3's mechanisms relating to position and collateral protection and transfer. B3's rules and procedures are developed in accordance with this framework and approved by the competent regulators.

B3 does not regard any jurisdiction other than Brazil as relevant to the ability of its clearinghouses to segregate and transfer investor positions and collateral. B3 is not aware of any legal action taken against it in respect of clearinghouse rules or procedures governing the protection and transfer of customers' positions and collateral.

Key Consideration 2 - *A CCP should employ an account structure that enables it readily to identify positions of a participant's customers and to segregate related collateral. A CCP should maintain customer positions and collateral in individual customer accounts or in omnibus customer accounts.*

According to the account structure used by B3's clearinghouses, customer positions and collateral are registered in individually identified accounts and hence segregated from the positions and collateral of other investors, as described under Key Consideration 1 of this Principle.

The account structure also ensures that brokerage houses' and their clearing members' positions and collateral are registered in individual segregated accounts in the name of each participant.

The account structure used by B3's clearinghouses does not include omnibus accounts.

Key Consideration 3 - *A CCP should structure its portability arrangements in a way that makes it highly likely that the positions and collateral of a defaulting participant's customers will be transferred to one or more other participants.*

The position and collateral segregation model into individual accounts at the customer level, and the rules and procedures governing the management of default ensure that all customer positions and collateral are controlled by the B3 Clearinghouse, guaranteeing effective transfer. In the event of default, the clearinghouse's interest in fully effective transfer is aligned with the interest of the defaulting participant and the non-defaulting customer.

Key Consideration 4 - *A CCP should disclose its rules, policies, and procedures relating to the segregation and portability of a participant's customers' positions and related collateral. In particular, the CCP should disclose whether customer collateral is protected on an individual or omnibus basis. In addition, a CCP should disclose any constraints, such as legal or operational constraints, that may impair its ability to segregate or port a participant's customers' positions and related collateral.*

The structure of individualised accounts at the customer level, the provisions governing segregation and portability of positions and collateral at the individual customer level, and the rules and procedures for addressing default events while assuring such segregation and portability are described in the B3 Clearinghouse Rules, Operating Procedures Manual and Risk Management Manual.

B3 believes there are no constraints capable of impairing its ability to fully segregate or transfer the positions and collateral of any investor once the brokerage house of destination is determined. It also considers that there are no risks, costs or uncertainties associated with its segregation and portability arrangements, since account segregation at the investor level, required by the applicable regulations, has already been implemented.

It should be noted, however, that in the case of B3 Clearinghouse, with regards to the clearing members' collateral, and the collateral of full trading participants, trading participants or settlement participants belonging to its chain of responsibility in the settlement process, constituted by federal government bonds, pledged to the clearinghouse for the benefit of non-defaulting third parties, in the event of default, submission to out-of-court liquidation proceeding or bankruptcy of the clearing member, full trading participant, trading participant, or settlement participant responsible for such investor, portability is ensured, along with the positions related to them, in accordance with the terms set forth in the clearinghouse's rules and risk management manual.

It is also important to note that (i) position transfer requires the existence of sufficient collateral to cover risk at the brokerage house of destination, and (ii) if transfer should prove impossible (owing to insufficient collateral to cover risk at the receiving end, for example), then the positions must be closed out at the brokerage house of origin, in which case the process is covered by third-party Brazilian government bonds. Finally, as noted under Principle 5 (Collateral), the B3 Clearinghouse sets limits for the use of third-party Brazilian government bonds, with daily monitoring of participant compliance by the Risk Management Department. Moreover, the volume of such collateral is small (0.2% of the total posted on September 29, 2023).

PRINCIPLE 15 – GENERAL BUSINESS RISK

PRINCIPLE 15 – GENERAL BUSINESS RISK: *An FMI should identify, monitor, and manage its general business risk and hold sufficient liquid net assets funded by equity to cover potential general business losses so that it can continue operations and services as a going concern if those losses materialise. Further, liquid net assets should at all times be sufficient to ensure a recovery or orderly wind-down of critical operations and services.*

Key Consideration 1 - *An FMI should have robust management and control systems to identify, monitor, and manage general business risks, including losses from poor execution of business strategy, negative cash flows, or unexpected and excessively large operating expenses.*

B3 has robust management and control systems to identify, monitor and manage its general business risks, including potential losses due to inadequate execution of business strategy, negative cash flows, unexpected and excessively large operating expenses, litigation, and operational failures. The governance structure for defining risk appetite and the definition of risk appetite itself are established by B3's Board of Directors.

B3 has implemented two different approaches to identify, monitor and manage its general business risks: top-down and bottom-up. In the top-down approach, the risks to which B3 is exposed and their profile are analysed and listed by the B3's CEO, vice-presidents, executive directors, and directors, and from this list a subset of mission-critical risks is extracted for monitoring and assessment. This analysis gives rise to results based on comprehensive information that generate B3's risk profile and an executive view of its general business risks.

In the bottom-up approach, B3's risk profile is created using information about operational details of processes. This level of detail provides a better definition of response to risk and risk classification measures, enabling continuous risk management supervision using indicators.

The risk profile is based on two variables, probability, and impact, both measured in quantitative and qualitative terms on a pre-defined scale. Probability represents the likelihood of materialisation of the risk in a particular period, while impact represents the severity of its effects on B3's cash flow and capital.

When the Governance, Integrated Management and Cyber Security Executive Department assesses risk, it focuses on the controls used to mitigate and manage the risks identified. The controls identified are periodically evaluated by Internal Auditing based on an annual auditing plan approved by the Audit Committee. If it is found that there are no controls to mitigate particular risks, the business area establishes action plans to implement controls.

B3 has a Corporate Risk Internal Committee, which meets once a month to evaluate and continuously monitor risks described in Key Consideration 2 of the Principle 2.

Furthermore, B3 has put in place a number of policies relating to internal controls, corporate risk, information security, and the conduct of employees and participants.

Key Consideration 2 - *An FMI should hold liquid net assets funded by equity (such as common stock, disclosed reserves, or other retained earnings) so that it can continue operations and services as a going concern if it incurs general business losses. The amount of liquid net assets funded by equity an FMI should hold should be determined by its general business risk profile and the length of time required to achieve a recovery or orderly wind-down, as appropriate, of its critical operations and services if such action is taken.*

B3 holds very short-term liquid assets backed by its capital stock in order to enable the continuity of its operations in the event of a general business loss. The calculation of the amount of reserves intended to cover general business risks is based on the total amount of adjusted operating expenses provided for in B3's budget for a time horizon of at least six months, which is consistent with most actions established in B3's recovery plan.

B3's Board of Directors determined for 2022 that the amount of R\$ 670 million of B3's own financial resources would be appropriated as reserves to sufficiently cover operating expenses. These reserves are periodically reviewed and monitored, and the corresponding resources are held in the form of highly liquid securities with sovereign credit risk and no market risk, in accordance with B3's Financial Investment Policy.

Key Consideration 3 - *An FMI should maintain a viable recovery or orderly wind-down plan and should hold sufficient liquid net assets funded by equity to implement this plan. At a minimum, an FMI should hold liquid net assets funded by equity equal to at least six months of current operating expenses. These assets are in addition to resources held to cover participant defaults or other risks covered under the financial resources principles. However, equity held under international risk-based capital standards can be included where relevant and appropriate to avoid duplicate capital requirements.*

As noted in Key Consideration 4 of Principle 3, in February 2019 B3 developed a recovery plan, approved by the Board of Directors, which is reviewed, since then, at least annually, and which takes into account (i) scenarios associated with credit and liquidity risks and CCP (B3 and B3 Foreign Exchange Clearinghouses) participants' default, (ii) other scenarios associated with credit and liquidity risks, and (iii) scenarios associated with failure in the technological infrastructure that supports B3's operations.

B3's own financial resources segregated for the payment of operating expenses over six months, as noted in Key Consideration 2 of this Principle, are held in highly liquid investments, with sovereign credit risk and no market risk.

Key Consideration 4 - *Assets held to cover general business risk should be of high quality and sufficiently liquid in order to allow the FMI to meet its current and projected operating expenses under a range of scenarios, including in adverse market conditions.*

See Key Consideration 2 of this Principle.

Key Consideration 5 - *An FMI should maintain a viable plan for raising additional equity should its equity fall close to or below the amount needed. This plan should be approved by the board of directors and updated regularly.*

B3 does not have a capital increase plan should resources be needed to deal with the materialization of general business risks. However, pursuant to article 8 of its Bylaws, B3 is authorised to increase its capital stock up to the limit of 7.5 billion common shares, by resolution of its Board of Directors. For an increase above said limit, approval by the shareholders' meeting is necessary.

PRINCIPLE 16 – CUSTODY AND INVESTMENT RISKS

PRINCIPLE 16 – CUSTODY AND INVESTMENT RISKS: *An FMI should safeguard its own and its participants' assets and minimise the risk of loss on and delay in access to these assets. An FMI's investments should be in instruments with minimal credit, market, and liquidity risks.*

Key Consideration 1 - *An FMI should hold its own and its participants' assets at supervised and regulated entities that have robust accounting practices, safekeeping procedures, and internal controls that fully protect these assets.*

B3's own assets and the assets of participants for which it is responsible are held under supervision and regulation governed by pertinent laws, rules, and procedures, which assure the use of robust accounting practices, safekeeping procedures and internal controls that fully protect the assets concerned. For example, government bonds are held at SELIC, stocks, units and ETF shares are held at the B3 Central Depository, CDs are held at OTC B3, and assets deposited abroad are held at Euroclear and DTCC.

Of all the assets posted as collateral by clearinghouse participants, only cash (local currency or USD) can be invested by B3, and such investment must comply with the restrictions established in B3's Financial Investment Policy in order to maintain a high level of liquidity and capital preservation (see under Principle 7, Key Consideration 5). The same restrictions apply to B3's own resources, except those used in the strategic investment program in Latin American exchanges (see under Key Consideration 4 of this Principle).

With regard to the assets deposited by investors for custody by the B3 Central Depository, see under Principle 11.

Key Consideration 2 - *An FMI should have prompt access to its assets and the assets provided by participants, when required.*

In its clearinghouse and CSD activities, B3 has prompt access to its assets and the assets posted by participants, when required.

With regard to the assets deposited by investors for custody in the B3 Central Depository, the legal basis for this service is as follows:

- Law 6404/76 (article 41) and CVM Resolution 31/21 govern custody of fungible shares, stating that an institution acting as a depository for fungible shares has fiduciary ownership of the shares (granted to the CSD to ensure that assets held in custody are kept separate from other assets held by the same entity) and that the CSD's obligations are safekeeping of the assets deposited with it for the purposes of custody, ensuring that all payments and corporate events are sent to the final beneficial owner of the assets, and issuing regular account statements. B3

has systems, plans and rules to ensure that the assets belonging to users of these systems are adequately protected and managed.

With regard to the activities of B3's clearinghouses:

- Law 10214/01 and BCB Resolution 304/23 supply the legal basis for recognition of the finality and irrevocability of settlement, and ensure that clearinghouses have priority over the assets pledged as collateral in the event of participant default in order to permit continuity of the settlement process and the fulfilment of its obligations, and to guarantee the rights arising from ownership of assets held in custody;
- Article 4 of the CMN Resolution 4952/21 establishes that, without prejudice to the legal and regulatory rules applicable within the scope of the SPB, BCB and CVM will use, in their areas of competence, the PFMI originally published by the CPSS/BIS and TC/IOSCO, in regulation, monitoring and evaluation of the safety and efficiency of the clearinghouses and providers of clearing and settlement services;
- With regard to collateral posted abroad, a 2020 study to review acceptance of such collateral concluded that such collateral enjoys the same legal certainty and the same degree of enforceability as collateral constituted in Brazil (see Principle 1, Key Consideration 1); and
- When collateral posted by participants is transferred, including for the purpose of executing such collateral, instructions to this effect are sent by the clearinghouses directly to the CSD without involving third parties. Brazilian government bonds are held in a clearinghouse account with SELIC and the clearinghouse itself is the account custodian. The same applies to ETF shares, units, and stocks (held by the B3 Central Depository), CDs, LCIs, LCAs (held by the OTC B3 or in B3's registration systems), and collateral posted abroad (held by Euroclear or DTCC). Cash collateral in local currency and USD is held in the clearinghouse's name and invested in compliance with B3's Financial Investment Policy, as noted under Key Consideration 1 of this Principle.

Key Consideration 3 - *An FMI should evaluate and understand its exposures to its custodian banks, taking into account the full scope of its relationships with each.*

B3 evaluates its exposure to the banks it engages to manage its financial investments or to maintain a cash balance, taking into account the full scope of its relationship with each one. These banks are top-tier institutions in Brazil and abroad.

With regard to B3's activities as a CSD, the assets deposited by investors at the B3 Central Depository are held under the B3 Central Depository fiduciary ownership (see Key Consideration 2 of this Principle), not by custodians (which are responsible for the operating procedures related to the safekeeping of such assets).

As for the collateral posted to its clearinghouses by participants, B3 operates directly in the respective central depositories and registration systems without the intermediation of custodians.

Thus, B3 is exposed to custodian banks only insofar as its resources and cash collateral posted by clearinghouses participants are concerned.

Key Consideration 4 - *An FMI's investment strategy should be consistent with its overall risk management strategy and fully disclosed to its participants, and investments should be secured by, or be claims on, high-quality obligors. These investments should allow for quick liquidation with little, if any, adverse price effect.*

B3's financial investment strategy is consistent with its risk management strategy. Its Financial Investment Policy imposes restrictions on investment of its own assets and those of third parties (participant collateral) with the aim of limiting exposure to market, credit, liquidity, and operational risks, while assuring capital preservation and the sustainability of the business (see under Principle 7, Key Consideration 5).

As a result, B3 invests mainly in Brazilian government bonds or financial instruments backed by them, with floating rate, fixed-rate or inflation returns, liquidity between 0 (zero) and 5 (five) business days, and minimal exposure to private credit risk.

The restrictions imposed by the Financial Investment Policy are valid for investment of B3's resources and the cash collateral posted by participants in its clearinghouses, but not for the strategic investment program in Latin American exchanges. This program is defined by the B3's Board of Directors as part of B3's strategic planning and involves solely B3's own resources. Investments in which B3 has control, individually or jointly, of such investment or significant influence over it, are not considered as financial investments under the terms of the Financial Investment Policy.

B3's asset allocation and financial and other investments are disclosed in its financial statements, which are available from its investor relations portal (ri.b3.com.br/en).

PRINCIPLE 17 – OPERATIONAL RISK

PRINCIPLE 17 – OPERATIONAL RISK: *An FMI should identify the plausible sources of operational risk, both internal and external, and mitigate their impact through the use of appropriate systems, policies, procedures, and controls. Systems should be designed to ensure a high degree of security and operational reliability and should have adequate, scalable capacity. Business continuity management should aim for timely recovery of operations and fulfilment of the FMI's obligations, including in the event of a wide-scale or major disruption.*

Key Consideration 1 - *An FMI should establish a robust operational risk-management framework with appropriate systems, policies, procedures, and controls to identify, monitor, and manage operational risks.*

B3 has created a robust framework for operational risk management comprising appropriate systems, policies, procedures, and controls to identify, monitor and manage operational risks.

Operational risk management is carried out from two perspectives: top-down and bottom-up. The top-down approach corresponds to the way the risks that compromise the achievement of B3's strategic objectives (corporate risks) are viewed, while the bottom-up approach corresponds to the major risks arising from B3's operational processes and controls (operational risks). Assessments are conducted considering B3's risk appetite statement, approved by the Board of Directors.

With regard to the monitoring and management of the corporate risks identified under the top-down approach:

- The Corporate Risk Internal Committee and from time to time the Board of Directors' Risk and Financial Committee evaluate monthly the evolution of corporate risks (strategic, financial, operational, regulatory, image and socio-environmental risks) by analysing structured information and indicators; and
- The Governance, Integrated Management and Cyber Security Executive Department issues a semi-annual corporate risk report on the evolution of strategic, financial, operational, and legal risks in the period and the results of their monitoring. The report is discussed by the Corporate Risk Internal Committee and submitted for approval to the Audit Committee, Risk and Financial Committee and Board of Directors, following which it is sent to BCB, CVM and BSM for approval.

In relation to the monitoring and management of the operational risks identified under the bottom-up approach, the Governance, Integrated Management and Cyber Security Executive Department issues a risk report for the operational processes containing the result of classification of the risks associated with the scope of the evaluation, which is presented to the Managing Director responsible for the process. In addition, the Governance, Integrated Management and Cyber Security Executive Department tracks the performance of risk indicators and monitors the implementation of action plans.

To ensure that B3's operating procedures are implemented appropriately, the governance of its corporate risk management and internal controls is structured in terms of lines, as described under Principle 3, Key Consideration 1.

The lines model is reflected in B3's documents and internal processes, and defined in the policies detailed below, which are available from its investor relations portal (ri.b3.com.br/en).

The Compliance and Internal Controls Policy establishes principles, guidelines, and responsibilities to be met for the strengthening and proper functioning of B3's internal control systems, which are based on good corporate governance practices defined in the standards and methodologies of the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

The Corporate Risk Policy and the Operational Risk Norms establishes principles, guidelines and responsibilities to be observed in B3's corporate risk management process, so as to enable the identification, assessment, processing, monitoring and reporting of operational risks inherent in business and information technology activities that support B3's operation environments and systems, which are based on good corporate governance practices defined in the standards and methodologies of the COSO – Enterprise Risk Management Framework, CVM Resolution 135/22, BCB Normative Instruction 374/23 and ABNT Standard NBR ISO 31000: 2009 – Risk Management: Principles and Guidelines.

B3 has formally defined norms and procedures for human resources management containing specific features relating to employee training, performance assessment, quality-of-life programs, and a short- and long-term remuneration policy and rules (stock grant plan), which aim to mitigate the effects of the risk of high turnover rates, as well as encourage the retention of key personnel. The effectiveness of this policy is regularly evaluated using indicators, including a measure of employee turnover. For fraud prevention, B3 conducts periodic analysis of systems access, segregation of duties and functions, and training in the Code of Conduct and Ethics that highlights the personal and professional conduct to be adopted by all employees. The code also indicates the communication channels for any detected misconduct or non-compliance. As part of their admission processes, all employees must abide by the code.

As for fraud prevention, B3's actions are based on a set of internal mechanisms and procedures involving integrity, auditing, incentive to irregularity reporting, and enforcement of the Code of Conduct and Ethics, policies, and norms in order to detect and remedy any deviation, fraud, irregularity, and illegal act against the public administration, domestic or foreign.

Any atypical transactions resulting from acts of corruption and fraud, regardless of relevance, involving administrators, employees, interns and service providers must be evaluated by the Conduct and Ethics Internal Committee, under the provisions of its internal regulation and the Whistleblower and Fraud Processing Rule, and then reported to the Audit Committee, through the Audit Department, when applicable, for assessment and determination of the need to further report such acts to B3's Board of Directors and public agencies, pursuant to regulations.

With regard to the risk that changes, and projects may pose to the smooth functioning of its systems, B3's Governance, Integrated Management and Cyber Security Executive Department, through the Project Management Office (PMO), tracks the progress of ongoing projects and monitors the main

changes, assuring a formal new project prioritization and approval process and adequate development of approved projects (including the availability of the financial, technological, and human resources required to complete them). The PMO reports from time to time on the progress of all strategic projects to the B3's Executive Board, while the progress of departmental projects is reported to their respective teams. Four main areas are responsible for every project: IT, operations, products, and the PMO.

Key Consideration 2 - *An FMI's board of directors should clearly define the roles and responsibilities for addressing operational risk and should endorse the FMI's operational risk management framework. Systems, operational policies, procedures, and controls should be reviewed, audited, and tested periodically and after significant changes.*

B3's Board of Directors has clearly defined the roles and responsibilities associated with operational risk and established an operational risk management framework. Systems, operational policies, procedures, and controls are reviewed, audited, and tested periodically and always after significant changes occur.

B3's Board of Directors, through the Corporate Governance and Nomination Committee, has established and implemented the Corporate Risk Management, Business Continuity, Information Security, and Compliance and Internal Controls Policies, which define the roles and responsibilities involving operational risk management that must be reviewed by the board every year. Such policies are available from B3's investor relations portal (ri.b3.com.br/en).

Changes to the structure for managing corporate risks, including operational risk, are submitted by the Governance, Integrated Management and Cyber Security Executive Department to the Corporate Risk Internal Committee and the Risk and Financial Committee.

B3's Internal Audit conducts independent, impartial, and timely assessments of the effectiveness of risk management and governance processes, as well as the adequacy of internal controls and compliance with the rules and regulations associated with the operations of B3 and its affiliates and subsidiaries.

B3's participants are subject to periodic audits by BSM, whose scope includes customer registration processes, suitability, order execution, trade settlement, asset and position custody management, risk management, autonomous investment agents, internal controls, market surveillance and money laundering prevention, certification of professionals, information security, business continuity, IT infrastructure monitoring and operation, change management, and infrastructure support.

B3's operational risk management framework is subject to external audit. The corresponding work plans are defined by the external auditors themselves.

Key Consideration 3 - *An FMI should have clearly defined operational reliability objectives and should have policies in place that are designed to achieve those objectives.*

B3 has clearly defined operational reliability objectives and has policies and rules in place that are designed to achieve them.

The FMIs considered systemically important in Brazil, in accordance with BCB Communiqué 32549/18, as required by article 94 of BCB Resolution 304/23, must guarantee an operational availability (uptime) equal to or better than 99.8%.

To monitor B3's operated FMIs' uptime, Objective Key Result (OKRs) have been developed.

The operational availability of B3's technological platforms, as well as its calculation, is documented in internal repositories and reported to B3's Executive Board and Board of Directors. Aiming at uptime rates equal to or greater than 99.8%, B3's teams are dedicated to monitoring and, if applicable, dealing with any incidents that might impact the systems' operational availability. The OKRs are updated on a monthly basis, as a way of monitoring the operational availability progress.

To ensure that B3's operational processes are properly implemented, the governance of risk management and internal controls is structured in lines, as described under Principle 3.

B3's Information Technology and Business Continuity and Crisis Management policies are formally established and available at its Investor Relations website (ri.b3.com.br/en), and cover the processes and procedures required to achieve its operational reliability objectives.

Key Consideration 4 - *An FMI should ensure that it has scalable capacity adequate to handle increasing stress volumes and to achieve its service-level objectives.*

B3 ensures that it has an adequate capacity to handle increasing stress volumes and achieve pre-established service levels.

The Chief Technology Officer's department runs capacity tests (performance, load, limit, availability), as well as certification tests.

The capacity planning methodology defines the systems evaluation procedures and techniques using prototypes, reference points and data capture, as well as performance modelling, simulation, and load testing.

Demand for increased capacity stems from new business development, strategic positioning requirements and organic systems growth. Estimates are based on projections for service use and previous experience with growth of service use. Capacity revisions occur when systems change and new projects that may affect scalability are implemented.

B3's Capacity Management has a support process to proactively manage performance, which contains the infrastructure thresholds.

When capacity reaches such thresholds, the monitoring tool sounds an alarm in the IT operation console. After an assessment is made by the monitoring team, an incident is referred for processing by the Production Support area. In case of recurrence, this area will evaluate whether the infrastructure requires a new capacity.

Key Consideration 5 - *An FMI should have comprehensive physical and information security policies that address all potential vulnerabilities and threats.*

B3 has an Information Security Policy, available from its investor relations portal (ri.b3.com.br/en), which provides guidance on and directs the main measures to protect the property, ensuring confidentiality, availability and integrity of the information, whether it is physical, digital, or any other form and support that it is presented, against the various existing threats applicable to the business, avoiding its improper, inadequate, illegal or in disagreement with the policies, norms and internal procedures use. Within the internal regulatory framework, specific norms of infrastructure and security defines the controls for the physical and logical security of the environments.

With regard to physical access, B3 has implemented building access control using badges, data centre access control using a biometric system, monitoring by closed-circuit television (CCTV), and a surveillance system with its own monitoring centre that operates around the clock seven days a week, in compliance with Federal Law 7102/83.

With regard to the control of environmental factors, B3 has a Building Management System (BMS), a precision air conditioning system monitored 24x7 by a dedicated monitoring centre, a power network and Uninterruptible Power Supply (UPS) system, an on-site mission-critical team (24x7) with training in specific routines for mission-critical environments, a fire detection and firefighting system compliant with NFPA 72 (National Fire Alarm and Signalling Code) and, in the case of areas considered critical (data centres and Telecom rooms), NFPA 2001 (Standard on Clean Agent Fire Extinguishing Systems), preventive and predictive maintenance routines in line with mission-critical best practice, and facilities infrastructure testing according to a pre-defined annual program.

B3's data centre is housed in a separate environment equipped with access, temperature and humidity controls, specific dedicated fire prevention and firefighting equipment, and an alternative power source.

B3's change management and project management processes ensure that changes and major projects must be totally approved, and previously assessed for risk and analysis of impact on physical security.

All deviations associated with the building's access control processes are identified and recorded in occurrence reports, which are used as input for defining corrective measures to eliminate such deviations.

To define the procedures associated with physical security, B3 has adopted the following domestic and international standards: NFPA 72 – National Fire Alarm and Signalling Code; NFPA 2001 – Standard on Clean Agent Fire Extinguishing Systems; and Law 7102/83.

With regard to digital security, B3 has a security framework and governance to protect its business, consisting of 5 (five) main areas of action that direct all security domains: cyber defence, safety operation, architecture and security solutions, governance, and data protection.

Additionally, the Information and Cyber Security Internal Risk Committee, among other responsibilities, evaluates the information security strategy and guidelines.

To define the procedures related to information security, B3 adopts international standards and best practices (such as ISO 27000, NIST CSF Framework and CPMI-IOSCO), which are periodically evaluated by internal audits and external consultants.

As part of its defense process, contextualizing the threats relevant to the business ensures the correct targeting of protections, which are designed and presented to B3's senior management.

B3 has a Security Operations Centre (SOC) which operates around the clock 7 (seven) days a week. The SOC, which is responsible for management and addressing IT incidents, detects and responds to invasion attempts.

Structured testing and threat mapping processes allow the identification of exposed environments or weaknesses that may compromise the environment, including ethical hacking, cyber security assessments, penetration tests, scans of internal and external vulnerabilities, security analysis in applications and a dedicated red team, as well as internal and external audits, which continually assess controls and environments in search of weaknesses.

B3's change and project management processes ensure their own proper approval and previous submission to risk assessment and impact analysis on information security.

Key Consideration 6 - *An FMI should have a business continuity plan that addresses events posing a significant risk of disrupting operations, including events that could cause a wide-scale or major disruption. The plan should incorporate the use of a secondary site and should be designed to ensure that critical information technology (IT) systems can resume operations within two hours following disruptive events. The plan should be designed to enable the FMI to complete settlement by the end of the day of the disruption, even in case of extreme circumstances. The FMI should regularly test these arrangements.*

B3 has business continuity and crisis management rules, a business continuity policy, a business continuity committee, and a business continuity management system designed to minimise the financial, operational, legal, and regulatory impacts of a lack or shortage of human, material, and technological resources essential to the secure functioning of its operations.

According to B3's Business Continuity and Crisis Management Policy, available at its Investor Relations website (ri.B3.com.br/en), the business continuity management system must include mechanisms to (i) identify internal and external threats capable of compromising the continuity of operations, the possible impact on operations if such threats materialise, and the requirements for continuity, including legal and regulatory requirements, (ii) establish the roles and responsibilities in crisis scenarios, (iii) develop a crisis management and response framework with adequate levels of authority and competence to assure effective communication, (iv) develop processes and mechanisms that assure a recovery of activities, (v) conduct training, testing and analysis to assure the maintenance and smooth functioning of the continuity plans.

B3's business continuity plans consists of operational contingency plans (OCPs), which establish alternative procedures to be executed in the event of critical process interruptions, with a list of key

personnel and alternative activities; workplace contingency plans (WCPs), which restore failed processes using an alternative workplace, with a list of key teams and priority activities; technology disaster recovery plans (TDRPs), which activate the contingency technology infrastructure, with a list of teams, resources, technical procedures, execution sequence and premises; and crisis management plans (CMPs), which designate an officer responsible for analysing the impact of disruption, declaring a crisis, and keeping interested parties informed about the recovery.

The plans are updated and tested at least annually. Participants and suppliers of critical services are invited to take part in testing at least once a year.

B3 has an annual calendar for testing its business continuity plans to check their capacity to achieve the recovery objectives set, among other things, considering large-scale material disruption scenarios, such as total loss of technological resources and/or the workplace. Mission-critical processes are identified on the basis of a business impact analysis (BIA) by Business Continuity Management, a division of the Governance, Integrated Management and Cyber Security Executive Department. For mission-critical processes according to the BIA, recovery time objectives (RTOs) and recovery point objectives (RPOs) are defined.

The Corporate Risk Internal Committee is responsible for approving the result obtained by BIA, which indicates the critical processes with a two-hour RTO, and for monitoring and evaluating if the recovery objectives of these critical processes are achieved through monitoring the test results. These include, for example, trading session opening procedures, collateral and liquidity facilities management, settlement management, OTC trade registration management, and intraday risk management.

These processes have formal business continuity plans and an alternative workplace with dedicated IT resources.

The architecture of the technology that supports the processes related to the operation of each B3's FMIs, including those related to settlement, is distributed between the main and the contingency data centre, and is designed to eliminate single points of failure.

Data replication between the primary and secondary (contingency) data centres occurs in synchronous mode, and the technological environment is characterised by high availability (if a specific IT resource presents a problem, another resource on the same site can replace it) and disaster recovery (if resources on the same site present problems, resources on the backup site can replace them). Business areas have procedures to verify data integrity if processes are interrupted. These procedures can be run on the primary site or on the secondary site after execution of recovery procedures.

The use of cloud services offers the same levels of resilience and adherence to availability and integrity requirements expected when using B3's own data centers.

Key Consideration 7 - *An FMI should identify, monitor, and manage the risks that key participants, other FMIs, and service and utility providers might pose to its operations. In addition, an FMI should identify, monitor, and manage the risks its operations might pose to other FMIs.*

The risks arising from participants, as well as mitigating actions, are identified by BSM in the process of assessing compliance with the rules established by regulators, by B3, and by BSM.

The main risk factors arising from participants are failure of the external network used to settle transactions, participant operational failures, failure of Know Your Customer processes and money laundering prevention activities, participant custody fraud, special auction fraud, reliance on suppliers and service providers for critical processes, and inadequate participant technology infrastructure.

Through its clearinghouses' relationship matrix, B3 maps FMIs with which it has relationships, assessing the risks associated with existing interdependencies. The identified risk factors are assessed for adherence to B3's corporate risk structure. Using this information, B3 identifies scenarios and develops action plans to mitigate the impact of risk materialisation. These plans are part of B3's Business Continuity Plan.

B3 publishes an annual timetable of Business Continuity Plan tests so that market participants are aware of and can take part in the tests.

B3 performs an assessment of critical service providers directly related to FMI operation. Through the methodology for evaluating supervisory expectations applicable to critical service providers, as recommended by CPMI-IOSCO, B3 sends a questionnaire to providers for self-assessment purposes and evaluates the level of sufficiency of responses on risk identification and management, information security, reliability and resilience, technological planning, and user communication. Action plans are defined for results other than "sufficient". The result of the assessment of the critical service providers is considered in the B3 risk indicators.

PRINCIPLE 18 – ACCESS AND PARTICIPATION REQUIREMENTS

PRINCIPLE 18 – ACCESS AND PARTICIPATION REQUIREMENTS: An FMI should have objective, risk-based, and publicly disclosed criteria for participation, which permit fair and open access.

Key Consideration 1 - An FMI should allow for fair and open access to its services, including by direct and, where relevant, indirect participants and other FMIs, based on reasonable risk-related participation requirements.

In its clearinghouse, CSD and financial assets and OTC derivatives TR activities, B3 allows fair and open access to its services based on risk-related requirements.

Participants are subject to B3’s definitions, rules, criteria, and requirements stipulated in its normative documents governing access, as listed in the table below. The set of requirements for participants’ access to B3’s environments, systems and markets encompass economic and financial characteristics, collateral posting, operations, functional aspects (including conduct), technical capabilities, and information security.

Financial market infrastructure	Applicable access rules
B3 Clearinghouse B3 Foreign Exchange Clearinghouse B3 Central Depository	B3 Access Rules B3 Access Manual
OTC B3 Registration, Central Depository System and Clearing and Settlement System Financial Infrastructure	OTC B3 Rulebook OTC B3 Access Rights Norms Manual Financial Infrastructure Unit Rulebook Norms Manual SRGVA

CVM Resolution 135/22, which disciplines regulated securities markets, states that the entities authorised by CVM to manage organised securities markets (such as B3) must issue rules governing participant admission procedures. Article 83, sole paragraph, states that “the requisites for admission as a person authorised to trade shall observe the principles of equality of access and respect for competition”. B3 complies with this requirement and its access rules have been duly approved by the regulators.

To assure the transparency of its access conditions and facilitate open and fair access to its services, B3 publishes the access rules and all other normative documents on its website (in Regulation, Regulations, and manuals).

According to B3’s access definitions for the B3 Clearinghouse, B3 Foreign Exchange Clearinghouse, B3 Central Depository and PUMA Trading System, participants are divided into “authorised participants” and “registered participants”. Pursuant to B3’s Bylaws, authorised participants are

granted access by the CEO and comprise clearing members (including participating banks in the B3 Foreign Exchange Clearinghouse), full trading participants, trading participants and settlement participants in the B3 Clearinghouse, and custody agents. Registered participants comprise customers/investors, agribusiness and gold depositaries, and issuers, among others. Regarding the OTC B3, all participants hold access rights, granted upon authorisation from B3's CEO.

Compliance with access requirements is a necessary condition for the granting of access to applicants and maintenance of access by participants.

Key Consideration 2 - *An FMI's participation requirements should be justified in terms of the safety and efficiency of the FMI and the markets it serves, be tailored to and commensurate with the FMI's specific risks, and be publicly disclosed. Subject to maintaining acceptable risk control standards, an FMI should endeavour to set requirements that have the least-restrictive impact on access that circumstances permit.*

B3's access requirements are justified in terms of protecting the safety and efficiency of its clearinghouse, CCP, CSD and financial assets and OTC derivatives TR activities, and of the markets they serve, as well as being tailored to and commensurate with the risks to which B3 is exposed, especially the risks associated with its CCP function.

The first requirement applicable to participants is compliance with the rules and legal norms applicable to their activities, and with the obligation to obtain all the necessary authorisations from BCB, CVM and other competent authorities.

The main economic and financial requirements are the obligation to maintain minimum levels of equity and liquidity. If the clearing members', full trading participants' or settlement participants' net equity value or free liquid assets are lower than the required levels, its controller may post its own assets as collateral in favour of B3 Clearinghouse, in accordance with B3's access rules and B3 Clearinghouse rules and manuals.

The collateral posting requirements apply to clearinghouse participants to assure maintenance of their safeguard structures. Clearing members, including the banks that participate in the B3 Foreign Exchange Clearinghouse, must deposit collateral for the settlement funds held by the clearinghouses in which they participate.

The operational and functional requirements participants must meet are those established in B3's Operational Qualification Program (PQO), as well as the requirements regarding the conduct of their proprietors and executives.

As part of the admission process, BSM performs a pre-operational audit to verify that the applicant's processes and internal controls comply with the criteria and requirements established by B3, basing this audit on the PQO's Basic Guidelines.

The Central Counterparty (CCP) Risk Internal Committee performs a technical analysis of applications for access authorisations, based on (i) pre-operational audit reports and (ii) in the opinion on the conduct evaluation of the partners and representatives of the requesting institution, made available

by the Legal Department, (iii) credit risk assessments by the Risk Management Department, and (iv) in the evaluation of the fulfilment of the requirements to grant an access authorization, carried out by the B3's Participant and Investors Registration Department. Its recommendations go to the CEO, pursuant to the provisions of B3's Bylaws.

According to B3's Bylaws, access rules and criteria must be approved by the Board of Directors. Moreover, according to the applicable rules and regulations, they must first be approved by BCB and CVM.

All access and other normative documents issued by B3 are published on its website (in Regulation, Regulations, and manuals).

Key Consideration 3 - *An FMI should monitor compliance with its participation requirements on an ongoing basis and have clearly defined and publicly disclosed procedures for facilitating the suspension and orderly exit of a participant that breaches, or no longer meets, the participation requirements.*

B3 monitors participants' compliance with the applicable requirements on an ongoing basis. It also clearly defines and publicly discloses the procedures for this supervision, as well as the penalties for non-compliance with requirements. According to CVM Resolution 135/22, the entities authorised by CVM to manage organised securities markets (such as B3) must issue rules governing the procedures for admission, suspension, and exclusion of participants.

Given that compliance with the access requirements is a necessary condition for maintenance of access authorisations, participants are regularly monitored after being licensed. Compliance with economic and financial requirements is verified on a monthly basis by BSM and the Central Counterparty (CCP) Risk Internal Committee independently. Compliance with the other requirements is verified at least annually by means of BSM's audits. Participants with a deteriorating risk profile are monitored more frequently by BSM. The Central Counterparty (CCP) Risk Internal Committee also periodically analyses participants' financial situation and capacity.

Participants that fail to comply with access requirements are subject to the penalties specified in B3's norms and regulations (warnings, fines, provisional suspension, and cancellation of access authorisations or rights), as well as the penalties specified in BSM's rules (warnings, fines, suspension of activities for up to 90 (ninety) days, and disqualification for up to 10 (ten) years from holding positions in senior management or being on the staff, trading, and acting on behalf of participants or agents of B3 or BSM).

Also, among the duties of participants established by B3's norms and regulations are compliance with all rules and procedures called for by B3 and BSM in their normative documents. Participants who fail to comply with rulebooks and manuals, within the scope of their access authorisations or rights, are therefore subject to the penalties referred to in the previous paragraph, and may have their access authorisations or rights suspended or cancelled.

PRINCIPLE 19 – TIERED PARTICIPATION ARRANGEMENTS

PRINCIPLE 19 – TIERED PARTICIPATION ARRANGEMENTS: *An FMI should identify, monitor, and manage the material risks to the FMI arising from tiered participation arrangements.*

Key Consideration 1 - *An FMI should ensure that its rules, procedures, and agreements allow it to gather basic information about indirect participation in order to identify, monitor, and manage any material risks to the FMI arising from such tiered participation arrangements.*

In its clearinghouse, CCP, CSD and financial assets and OTC derivatives TR activities, B3's rules and procedures allow it to gather the information about indirect participation needed to manage risk.

B3 follows the individual customer segregation model, using individual segregated customer accounts for the registration of transactions, position control, and collateral management. Its clearinghouses, CSD and financial assets and OTC derivatives TR therefore have the capacity to gather and assess risk information at the customer/investor level. Direct participants must keep up to date all information regarding the indirect participants linked to them, as required by CVM. Additional information may also be collected and accessed by direct request or via the audits of direct participants executed by BSM.

Customers, wealth managers, asset managers, distributors and global custodians are examples of indirect participants that use the services of B3's direct participants (brokerage houses, clearing members, custody agents etc).

Although B3's risk systems assess risk at the customer level, B3's Central Counterparty (CCP) Risk Internal Committee reviews the economic and financial health of direct participants and indirect participants considered significant, and also assesses the risks arising from the relationships and links among participants.

Key Consideration 2 - *An FMI should identify material dependencies between direct and indirect participants that might affect the FMI.*

B3 knows the entire chain of responsibilities and is therefore able to map the dependencies between direct and indirect participants. Its analysis of these dependencies also takes into account groups of participants, such as economic/financial conglomerates.

Key Consideration 3 - *An FMI should identify indirect participants responsible for a significant proportion of transactions processed by the FMI and indirect participants whose transaction volumes or values are large relative to the capacity of the direct participants through which they access the FMI in order to manage the risks arising from these transactions.*

B3 continuously monitors the volume and frequency of all direct and indirect participants' transactions and positions. It has a transparent multilevel system that operates at the segregated customer level throughout its chain of processes, so that it can monitor the risks arising from all participants (direct and indirect).

Residual risks at each level of the chain of responsibilities are assessed daily and checked "against" the net capacity of the participant responsible for the chain below. In this analysis participants are divided into groups, each group with a substantial probability of defaulting simultaneously.

BSM mitigates operational risk by auditing direct participants. These audits also cover indirect participant data.

Key Consideration 4 - *An FMI should regularly review risks arising from tiered participation arrangements and should take mitigating action when appropriate.*

B3's rules and procedures are reviewed and updated, whenever considered necessary, by all the departments involved, each in its respective areas of competence (e.g., Legal, Risk Management, and Settlement). This process mitigates risks (the Internal Normative Structure Norms contemplate a governance process for the creation and issuance of rules and the establishment of procedures for regular reviews of all normative documents).

B3's Central Counterparty (CCP) Risk Internal Committee is the main forum for proposing and defining mitigating actions, such as changes to rules and procedures, or to operational, position and collateral limits.

PRINCIPLE 20 – FMI LINKS

PRINCIPLE 20 – FMI LINKS: An FMI that establishes a link with one or more FMIs should identify, monitor, and manage link-related risks.

Key Consideration 1 - Before entering into a link arrangement and on an ongoing basis once the link is established, an FMI should identify, monitor, and manage all potential sources of risk arising from the link arrangement. Link arrangements should be designed such that each FMI is able to observe the other principles in this report.

B3's clearinghouses have operating agreements with FMIs for the purposes of accepting or transferring collateral. Its clearinghouses have collateral accounts, for example, with SELIC for collateral consisting of Brazilian federal government bonds. This arrangement is recognised in Brazilian law (Law 10214/01), assuring B3's fiduciary ownership of assets posted as collateral as well as segregation and correct identification of positions. SELIC is part of the SPB, and regulated and supervised by BCB, which follows the PFMI in its supervisory and monitoring activities. For collateral posted abroad, the B3 Clearinghouse has accounts with Euroclear and DTCC to move collateral consisting of US Treasuries, German Bunds and ADRs.

The B3 Central Depository has links with Caja de Valores (Argentina) and Iberclear (Spain) via agreements approved in advance by CVM and BCB. The agreement with Caja de Valores is based on a bilateral model enabling cross-listing of securities issued by Argentinian companies in Brazil and vice-versa. The agreement with Iberclear is unilateral, enabling only the listing of Brazilian securities in Spain. In the bilateral model, Brazilian issuers interested in operating under the agreement must apply for permission from CVM and BCB to list their securities in foreign markets. The agreements do not allow for the issuance or cancellation of certificates but only the direct trading of shares. No intermediation by custodians is involved, as this role is played by the CSDs that are parties to the agreements. Such agreements must be approved in advance by the regulatory authorities.

Once an agreement has been established, the B3 Central Depository uses daily reconciliation procedures to validate the quantity of securities deposited in the partner CSD's account with the B3 Central Depository against the quantity reported by the partner CSD.

Securities subject to any such agreement are held in accounts identified in the name of the partner CSD but under the B3 Central Depository's custody and submitted to controls regarding account movement and management of corporate actions. The ownership rules established in Brazilian law are enforced, and the B3 Central Depository cannot be held liable for any aspects of securities issued abroad and governed by foreign laws.

In the case of operational interoperability agreements between over-the-counter central depositories, the assets involved in such agreements are deposited in the name of the final beneficiary, under the fiduciary ownership of B3 Central Depository, subject to position and corporate action controls. B3 Central Depository adopts daily reconciliation procedures to validate

the amount of assets deposited in the investor's name in relation to the amount reported by issuers and registrars.

For purposes of compliance with the obligations of interoperability and creation and sustainment of the integrated platform for SUSEP, B3 executed an agreement with other trade repositories accredited by SUSEP, which established an operational committee to resolve possible situations of conflict in the performance of these activities.

Key Consideration 2 - *A link should have a well-founded legal basis, in all relevant jurisdictions, that supports its design and provides adequate protection to the FMIs involved in the link.*

The links between B3's clearinghouses and SELIC are established in Brazil. The regulatory framework for collateral is Law 10214/01. With regard to the links with Euroclear and DTCC for collateral posted abroad, in 2020 B3 completed a review of its assessment as to acceptance of such collateral, concluding that it enjoys the same legal certainty and the same degree of enforceability as collateral constituted in Brazil (see under Principle 1).

In the case of Caja de Valores (Argentina) and Iberclear (Spain), Brazil is the relevant jurisdiction, since B3's obligations in connection with these two links are constituted and executed in the environment of the B3 Central Depository.

With regards to OTC assets, interoperability links between depositories are established through contracts, which provides the sufficient regulation for sharing information as well as the structure of how the parties will communicate with each other. Such contracts are jointly created by the respective depositories in the authorization process towards the regulators, considering the regulatory provisions in force such as, for instance, CVM Resolution 135/22 and BCB Resolution 304/23. Such contracts are sent to the relevant regulators and, upon their approval, the interoperability link between the respective depositories begins.

The legal basis for B3's activities is detailed under Principle 1.

Key Consideration 3 - *Linked CSDs should measure, monitor, and manage the credit and liquidity risks arising from each other. Any credit extensions between CSDs should be covered fully with high-quality collateral and be subject to limits.*

Not applicable. The B3 Central Depository does not grant credit to linked CSDs.

Key Consideration 4 - *Provisional transfers of securities between linked CSDs should be prohibited or, at a minimum, the retransfer of provisionally transferred securities should be prohibited prior to the transfer becoming final.*

Not applicable. There are no provisional transfers of securities between the B3 Central Depository and other CSDs.

Key Consideration 5 - *An investor CSD should only establish a link with an issuer CSD if the arrangement provides a high level of protection for the rights of the investor CSD's participants.*

In its links with Caja de Valores and Iberclear, the B3 Central Depository acts as "issuer CSD". Under B3's beneficial ownership model, assets are segregated into accounts held by the final investors, which in this case are the respective CSDs.

As for the controls operated by Caja de Valores and Iberclear, both of them acting as "investor CSDs", in terms of position segregation, account structure and portability arrangements the rules applied are those required by the laws in force in the countries where the respective "investor CSDs" are established. B3 has no liability with regard to the circulation of receipts or shares issued abroad because this is governed by foreign law.

Key Consideration 6 - *An investor CSD that uses an intermediary to operate a link with an issuer CSD should measure, monitor, and manage the additional risks (including custody, credit, legal, and operational risks) arising from the use of the intermediary.*

Not applicable. The B3 Central Depository does not act as an "investor CSD".

Key Consideration 7 - *Before entering into a link with another CCP, a CCP should identify and manage the potential spillover effects from the default of the linked CCP. If a link has three or more CCPs, each CCP should identify, assess, and manage the risks of the collective link arrangement.*

Not applicable. B3 has no links with other CCPs.

Key Consideration 8 - *Each CCP in a CCP link arrangement should be able to cover, at least on a daily basis, its current and potential future exposures to the linked CCP and its participants, if any, fully with a high degree of confidence without reducing the CCP's ability to fulfil its obligations to its own participants at any time.*

Not applicable. B3 has no links with other CCPs.

Key Consideration 9 - *A TR should carefully assess the additional operational risks related to its links to ensure the scalability and reliability of IT and related resources.*

The interoperability links between B3's registering entity and other registering entities are established in Brazil, following current regulatory provisions. The legal framework for registered assets consists of CVM Resolution 135/22 and BCB Resolution 304/23, which establish, among other aspects, that FMIs that operate registration systems must develop interoperability mechanisms that assure interaction between them, for the approval or maintenance of authorizations relating to the exercise of registration activities, both for financial assets and securities. Nevertheless, and as described in Key-Consideration 2 of this principle, the contract between the parties involved is sent to the relevant regulators and, upon their approval, the interoperability link between the respective depositories begins.

PRINCIPLE 21 – EFFICIENCY AND EFFECTIVENESS

PRINCIPLE 21 – EFFICIENCY AND EFFECTIVENESS: *An FMI should be efficient and effective in meeting the requirements of its participants and the markets it serves.*

Key Consideration 1 - *An FMI should be designed to meet the needs of its participants and the markets it serves, in particular, with regard to choice of a clearing and settlement arrangement; operating structure; scope of products cleared, settled, or recorded; and use of technology and procedures.*

B3's clearinghouses, CSD and TRs are designed to meet the needs of their participants and the markets they serve, in accordance with the legal and regulatory requirements.

B3 maintains active relationships with participants, especially through its advisory committees, as well as its distributor relations, sales, international, and market, product, and service development departments. Participants' requirements are continuously discussed and analysed, and appropriate solutions are implemented whenever possible and feasible.

An example is the B3 Clearinghouse, resulting from projects to integrate the B3's clearinghouses and develop a new risk system. Now that integration of the equities, equities derivatives, corporate debt, and securities lending markets into the then named BM&FBOVESPA Clearinghouse is completed, this B3 Clearinghouse clears and settles more than 90% of total trading volume on B3's markets. The benefits of integration and the new risk model include: (i) cost savings (via standardisation of rules, processes, and systems, as well as more automation of operating routines), (ii) enhanced liquidity management (thanks to the establishment of a single settlement window), and (iii) more efficient capital allocation by participants, including customers (due to the integrated risk model and single collateral pool). At the end of the project, B3's clearing, settlement and CCP services resulted in a single set of rules, a single participant structure, a single registration system, a single process for allocation/position control/clearing/settlement, a single risk management system, and a single safeguard structure.

B3 is a member of several Brazilian and international associations, participating in their working groups and committees, which enables it to keep up to date and engage more actively with the industry's needs and development.

As the issuer of an important stock in the Brazilian capital market, B3 has a close relationship with its shareholders.

Key Consideration 2 - *An FMI should have clearly defined goals and objectives that are measurable and achievable, such as in the areas of minimum service levels, risk-management expectations, and business priorities.*

B3 has clearly defined goals and objectives based on strategic guidelines established by the Board of Directors. These include guaranteeing excellence and market integrity, and focusing on customer and participant relationships.

For each of its guidelines, B3 has established metrics and propositions aiming to translate its strategy into practical action and measuring its business success. All goals, objectives, and key results (KRs) are registered and monitored by the human resources department through the performance management system.

Achievement of goals and objectives is one of the key factors determining the compensation paid to B3's executives and staff.

Key Consideration 3 - *An FMI should have established mechanisms for the regular review of its efficiency and effectiveness.*

B3 has implemented a system to evaluate achievement of its objectives and KRs, the latter being monitored quarterly by area. Objectives are reviewed annually, and the variable remuneration program for all employees is linked to the extent to which goals are achieved. B3 also conducts an annual evaluation of its metrics and goals in conjunction with the strategic planning process to ensure that its objectives continue to reflect its strategy.

PRINCIPLE 22 – COMMUNICATION PROCEDURES AND STANDARDS

PRINCIPLE 22 – COMMUNICATION PROCEDURES AND STANDARDS: *An FMI should use, or at a minimum accommodate, relevant internationally accepted communication procedures and standards in order to facilitate efficient payment, clearing, settlement, and recording.*

Key Consideration 1 - *An FMI should use, or at a minimum accommodate, internationally accepted communication procedures and standards.*

B3 uses internationally accepted communication procedures and standards.

The following communication procedures are used, for example:

- Web services for communication between the B3 Clearinghouse and (i) the B3 Central Depository (for gold), and (ii) the OTC B3;
- Web services, FTP and MQ Series for communication:
 - between B3's clearinghouses, OTC B3 and the B3 Central Depository, and BCB and participants in the STR (for cash settlement in local currency);
 - between B3's clearinghouses, OTC B3 and SELIC, for the movement of collateral; and
 - between B3's clearinghouses and SELIC, for the purpose of moving assets for loan and repo operations of sovereign government bonds.
- FTP, sFTP and Connect: Direct, to transferring and accessing files (including public files), made available at B3 website, between participants and (i) B3's clearinghouses, (ii) B3's Central Depository, (iii) OTC B3, (iv) Financial Infrastructure Unit, and (v) the insurance, open supplementary pension, capitalization, and reinsurance registration system, as the case may be;
- APIs (Application Programming Interface) for operations and consultations by participants with (i) the B3 Clearinghouse, (ii) the OTC B3, (iii) the insurance, open supplementary pension, capitalization, and reinsurance registration system, and (iv) for interoperability between OTC B3, other registrars systems authorized by the BCB and between the centralized control bases;
- FIX to make information of OTC B3 available, and to capture and update offers, in real time; and
- SNA protocol and TCP/IP (Socket), WebServices (SOAP) and API (REST) for sending information for operations in their systems in synchronous transactions with private, redundant, and segregated networks, interconnecting partners, and participants (MPLS), in the system of registration of the Financial Infrastructure Unit.

The following communication standards are used, for example:

- SWIFT protocol (MT messages, ISO 15022) for communication:
 - For settlement in USD, between correspondent banks and the B3 Clearinghouse (non-resident investor, pursuant to CMN Resolution 2.687/00) and the B3 Foreign Exchange Clearinghouse;

- Between the B3 Central Depository and CSDs in Spain (Iberclear) and Argentina (Caja de Valores), relating to processes under international agreements to list Brazilian companies in the countries concerned; and
- Between the B3 Clearinghouse and the CSDs (DTCC or Euroclear) for the purpose of moving collateral abroad.
- ISIN for identification of (i) assets held by the B3 Central Depository, (ii) OTC derivatives and financial assets registered with OTC B3, and (iii) instruments settled through B3's clearinghouses. B3 is the Brazilian numbering agency and the only institution authorised to assign ISIN codes to securities in Brazil;
- ISO 4217 for identification of the types of currency accepted as underlying for OTC derivatives registered with OTC B3;
- Messaging based on ISO 20022:
 - Used for communication by the B3 Clearinghouse with participants on matters relating to risk management, collateral management, registration of instruments, registration of participants and accounts, trade capture, allocation and give-up, position control, securities lending, cash settlement, pricing, and fees;
 - Used by the B3 Central Depository for distance voting;
 - Used by iMercado, where the integration between the sell-side and the buy-side is made available based on said protocol and in conformity with the integration of the sell-side with the B3 Clearinghouse; and
 - Used by OTC B3.
- SPB (a standard set by BCB in XML format) for communication by B3's clearinghouses, the B3 Central Depository, and the OTC B3 with the STR for cash settlement, and by B3's clearinghouses with SELIC for the movement of collateral and assets for loan and federal government bond repurchase agreements.

With regard to activities relating to cross-border transactions, B3 uses ISO 15022 (SWIFT) and ISIN, as mentioned above.

B3 does not translate or convert international into domestic standards or vice-versa, as its processes do not require this at present.

PRINCIPLE 23 – DISCLOSURE OF RULES, KEY PROCEDURES AND MARKET DATA

PRINCIPLE 23 – DISCLOSURE OF RULES, KEY PROCEDURES, AND MARKET DATA: *An FMI should have clear and comprehensive rules and procedures and should provide sufficient information to enable participants to have an accurate understanding of the risks, fees, and other material costs they incur by participating in the FMI. All relevant rules and key procedures should be publicly disclosed.*

Key Consideration 1 - *An FMI should adopt clear and comprehensive rules and procedures that are fully disclosed to participants. Relevant rules and key procedures should also be publicly disclosed.*

The rules and procedures governing the B3 Clearinghouse, the B3 Foreign Exchange Clearinghouse, the B3 Central Depository, the OTC B3 and Financial Infrastructure Unit, are embodied in their respective normative documents - rulebooks, operating procedures manuals, and risk management manuals (the latter only in the case of the clearinghouses) and standards manuals, and are publicly available from B3's website (www.b3.com.br/en_us/, Regulation, Regulations, and manuals). They are as follows:

Access:

- B3 Access Rules;
- B3 Access Manual; and
- B3 Infrastructure Access Manual.

B3 Clearinghouse:

- B3 Clearinghouse Rules;
- B3 Clearinghouse Operating Procedures Manual; and
- B3 Clearinghouse Risk Management Manual.

B3 Foreign Exchange Clearinghouse:

- B3 Foreign Exchange Clearinghouse Rulebook;
- B3 Foreign Exchange Clearinghouse Operating Manual; and
- B3 Foreign Exchange Clearinghouse Risk Management Manual.

B3 Central Depository:

- B3 Central Depository for Equities Rules; and
- B3 Central Depository for Equities Operating Procedures Manual.

OTC B3:

- OTC B3 Rulebook;
- OTC B3 Access Rights Norms Manual;
- OTC B3 Registration, Centralized Deposit System and Clearing and Settlement System Norms Manual; and
- Standards manuals (per product – CCB, CCCB, CCE, CCR, NCE, CCI, COE, derivatives etc.).

Financial Infrastructure Unit:

- Recording information on financial operations and guarantees, electronic data storage, access to systems and other services provided by the Financial Infrastructure Unit Rulebook;
- Data Integration Platform Manual;
- Operations Manual – Real Estate Platform;
- Insurance Transaction Registration Manual; and
- Insurance and Reinsurance Operations Registration Manual.

The rules and procedures of B3's clearinghouses and of the B3 Central Depository (as embodied in their rulebooks and manuals) and all amendments to them must be approved by the regulatory authorities before they enter into force. Whenever possible, before submitting proposals for changes to the rules and procedures to the regulatory authorities, B3 submits drafts to participants for prior discussion via public consultation, the advisory committees, or specific working groups. Once it has obtained the requisite regulatory approvals, B3 notifies all participants via circular letter that the new normative documents have been published.

The production and alteration of internal normative documents are governed by B3's Internal Normative Structure Norms. In accordance with these norms, the Legal Executive Department and the Governance, Integrated Management and Cyber Security Executive Department review all rules and procedures to ensure they comply with the regulatory framework, are compatible with B3's other normative documents, and are always up to date.

In addition to the specific normative documents for its FMIs, B3 publishes its Bylaws, codes, and policies on its investor relations portal (ri.b3.com.br/en):

- Bylaws of B3 S.A. – BRASIL, BOLSA, BALCÃO;
- Stock Award Plan;
- Internal Regulation of the Board of Directors;
- Internal Regulation of the Risks and Finance Committee;
- Audit Committee Internal Regiment;
- Executive Board Internal Regiment;
- Pricing and Products Committee Regiment;

- Regulation of the Corporate Governance and Nomination Committee Advising the Board of Directors;
- Internal Regulation of Personnel and Compensation Committee;
- Code of Conduct and Ethics;
- Central Counterparty Risk Management Policy;
- Disclosure Policy;
- Policy for Trading Securities Issued by B3;
- Policy on Related Party Transactions and other Potential Conflict of Interest;
- Information Security Policy;
- Corporate Risk Policy;
- Compliance and Internal Controls Policy;
- Business Continuity and Crisis Management Policy;
- Financial Investment Policy;
- Policy Governing the Acquisition of Goods and Services;
- Corporate Policy on Combating Money Laundering, Concealment of Assets, Rights and Property, and Financing of Terrorism and Proliferation of Weapons of Mass Destruction (AML/CFT);
- Communication Policy;
- HR and Compensation Policy;
- Anti-corruption and Fraud Prevention Policy;
- Social, Environmental and Climate Responsibility Policy; and
- Information Technology Policy.

Key Consideration 2 - *An FMI should disclose clear descriptions of the system's design and operations, as well as the FMI's and participants' rights and obligations, so that participants can assess the risks they would incur by participating in the FMI.*

The rights and obligations of participants are embodied in B3's rulebooks and manuals, available from its website (see the list of normative documents provided under Key Consideration 1 of this Principle).

Additional information on costs, taxation, regulation, prices, and parameters is also available from B3's website. Participants can access the BVMFNet portal (www.bvmfnet.com.br) and B3's website, in System access, to download the user's manuals for B3's systems and other supporting documents relating to systems and procedures.

In this manner participants can assess the risks they incur by participating in the FMIs operated by B3.

Key Consideration 3 - *An FMI should provide all necessary and appropriate documentation and training to facilitate participants' understanding of the FMI's rules and procedures and the risks they face from participating in the FMI.*

B3 provides documentation and training to facilitate participants' understanding of its rules and procedures and the risks they incur by participating in its markets, systems, and environments.

B3 requires all participants' staff to be certified by the Operational Qualification Program (PQO), through which they are submitted to periodic tests to obtain certification for the functions they perform or the area in which they operate.

B3 regularly audits its participants to verify their ability to apply its rules and procedures.

B3 also holds face-to-face meetings and seminars open to all participants, during which it clarifies new rules, procedures, and systems, as well as courses offered by B3 Education. BSM offers lectures and meetings with participants to train them and clarify doubts about norms.

Ancord, in partnership with B3 Education, is responsible for PQO certification. Some certifications carried out by Anbima are comparable to certain functions evaluated within the scope of the PQO's professional certification. In addition to that, B3 Education offers training and open courses through financial education programs for the capital markets in partnership with other educational and market institutions.

Key Consideration 4 - *An FMI should publicly disclose its fees at the level of individual services it offers as well as its policies on any available discounts. The FMI should provide clear descriptions of priced services for comparability purposes.*

B3 discloses via its website all the costs associated with each of the services it offers as well as its policies on any available discounts. The costs are presented in detail by type of fee associated with each service, contract, and instrument, by type of event concerned, and by type of customer, where applicable.

Participants are notified formally (Circular Letters are sent by e-mail) of any changes to services and fees, including the dates on which changes will enter into force. Notification is given sufficiently in advance to give participants enough time to adapt their internal systems and procedures.

Key Consideration 5 - *An FMI should complete regularly and disclose publicly responses to the CPSS-IOSCO disclosure framework for financial market infrastructures. An FMI also should, at a minimum, disclose basic data on transaction volumes and values.*

The document containing qualitative information about B3, in accordance with the CPMI-IOSCO framework and its quantitative complement, is published on B3's website.

B3 intends to update the qualitative document every two years or whenever material changes are made to its financial market infrastructures. The quantitative complement is set to be updated quarterly.

Information about volumes traded and/or registered, open interest and posted collateral, among other items, is also available from B3's website.

B3 also discloses operational and financial information on its website, as well as all the information required by the applicable legislation, including Law 6404/76.

PRINCIPLE 24 – DISCLOSURE OF MARKET DATA BY TRADE REPOSITORIES

PRINCIPLE 24 – DISCLOSURE OF MARKET DATA BY TRADE REPOSITORIES: *A TR should provide timely and accurate data to relevant authorities and the public in line with their respective needs.*

Key Consideration 1 - *A TR should provide data in line with regulatory and industry expectations to relevant authorities and the public, respectively, that is comprehensive and at a level of detail sufficient to enhance market transparency and support other public policy objectives.*

B3 publishes daily aggregate information about the inventory of transactions and the daily volume of trades executed via its trading system and financial assets and OTC derivatives registered with the OTC B3, in addition to open interest, collateral posted to its clearinghouses, and reference prices (including the respective calculation inputs and methodologies).

The information is published in B3's Daily Bulletin, available from its website www.b3.com.br/en_us/ at the following address:

- https://www.b3.com.br/en_us/market-data-and-indices/data-services/market-data/reports/daily-bulletin/data-on-exchange-listed-and-otc-assets-available-to-the-public/

Further information is also available at the following addresses:

- Information about OTC B3 for financial assets, structured transaction certificate and derivatives:
https://www.b3.com.br/pt_br/market-data-e-indices/servicos-de-dados/market-data/consultas/boletim-diario/unidade-de-titulos-e-valores-mobiliarios/
- Reference prices and inputs:
http://www.b3.com.br/en_us/market-data-and-indices/data-services/market-data/historical-data/newsletters/search-by-trading-session/search-by-trading-session/
- Pricing manual:
https://www.b3.com.br/en_us/market-data-and-indices/data-services/market-data/reports/derivatives-market/methodology/
- Exchange rates:
http://www.b3.com.br/en_us/market-data-and-indices/data-services/market-data/reports/foreign-exchange-clearinghouse/indicators/reference-exchange-rates/
- Financial Infrastructure Unit:
https://www.b3.com.br/en_us/market-data-and-indices/financing-market-information/vehicles/

B3 provides detailed information on positions and customer transactions to the regulatory authorities on a daily basis. Whenever requested by regulators, other information is provided, at specific times or regularly, in accordance with the requirement received.

Key Consideration 2 - *A TR should have effective processes and procedures to provide data to relevant authorities in a timely and appropriate manner to enable them to meet their respective regulatory mandates and legal responsibilities.*

Detailed daily information about the clearinghouses, OTC B3 and Financial Infrastructure Unit registration system is provided regularly to BCB and CVM, in accordance with the specifications of each authority.

The data is supplied by B3's Customer Experience Department using automated processes. Special requests for information are received and treated by this unit.

Data transmission is processed by specific systems according to procedures based on service level agreements to assure adequate and secure data delivery.

Data relating to payment receivables arrangement are transmitted by email to the BCB, by the operations team, on a weekly basis.

Relevant information for the registration of insurance, open supplementary pension, capitalization, and reinsurance transactions is provided to the SUSEP by means of an integrated platform developed and administered by the accredited trade repositories, in accordance with the provisions of SUSEP Circular 599/20, in the instrument of adhesion entered into with SUSEP and in the agreement executed among the trade repositories of insurance, open supplementary pension, capitalization, and reinsurance transactions. Extraordinary requests for information are provided in accordance with the specifications received.

Key Consideration 3 - *A TR should have robust information systems that provide accurate current and historical data. Data should be provided in a timely manner and in a format that permits it to be easily analysed.*

B3 uses automated straight-through processing (STP) to provide the above data for both the public and regulators. Its processes are regularly audited.

The Customer Experience Department centralises contacts and the transmission of information to regulators, as well as the publication of certain information on B3's website. The department is responsible for the SI information system, which receives via batch-processes information from B3's other systems and organises it according to various disclosure requirements.

The processes run by the Customer Experience Department are considered mission critical. They therefore have business continuity plans and regular execution tests.

The Customer Experience Department is responsible for the Investor's area. Through the Investor's area investors access information regarding their positions, account statements and notifications, and participants access positions held by customers under their responsibility, at B3's *website*.

VI – LIST OF PUBLISHED DOCUMENTS AND INFORMATION

LEGISLATION AND EXTERNAL REGULATION (CMN, BCB, CVM, AND SUSEP)

BCB Communiqué 9419/02

www.bcb.gov.br/pre/normativos/busca/normativo.asp?numero=9419&tipo=Comunicado&data=19/04/2002

BCB Communiqué 12789/04

www.bcb.gov.br/pre/normativos/busca/normativo.asp?numero=12789&tipo=Comunicado&data=21/12/2004

BCB Communiqué 13750/05

www.bcb.gov.br/pre/normativos/busca/normativo.asp?numero=13750&tipo=Comunicado&data=29/09/2005

BCB Communiqué 25097/14

www.bcb.gov.br/pre/normativos/busca/normativo.asp?numero=25097&tipo=Comunicado&data=10/01/2014

BCB Communiqué 25164/14

www.bcb.gov.br/pre/normativos/busca/normativo.asp?numero=25164&tipo=Comunicado&data=23/01/2014

BCB Communiqué 26265/14

<https://www.bcb.gov.br/estabilidadefinanceira/exibenormativo?tipo=Comunicado&numero=26265>

BCB Communiqué 27115/15

<https://www.bcb.gov.br/estabilidadefinanceira/exibenormativo?tipo=Comunicado&numero=27115>

BCB Communiqué 29078/16

www.bcb.gov.br/pre/normativos/busca/normativo.asp?numero=29078&tipo=Comunicado&data=4/2/2016

BCB Communiqué 30516/17

<https://www.bcb.gov.br/estabilidadefinanceira/exibenormativo?tipo=Comunicado&numero=30516>

BCB Communiqué 32549/18

<https://www.bcb.gov.br/estabilidadefinanceira/exibenormativo?tipo=Comunicado&numero=32549>

BCB Normative Instruction 374/23

<https://www.bcb.gov.br/estabilidadefinanceira/exibenormativo?tipo=Instru%C3%A7%C3%A3o%20Normativa%20BCB&numero=374>

BCB Resolution 105/21

<https://www.bcb.gov.br/estabilidadefinanceira/exibenormativo?tipo=Resolu%C3%A7%C3%A3o%20BCB&numero=105>

BCB Resolution 304/23

<https://www.bcb.gov.br/estabilidadefinanceira/exibenormativo?tipo=Resolu%C3%A7%C3%A3o%20BCB&numero=304>

CMN Resolution 2687/00

<https://www.bcb.gov.br/estabilidadefinanceira/exibenormativo?tipo=Resolu%C3%A7%C3%A3o&numero=2687>

CMN Resolution 4373/14

<https://www.bcb.gov.br/estabilidadefinanceira/exibenormativo?tipo=Resolu%C3%A7%C3%A3o&numero=4373>

CMN Resolution 4569/17

<https://www.bcb.gov.br/estabilidadefinanceira/exibenormativo?tipo=RESOLU%C3%87%C3%83O&numero=4569>

CMN Resolution 4593/17

<https://www.bcb.gov.br/estabilidadefinanceira/exibenormativo?tipo=RESOLU%C3%87%C3%83O&numero=4593>

CMN Resolution 4734/19

<https://www.bcb.gov.br/estabilidadefinanceira/exibenormativo?tipo=RESOLU%C3%87%C3%83O&numero=4734>

CMN Resolution 4.952/21

<https://www.in.gov.br/en/web/dou/-/resolucao-cmn-n-4.952-de-30-de-setembro-de-2021-349991175>

CNSP Resolution 383/20

<https://www2.susep.gov.br/safe/scripts/bnweb/bnmap.exe?router=upload/26964>

CNSP Resolution 393/20

<https://www2.susep.gov.br/safe/scripts/bnweb/bnmap.exe?router=upload/26767>

CVM Letter/SMI 05/15

<http://conteudo.cvm.gov.br/legislacao/oficios-circulares.html>

CVM Letter/SMI 018/19

<http://conteudo.cvm.gov.br/legislacao/oficios-circulares.html>

CVM Letter/SMI 101/15

<http://conteudo.cvm.gov.br/legislacao/oficios-circulares.html>

CVM Resolution 31/21

<https://conteudo.cvm.gov.br/legislacao/resolucoes/resol031.html>

CVM Resolution 32/21

<https://conteudo.cvm.gov.br/legislacao/resolucoes/resol032.html>

CVM Resolution 33/21

<https://conteudo.cvm.gov.br/legislacao/resolucoes/resol033.html>

CVM Resolution 35/21

<https://conteudo.cvm.gov.br/legislacao/resolucoes/resol035.html>

CVM Resolution 135/22

<https://conteudo.cvm.gov.br/legislacao/resolucoes/resol135.html>

Decree 5640/05

http://www.planalto.gov.br/ccivil_03/_ato2004-2006/2005/decreto/d5640.htm

Decree 8506/15

http://www.planalto.gov.br/ccivil_03/_ato2015-2018/2015/decreto/d8506.htm

Decree 8842/16

http://www.planalto.gov.br/ccivil_03/_ato2015-2018/2016/decreto/D8842.htm

Decree-Law 73/66

https://www.planalto.gov.br/ccivil_03/decreto-lei/del0073.htm

Decree-Law 261/67

https://www.planalto.gov.br/ccivil_03/decreto-lei/1965-1988/Del0261.htm

Law 4595/64

www.planalto.gov.br/ccivil_03/leis/L4595compilado.htm

Law 4728/65

http://www.planalto.gov.br/ccivil_03/leis/l4728.htm

Law 6385/76

www.planalto.gov.br/ccivil_03/LEIS/L6385compilada.htm

Law 6404/76

www.planalto.gov.br/ccivil_03/LEIS/L6404compilada.htm

Law 7102/83

http://www.planalto.gov.br/ccivil_03/leis/l7102.htm

Law 9613/98

www.planalto.gov.br/ccivil_03/leis/L9613compilado.htm

Law 10214/01

www.planalto.gov.br/ccivil_03/leis/LEIS_2001/L10214.htm

Law 12810/13

http://www.planalto.gov.br/ccivil_03/_ato2011-2014/2013/lei/l12810.htm

Normative Instruction RFB 1571/15

<http://normas.receita.fazenda.gov.br/sijut2consulta/link.action?idAto=65746&visao=anotado>

Normative Instruction RFB 1680/16

<http://normas.receita.fazenda.gov.br/sijut2consulta/link.action?idAto=79443>

Supplementary Law 105/01

http://www.planalto.gov.br/ccivil_03/leis/lcp/lcp105.htm

Supplementary Law 109/01

https://www.planalto.gov.br/ccivil_03/leis/lcp/lcp109.htm

Supplementary Law 126/07

http://www.planalto.gov.br/ccivil_03/leis/lcp/lcp126.htm

Supplementary Law 179/21

http://www.planalto.gov.br/ccivil_03/leis/lcp/Lcp179.htm

SUSEP Circular 599/20

<https://www2.susep.gov.br/safe/scripts/bnweb/bnmapa.exe?router=upload/26035>

SUSEP Circular 601/20

<https://www2.susep.gov.br/safe/scripts/bnweb/bnmapa.exe?router=upload/26734>

SUSEP Circular 619/20

<https://www2.susep.gov.br/safe/scripts/bnweb/bnmapa.exe?router=upload/23958>

SUSEP Circular 624/21

<https://www2.susep.gov.br/safe/scripts/bnweb/bnmapa.exe?router=upload/26762>

SUSEP Circular 655/22

<https://www2.susep.gov.br/safe/scripts/bnweb/bnmapa.exe?router=upload/27481>

SUSEP Circular 673/22

<https://www2.susep.gov.br/safe/scripts/bnweb/bnmapa.exe?router=upload/27482>

SUSEP Circular 675/22

<https://www2.susep.gov.br/safe/scripts/bnweb/bnmapa.exe?router=upload/27483>

SUSEP Circular 679/22

<https://www2.susep.gov.br/safe/scripts/bnweb/bnmapi.exe?router=upload/27484>

SUSEP Circular 686/23

<https://www2.susep.gov.br/safe/scripts/bnweb/bnmapi.exe?router=upload/27034>

SUSEP Ordinance 7649/20

<https://www2.susep.gov.br/safe/scripts/bnweb/bnmapi.exe?router=upload/22978>

BYLAWS, CODES AND POLICIES

Anti-corruption and Fraud Prevention Policy

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Business Continuity and Crisis Management Policy

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Bylaws

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Central Counterparty Risk Management Policy

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Code of Conduct and Ethics

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Compliance and Internal Controls Policy

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Communication Policy

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Corporate Governance Guidelines

<https://ri.b3.com.br/en/corporate-governance/overview/>

Corporate Policy on Combating Money Laundering, Concealment of Assets, Rights and Property, and Financing of Terrorism and Proliferation of Weapons of Mass Destruction (AML/CFT)

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Corporate Risk Policy

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Disclosure Policy

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Financial Investment Policy

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

HR and Compensation Policy

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Information Security Policy

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Information Technology Policy

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Internal Regulation of the Advisory Committees to the Board

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Internal Regulation of the Audit Committee

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Internal Regulation of the Corporate Governance and Nomination Advisory Committee to the Board of Directors

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Internal Regulations of the Board of Directors

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Internal Regulations of the Joint Board

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Policy for Trading Securities Issued by B3

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Policy on Related Party Transactions and other Conflict of Interest

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Social, Environmental and Climate Responsibility Policy

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

Stock Award Plan

<https://ri.b3.com.br/en/corporate-governance/bylaws-codes-and-policies/>

FINANCIAL INFORMATION AND REFERENCE FORM

4Q22 Earnings Presentation

<https://ri.b3.com.br/en/financial-information/results-center/>

Annual Report 2022

<https://ri.b3.com.br/en/financial-information/annual-report/>

Reference Form 2022

<https://ri.b3.com.br/en/>

NORMATIVE DOCUMENTS OF B3 CENTRAL DEPOSITORY, B3 CLEARINGHOUSE, B3 FOREIGN EXCHANGE CLEARINGHOUSE, OTC B3 AND FINANCIAL INFRASTRUCTURE UNIT

B3 Access Manual

http://www.b3.com.br/en_us/regulation/regulatory-framework/access/

B3 Access Rules

http://www.b3.com.br/en_us/regulation/regulatory-framework/access/

B3 Central Depository Operating Procedures Manual

http://www.b3.com.br/en_us/regulation/regulatory-framework/post-trade/

B3 Central Depository Rules

http://www.b3.com.br/en_us/regulation/regulatory-framework/post-trade/

B3 Clearinghouse Operating Procedures Manual

http://www.b3.com.br/en_us/regulation/regulatory-framework/post-trade/

B3 Clearinghouse Risk Management Manual

http://www.b3.com.br/en_us/regulation/regulatory-framework/post-trade/

B3 Clearinghouse Rules

http://www.b3.com.br/en_us/regulation/regulatory-framework/post-trade/

B3 Foreign Exchange Clearinghouse Rulebook

http://www.b3.com.br/en_us/regulation/regulatory-framework/post-trade/

B3 Foreign Exchange Clearinghouse Operating Manual

http://www.b3.com.br/en_us/regulation/regulatory-framework/post-trade/

B3 Foreign Exchange Clearinghouse Risk Management Manual

https://www.b3.com.br/pt_br/regulacao/estrutura-normativa/estrutura-normativa/pos-negociacao/

BSM Procedural Rules

<https://www.bsmsupervisao.com.br/legislacao-e-regulamentacao/leis-normas-e-regras>

Circular Letter 014/2021-PRE

https://www.b3.com.br/en_us/regulation/circular-letters-and-external-communications/circular-letters-and-external-communications/

Glossary (referring to normative documents of B3 Clearinghouse)

http://www.b3.com.br/en_us/regulation/regulatory-framework/post-trade/

Insurance and Reinsurance Operations Registration Manual

https://www.b3.com.br/pt_br/regulacao/estrutura-normativa/regulamentos-e-manuais/sro-operacoes-de-seguros.htm

Novo Mercado Listing Regulation

http://www.b3.com.br/en_us/regulation/regulatory-framework/listing/

Technology Infrastructure Access Manual

http://www.b3.com.br/en_us/regulation/regulatory-framework/access/
