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TRINIDAD AND TOBAGO

October 2020

PRESS RELEASE; FINANCIAL SYSTEM STABILITY ASSESSMENT; AND STATEMENT BY THE EXECUTIVE DIRECTOR FOR TRINIDAD AND TOBAGO

In the context of the Trinidad and Tobago Financial System Stability Assessment, the following documents have been released and are included in this package:

- A Press Release.
- The Financial System Stability Assessment (FSSA) for Trinidad and Tobago, prepared by a staff team of the IMF for the Executive Board's consideration on a lapse of time basis. This report is based on the work of joint IMF/World Bank Financial Sector Assessment Program (FSAP) missions to Trinidad and Tobago during November 2019 and January–February 2020. The FSSA report was completed on July 31, 2020.
- A Statement by the Executive Director for Trinidad and Tobago.

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IMF Executive Board Concludes 2020 Financial System Stability Assessment with Trinidad and Tobago

FOR IMMEDIATE RELEASE

WASHINGTON, DC – October 8, 2020: The Executive Board of the International Monetary Fund (IMF) concluded the Financial System Stability Assessment (FSAP)¹ with Trinidad and Tobago on August 31, 2020 without a meeting.²

This report is based on the work of joint IMF/World Bank Financial Sector Assessment Program (FSAP) missions to Trinidad and Tobago during November 2019 and January–February 2020. The FSSA report was completed on July 31, 2020.

The FSSA reflects FSAP work conducted mostly prior to the onset of the COVID-19 crisis. The FSSA focuses on Trinidad and Tobago's medium-term financial stability challenges and policy priorities. Given the FSAP's focus on tail risks and strengthening policy and institutional frameworks, including contingency planning and crisis management, the FSAP's findings and recommendations remain pertinent.

According to the FSSA the banking system was well capitalized and liquid but exposed to sovereign risk and potential liquidity risks stemming from non-bank financial entities in the group on the eve of the COVID-19 crisis. Illustrative stress tests were run subsequent to the FSAP missions to quantify the possible impact on bank solvency in adverse COVID-19 economic scenarios. Given the unprecedented nature of the ongoing pandemic, these scenarios are associated with significant uncertainty. The results suggest that under further strong deterioration of macrofinancial conditions some banks could breach their minimum capital requirements in 2022. Banks could also face liquidity pressures in the event of a run on investment funds issued in their groups. Financial vulnerabilities include rising household debt, sovereign exposures, potential spillovers from natural disasters (including climate-related) or sovereign shocks in the region, and contagion risks between investment funds and banks.

¹ The Financial Sector Assessment Program (FSAP), established in 1999, is a comprehensive and in-depth assessment of a country's financial sector. FSAPs provide input for Article IV consultations and thus enhance Fund surveillance. FSAPs are mandatory for the 29 jurisdictions with systemically important financial sectors and otherwise conducted upon request from member countries. The key findings of an FSAP are summarized in a Financial System Stability Assessment (FSSA).

² The Executive Board takes decisions under its lapse-of-time procedure when the Board agrees that a proposal can be considered without convening formal discussions.

While recognizing the progress made by the authorities, including to significantly enhance the anti-money laundering/ combating the financing of terrorism (AML/CFT) framework, the FSSA recommended they accelerate efforts to strengthen the regulatory framework for this regionally important financial system. Measures should include strengthening the independence, governance, and resources of financial supervisors; implementing the new banking regulations and modern, risk-based insurance supervision; and introducing system-wide regulation for investment funds while adopting a carefully sequenced transition to floating value investments. Macroprudential powers should also be adopted and used to attenuate banks' sovereign exposures among other risks. In addition, climate risks warrant a comprehensive environmental risk assessment of the financial sector and the development of a green finance strategy.



INTERNATIONAL MONETARY FUND

TRINIDAD AND TOBAGO

FINANCIAL SYSTEM STABILITY ASSESSMENT

July 30, 2020

Approved By
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Aasim M. Husain
Prepared By
Monetary and Capital Markets
Department

This report is based on the work of the FSAP mission that visited Trinidad and Tobago in November 2019 and January–February 2020.

KEY ISSUES

COVID-19 pandemic: This Financial System Stability Assessment (FSSA) reflects Financial Sector Assessment Program (FSAP) work conducted mostly prior to the onset of the COVID-19 crisis. The FSSA focuses on Trinidad and Tobago's medium-term financial stability challenges and policy priorities. Given the FSAP's focus on tail risks and strengthening policy and institutional frameworks, including contingency planning and crisis management, the FSAP's findings and recommendations remain pertinent.

Findings: On the eve of the COVID-19 crisis, the banking system was well capitalized and liquid but exposed to sovereign risk and potential liquidity risks stemming from non-bank financial entities in the group. Illustrative stress tests were subsequently run to quantify the possible impact on bank solvency in adverse COVID-19 economic scenarios. Given the unprecedented nature of the ongoing pandemic, these scenarios are associated with a substantial degree of uncertainty. The results suggest that under further strong deterioration of macrofinancial conditions some banks could breach their minimum capital requirements. Banks could also face liquidity pressures in the event of a run on investment funds issued in their groups. Financial vulnerabilities include rising household debt, sovereign exposures, potential spillovers from natural disasters (including climate-related) or sovereign shocks in the region. Regulatory and resolution frameworks have not kept pace with best practice, exposing the authorities to a continuing risk of bailouts.

Policies: While the authorities have made progress in implementing recommendations from the 2010 FSAP, further reforms are required to consolidate and leverage these gains. The authorities recently significantly enhanced the anti-money laundering/combating the financing of terrorism (AML/CFT) framework and should make similar progress on other areas of financial sector oversight. Financial supervision and

resolution frameworks need to be updated to meet best international practice, and supervisors' independence, resources, and powers strengthened. Macroprudential powers should be adopted and used to attenuate banks' sovereign exposures among other risks. Climate risks warrant a comprehensive environmental risk assessment of the financial sector and the development of a green finance strategy.

- The FSAP team was led by Marc Dobler (IMF) and Marius Vismantas (World Bank) and included deputy mission chiefs Claudio Visconti (IMF) and Oliver Masetti (World Bank). The team also comprised Ali Al-Sadiq, Hippolyte Balima, and Ivan Guerra (all IMF); Holti Banka, Ezio Caruso, Rami Mikko Ahmed Galal, Tatsiana Kliatskova, and Martijn Gert Jan Regelink (all World Bank); and external experts Peter van den Broeke, Geraldine Low, José Rutman, David Scott, Matthew Sullivan, and Daniel Waters. AML/CFT issues were covered remotely by Ivana Rossi (IMF) and Kuntay Celik (World Bank).
- The mission met with senior leaders and officials from a number of regulatory and government agencies in Port of Spain, including the Central Bank of Trinidad and Tobago (CBTT), Financial Intelligence Unit of Trinidad and Tobago, Ministry of Finance (MoF), Ministry of Labor and Small Enterprise Development, Trinidad and Tobago Securities and Exchange Commission (TTSEC), and Deposit Insurance Corporation (DIC). It also met with representatives from financial institutions, industry organizations, and the private sector.
- FSAPs assess the stability of the financial system as a whole and not that of individual
 institutions. They are intended to help countries identify key sources of systemic risk in
 the financial sector and implement policies to enhance its resilience to shocks and
 contagion. Certain categories of risk affecting financial institutions, such as operational
 or legal risk, or risk related to fraud, are not covered in FSAPs.
- This report was prepared by Marc Dobler and Claudio Visconti, with contributions from the members of the FSAP team.

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Glossary

AML/CFT Anti-Money Laundering/Combating the Financing of Terrorism

CBTT Central Bank of Trinidad and Tobago

CET1 Common Equity Tier One

CGBS Caribbean Group of Bank Supervisors
DFI Development Finance Institution
DIC Deposit Insurance Corporation
ELA Emergency Liquidity Assistance
FATF Financial Action Tasks Force

FSAP Financial Sector Assessment Program

FX Foreign Exchange

GDP Gross Domestic Product
LLR Loan Loss Reserves
MoF Ministry of Finance
NAV Net Asset Value

NIB National Insurance Board
NPL Nonperforming Loan
RAM Risk Assessment Matrix

SIFI Systemically Important Financial Institution
SIPS Systemically Important Payment Systems

STeM Stress Testing Matrix

TTD Trinidad and Tobago Dollar

TTSEC Trinidad and Tobago Securities and Exchange Commission

WEO World Economic Outlook

EXECUTIVE SUMMARY

The FSAP work was mostly conducted prior to the COVID-19 crisis. Given the FSAP's focus on medium-term challenges and tail risks, its findings and recommendations for strengthening policy and institutional frameworks remain pertinent. As the growth projections were significantly revised downward since the FSAP, the quantitative risk analysis on bank solvency was complemented to include illustrative scenarios to quantify the possible implications of the COVID-19 shock on bank solvency.

On the eve of the COVID-19 crisis, the financial system had weathered the 2016–18 economic slowdown but faced vulnerabilities. The banking system was well capitalized and liquid, and the general insurance sector had recovered from claims pertaining to climate-related events in the region. The Financial Action Task Force (FATF) had removed Trinidad and Tobago from the list of jurisdictions under increased monitoring, following significant progress in enhancing its AML/CFT framework. However, the financial system, which is nearly twice the size of the economy and is of regional importance, still faced vulnerabilities. These included the rise in household debt, a lack of supervisory independence and out-of-date regulatory frameworks; the sovereign-bank nexus and the absence of a macroprudential toolkit; and contagion risks between investment funds and banks. Growing regional exposures increased the potential for regional shocks from natural disasters (flooding, hurricanes, earthquakes) to propagate, while energy-related shocks could negatively impact growth and the fiscal position, with potential spillovers to the financial sector.

While banks appear resilient, potential vulnerabilities arise from group risks and the COVID-19 shock. Illustrative stress tests were subsequently run to quantify the possible impact on bank solvency in adverse COVID-19 economic scenarios. Given the unprecedented nature of the ongoing pandemic, these scenarios are associated with a substantial degree of uncertainty. The results suggest that under further strong deterioration of macrofinancial conditions some banks could breach their minimum capital requirements. The results also show that liquidity risks could arise through group structures. About 60 percent of investment funds are issued at fixed prices, and investors expect both preservation of capital and instant access. If the underlying value of a fund falls below the fixed price, these funds could quickly become depleted and liquidity stress could propagate across financial conglomerate structures from fund issuers to banks in the same group. Reform of the investment fund sector should be carefully sequenced to deliver a significant reduction in systemic risk by transitioning to floating-price products over time.

While the authorities have made progress in implementing recommendations from the 2010 FSAP, further reforms are required to consolidate and leverage these gains. Financial sector legislation and regulation have not kept pace with international best practice. The supervisors operate with guidelines in key areas, instead of binding powers, which limits their authority. Financial supervisors should be given powers to issue regulation independently, and their independence and resources strengthened. Up-to-date insurance legislation is expected to come into effect shortly, more than 10 years after the failure of a regionally systemic insurance group (CLICO), while a new dedicated legal framework for independent prudential regulation and supervision of credit unions is urgently required. The framework for designating and supervising

systemically important financial institutions (SIFIs) should be strengthened and enhanced supervisory oversight and capital surcharge buffers implemented. The Central Bank of Trinidad and Tobago (CBTT) should be assigned an explicit macroprudential mandate and powers, and significant gaps in the data needed for financial stability analysis should be addressed.

Risks associated with the state's role in the financial sector should be attenuated. The public sector absorbs roughly one-third of all domestic financial sector funds and sovereign exposure accounts for a sizeable share of financial institutions' assets. The authorities should implement prudential policies that encourage banks to diversify portfolios and limit sovereign exposures. A comprehensive financial sector development policy would outline the goals for the state's role in the financial sector, including for state-owned development finance institutions (DFIs).

The financial safety net should be strengthened to reduce the risk of financial bailouts. An upgraded resolution framework meeting best international practice is required, with a set of tools and powers able to preserve financial stability without putting taxpayers at risk. CBTT's framework for emergency liquidity assistance (ELA) should also be enhanced.

The financial sector is vulnerable to climate and environmental risks and the authorities' awareness and capacity need strengthening. Trinidad and Tobago's exposure to physical and transition risks warrants a comprehensive environmental risk assessment to better understand and raise awareness of the impact of climate change and environmental risks on the financial sector. CBTT should ensure board level commitment and integrate material aspects of climate change and environmental risks into its supervisory approach and guidance over time. The authorities should also explore ways to deepen financial markets for green growth and resilience by developing a green finance strategy.

| Recommendations | Responsible Authority | Time ¹ | |
|--|--------------------------|-------------------|--|
| Financial Sector Oversight | • | | |
| Undertake scenario solvency and cashflow-based liquidity stress tests for banks and conglomerate stress tests. | CBTT, TTSEC | NT | |
| Strengthen the independence, governance, and resources of financial supervisors, including assigning powers to issue regulation. | MoF, CBTT, TTSEC | NT | |
| Banks Implement the new Basel II/III banking regulations; update supervisory guidance and conduct more in-depth analysis in key risk areas. | MoF, CBTT | NT | |
| Insurers Implement modern insurance legislation and risk-based supervision. | MoF, CBTT | I | |
| Investment Funds Introduce regulation for investment funds, require industry-wide compliance; and implement carefully sequenced industry-wide transition to floating funds. | MoF, TTSEC, CBTT | NT MT | |
| Credit Unions Adopt new legislation and regulation for supervision and assign to a fully independent supervisor with sufficient powers and resources. | MoF | NT | |
| Financial Markets Infrastructure Enact a comprehensive National Payments Law. | MoF, CBTT | MT | |
| Financial Conglomerates Implement consolidated risk assessment methodology for financial conglomerates with cross-sector views of all material entities. | CBTT, TTSEC | NT | |
| Systemically Important Financial Institutions (SIFIs) Revise deemed SIFI list, using best practice methodology, assign commensurate supervisory powers, and implement buffers. | MoF, CBTT | NT | |
| Market Integrity Continue to strengthen the AML/CFT framework and address remaining FATF recommendations. | Authorities | I | |
| System-wide Oversight and Macroprudential Policy Strengthen financial sector data, assign macroprudential powers to CBTT and implement prudential policies that encourage banks to limit sovereign exposures. | Authorities | NT | |
| Financial Safety Net Amend legislation to align resolution regime with best international practice, establish a resolution unit at CBTT, and initiate resolution planning. Strengthen emergency lending assistance, deposit insurance, and resolution funding. | MoF, CBTT, DIC | NT | |
| Financial Development and Climate Risk | | | |
| Develop a financial sector development policy strategy covering DFI mandates and state-owned commercial banks. | MoF | MT | |
| Undertake a comprehensive environmental risk assessment of the financial sector and develop a green finance strategy. | MoF | MT | |
| ¹ "I-Immediate" is within one year; "NT-near-term" is 1–3 years; "MT-medium-term" is 3–5 years | ars. | | |

MACROFINANCIAL CONTEXT

A. Background

1. Trinidad and Tobago continues to face economic volatility. At the time of the FSAP the economy had been recovering from an energy-driven slowdown (Table 2). COVID-19 subsequently struck, and the authorities adopted a range of policy measures to contain the pandemic and mitigate the economic impact (Box 1). The economic growth projections for Trinidad and Tobago and oil price assumptions were significantly revised downward as a result of the COVID-19 shock. In light of these developments, the quantitative risk analysis on bank solvency was updated to confirm that the FSSA findings remain relevant and informative.

Box 1. The Authorities' Initial Responses to COVID-19

Containment measures: Have included the closure of the country's borders, travel restrictions, and school and university closures.

Fiscal policy measures: The authorities announced fiscal support measures totaling about TT\$3.7 billion (2.3 percent of GDP) and estimated the total revenue shortfall due to the outbreak and the energy price shock at around TT\$9 billion (6 percent of GDP). The measures include but are not limited to providing salary relief (for up to three months) to temporarily unemployed workers and persons who would have had their incomes reduced; VAT and income tax refunds to individuals and small firms; and liquidity support to individuals and small businesses via subsidized credit union loans.

Monetary policy measures: CBTT lowered the policy rate by 150 bps to 3.5 percent, and the reserve requirement on commercial bank deposits by 300 bps to 14 percent. CBTT also announced that it would temporarily relax (for three months) the regulatory treatment of restructured bank loans (for payment deferrals, rate reductions and waivers of penalty charges) that were previously performing.

2. While the authorities have made progress in implementing the 2010 FSAP recommendations further reforms are merited. The work on consolidated supervision has advanced with CBTT adopting consolidated supervision guidance internally. Prudential reporting was expanded with the collection of additional regulatory data. A new modern insurance legislative and significantly strengthened supervisory regime are expected to come into effect shortly. As a member of the Caribbean Group of Bank Supervisors (CGBS), CBTT has provided input into the draft Regional Crisis Management Plan that includes the collaboration and coordination of 15 representative countries. The CBTT has implemented quarterly stress tests on the eight commercial banks. Both single factor and multi factor shocks are used for the solvency stress tests while liquidity stress tests are based on number of survival days (days until illiquid) in local currency and foreign currency. Results are reported in the CBTT Financial Stability Report. Subsequent to the FSAP missions the authorities promulgated the Basel II/III Financial Institutions (Capital Adequacy) Regulations containing, among others, the introduction of Pillar 2 requirements and additional elements of Basel III (including a leverage ratio and the capital conservation buffer). Despite these accomplishments to date, further reforms to strengthen financial sector oversight are crucial as discussed below.

B. Financial System Structure

- 3. The financial system is large (assets nearly twice GDP), diversified and of systemic importance in the region.
- **Financial conglomerates and SIFIs.** There are six bank-led and two insurance-led groups accounting for about half of financial sector assets. The authorities designated 11 SIFIs comprising 4 bank groups, 2 insurance groups, and 5 statutory corporations. CBTT lacks formal powers to supervise the latter, and not all are systemic from a financial stability perspective. The two largest bank groups are majority government owned, and one is expanding in the region.
- Banks. On the eve of the COVID-19 crisis, capital adequacy and return on equity were above 20 percent. Nonperforming loans (NPLs) were low but retail refinancing and debt consolidation loans had risen (Figures 1–5, Tables 3 and 4).¹

 Evolution of the Financial System Structure Percent of Total Assets, 2009 vs. 2018
 **Commercial Bank
- Insurers. One insurer is the second largest in the region. The 2009 failure of CLICO caused a crossborder shock and precipitated a domestic fiscal outlay of 17 percentage points of GDP. Excluding CLICO, the life insurance has a strong capital base and general insurers were resilient to recent climate



and general insurers were resilient to recent climate-event-related claims.

- **Investment managers.** The largest issuer is state-sponsored; other major issuers form part of bank and insurance conglomerates.
- **Credit unions.** The sector lacks an adequate regulatory and supervisory framework and reporting is weak. While assets of the sector are only 9 percent of GDP, membership is high.

RISK ASSESSMENT

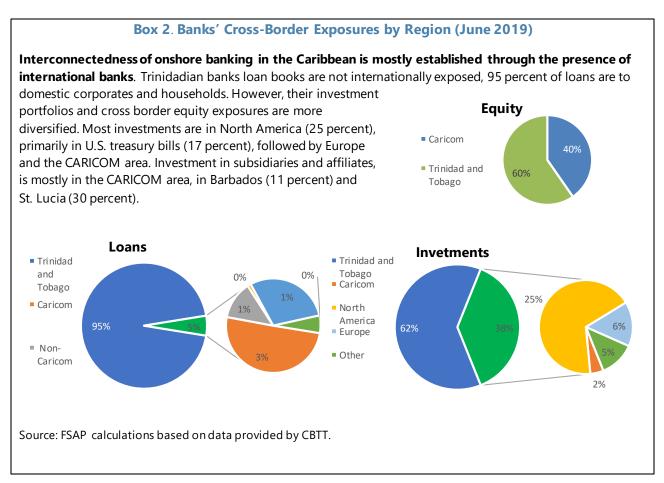
A. Financial Sector Vulnerabilities

4. On the eve of the COVID-19 pandemic, potential vulnerabilities pertained to energy dependence, household debt, regional interconnectedness, sovereign exposures, and conglomerate structures. The economy is highly dependent on the energy sector and closely integrated within the region (Figures 6–11, Box 2). Spillovers could arise from natural (including climate related) and regional or domestic sovereign shocks. Energy shocks that trigger a prolonged downturn could pose financial stability risks. The public sector absorbs roughly one-third of all domestic financial sector exposures, which could potentially create adverse feedback loops. Domestic financial investment opportunities are limited, and outward investments constrained by explicit limits and foreign exchange (FX) shortages. Household debt has increased by almost 12 percentage points of GDP since 2010. Finally, about 60 percent of investment funds by assets under management (AUM)

¹ Refinanced loans replace an existing debt obligation into a new loan under different terms; consolidation loans amalgamate multiple debt obligations into a single one—they display higher NPL ratios than other loan categories.

are at fixed prices, for which investors expect preservation of capital and instant access. If the underlying value of funds falls below the fixed price, they could quickly become depleted and propagate liquidity shocks across financial groups.

5. The financial sector is also vulnerable to climate and environmental risks. While Trinidad and Tobago faces relatively less direct exposure to hurricanes (compared to other economies in the northern Caribbean region), the insurance sector was hit by recent hurricanes across the region, notwithstanding reinsurance arrangements cushioning the financial impact. Climate change is expected to add an additional layer of environmental risk—rising sea levels, intensification of hurricanes, and more volatile weather all would increase credit, market, operational, and underwriting risks. As Trinidad and Tobago is the largest natural gas and oil producer in the region, the financial sector is indirectly exposed to significant transition risks.



6. The financial system is also vulnerable to a prolonged COVID-19 outbreak. The broad impact of the COVID-19 crisis and associated uncertainties could risk impairing the financial system, either through losses in domestic and cross-border holdings or through conglomerate group structures (RAM, Table 5). Risks could materialize from specific or from mutually reinforcing vulnerabilities. Regarding COVID-19 specifically, longer containment and uncertainties about the intensity and the duration of the outbreak could reduce domestic economic activity. A more protracted economic contraction in global growth would have a sustained negative impact on

Trinidad and Tobago's production and exports from the energy sector, and on domestic investment and consumption. The resulting economic downturn could lead to stress in the financial sector due to increases in NPLs and or tightened liquidity conditions.

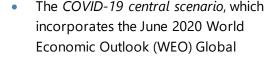
B. Bank Solvency Stress Tests

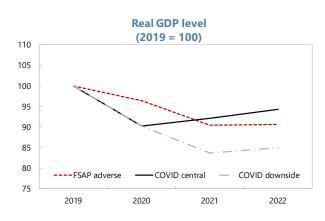
- 7. The resilience of commercial banks was assessed by three illustrative stress scenarios: two COVID-19 scenarios, and a pre-COVID-19 adverse scenario. It is worth mentioning that while these illustrative scenarios represent severe but plausible macroeconomic shocks, they do not represent staff's economic forecasts for Trinidad and Tobago, and are subject to an unusually high degree of uncertainty given the unfolding impact of the ongoing pandemic.
- 8. Although the scenarios differ, including with respect to their assumptions on financial conditions, the same methodology is used to quantify their implications on bank solvency. In all three scenarios, credit losses were estimated from cross-country analysis and loan classification and loan loss provisioning were adjusted. Using the methodology developed by Fund staff, credit-loss sensitivities to GDP were applied to the adverse scenario to obtain bank-by-bank credit losses. Two adjustments were made to the pre-stress test position of banks. First, the initial level of provisions was adjusted to that in 2009, given its current relatively low level. Second, the NPLs and capital ratios were adjusted to reflect the higher risk in refinancing and debt consolidation loans. Households may have utilized lower interest rates to restructure debt but could also have been facing loan repayment difficulties given the 2016–18 slowdown. The NPL stock was therefore increased by the total stock of refinancing and consolidation loans and additional provisions applied (using the provisioning rate for sub-standard loans). The impact of these consolidated adjustments plus the adverse-scenario shock raised the aggregate NPL ratio to about 12 percent.

COVID-19 Solvency Stress Test

9. The pandemic has led to a sharp deterioration in the economic outlook. Additional

scenario analyses have been performed since the FSAP missions to quantify the impact of COVID-19 on bank solvency. These scenario analyses were based on the same three-year horizon satellite estimations used in the original exercise (described below and in Appendix II). Two scenarios were considered:





 $^{^2}$ Cross-country estimates were used as the FSAP was unable to find a robust statistical relationship between bank NPLs and GDP over the period used.

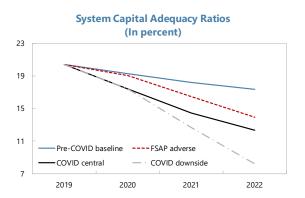
³ https://www.imf.org/en/Publications/WP/Issues/2016/12/31/Rules-of-Thumb-for-Bank-Solvency-Stress-Testing-41047

Assumptions for oil and gas prices and U.S. growth, envisages a sharp contraction in real GDP of close to 10 percent in 2020, followed by a rebound of 2–2½ percent both in 2021–22.4

• The COVID-19 downside scenario reflects potential further downside risks to the COVID-19 central scenario. This scenario incorporates a more prolonged recession in 2021, instead of a rebound, with the economy continuing to contract (by 7.2 percent in 2021) before mildly recovering in 2022. This scenario implies a cumulative decline in real GDP relative to the October 2019 WEO projections equivalent to 2.2 standard deviations over two years.

10. The scenarios show that the COVID-19 shock will likely have a significant impact on

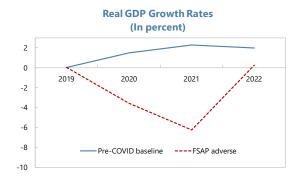
bank capital. At the end of the risk analysis horizon, the aggregate capital adequacy ratio (CAR) for banks drops by 8 percentage points under the COVID-19 central scenario and by 12 percentage points under the COVID-19 downside scenario. No bank would fail the 8 percent minimum CAR under the COVID-19 central scenario. However, three banks (two large and one small) would go below the minimum CAR in 2022, in the COVID-19 downside scenario (combined recapitalization needs equivalent to 1.6 percent of GDP).



Pre-COVID-19 Solvency Stress Test

11. The pre-COVID-19 adverse scenario reflects those risks in the risk assessment matrix (RAM, Table 5) prior to the onset of the pandemic. These included a significant drop in energy

prices, regional contagion, a (domestic) confidence shock, and sharp rise in risk premia. Weaker global growth and natural disasters including climate-related risks, were assumed to operate through transmission channels similar to the confidence shock and regional downturns, respectively. The adverse scenario produced a V-shaped recession, with a cumulative real GDP decline relative to the October 2019 WEO baseline equivalent to 1.5 historical standard deviations.⁵



While the risks used in the stress tests precedes the impact of the COVID-19 pandemic, key risks—such as a deep global recession, an abrupt tightening of financial conditions, and lower oil prices—are relevant in the context of the current crisis.

⁴ The COVID-19 central scenario reflects a stress test scenario rather than an economic forecast for Trinidad and Tobago.

⁵ The 1.5 standard deviation shock was used in recognition that the financial sector had already weathered a multi-year slowdown that led to a negative real output gap in recent years.

12. Based on the stress tests undertaken before the COVID-19 shock, no bank would breach current capital minima in the adverse scenario. No bank became undercapitalized—below the minimum CAR of 8 percent required at the time of the stress tests—in the adverse scenario due to their strong initial capital buffers and profitability. However, one large bank did fall below 10 percent, a level which banks are required to transition to within a year under the new Basel II standard, and a smaller bank came close. The FSAP recommended that CBTT introduce scenario-based solvency stress tests.

C. Bank Liquidity Stress Tests

13. Liquidity stress test results suggest that while banks have adequate overall liquidity, they face FX risks. A cashflows-based liquidity stress test was implemented with run-off rates applied for each liability (e.g., up 68 percent for time deposits) by contractual maturity bucket. Cash and shorter-term securities were included in the bank's counterbalancing capacity. Haircuts were applied to longer-term securities, given the lack of a deep secondary market. Banks proved resilient with sufficient counterbalancing capacity to meet severe aggregate deposit outflows. A large bank failed in the shortest maturity bucket, but only by a small share of its total deposits. FX liquidity buffers at three banks were, however, insufficient to meet FX deposit outflows at maturities up to one year. While the total FX liquidity gaps were small at the system-wide level, amounting to 1 percent of FX deposits, the results are significant because of the limited availability of FX.6 CBTT should implement cashflow-based liquidity stress tests in domestic and foreign currency.

D. Insurance Stress Tests

- **14. Two top-down solvency stress tests were applied.** Shocks were applied to interest rates, market prices, and credit risks in the first test, and reinsurance costs in the second test, which simulated natural disaster shocks. Two solvency hurdles were applied for the current and new capital regime (see below). The tests covered seven of the largest insurers and included two life companies, three general insurers, and two composite insurers, representing 75 percent of the market. The largest five insurers were chosen for the first shock, to which all but the entity in liquidation proved robust, although the results underlined asset and liability duration mismatches. The three general insurers were used for the catastrophe scenario, one with significant regional exposure.
- 15. The insurers proved potentially vulnerable to a series of severe natural catastrophes. The catastrophic scenario applied three consecutive natural shocks within the region. These represent a significant but realistic escalation on risks realized to date. The catastrophe scenario consumed 30 percent of available regulatory capital under the incoming capital regime, and one general insurer failed.

 $^{^{6}}$ FX rationing presents risks, e.g., significant intervention would reduce system-wide liquidity.

E. Investment Fund Stress Tests

- 16. The adverse scenarios encompassed market and redemption risks. The principal objective of the tests was to establish how much support the funds would need from banks within the group to meet redemptions and continue to operate. The first test applied a 40 percent redemption level combined with higher interest rates and bond spreads, lower equity prices, and haircuts on asset fire sales. The second test simulated a sudden loss of confidence in the sector, resulting in 50 percent redemptions. Given the general illiquidity in the domestic markets, it was assumed that market sales of domestic assets would not be possible under stressed conditions, and the buyer would be the bank in the group, applying a haircut. Five fund managers representing 90 percent of total investment fund AUM were covered—the largest fund manager, a state-sponsored deemed SIFI, the next three largest fund managers (all in banking groups), and the largest in an insurance group. The results from both stress tests showed very sizeable calls on liquidity from the banking sector.
- 17. The results from the shock on investment funds were overlaid on the bank liquidity stress test results. The results from the second test above were applied and an additional assumption made that Trinidad and Tobago banks' deposits in other countries in the region would be ring-fenced as foreign regulators sought to insulate their financial systems from an abrupt withdrawal of funds prompted by the shock in Trinidad and Tobago. Under this severe scenario, two additional foreign banks fail the liquidity test in all currencies and one additional large domestic bank failed the test in FX. In light of these findings, the authorities should periodically undertake conglomerate stress testing.

FINANCIAL SECTOR OVERSIGHT FRAMEWORK

18. Financial sector supervision is undertaken by several agencies. The MoF is responsible for the enactment of laws and regulations for ensuring a safe and sound financial system. CBTT is responsible for supervising commercial banks, nonbank financial institutions, insurers, pension funds, bureaux de change, and financial market infrastructures. TTSEC supervises the securities market, investment funds, and broker-dealers. While the Commissioner for Cooperative Development at the Ministry of Labor and Small Enterprise Development currently supervises credit unions, it was recently announced that a new agency under the MoF would assume this responsibility. The Financial Institutions Act (2008) provides CBTT with a financial stability mandate; however, currently it lacks a designated macroprudential framework and powers. Significant data gaps need be remedied to enable effective micro- and macroprudential supervision (Appendix I).

A. Strengthening System-wide Oversight

Macroprudential policy

19. A strong and comprehensive macroprudential policy framework should be implemented. The Central Bank Act should be amended to provide CBTT with explicit macroprudential authority and tools and limits on loan-to-value and debt service-to-income ratios.

The law should be amended to provide a legal foundation for macroprudential tools⁷ and to collect the data needed to calibrate them. The authorities should implement prudential policies that encourage banks to diversify portfolios away from sovereign exposures. The policies could take the form of one or more, non-mutually exclusive approaches, such as a carefully calibrated systemic risk buffer based on concentration of exposures, or Pillar II supervisory measures. Implementation should be phased in to avoid procyclicality and disruptions to both sovereign debt markets and bank lending capacity.

20. The framework for designating and supervising SIFIs should be strengthened. A revised SIFI methodology meeting best international practice should be applied. Identification should be accompanied by implementation of the capital surcharge and supervisory processes (enhanced monitoring), commensurate with the risks they pose. The Financial Institutions (Capital Adequacy) Regulations, 2020 (promulgated after the FSAP missions) introduced an additional charge for systemic banks, planned to be made effective in January 2022.

B. Supervision and Regulation

21. The powers, independence, and resources of the financial supervisors should be strengthened. Financial supervisors should be given powers to issue prudential regulations and take supervisory decisions independently from the MoF. The lack of such powers, combined with the excessively long time it currently takes to implement regulation, means that the supervisors currently operate without binding powers in key areas, limiting their effectiveness and compliance with international standards. Despite these constraints, the supervisors have taken important steps to strengthen supervisory oversight, including strengthening AML/CFT supervision, and oversight of financial groups, as well as commencing a transition to Basel II for banks. CBTT's supervisory staff is stretched, however, given the number of institutions they supervise, and should be augmented. TTSEC has limited ability to control its budget, and the remuneration of professional staff is significantly below the level required to attract and retain requisite expertise. A cost-recovery review is underway and should develop realistic proposals to increase TTSEC's resources.

Banking

- 22. The FSAP undertook an assessment against the international standard (Appendix IV), which identified that CBTT's risk-based supervisory framework needs updating in key areas:
- **Capital:** Draft Basel II/III capital regulations were awaiting parliamentary approval at the time of the FSAP. They were subsequently adopted in May 2020 and will strengthen resilience via higher capital requirements, including pillar II and III requirements, a leverage ratio and a capital conservation buffer.

⁷ https://www.imf.org/en/Publications/Policy-Papers/Issues/2016/12/31/Staff-Guidance-Note-on-Macroprudential-Policy-Detailed-Guidance-on-Instruments-PP4928

- **Liquidity:** Liquidity regulations should be issued for a liquidity coverage ratio (being planned) and a net stable funding ratio. Funding strategies, together with contingency liquidity arrangements, should be approved by bank Boards and stress tested.
- **Risks:** CBTT should develop further guidance and/or conduct more in-depth analysis on key risk areas including market, credit (see below), liquidity, interest rate risk in the banking book, FX, cyber, AML/CFT, 8 and climate risks, as well as enhancing its supervisory data in these areas.
- **Corporate governance:** CBTT should update bank corporate governance guidelines to ensure banks have adequate internal control and risk management practices (risk data aggregation, IT, valuation methodology) in place and specify additional requirements for SIFIs (e.g., mandatory Board committees). CBTT needs to communicate examination findings on a timely basis and meet frequently with banks' Boards/independent members.
- **23. CBTT should continue to strengthen oversight of credit risks.** While NPLs were 3.4 percent of total loans at end-June 2019, past-due loans (more than 30 days overdue) were 4.5 percent and riskier refinanced and debt consolidation loans accounted for close to 7 percent of total loans. CBTT should build on steps already taken and conduct in-depth, regular onsite credit reviews at all large banks to assess the continuing adequacy of asset classification, quality of underwriting, and adequacy of provisioning. CBTT's credit risk guidance should be updated to reflect international best practices.

Insurance

24. The recently passed insurance legislation should significantly strengthen the supervisory regime. The failure of CLICO in 2009 triggered substantial fiscal outlays and propagated a cross-border shock. At the time of the FSAP, the insurance supervisor continued to work with serious limitations, including inadequate capital requirements and restrictions on related-party transactions, as well as insufficient legal authority for onsite supervision. Improvements in the new legislation include introducing risk-based capital, 9 enhanced reporting, stricter requirements around corporate governance and in respect of market conduct, and strengthening CBTT's enforcement powers, among others. Final amendments were recently approved by parliament and should be enacted urgently. 10 Risk-based supervision will require enhanced technical skills and additional resources at CBTT. The supervisor will need to develop and issue technical guidelines, monitor the introduction of risk-based capital, develop a supervisory review and reporting framework, and adopt policy on enforcement measures including a "ladder of intervention".

Investment funds

25. The regulatory regime for collective investment schemes is being updated. A new regulatory regime is being developed, with new binding requirements covering investment restrictions; reporting requirements; segregation and custody of client assets; asset valuation and

 $^{^{\}rm 8}$ CBTT issued detailed revised guidance on AML/CFT in 2018.

⁹ With a five-year transitional period to implement the new capital requirements.

¹⁰ Requiring presidential proclamation, which awaits final revisions to tax legislation and approval of the regulations.

pricing; fund borrowing; and suspension of redemptions. These reforms are critical for addressing the systemic risks posed by this sector and should be brought into force without delay. TTSEC should finalize implementation of the risk-based supervision framework as a matter of urgency and develop rules on liquidity management.

26. Investment fund structures should be reformed. The market is dominated by constant NAV funds (those with fixed prices), the regulation of which is insufficient to capture the risks they pose, both to the investors and to the financial groups that issue them. Experience during the global financial crisis triggered international reforms to transition away from such products, except for those with highly liquid, low-risk assets that are unavailable in the domestic market. While transitioning to variable NAV structures presents legal, operational, and market-impact challenges, it is critical to rebalance the sector away from quasi deposit-taking activities into longer-term investments. Reforms should be implemented in a carefully sequenced manner. Moving the industry to variable NAV structures requires levelling the regulatory playing field—removing statutory exemptions from which a large statutory corporation (which manages nearly half the assets invested in constant NAV funds) currently benefits.

Financial conglomerates

27. Group-level supervision of financial conglomerates needs to be strengthened, given their systemic importance. To underpin group-level risk assessments, risk-based supervision needs to be strengthened at the solo level. ¹¹ Although CBTT has the power to require a regulated financial holding company structure, CBTT's group-level risk assessments do not incorporate analysis of all material financial entities (e.g., including insurance and securities firms) in the group. Despite CBTT adopting consolidated supervision guidance internally, it has not fully introduced the necessary prudential requirements nor implemented the principles underpinning this guidance as it pertains to all sectors. CBTT, together with TTSEC, should agree and communicate group-level prudential requirements together with expectations and consequences of non-compliance. Last, CBTT and TTSEC should continue to strengthen the regular sharing of data and views on group entities.

Credit unions

28. The supervision of credit unions requires urgent reform. The current legal framework dates back to 1971 and the supervisor lacks sufficient powers and resources. It also has a dual, conflicting mandate for developing all (including nonfinancial) cooperatives. A new dedicated legal framework should be introduced, with an independent authority that is solely responsible for regulation and supervision, with sufficient powers and resources. CBTT is best placed to meet this role, as replicating supervisory capacity for deposit takers would take time and duplicate scarce resources. If the authorities were to establish a new agency as announced, however, it would need operational independence, sound governance, adequate resources, and legal protection. Its Board should include professional and operationally independent members and exclude industry

¹¹ Including strengthen analysis of key risk areas for banks and finalizing the implementation of risk-based supervision in insurance and securities sectors.

representatives to avoid conflicts of interest. A system-wide diagnostic followed by a clean-up of the sector is essential before introducing sector-wide deposit insurance.

Financial market infrastructures

29. The current legal/regulatory framework for payment systems should be updated. The Central Bank Act grants powers to CBTT for the supervision of the payments market. A guideline covers CBTT's oversight of systemically important payment systems (SIPS); however, it does not cover in detail the various onsite and offsite processes and the type of data to be collected, including for cyber resilience measures. The Guideline treats both, large value payment systems and retail payment systems as SIPS in the context of oversight, despite the different levels of risk they introduce to the national payment systems. A comprehensive National Payments Law (as planned by the CBTT) should address these and other gaps in the current framework and allow for new types of payment service and infrastructure providers (FinTech). Local debit cards should also be made usable for online payments. Finally, cyber resilience policies and guidelines should be incorporated into the oversight framework, particularly for payments systems operators.

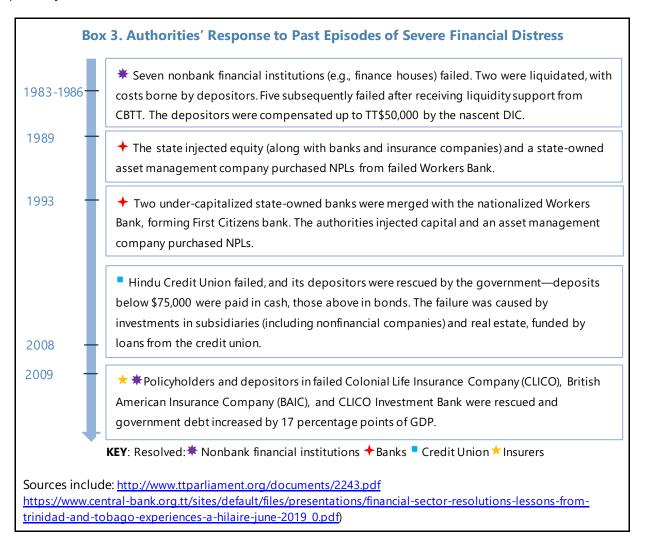
C. Market Integrity

30. In February 2020, the FATF removed Trinidad and Tobago from the list of jurisdictions under increased monitoring, based on the progress in implementing its AML/CFT framework. The country addressed the seven areas with strategic deficiencies identified in the 2017 action plan. The FATF considers that the institutional capacity and commitment are in place to continue strengthening the AML/CFT framework. Despite an impact from the financial integrity weaknesses identified, banks were able to maintain correspondent bank relationships. While issues with due diligence and wire transfers were reported, domestic banks were largely successful at maintaining their U.S. and non-U.S. relationships without significant disruption to cross-border transactions. The authorities should continue implementing reforms and progress in addressing the remaining FATF recommendations, and enhance internal information technology capacity to support the AML/CFT supervision activities with more data analysis.

FINANCIAL SAFETY NET

31. The resolution regime should be updated to meet best international practice. The authorities resolved past financial failures at significant cost and risk (Box 3). To mitigate this risk, an upgraded resolution regime should be introduced, with powers better able to impose losses on the creditors of failed financial entities while preserving financial stability. The scope of the current regime should be extended to additionally cover any other financial institutions systemic at the point of failure. It should include explicit powers to write-down or extinguish shareholders' financial rights and impose losses on creditors (and/or convert them into shareholders), and to require adequate loss-absorbing capacity. The potential for a court to reverse resolution actions should be replaced with ex post review and compensation. Joint decision-making with the Minister of Finance should be limited to resolution cases that entail public funding. CBTT should be formally designated as the resolution authority, and it should establish a Resolutions Unit, with a clear separation between supervisory and

resolution functions. Resolution plans should be prepared for at least those institutions that could prove systemic in failure.



32. Other aspects of the financial safety net should also be strengthened. CBTT should have legal authority, without having to rely on special emergency powers, to accept a wider range of collateral (including loans and not just securities), in providing ELA. Provision should be available to any financial institution that could prove systemic upon failure. 12 Access should be at CBTT's discretion for borrowers deemed solvent and viable on a forward-looking basis, against adequate collateral. If there is any uncertainty on these issues and CBTT still provides liquidity (e.g., in a systemic case), it should be indemnified for potential loss by the MoF. Solvency support should only be available from the government, not from CBTT. Any unrecovered public support should be recouped from levies on the financial sector. The deposit insurance scheme should be strengthened by setting a statutory target for initiation of payouts in seven days; enabling the deposit insurance fund to fund resolution of a member on a least-cost basis; and establishing a stand-by credit-line from the government. A cross-agency body should be established (as planned), chaired by CBTT and

¹² Potential recipients could include insurers designated as SIFIs, and large credit unions whose disorderly failure could give rise to systemic distress once they are adequately supervised.

comprising the MoF, CBTT, TTSEC, the credit union supervisor, and the Deposit Insurance Corporation. It should be a forum for regular information exchange and coordination in respect of financial sector policy, regulatory and development issues, and be the coordinating body in a financial crisis.

FINANCIAL DEVELOPMENT AND CLIMATE RISK

A. State's Role in Financial Intermediation

- **33.** A comprehensive financial sector development strategy should be developed. The efficiency of state-owned DFIs is hampered by their small size, unreliable funding, high NPLs, and, at times, overlapping mandates. Merging those with overlapping mandates into larger and financially stronger entities, and harmonizing regulation of them, would increase their efficiency and developmental impact. Consolidation should form part of a comprehensive financial sector development strategy that outlines priorities and responsibilities of the state's role, financial intermediation, including as majority shareholder of the two largest commercial banks. Such a strategy should be developed by a high-level committee that includes all relevant stakeholders. In order to enhance investment options for the household sector beyond investment funds and bank deposits, the government should upscale its support for capital market development by publicly listing shares of viable state-owned enterprises and allocating a substantial fraction to retail investors.
- **34. The public pension system requires reform.** The National Insurance Board (NIB) manages the public pension system and intermediates a sizeable volume of household savings. Outflows have been exceeding inflows from contributions since 2014, due to an aging population and a shrinking contributor base. Key recommendations from the International Labor Organization's Tenth Actuarial Review include: (i) increasing contributions; (ii) reducing the pension for those retiring before age 65; and (iii) freezing minimum pensions. Without reforms, the NIB would need to embark on asset sales to meet distributions, critically weakening the public pension system.

B. Digital Financial Services

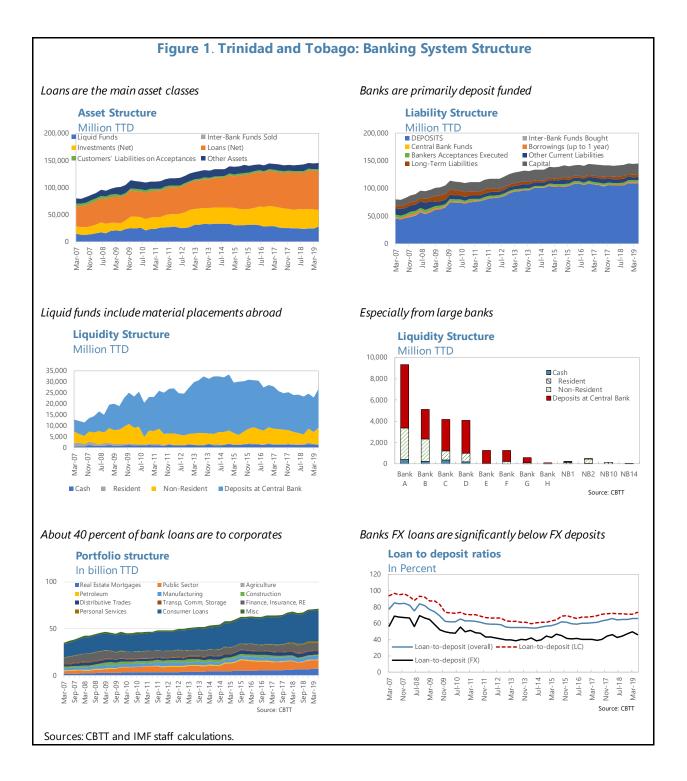
inclusion.

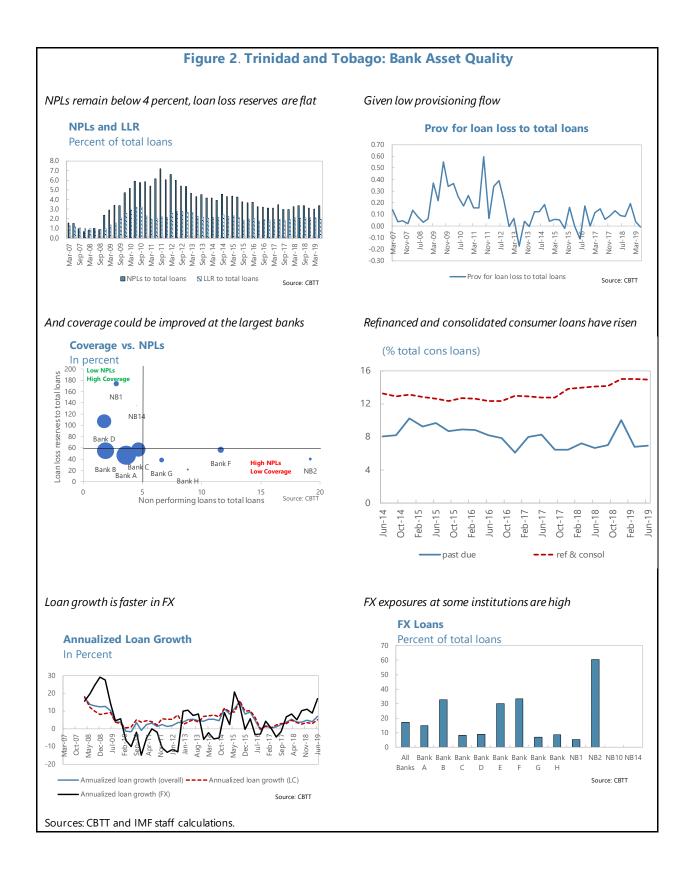
35. The use of digital financial services is low and would benefit from legislative reform. Drivers include the lack of innovative players in the market, high fees, lack of inter-operability in digital payment systems, paper-based government payments, and low financial literacy. The comprehensive national payments law and approval of the CBTT's proposed E-Money Policy are needed to address gaps in the current legal framework and accommodate FinTech. CBTT completed public consultation of an E-Money Policy, which would allow new entrants (for example, telecom and payment services providers) and open up the market and create a level playing field, helping financial

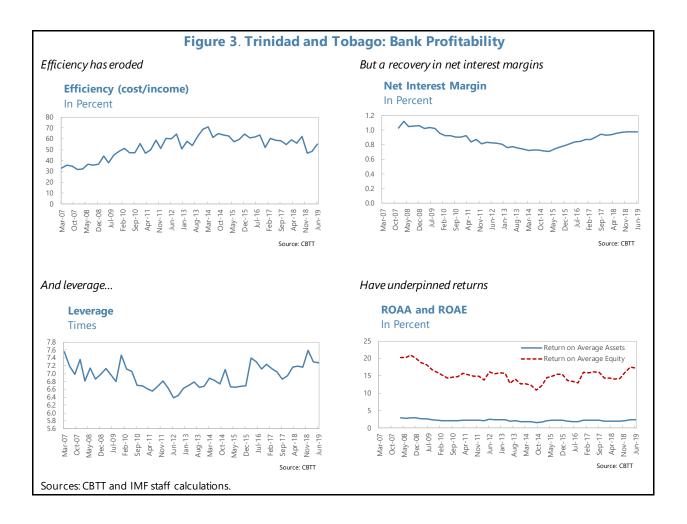
C. Climate and Environmental Risks

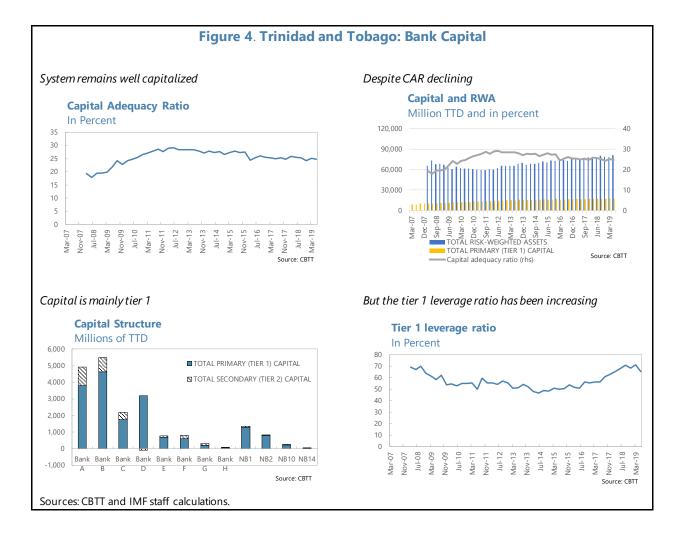
36. The financial supervisors should strengthen the understanding, management, and disclosure of climate and environmental risks. A comprehensive environmental risk assessment would help raise awareness of the impact of climate change and environmental risks on the financial

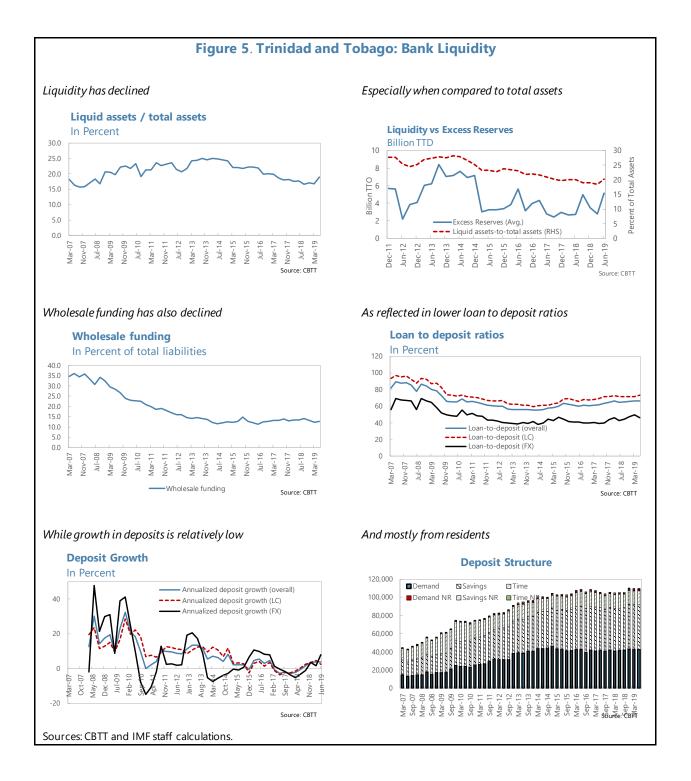
sector. This should be supported by improved data collection and monitoring of regional and sectoral exposures to climate and disaster risks. The authorities should also help deepen financial markets for green growth and resilience. Green finance can help to fund greening of the private sector, ensure and amplify government policy, and potentially accelerate a low carbon transition and help resilience. The authorities should develop a comprehensive green finance strategy to align financial sector policies and incentives with climate objectives, including commitments under the Paris Agreement.

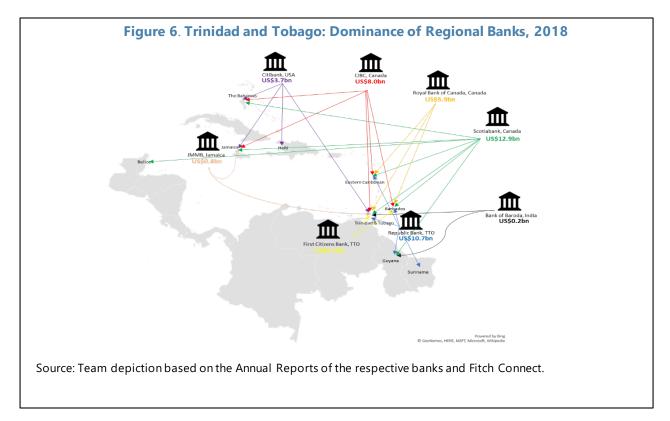


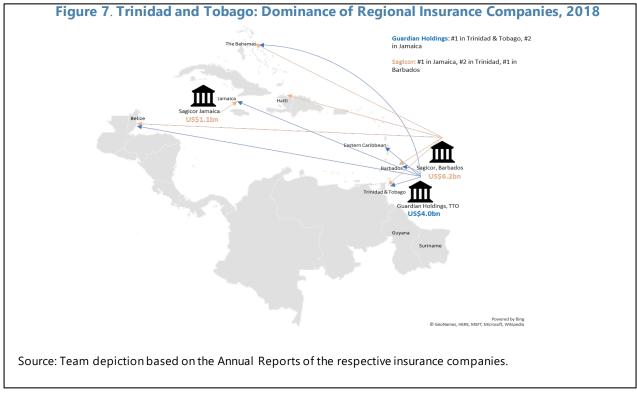


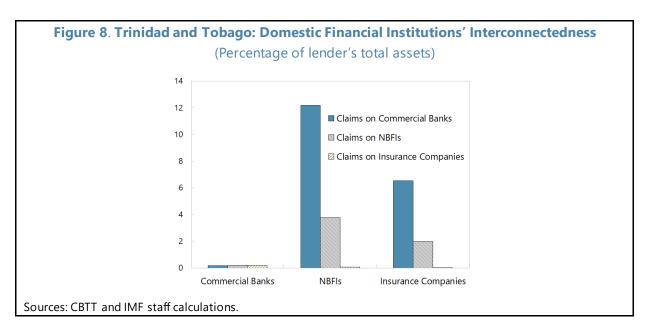


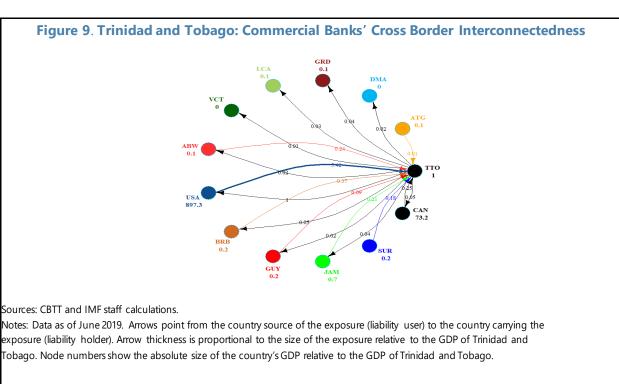












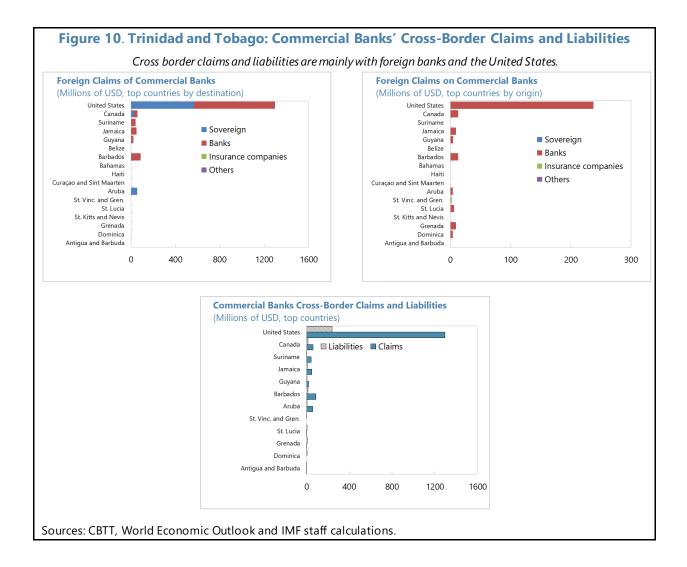
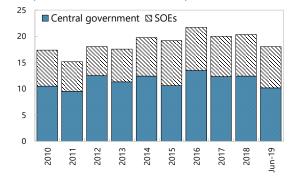
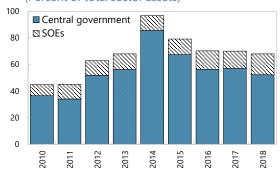


Figure 11. Trinidad and Tobago: Commercial Banks, Insurers, Pension and Investment Funds
Exposures to the Public Sector

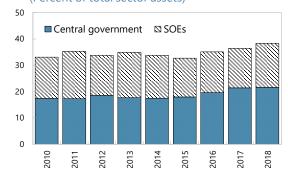
Banking Sector Exposure to the Public Sector (Percent of total sector assets)



Insurance Sector Exposure to the Public Sector (Percent of total sector assets)



Pension Sector Exposure to the Public Sector (Percent of total sector assets)



Investment Funds Exposure to the Public Sector (Percent of total sector assets)



Sources: CBTT and IMF staff calculations.

| Table 2. Trinidad and | d Tobago: | Selected | Economic | Indicators ¹ |
|-----------------------|-----------|----------|-----------------|-------------------------|
| | | | | |

GDP per capita (U.S. dollars, 2018) 17,528 Adult literacy rate (2010) 99 Population (millions, 2018) Unemployment rate (H1 2018) 3.8 1.36 Life expectancy at birth (years, 2018) 73.4 Human Development Index 63 Under 5 mortality rate (per thousand, 2017) 26.1 (2018, of 189 economies)

| | | | | | Prel. | Projecti | ns | | |
|---|--|-------------|-------------|------------|---------------|----------|------|--|--|
| | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | | |
| | (Annual percentage change, unless otherwise indicated) | | | | | | | | |
| National income and prices | | | | | | | | | |
| Real GDP | -0.9 | 1.8 | -6.3 | -2.3 | -0.2 | 0.0 | 1.5 | | |
| Energy | -1.9 | -0.8 | -9.8 | 0.7 | -3.2 | -0.4 | 2. | | |
| Non-energy 1/ | -0.3 | 3.4 | -4.2 | -3.9 | 1.4 | 0.3 | 1.1 | | |
| GDP deflator | 1.7 | -11.3 | -0.8 | 5.0 | 6.1 | 0.2 | 1.1 | | |
| CPI inflation (end-of-period) | 8.4 | 1.6 | 3.1 | 1.3 | 1.0 | 0.7 | 1. | | |
| CPI inflation (period average) | 5.7 | 4.7 | 3.1 | 1.9 | 1.0 | 0.7 | 1.1 | | |
| Unemployment rate | 3.3 | 3.4 | 4.0 | 4.8 | 4.9 | | | | |
| Real effective exchange rate | 5.8 | 12.7 | -0.9 | -2.6 | -1.3 | | | | |
| J | (In percent of fiscal year GDP) | | | | | | | | |
| Nonfinancial public sector (NFPS) 2/ | | (| iii percent | or nacur y | cui GDI) | | | | |
| Central government overall balance | -4.6 | -7.9 | -12.0 | -11.1 | -5.4 | -5.0 | -4.9 | | |
| Of which: non-energy balance 3/ | -21.5 | -20.8 | -18.1 | -17.4 | -13.8 | -15.5 | -14. | | |
| Budgetary revenue | 30.5 | 28.6 | 22.6 | 21.6 | 25.2 | 27.5 | 27. | | |
| Budgetary expenditure | 35.1 | 36.5 | 34.6 | 32.7 | 30.6 | 32.5 | 32. | | |
| Of which: interest expenditure | 1.8 | 2.1 | 2.0 | 2.9 | 3.0 | 2.9 | 3. | | |
| Of which: capital expenditure | 4.8 | 4.7 | 2.9 | 2.2 | 2.2 | 3.0 | 3. | | |
| Central government debt 4/ | 23.5 | 27.2 | 37.1 | 42.4 | 43.2 | 46.9 | 49. | | |
| Gross NFPS debt 4/ | 39.8 | 46.6 | 57.8 | 61.7 | 62.9 | 67.6 | 70. | | |
| Heritage and Stabilization Fund assets | 20.0 | 22.2 | 25.0 | 25.8 | 25.4 | 25.7 | 26. | | |
| 3 | (In percent of GDP, unless otherwise indicated) | | | | | | | | |
| External sector | | (iii percei | it or obr, | unicss ou | ici wise iiia | icatea) | | | |
| Current account balance | 13.8 | 7.0 | -4.4 | 5.5 | 5.0 | 1.4 | 1.9 | | |
| Exports of goods (annual percentage change) | -14.9 | -23.7 | -27.2 | 13.7 | 9.2 | -19.9 | 1.9 | | |
| Imports of goods (annual percentage change) | -14.6 | -4.9 | -5.9 | -9.0 | 2.6 | -12.1 | 0. | | |
| Terms of trade (annual percentage change) | 0.6 | 4.8 | 0.5 | -1.0 | -1.1 | 0.5 | 0. | | |
| External public sector debt | 8.5 | 9.9 | 15.7 | 16.7 | 17.3 | 18.9 | 20. | | |
| Gross official reserves (in US\$ million) | 11,493 | 9,927 | 9,466 | 8,370 | 7,575 | 6,614 | 5,74 | | |
| In months of goods and NFS imports | 13.2 | 12.1 | 11.9 | 11.1 | 11.0 | 9.5 | 8. | | |
| | (Annual percentage change) | | | | | | | | |
| Money and credit | | | | 3 | 3 . | | | | |
| Net foreign assets | 7.6 | -7.7 | 2.3 | -9.3 | -6.5 | -9.0 | -8.9 | | |
| Net domestic assets | 4.0 | 46.2 | 6.5 | 26.8 | 18.4 | 5.4 | 10.2 | | |
| Of which: private sector credit | 6.7 | 6.6 | 3.6 | 4.9 | 4.0 | 1.3 | 5.7 | | |
| Broad money (M3) | 7.2 | 1.1 | 2.8 | -0.4 | 1.2 | -3.9 | -1. | | |
| Memorandum items: | | | | | | | | | |
| Nominal GDP (in TT\$ billion) | 177.0 | 159.8 | 148.6 | 152.4 | 161.2 | 161.6 | 165. | | |
| Non-energy sector (in percent of GDP) | 64.9 | 76.1 | 80.3 | 76.5 | 74.1 | 78.7 | 79. | | |
| Energy sector (in percent of GDP) | 35.1 | 23.9 | 19.7 | 23.5 | 25.9 | 21.3 | 20. | | |
| Public expenditure (in percent of non-energy GDP) | 54.3 | 50.0 | 43.7 | 42.2 | 40.9 | 41.8 | 41. | | |
| Exchange rate (TT\$/US\$, end of period) | 6.38 | 6.43 | 6.78 | 6.78 | 6.77 | 6.78 | | | |
| Crude oil price (US\$ per barrel) | 96.2 | 50.8 | 42.8 | 52.8 | 68.3 | 60.6 | 58. | | |
| Henry Hub natural gas price (US\$ per MMBtu) | 4.4 | 2.6 | 2.5 | 3.0 | 3.2 | 2.5 | 2. | | |

Sources: Trinidad and Tobago authorities; UN Human Development Report; WEO; and IMF staff estimates and projections.

^{1/} Includes VAT and Financial Intermediation Services Indirectly Measured (FISIM).

 $[\]hbox{2/ Data refer to fiscal year, for example 2018 covers FY18 (October 2017-September 2018)}.$

^{3/} Defined as non-energy revenue minus expenditure of the central government.

 $^{4\!/}$ Excluding debt issued for sterilization, public bodies' debt, and borrowing from the CBTT.

¹ Projections for 2020 are as of January 2020.

| Commercial Banks 8 8 8 125.8 138.6 140.4 72.0 93.3 8 Domestic State-Owned Banks 2 2 2 2 69.5 75.1 78.5 39.8 50.5 4 Foreign-Controlled Subsidiaries 6 6 6 6 56.4 63.5 61.9 32.3 42.7 3 Other Financial Institutions 954 1,013 1,033 160.9 174.0 175.0 92.1 117.1 10 Credit Unions 1/ Home Mortgage Bank 1 1 1 2.0 3.2 3.2 1.1 2.1 Finance Companies, Merchant Banks, Mortgage Finance, and Trust Companies 17 16 16 9.3 9.5 9.0 5.3 6.4 Mortgage Finance, and Trust Companies 5 5 6 0.0 0.0 0.1 0.0 0.0 Stock Exchanges 1 1 1 1 0.1 0.1 0.1 0.0 0.0 < | | Number of institutions | | | Assets (TTD billion) | | | Assets (Percent of GDP) | | |
|--|---------------------------------|------------------------|-------|-------|----------------------|-------|-------|----------------------------|-------|-------|
| Domestic State-Owned Banks 2 2 2 69.5 75.1 78.5 39.8 50.5 4.5 | | 2013 | 2016 | 2018 | 2013 | 2016 | 2018 | 2013 | 2016 | 2018 |
| Foreign-Controlled Subsidiaries 6 6 6 6 56.4 63.5 61.9 32.3 42.7 33 Other Financial Institutions 954 1,013 1,033 160.9 174.0 175.0 92.1 117.1 100 Credit Unions 1/ 130 130 132 12.1 15.1 15.1 6.9 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10 | Commercial Banks | 8 | 8 | 8 | 125.8 | 138.6 | 140.4 | 72.0 | 93.3 | 87.1 |
| Other Financial Institutions 954 1,013 1,033 160.9 174.0 175.0 92.1 117.1 10 Credit Unions 1/ 130 130 132 12.1 15.1 15.1 6.9 10.1 Home Mortgage Bank 1 1 1 1 2.0 3.2 3.2 1.1 2.1 Finance Companies, Merchant Banks, 17 16 16 9.3 9.5 9.0 5.3 6.4 Mortgage Finance, and Trust Companies 8 5 5 6 0.0 0.0 0.1 0.0 0.0 Stock Exchanges 1 1 1 0.1 0.1 0.1 0.0 0.0 Insurance Companies 35 35 35 45.5 47.7 46.5 26.0 32.1 26 Life 15 15 15 40.3 41.9 40.8 23.1 28.2 26 Non life 20 20 20 5.2 5.8 <td>Domestic State-Owned Banks</td> <td>2</td> <td>2</td> <td>2</td> <td>69.5</td> <td>75.1</td> <td>78.5</td> <td>39.8</td> <td>50.5</td> <td>48.7</td> | Domestic State-Owned Banks | 2 | 2 | 2 | 69.5 | 75.1 | 78.5 | 39.8 | 50.5 | 48.7 |
| Credit Unions 1/ 130 130 130 132 12.1 15.1 15.1 6.9 10.1 Home Mortgage Bank 1 1 1 1 2.0 3.2 3.2 1.1 2.1 Finance Companies, Merchant Banks, 17 16 16 9.3 9.5 9.0 5.3 6.4 Mortgage Finance, and Trust Companies 8 5 5 6 0.0 0.0 0.1 0.0 0.0 Stock Exchanges 1 1 1 0.1 0.1 0.1 0.0 0.0 Insurance Companies 35 35 35 45.5 47.7 46.5 26.0 32.1 22 Life 15 15 15 40.3 41.9 40.8 23.1 28.2 26 Non life 20 20 20 5.2 5.8 5.7 3.0 3.9 Insurance Brokers 81 80 86 0.9 Insurance Agents 488 529 541 </td <td>Foreign-Controlled Subsidiaries</td> <td>6</td> <td>6</td> <td>6</td> <td>56.4</td> <td>63.5</td> <td>61.9</td> <td>32.3</td> <td>42.7</td> <td>38.4</td> | Foreign-Controlled Subsidiaries | 6 | 6 | 6 | 56.4 | 63.5 | 61.9 | 32.3 | 42.7 | 38.4 |
| Home Mortgage Bank 1 1 1 1 2.0 3.2 3.2 1.1 2.1 Finance Companies, Merchant Banks, 17 16 16 9.3 9.5 9.0 5.3 6.4 Mortgage Finance, and Trust Companies Bureaux de Change 5 5 5 6 0.0 0.0 0.1 0.0 0.0 Stock Exchanges 1 1 1 1 0.1 0.1 0.1 0.1 0.0 0.0 Insurance Companies 35 35 35 45.5 47.7 46.5 26.0 32.1 2.1 Life 15 15 15 40.3 41.9 40.8 23.1 28.2 2.1 Non life 20 20 20 5.2 5.8 5.7 3.0 3.9 Insurance Brokers 81 80 86 0.9 Insurance Agents 488 529 541 0.9 | Other Financial Institutions | 954 | 1,013 | 1,033 | 160.9 | 174.0 | 175.0 | 92.1 | 117.1 | 108.5 |
| Home Mortgage Bank 1 1 1 1 2.0 3.2 3.2 1.1 2.1 Finance Companies, Merchant Banks, 17 16 16 9.3 9.5 9.0 5.3 6.4 Mortgage Finance, and Trust Companies Bureaux de Change 5 5 6 0.0 0.0 0.1 0.0 0.0 Stock Exchanges 1 1 1 1 0.1 0.1 0.1 0.1 0.0 0.0 Insurance Companies 35 35 35 45.5 47.7 46.5 26.0 32.1 28.2 Life 15 15 15 40.3 41.9 40.8 23.1 28.2 2 Non life 20 20 20 20 5.2 5.8 5.7 3.0 3.9 Insurance Brokers 81 80 86 0.9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Credit Unions 1/ | 130 | 130 | 132 | 12.1 | 15.1 | 15.1 | 6.9 | 10.1 | 9.3 |
| Finance Companies, Merchant Banks, 17 16 16 9.3 9.5 9.0 5.3 6.4 Mortgage Finance, and Trust Companies 5 5 6 0.0 0.0 0.1 0.0 0.0 Stock Exchanges 1 1 1 0.1 0.1 0.1 0.0 0.0 Insurance Companies 35 35 35 45.5 47.7 46.5 26.0 32.1 28.2 Life 15 15 15 40.3 41.9 40.8 23.1 28.2 28.2 Non life 20 20 20 20 5.2 5.8 5.7 3.0 3.9 Insurance Brokers 81 80 86 0.9 Insurance Agents 488 529 541 Pension Funds 182 201 200 47.6 50.4 51.4 27.2 33.9 Investment Funds 2/ 14 15 15 44.4 48.1 | , | 1 | 1 | 1 | 2.0 | 3.2 | 3.2 | 1.1 | 2.1 | 2.0 |
| Mortgage Finance, and Trust Companies 5 5 6 0.0 0.0 0.1 0.0 0.0 Stock Exchanges 1 1 1 0.1 0.1 0.1 0.0 0.0 Insurance Companies 35 35 35 45.5 47.7 46.5 26.0 32.1 26 Life 15 15 15 40.3 41.9 40.8 23.1 28.2 28 Non life 20 20 20 5.2 5.8 5.7 3.0 3.9 Insurance Brokers 81 80 86 0.9 Insurance Agents 488 529 541 | | 17 | 16 | 16 | 9.3 | 9.5 | 9.0 | 5.3 | 6.4 | 5.6 |
| Bureaux de Change 5 5 6 0.0 0.0 0.1 0.0 0.0 Stock Exchanges 1 1 1 0.1 0.1 0.1 0.0 0.0 Insurance Companies 35 35 35 45.5 47.7 46.5 26.0 32.1 28.2 Life 15 15 15 40.3 41.9 40.8 23.1 28.2 28.2 Non life 20 20 20 5.2 5.8 5.7 3.0 3.9 Insurance Brokers 81 80 86 0.9 Insurance Agents 488 529 541 Pension Funds 182 201 200 47.6 50.4 51.4 27.2 33.9 33.9 Investment Funds 2/ 14 15 15 44.4 48.1 48.8 25.4 32.3 33.9 | | | | | | | | | | |
| Stock Exchanges 1 1 1 1 0.1 0.1 0.1 0.0 0.0 Insurance Companies 35 35 35 45.5 47.7 46.5 26.0 32.1 28.2 Life 15 15 15 40.3 41.9 40.8 23.1 28.2 28.2 Non life 20 20 20 5.2 5.8 5.7 3.0 3.9 Insurance Brokers 81 80 86 0.9 Insurance Agents 488 529 541 Pension Funds 182 201 200 47.6 50.4 51.4 27.2 33.9 33.9 Investment Funds 2/ 14 15 15 44.4 48.1 48.8 25.4 32.3 33.9 | | 5 | 5 | 6 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Insurance Companies 35 35 35 35 45.5 47.7 46.5 26.0 32.1 28.2 <td></td> <td>1</td> <td>1</td> <td>1</td> <td>0.1</td> <td>0.1</td> <td>0.1</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> | | 1 | 1 | 1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| Life 15 15 15 40.3 41.9 40.8 23.1 28.2 2 | | 35 | 35 | 35 | 45.5 | 47.7 | 46.5 | 26.0 | 32.1 | 28.8 |
| Insurance Brokers 81 80 86 0.9 Insurance Agents 488 529 541 | • | 15 | 15 | 15 | 40.3 | 41.9 | 40.8 | 23.1 | 28.2 | 25.3 |
| Insurance Agents 488 529 541 | Non life | 20 | 20 | 20 | 5.2 | 5.8 | 5.7 | 3.0 | 3.9 | 3.5 |
| Pension Funds 182 201 200 47.6 50.4 51.4 27.2 33.9 Investment Funds 2/ 14 15 15 44.4 48.1 48.8 25.4 32.3 | Insurance Brokers | 81 | 80 | 86 | | | 0.9 | | | 0.5 |
| Pension Funds 182 201 200 47.6 50.4 51.4 27.2 33.9 3 Investment Funds 2/ 14 15 15 44.4 48.1 48.8 25.4 32.3 3 | Insurance Agents | 488 | 529 | 541 | | | | | | |
| investment runus 2, | Pension Funds | 182 | 201 | 200 | 47.6 | 50.4 | 51.4 | 27.2 | 33.9 | 31.9 |
| Total Financial System 000 1001 1001 1001 2007 2007 4012 2007 4012 | Investment Funds 2/ | 14 | 15 | 15 | 44.4 | 48.1 | 48.8 | 25.4 | 32.3 | 30.3 |
| 1 0tai rinanciai 3ystem 962 1,021 1,041 286.7 312.6 315.4 164.2 210.3 15 | Total Financial System | 962 | 1,021 | 1,041 | 286.7 | 312.6 | 315.4 | 164.2 | 210.3 | 195.7 |

Source: CBTT, TTSEC

^{1/} Credit Unions' assets as at December 2016.

^{2/} Number refers to the number of issuers and assets to "Assets Under Management".

Table 4. Trinidad and Tobago: Banking Sector Financial Soundness Indicators (In percent) 2014 2015 2016 2017 2018 2019Q1 2019Q2 Regulatory capital to risk-weighted assets 22.5 22.1 21.9 21.0 20.9 21.9 21.4 Regulatory tier 1 capital to risk-weighted assets 21.8 22.9 20.4 20.3 20.6 20.3 19.3 Non-performing loans net of provisions to capital 7.7 6.7 7.2 6.8 6.2 5.6 7.2 Non-performing loans to total gross loans 4.1 3.4 3.1 2.9 3.0 3.0 3.3 Sectoral distribution of total loans: Residents 96.0 97.5 96.8 95.8 94.9 95.2 95.3 Other financial corporations 0.6 0.5 0.4 0.5 8.0 8.0 0.7 12.2 13.5 16.2 14.3 13.1 12.1 11.8 General government Nonfinancial corporations 38.4 37.3 37.4 37.0 36.4 36.4 36.5 Other domestic sectors 43.5 43.5 45.1 45.5 45.9 46.3 44.7 Sectoral distribution of total loans: Nonresidents 3.6 3.3 4.3 2.1 2.6 4.0 4.2 Return on assets (ROA) 1.8 2.6 2.7 2.5 2.7 4.0 3.4 Return on equity (ROE) 13.4 18.4 20.9 18.8 32.3 26.5 21.0 53.9 59.2 64.3 59.2 Interest margin to gross income 56.4 64.7 53.8 62.9 55.8 47.4 52.1 Non-interest expenses to gross income 55.1 55.4 54.4 Liquid assets to total assets (Liquid asset ratio) 25.9 24.4 22.6 20.3 19.6 19.0 20.9 30.4 23.5 22.9 25.2 Liquid assets to short-term liabilities 31.7 27.2 24.4

3.6

5.7

12.2

15.4

13.3

13.7

10.9

Source: IMF, Financial Soundness Indicators (FSI) database.

Net open position in foreign exchange to capital

Table 5. Trinidad and Tobago: FSAP Risk Assessment Matrix¹

| | Overall Lev | Overall Level of Concern | |
|---|-------------|--------------------------|--|
| Risk | Relative | Expected Impact | |
| | Likelihood | if Materialized | |
| Large swings in energy prices. With the recent break of the OPEC+ alliance, oil supply has become less predictable. Potential price wars, together with demand shocks, have raised oil market uncertainty and volatility, complicating economic management. As shocks materialize, they cause large and persistent price swings. While, on aggregate, lower oil prices should cushion global growth, they would harm oil exporters, and may be less supportive of global demand. | High | High | |
| Prolonged COVID-19 outbreak, contagion from a major global and/or regional economic downturn, sovereign crisis, or natural disaster. The broad impact of the COVID-19 crisis and associated uncertainties and/or from the other listed risks could impair the financial system, either through losses in domestic and cross-border holdings or through conglomerate group structures. | High | Medium/High | |
| Domestic confidence shock. A sudden loss of confidence in the system (potentially prompted by a sovereign debt crisis or run on investment funds) could trigger a market sell-off, with negative effects on investment funds and spillovers to the banking sector. | Medium | High | |
| Sharp rise in risk premia that exposes financial vulnerabilities. An abrupt reassessment of market fundamentals triggers widespread risk-off events that expose financial vulnerabilities that have been building in a period of low interest rates and a search for yield. Risk asset prices fall sharply, leading to significant losses in major financial institutions. Higher risk premia generate debt service and refinancing difficulties; stress on leveraged firms, households, and vulnerable sovereigns; and capital outflows. | High/Medium | Medium | |

¹ The Risk Assessment Matrix shows events that could materially alter the baseline path (the scenario most likely to materialize in the view of IMF staff). The relative likelihood is the staff's subjective assessment of the risks surrounding the baseline ("low" is meant to indicate a probability below 10 percent, "medium" a probability between 10 percent and 30 percent, and "high" a probability of 30 percent or more). The matrix reflects staff's views on the source of risks and overall level of concern as of the time of discussions with the authorities. Non-mutually exclusive risks may interact and materialize jointly.

Appendix I. Data for Financial Stability Analysis

The FSAP faced challenges in securing adequate data to thoroughly analyze financial risks. While there has been some progress, e.g., the collection and analysis of macro financial data by TTSEC on collective investment schemes, data collection needs to be strengthened in many areas.

Banks: Expanding the granularity of individual bank-level data would help monitor the build-up of systemic vulnerabilities. CBTT should collect: (i) liquidity positions in domestic currency and FX, including separately categorizing stable and less stable funding sources (weekly or bi-weekly) as well as the term structure of bank's liquidity profiles; (ii) a more granular breakdown of retail deposits, including the term structure of time deposits; (iii) secured and unsecured interbank asset and liability exposures (quarterly) both domestic and cross-border; (iv) market risk exposures of financial instruments; and; (v) NPL data in more dimensions, including by currency, product, sector¹ (including the public sector even if guaranteed), type of institutional borrower, and residence; and a breakdown for allowance for loan losses by risk category. CBTT should improve the granularity of data collection and the speed with which it can be collected by implementing flat-file data bank returns (see proposed headings below). A more precise classification of loans and NPLs would help strengthen analysis (e.g., breakdown by type of borrower and by sector should be clearly separable) and support environmental analysis.

Insurers: CBTT should also enhance data collected from insurers including asset durations, a breakdown of insurance liabilities, reinsurance contracts and probable maximum losses. Datasets should allow for geographical breakdowns at the local and the group-level.

Credit unions: Not all credit unions are providing regulatory returns (fines for non-compliance are fixed in nominal 1971 terms). Inadequate data on loan delinquencies impedes assessment of the true health of the sector and a new regulatory and reporting regime is urgently required.

Investment funds: TTSEC recently strengthened macroprudential reporting. Further granularity on interconnections to banks and asset durations would help strengthen stress testing.

Property: Information on property prices in major cities should be collected to calculate real estate price indices for housing and commercial real estate—including sales prices by property type and location. Information on beneficiaries of government-run social programs that facilitate development of the mortgage market should be collected and analyzed to ensure the programs fulfill their development objectives without jeopardizing stability of the financial system.

Households and corporates: Information on household income and corporate balance sheets is needed to analyze debt servicing capacity, including under stress. Macroprudential indicators such as loan to value and debt service to income ratios are needed to inform the design and calibration of macroprudential tools. Currently, there is no credit registry and supervisors do not have access to data from the existing private credit bureau (to which lenders provide data on a voluntary basis).

¹ For example, the current returns for the "real estate', 'financial services and real estate' and 'consumer' (which includes mortgages) segments do not enable total real estate loans to be separately identified.

Information on corporate balance sheets covers few indicators and is limited to listed companies. While establishing a credit registry may take time, CBTT could, in the meantime, access information from the existing private credit bureau within a legal framework that ensures appropriate privacy. Alternatively, CBTT could collect such data from banks. Additional data on corporate ownership would facilitate monitoring of corporate vulnerabilities.

Flat file data returns should be developed by CBTT to collect the following from banks in a database multidimensional, array form (replacing two-dimensional returns) allowing for separate identification/ aggregation/disaggregation of different categories (e.g., NPLs in foreign currency by state owned enterprises):

Loans, NPLs, by Economic Activity, by bank and by date

Agriculture

Petroleum

Manufacturing

Construction

Distributive Trades

Transp., Comm., Storage

Finance, Insurance (without real estate)

Personal Services

Other economic activities (excluding product lines or borrower types, see below)

Loans, NPLs, by product, by bank, by date

Consumer loans

Ow Credit cards

Ow Other

Mortgages

Ow Residential mortgages

Ow Corporate

Other products

Loans, NPLs, by Institutional borrower, by bank, by date

Households

Government

Local Government

State-owned enterprises

Nonfinancial corporates

Other banks

Nonbank financial institutions

Other institutional borrowers

Loans, NPLs, by Residence, by bank, by date

Domestic

Nonresident

Loans, NPLs, by currency, by bank, by date

In local currency

In FX

Appendix II. Banking Sector Stress Testing Matrix (STeM)

| ı | Domain | Top-down Stress Test by FSAP Team—Assumptions |
|----------------------------|---|---|
| | Ba | anking Sector: Solvency Risk |
| 1. Institutional perimeter | Institutions included | All eight commercial banks. |
| | Market share | 100 percent of the banking sector assets. |
| | Data source and | Source: Supervisory data. |
| | baseline date | Baseline date: end-June 2019. |
| | | Scope of consolidation: Consolidated level data for banks headquartered in Trinidad and Tobago (2) and subsidiary level data for the subsidiaries of foreign banks (6). |
| 2. Channels of | Methodology | Balance sheet-based approach. |
| risk propagation | Satellite models for macrofinancial linkages | Satellite panel data models for bank-level NPLs. Given the insufficient statistical significance of the relation between NPL ratios and macroeconomic variables, global rules-of-thumb for the sensitivities of credit losses to GDP growth were used to estimate credit losses and project NPL ratios. |
| | Stress test horizon | Three years. |
| 3. Tail shocks | Scenario analysis | Scenario-based tests include: a pre-COVID-19 baseline and adverse scenarios, and post-COVID-19 central and downside scenarios. |
| | | Variables in the scenarios include domestic macrofinancial variables (e.g., GDP, inflation, real exchange rate). |
| | | Pre-COVID-19 scenarios: |
| | | The baseline scenario is based on the October 2019 WEO projections. |
| | | The adverse scenario is driven by a combination of external shocks amplified by domestic characteristics, including existing vulnerabilities and policy constraints. The three major drivers of the adverse scenario are: |
| | | Shock 1. Large swings in energy prices. Risks to prices are broadly balanced, reflecting offsetting—but large and uncertain—supply and demand shocks. In the near term, uncertainty surrounding the shocks translates to elevated price volatility, complicating economic management and adversely affecting investment in the energy sector. As shocks materialize, they may cause large and persistent price swings. While, on aggregate, higher oil prices would harm global growth, they would benefit oil exporters. |

| | Domain | Top-down Stress Test by FSAP Team—Assumptions |
|-----------------|---------------------------|--|
| | | Shock 2. Contagion from a major regional economic downturn, sovereign crisis, or natural disaster. This could impair the financial system, either through losses in cross-border holdings or through conglomerate group structures. |
| | | Shock 3. Domestic confidence shock. A sudden loss of confidence in the system could trigger a market sell-off, with negative effects on investment funds and spillovers to the banking sector. |
| | | The adverse scenario leads to a cumulative real GDP decline relative to the baseline equivalent to 1.5 standard deviations over the first two years. |
| | | COVID-19 scenarios: |
| | | • The central scenario is based on the June 2020 WEO Global Assumptions (GAS) projections for oil and gas prices and U.S growth. It reflects the deteriorating global economic outlook and envisages a sharp V-shaped recession with a real GDP contraction of 9.8 percent in 2020, followed by a rebound of 2-2½ percent both in 2021-22. This scenario implies a cumulative decline in real GDP relative to the October 2019 WEO projections equivalent to 1.3 standard deviations over two years. |
| | | The COVID-19 downside scenario reflects the further downside risks to which the COVID-19 central scenario is subject. It envisages a L-shaped, more prolonged recession in which real GDP continues to contract in 2021 by 7.2 percent, before a mild recovery of 1.5 percent in 2022. This scenario implies a cumulative decline in real GDP relative to the October 2019 WEO projections equivalent to 2.2 standard deviations over two years. |
| | Sensitivity analysis | Sensitivity tests were conducted to supplement the scenario analysis. |
| | | They evaluated the impact of four different single risk factors on the existing capital buffers as of 2019Q2: |
| | | Exchange rate risk.Concentration risk. |
| 4. Risks and | Risks/factors assessed | Credit loss from banks' loan portfolios and sovereign exposures, excluding off-balance sheet credit commitments. |
| buffers | | Increase in funding costs. |

| | Domain | Top-down Stress Test by FSAP Team—Assumptions |
|--|--|---|
| | Behavioral | Balance sheet grows in line with nominal GDP. |
| | adjustments | Dividends are paid out by banks that remain adequately capitalized throughout the stress. Payout rate consistent with past experience. |
| | | Invariant asset allocation, i.e., no change in business models, lending standards, or investment pattern in response to shocks (over three years). |
| 5. Regulatory and market- | Calibration of risk parameters | Based on credit models estimated by IMF staff. Credit losses are estimated using peer country averages (Hardy and Schmieder). |
| based standards and parameters | Regulatory/ accounting and market-based standards | Capital shortfalls to be measured in terms of T1, total capital and the leverage ratio. |
| 6. Reporting | Output presentation | System-wide capital shortfall. |
| format for results | | Number of banks and percentage of banking assets in the system that fall below capital and leverage ratios. |
| | | Banking Sector: Liquidity Risk |
| 1. Institutional perimeter | Institutions included | All 8 commercial banks. |
| | Market share | 100 percent of the banking system assets. |
| | Data and baseline | Source: Supervisory data. |
| | date | Baseline date: end-June 2019. |
| | | Scope of consolidation: Consolidated level data for banks headquartered in Trinidad and Tobago (2) and subsidiary level data for the subsidiaries of foreign banks (6). |
| 2. Channels of | Methodology | Cash-flow based liquidity stress test using maturity buckets. |
| risk propagation | | All analyses are carried out separately for TTD and FX. |
| 3. Risks and buffers | Risks | Funding liquidity (liquidity outflows). Market liquidity (price shocks) and haircuts. |
| | Buffers | Counterbalancing capacity. Central bank facilities. |
| 4. Tail shocks | Size of the shock | Run-off rates calculated following historical events, guidelines. |
| | | Bank run and dry up of wholesale funding markets, taking into account haircuts to liquid assets. |
| 5. Regulatory and market- based standards and parameters | Regulatory standards | National regulatory framework. |

| Domain | | Top-down Stress Test by FSAP Team—Assumptions |
|--------------------|-------------------|---|
| 6. Reporting | Output | Bank-level and aggregate banking-level liquidity gaps. |
| format for results | presentation | |
| | Ва | nking Sector: Interconnectedness |
| 1. Institutional | Institutions | All 8 commercial banks. |
| perimeter | included | Other major nonbank Fls (subject to data availability). |
| | Market share | 100 percent of the banking system assets. |
| | Data and baseline | Source: Supervisory data. |
| | date | Baseline date: end-June 2019. |
| | | Scope of consolidation: Consolidated level data for banks |
| | | headquartered in Trinidad and Tobago (2) and subsidiary level |
| | | data for the subsidiaries of foreign banks (6). |
| 2. Channels of | Methodology | Interbank and cross-border network model by Espinosa-Vega |
| risk propagation | | and Solé (2010). |
| 3. Risks and | Risks | Credit and funding losses related to interbank cross-exposures |
| buffers | | (and cross-border banking exposures). |
| | | Fire-sale of assets. |
| | Buffers | Banks' own capital and liquidity buffers. |
| 4. Tail shocks | Size of the shock | Pure contagion: default of institutions. |
| | | Fire sale haircuts. |
| 5. Reporting | Output | Network analyses with supervisory data. |
| format for results | presentation | System-wide capital shortfall. |
| | | Bank-level capital shortfall. |
| | | Number of undercapitalized and failed institutions, and their shares of assets in the system. |
| | | Evolution and direction of spillovers. |

¹Hardy, D. C., and Schmieder, C., "Rules of Thumb for Bank Solvency Stress Testing." IMF Working Paper. November 2013.

Appendix III. Nonbanking Sector Stress Testing Matrix (STeM)

| Do | main | Top-down Stress Test by FSAP Team—Assumptions | |
|--------------------------------|---|--|--|
| | Life and General Insurance Sectors: Solvency Risk | | |
| 1. Institutional perimeter | Institutions included | Five of the 34 insurance companies, including two Life, two Combined (Life and General) and one General insurance company. | |
| | Market share | Sample represents 74 percent of aggregate insurance liabilities, 88 percent of all investment assets and 58 percent of all premiums. | |
| | | The two Life and two Combined insurance companies represent 77 percent of insurance liabilities, 78 percent of investment assets and 70 percent of premiums. | |
| | | The general insurance company is the largest in the sector, representing 37 percent of general premiums and 22 percent of insurance liabilities. | |
| | Data source | Source: Supervisory data. | |
| | and baseline | Baseline date: end-June 2019. | |
| | date | Scope of consolidation: all entities tested at level of stand-alone insurance company. | |
| 2. Channels of | Methodology | Balance sheet-based approach. | |
| risk propagation | Stress test horizon | Tests mirror the approach of the bank stress test scenarios for solvency. | |
| 3. Scenarios and sensitivities | Scenario analysis | Scenario-based tests mirror the shocks to risk factors determined for the bank stress test scenarios for solvency. | |
| | | Risk factor variables include shocks to exchange rates, interest rates and asset prices, including if relevant mortgages and real estate. | |
| | Sensitivity | Sensitivity analyses conducted to supplement the scenario analysis. | |
| | analysis | To evaluate sensitivity to movements in single risk factors on capital as of 2019Q2: | |
| | | Exchange rate risk. Interest rate risk and bond prices. Market risk attached to equities. | |
| 4. Risks and buffers | Risks/factors assessed | Exposure to changes in valuation of investment assets and insurance liabilities. | |
| | | Exposure to surrender/lapse risks and other insurance risks not feasible in top down exercise with limited data. | |
| | Behavioral adjustments | Balance sheets assumed to be static. | |

| Doi | main | Top-down Stress Test by FSAP Team—Assumptions | |
|---------------------------------|--|--|--|
| | Life and General Insurance Sectors: Solvency Risk | | |
| 5. Regulatory and market-based | Calibration of risk parameters | Dovetail with the bank stress test scenarios and sensitivities for solvency. | |
| standards and parameters | Regulatory/ accounting and market-based standards | Post stress capital shortfalls to be measured against existing capital requirements. | |
| 6. Reporting format for results | Output presentation | Change in excess assets over liabilities and capital adequacy ratios and number of insurance companies that fall below capital requirements. | |
| | Genera | Il Insurance Sector: Solvency Risk | |
| 1. Institutional perimeter | Institutions included | Three general insurance companies. | |
| | Market share | Sample represents 72 percent of aggregate premiums for property and motor. | |
| | Data Source | Source: Supervisory data. | |
| | and Baseline Date | Baseline date: end-June 2019. | |
| | Date | Scope of consolidation: all entities tested at level of stand-alone insurance company. | |
| 2. Channels of | Methodology | Balance-sheet-based approach. | |
| risk propagation | Stress test horizon | Short term. | |
| 3. Scenarios and sensitivities | Scenario analysis | Slow-moving, catastrophic hurricane hitting Trinidad and Tobago directly in June doing damage to extent of probable maximum loss. | |
| | | Two further Category 5 hurricanes in region in August and October consuming reinsurance (if it is regionally exposed). | |
| | | Terms of reinsurance determine reinstatement costs (including point in policy year when events occur). | |
| | | Insurers required to meet reinsurance retentions (on events occurring) from own reserves. | |
| 4. Risks and buffers | Risks/factors assessed | Exposure to damage claims arising from severe but plausible set of severe natural disasters. | |
| | Behavioral adjustments | Balance sheets assumed to be static. | |
| 5. Regulatory and market-based | Calibration of risk parameters | N/A—exposure determined by terms of reinsurance contracts. | |
| standards and parameters | Regulatory/ accounting and | Post stress capital to be measured against existing and incoming capital requirements. | |

| Doi | main | Top-down Stress Test by FSAP Team—Assumptions |
|---------------------------------|-------------------------------|---|
| | Life and Ge | neral Insurance Sectors: Solvency Risk |
| | market-based | |
| 6. Reporting format for results | Standards Output presentation | Change in excess assets over liabilities and capital adequacy ratios and number of insurance companies that fall below capital requirements. |
| | Investment F | und Sector: Solvency and Liquidity Risks |
| 1. Institutional perimeter | Institutions included | 38 investment funds and the five asset managers that administer them. |
| | Market share | Sample represents 90 percent of aggregate AUM, including 98 percent of fixed NAV assets. |
| | | Three of the four fund managers are subsidiaries within a banking group, one is a deemed SIFI, one is a regional insurance SIFI. |
| | Data Source | Source: Supervisory data. |
| | and Baseline Date | Baseline date: end-June 2019. |
| | | Scope of Consolidation: all entities tested at level of stand-alone funds and stand-alone administrator, with aggregate impacts ascertained for their commercial banks and holding company, where bank. |
| 2. Channels of | Methodology | Balance-sheet-based approach. |
| risk propagation | Stress test horizon | Test parameters mirror the approach of the bank stress test scenarios for solvency. |
| 3. Scenarios and sensitivities | Scenario analysis | Test parameters mirror the approach of the bank stress test scenarios for solvency. |
| | | Risk Factor variables include shocks to exchange rates, interest rates and asset prices, including if relevant and available, mortgages and real estate. |
| | | Incorporate two additional risk factors relevant to the country situation: excess client withdrawal/redemption; and additional discount needed to sell local assets in crisis situation. |
| | Sensitivity analysis | Sensitivity analyses conducted on the investment funds to supplement the scenario analysis. |
| | | The sensitivity tests evaluate sensitivity of assets to movements in single risk factors on capital as of 2019Q2: |
| | | Exchange rate risk.Interest rate risk and bond prices.Market risk attached to equities. |
| | | The results also presented as the extent to which the movements in risk factors create a risk for the administering fund manager group. |

| Doi | main | Top-down Stress Test by FSAP Team—Assumptions |
|--------------------------------|--|---|
| | Life and Ge | neral Insurance Sectors: Solvency Risk |
| 4. Risks and | Risks/factors | Exposure to falls in valuation of investment assets. |
| buffers | assessed | Exposure to sudden increases in client withdrawal. |
| | Behavioral adjustments | Balance sheets assumed to be static. |
| 5. Regulatory and market-based | Calibration of risk parameters | Test parameters mirror the approach of the bank stress test scenarios for solvency. |
| standards and parameters | | Client withdrawal in crisis and discount on fire-sale of local assets drawn from supervisor judgement, previous exercises, and from historical information. |
| | Regulatory/ accounting and market-based standards | Funds required to meet client withdrawals measured against available liquid assets to determine any shortfall. Withdrawals assumed to be met from liquid assets in the following order: cash, international market assets; local market assets. |
| 6. Reporting | Output | Capital support |
| format for results | presentation | Absolute size of support required. |
| | | Liquidity |
| | | Cash withdrawn from commercial bank accounts. |
| | | Aggregate amount of local market assets that needed to be sold, amount of cash required from holding companies. |

Appendix IV. Implementation of 2010 FSAP Recommendations

| Recommendations | Timeframe ¹ | Compliance |
|--|------------------------|------------|
| Fully implement consolidated supervision. | ST | LI |
| Issue regulation to strengthen capital requirements and establish liquidity risk management standards. | ST | PI |
| Introduce a procedure for collecting administrative fines imposed by CBTT. | ST | l |
| Increase frequency and timeliness of disclosure of bank-by-bank financial soundness information. | ST | NA |
| Expand prudential reporting to include more detailed regular reports on loan classification and provisioning; connected party exposures that do not qualify as large exposures; liquidity; and interest rate risk in the banking book. | ST | PI |
| Require that CUs report detailed financial data to CBTT. | ST | NA |
| Acquire more specialist skills in CBTT's bank supervision department, such as operational risk (including IT risk) and anti-money laundering/combating the financing of terrorism (AML/CFT). | MT | PI |
| Put in place guidelines concomitantly with the new Insurance Act to address the inconsistencies of having both statutory funds and risk-based supervision, while establishing investment limits for statutory funds. | ST | NA |
| Find a speedy resolution to the CLICO problem. | ST | LI |
| Implement new rules for valuation of insurance liabilities through CBTT Guidelines for 2010. | ST | PI |
| Implement formulas for risk-based capital through CBTT guidelines as soon as possible. | ST | PI |
| Consider reforms to the motor liability insurance system to improve consumer protection and market conduct. | MT | PI |
| Develop a national financial crisis management plan. | ST | LI |
| Adopt measures to pay deposit insurance promptly. | ST | NA |
| Assess the preconditions, parameters and requirements of providing insurance for CU deposits, before deciding how to proceed. | ST | NA |
| Consider a policyholder protection scheme to guarantee claims under retailstyle life and general insurance products in the event of insurer insolvency. | ST | NA |
| Develop a new law or amend laws for financial institution insolvency to provide for efficient resolution. | ST | NA |
| Participate in the implementation of the CGBS plan for regional financial crisis management. | MT | LI |
| Strengthen the supervision of systemically important financial institutions. | ST | PI |

| Recommendations | Timeframe ¹ | Compliance |
|--|------------------------|------------|
| Continue to improve the capability of CBTT to conduct stress tests of the financial sector. | ST | PI |
| Broaden the regulatory perimeter. | ST | NA |
| Strengthen CBTT's powers to regulate the financial sector. | MT | NA |
| Analyze whether to adopt measures to contain the impact of the failure of systemically important institutions, including through the use of living wills and contingent capital. | MT | PI |
| Assess the pros and cons of dynamic loan provisioning, before deciding whether to adopt. | MT | I |
| Begin preparations for adoption of Basel III. | MT | PI |
| 1/ ST short term; MT medium term; I implemented; LI largely implemented; PI partially impler | mented; NA no acti | on. |

Appendix V. Report on the Observance of Standards and Codes: Basel Core Principles for Effective Supervision

A. Introduction

- 1. This appendix summarizes the assessment of the implementation of the Basel Core Principles for Effective Banking Supervision (BCP) in Trinidad and Tobago. The assessment was undertaken by the International Monetary Fund (IMF) and the World Bank (WB) during the October 30 to November 18, 2019 mission, as part of the 2020 FSAP. It reflects the regulatory and supervisory framework in place as of that date. It is not intended to represent an analysis of the state of the banking sector or crisis management framework, which are addressed elsewhere in the FSAP.
- 2. Assessing the effectiveness of banking supervision requires a review of the legal framework, and detailed examination of the policies and practices of the institutions responsible for banking regulation and supervision. In line with the BCP methodology, the assessment focused on the Central Bank of Trinidad and Tobago (CBTT) as the supervisor of the banking system and does not cover the regulation and supervision of other financial intermediaries. The assessment team reviewed the framework of laws, rules, and guidance, and held extensive meetings with authorities and market participants. The team met officials of CBTT, the MoF, DIC, Institute of Chartered Accountants of Trinidad and Tobago (ICATT), the Bankers Association of Trinidad and Tobago, Caribbean Information and Credit Rating Agency, and banking sector participants. The authorities provided a comprehensive self-assessment of the CPs, as well as detailed responses to additional questionnaires, and facilitated access to staff and to supervisory documents and files on a confidential basis.

B. Methodology

- 3. The ratings assigned during this assessment are not directly comparable to those from the previous assessment. The methodology issued by the Basel Committee on Banking Supervision (BCBS) in September 2012 was used for the current assessment and the authorities have opted to be assessed and graded on the essential criteria (EC) only. The prior BCP assessment, conducted in 2010, was based on the 2006 methodology. Since then, the methodology has been revised, leading to some substantive changes.
- 4. The 2012 methodology reflects lessons from the global financial crisis (GFC) and emerging supervisory best practices. New principles have been added to the methodology, along with new ECs for each principle, that provide more detail. Altogether, the revised CPs now contain 247 separate essential and additional criteria against which a supervisory agency may be assessed. In particular, the revised BCPs strengthen the requirements for supervisors, the approaches to supervision, and supervisors' expectations of banks. While the BCPs set out the powers that

¹ The BCP assessment was conducted by Geraldine Low (IMF external expert) and Ezio Caruso (World Bank staff).

supervisors should have to address safety and soundness concerns, there is heightened focus on the actual use of the powers in a forward-looking approach through early intervention.

- 5. The standards were evaluated in the context of the sophistication and complexity of the financial system of Trinidad and Tobago. The CPs must be capable of application to a wide range of jurisdictions, whose banking sectors will inevitably include a broad spectrum of banks. To accommodate this breadth of application, a proportionate approach is adopted within the CP, both in terms of the expectations on supervisors for the discharge of their own functions, and in terms of the standards that supervisors impose on banks. An assessment of a country against the CPs must, therefore, recognize that its supervisory practices should be commensurate with the complexity, interconnectedness, size, risk profile, and cross-border operations of the banks being supervised. In other words, the assessment must consider the context in which the supervisory practices are applied. The concept of proportionality underpins all assessment criteria. For these reasons, an assessment of one jurisdiction will not be directly comparable to that of another.
- **6.** An assessment of compliance with the BCPs is not, and is not intended to be, an exact science. Reaching conclusions requires judgments by the assessment team. Banking systems differ from one country to another, as do their domestic circumstances. Furthermore, banking activities are undergoing rapid change after the crisis, prompting the evolution of thinking on, and practices for, supervision. Nevertheless, by adhering to a common, agreed methodology, the assessment should provide the authorities with an internationally consistent measure of the quality of their banking supervision in relation to the revised CPs, which are internationally acknowledged as minimum standards.

C. Preconditions for Effective Banking Supervision

7. Although Trinidad and Tobago's financial system remains stable, notwithstanding the 2016–17 recession, the overall increase in household debt since 2011, together with high sovereign debt concentrations, could prove problematic if economic conditions worsen. Following the real GDP contraction of 6.3 percent in 2016, driven mainly by the energy sector, the economy of Trinidad and Tobago is slowly recovering. Household debt to GDP increased by about 10 percentage points from 2013 to 2018 and continues to be a potential source of vulnerability to the financial system. As of end-2018, total household debt² stood at TT\$56 billion, representing roughly 35 percent of GDP. The banking sector accounts for approximately 60 percent of total estimated household debt, with exposures to households at 22.6 percent of total assets (or 160 percent of total capital). Further, domestic sovereign exposures in the banking, insurance, and pension sectors accounted for 29.4 percent of their combined assets at end-2018, which, under a negative shock, could significantly impact the health of financial institutions and the broader financial system.

² Household debt comprises credit extended to households from: commercial banks, nonbanks, insurance companies, credit unions, the Home Mortgage Bank, the Trinidad and Tobago Mortgage Finance Co. and other retail merchants. (source: CBTT's "Financial Stability Report 2018," December 2018 footnote 22, page 36).

- **8. CBTT plays** a **significant role in promoting and maintaining financial stability**. To this end, CBTT works closely with the MoF as well as other domestic regulatory agencies on matters concerning financial stability in Trinidad and Tobago. On matters of systemic importance, the MoF has worked closely with CBTT in dealing with past financial crises, as well as in the drafting or formulation of any legislation pertaining to financial institutions and financial stability measures. Lastly, the MoF has primary responsibility for all fiscal matters.
- 9. The Trinidad and Tobago public infrastructure, including its legal system, oversight of professionals, accounting standards, and governance and supervision of other financial markets appear strong, as follows:
 - a. The legal system of business laws, including corporate, bankruptcy, contract, consumer protection, and private property laws, as well as an independent judiciary, are in place;
 - b. Professionals (e.g., accountants, auditors, and lawyers) are subject to transparent and ethical standards with oversight by their respective regulatory Boards. Trinidad and Tobago has also adopted International Financial Accounting Standards (IFRS 9) that promote fairness, transparency and accuracy with standards of conduct with oversight by the ICATT. Further, the external auditors are subject to a stringent accreditation standards program overseen by the ICATT;
 - c. Although the banking and insurance sectors and financial markets have rules for regulation and supervision of entities by CBTT and TTSEC, respectively, some pieces of legislation are currently being updated (e.g., the pending Insurance Act, 2018 (IA) expected to be enacted in the near future);
 - d. The Credit Bureau of Trinidad and Tobago, originally established in 1985 and is privately owned, provides services to both individuals and financial institutions including: credit bureau reporting (both verbal and written reports), business credit assessments, trade references and company title searches. Although banks rely on this information as part of their underwriting of loans, CBTT neither has access to this credit information nor formally requires banks to make use of it; and
 - e. Basic economic, financial and social statistics are made available to the public through various government websites but are lacking in some important respects (e.g., quarterly GDP data is unavailable).
- **10. CBTT regulates and supervises Trinidad and Tobago's national payments systems (NPS) and oversees all payment system providers**. The NPS consists of all systems which facilitate the clearance and settlement of payments, including the large-value systems (e.g., the Real Time Gross Settlement (RTGS) system and the government Securities Settlement system) and the retail payment systems (e.g., check clearing and card payment schemes). CBTT has adopted the internationally accepted standards of the Core Principles for Systemically Important Payment Systems.

- 11. The authorities have dealt with several financial crises in past decades at significant financial cost and the framework for crisis management, recovery and resolution planning is currently under development. CBTT's legislative framework includes a range of resolution tools, including CBTT's special emergency powers for resolving financial institutions in crisis. CBTT is currently rolling out its recovery and resolution planning requirement to all SIFIs. CBTT has drafted a National Crisis Management Plan that proposes arrangements for the coordination of TTSEC, DIC, and the MoF in times of crisis. Further, CBTT, in its capacity as one of the lead supervisory authorities operating in the Caribbean region and as a member of the CGBS, has provided input into the draft Regional Crisis Management Plan that includes the collaboration and coordination of 15 representative countries.
- 12. The DIC is well funded but the deposit insurance limit has not proven binding. The DIC's mandate includes the collection of annual deposit insurance premiums, the accumulation and management of an ex ante deposit insurance fund (TT\$3.5 billion as at June 30, 2019), paying insured deposits and acting as receiver or liquidator of insolvent financial institutions. The current level of the fund represents about 11 percent of insured deposits and about 3 percent of total domestic deposits. DIC's charter does not provide for the authority to conduct its own independent onsite assessment of the financial soundness of its member banks, therefore DIC relies heavily on the information provided from CBTT. The CBTT Governor is DIC's Chairman of the Board and includes four other Board members. All Board members are appointed by the MoF. Trinidad and Tobago has a recurring history of the government bailing out creditors of failed financial institutions (including banks, insurers, and a credit union). Most recently, the DIC paid out the creditors of the failed CLICO investment bank using government funds.
- **13. CBTT** has wide authority to provide ELA, exposing the central bank to potentially undue risks. CBTT may provide immediate liquidity assistance to commercial banks via repurchase agreements, lending via the discount windows or collateralized loans. In addition, CBTT can provide uncollateralized support to a bank, as necessary, to prevent its failure where there is a threat to the financial system of Trinidad and Tobago. Such unsecured lending could expose CBTT to undue financial risks.
- 14. Although banks have implemented IFRS9, Basel II Pillar 3 disclosure requirements need to be implemented to improve transparency of information to market participants. The accounting, auditing and financial reporting requirements are governed by various corporate laws and the ICATT. Banks fully implemented IFRS9 internationally accepted accounting standards, effective January 1, 2018. TTSEC requires listed companies to produce, publish and file quarterly and annual financial statements. Although banks not listed with the TTSEC are required to file annual

³ S. 44D of the Central Bank Act (CBA).

⁴ S. 36 (1) of the CBA.

⁵ 44D (1)(v) and 44(D)(2) of the CBA.

audited financial statements (per S. 80 of the Financial Institutions Act (FIA)), most banks operating in Trinidad and Tobago place quarterly and annual financial information on their websites.

D. Main Findings

Responsibilities, Objectives, Powers, Independence (CPs 1-2)

15. CBTT's independence is limited by the extensive role of the MoF in the supervisor's governance, decision making, and internal organization. CBTT does not have the power to set prudential criteria (FIA S. 9) and the process to update regulations takes excessively long, impinging on CBTT's ability to maintain supervisory standards that remain effective and relevant to changing industry and regulatory practices. The FIA allows the MoF to: (i) make regulations to set prudential criteria (S. 9); and (ii) to intervene in the supervisory decision-making process: for example, CBTT needs to consult the MoF before approving or refusing a banking license (S. 21); the MoF could also prescribe criteria for CBTT's approval of banks' branch and representative offices (S. 50). Furthermore, the Central Bank Act (CBA) enables the MoF to approve CBTT rules "for its internal administration and management" and its Code of Ethics, as well as to request information on salary, organizational structure, and vacant positions.

Licensing, Changes in Control, and Acquisitions (CPs 4–7)

16. The licensing and approval processes are generally sound but requires some improvements. Although banking applications are infrequent, CBTT conducts a robust assessment of the license applications challenging the business plans and the financial projections. However, there is no prohibition against borrowing the required initial capital. Further, CBTT's approval threshold of 10 percent for a change in significant ownership needs to be extended to a potential buyer that is not an 'acquirer' (financial entity or its controlling or significant shareholder), for which the threshold is currently too high at 20 percent.

Supervisory Cooperation, Consolidated and Cross-Border Supervision (CPs 3, 12, and 13)

- 17. CBTT should create a formal mechanism to strengthen the sharing of SIFI information with domestic agencies that is pertinent to the financial health of systemic banks. It is important that agencies discuss views on both emerging risk issues (macroprudential risks) together with potential impacts on the health of SIFIs (microprudential impacts), in order to take timely financial stability measures during normal times and in the lead up to a major bank failure to protect the stability of Trinidad and Tobago's financial system.
- 18. Recovery and resolution plans, together with resolvability assessments, need to be conducted and relevant aspects shared with both domestic and foreign regulators. Further, it is key that the draft National Crisis Management Plan and the draft Regional Crisis Management Plan be finalized, as well as the development of internal crisis management operational preparedness measures be put in place. CBTT must also ensure all MoUs are up to date and include appropriately detailed provisions for the ongoing flow of information.

19. Given the nature of the interconnectedness of the financial groups that operate both domestically and internationally, CBTT should continue with its efforts to enhance consolidated supervision. CBTT introduced a Consolidated Supervision Framework in 2016 (for internal purposes), rolled out enhanced data requirements for banking groups and conducted several joint onsite examinations with key foreign regulators. More emphasis is required on the cross-sector analysis of financial entities within financial groups (e.g., investment funds, insurance) to ensure a group-level risk assessment view by CBTT. Further, key initiatives are currently being rolled out (e.g., the Internal Capital Adequacy Assessment Process (ICAAP) and Liquidity Coverage Ratio (LCR)) at the group level that will need attention.

Supervisory Approach (CPs 8–10)

- **20. CBTT's risk-based supervisory framework, needs to be updated to reflect enhanced supervisory requirements for SIFIs.** Although CBTT has identified SIFIs within the banks/banking groups and contemplated a capital surcharge back in 2014, CBTT has not required additional prudential requirements nor articulated an enhanced supervisory framework for SIFIs (e.g., communicated the need for enhanced monitoring, formalized data requirements, etc.). While CBTT's risk-based supervisory framework is comprehensive, some aspects of the process are too labor intensive⁶ and should be streamlined to make the best use of its supervisory resources. Further, CBTT's Banks, Nonbanks Supervisory Unit's resources should be augmented, given its broad mandate to supervise SIFIs, banks and nonbanks, oversee "Deemed SIFIs" as well as develop regulatory guidance.
- 21. CBTT's current mix/frequency of onsite examinations and offsite surveillance for SIFIs, timeliness of the release of examination reports, and direct access to banks' Boards needs to be strengthened. Specifically, CBTT needs to strengthen its supervisory assessments of SIFIs to include more frequent onsite supervision of banks' strength in overall risk management and internal control systems, focusing on the key risk areas of credit, market, interest rate risk in the banking book (IRRBB), foreign exchange, and liquidity. Further, CBTT should ensure that the onsite examination reports are completed and released on a timely basis to ensure banks quickly address key examination findings. In addition, given CBTT's current practice to not meet with the full Boards of the banks (e.g., CBTT currently meets with the Chairs of Audit and Risk Committees), to enhance its level of contact with the Boards, CBTT should determine the criteria as to when it would meet with the full bank's Board/independent representatives (e.g., to discuss the findings of onsite examinations, to share key emerging and strategic risk information, as well as to ensure the Board's continued understanding of CBTT's regulatory and supervisory expectations).
- 22. CBTT should reassess the adequacy of regulatory data that is being collected to ensure that supervisors have access to all the necessary risk data. Data on liquidity, market, foreign

⁶ Certain aspects of the supervisory framework appear labor-intensive (e.g., the review of quarterly Board minutes, the production of extensive section notes which are produced either as part of the monitoring or onsite examination framework, the supervisory planning document, etc.) could be streamlined to free up resources to cover other aspects of the supervisory framework.

currency, IRRBB, country risks, and exposures to related parties should be included or enhanced as appropriate. In addition, any pertinent data that is being collected by CBTT (e.g., data that the Statistics Unit or the Research Department collects) should be made available to supervisors, if relevant. Further, CBTT's data validation mechanisms will benefit from the future planned adoption of an electronic software system versus some of the manual verification and validation processes currently in place.

Corrective and Sanctioning Powers of Supervisors (CP 11)

Although CBTT has an adequate range of legislative powers to take corrective 23. measures in dealing with problem banks, it should formalize its internal reporting and release its "ladder of intervention" document to the banks. CBTT should augment its reporting processes for tracking problem financial institutions through an aggregate report on all banks being monitored to both the Inspector (the individual responsible for the supervision of financial institutions at CBTT), and to CBTT's Governor/Board to ensure operational preparedness to deal effectively in practice with emerging risk issues. Moreover, CBTT should contemplate releasing its "ladder of intervention" to the banks to clarify what corrective measures CBTT may utilize depending on the risk profile of the problem bank.

Corporate Governance and Internal Audit (CPs 14 and 26)

24. CBTT's Corporate Governance Guideline (2007) is outdated and does not capture several essential elements, including the need for banks' Board-approved risk appetite frameworks. CBTT is currently developing a new Corporate Governance Guideline, expected to be released in 2020, which will address the requirements for Board-approved risk management policies and practices, as well as articulate internal audit and compliance functions. Once the new Guideline is released, CBTT should undertake a full-scope review of banks' corporate governance frameworks, at least for the more complex banks, as well as improve its direct contact with Boards, including independent Board members, to ensure banks' compliance with the new corporate governance requirements.

Capital (CP 16)

25. Laws, regulations, and prudential standards pertaining to banks' capital adequacy requirements have not been updated as necessary to ensure they remain effective and relevant to changing industry and regulatory practices. Although CBTT is in the process of introducing the Basel II capital framework for banks, banks are subject to Basel I capital adequacy requirements. The Draft Capital Regulation, soon to be promulgated by parliament, will bring into force the new Basel II capital adequacy requirements for banks. Banks have been required to report capital requirements under both frameworks on a parallel run basis for close to two years. Further, CBTT's Basel Policy Paper 'Phase 2', published early November 2019 outlined banks' requirements to prepare ICAAPs (based on nature, size, and complexity of the bank) as well as introducing a new leverage ratio, a capital conservation buffer, and Pillar 3 disclosure requirements. Further amendments to the Draft Capital Regulations were released for public consultation on

November 26, 2019 proposing, among others, adjustments to risk weights for certain national discretion items and a capital surcharge for SIFIs.

Credit Risk and Problems Assets, Provisions and Reserves (CPs 17–18)

- 26. Although total NPL levels remain relatively low at 3.4 percent, as at end-June 2019, CBTT should be vigilant in its assessment of the quality of banks' underwriting and asset classification practices. As at end-June 2019 past-due loans (1 to 89 days) amounted to TT\$3.2 billion or 4.5 percent of total commercial loans. Further, there was a continued rise in higher risk consumer-refinanced (TT\$2.4 billion) and debt consolidation loans (TT\$2.6 billion), which together represented 15 percent of commercial banks' total consumer loans of TT\$33.3 billion. Given the current level of past-due loans and the continued increase in consumer-refinanced and debt consolidation loans, CBTT should conduct an in-depth thematic credit review to assess their potential impact on the currently reported low NPL levels of 3.4 percent of total loans in the banking sector.
- 27. CBTT needs to reassess its onsite credit examination program to ensure adequate coverage of all SIFIs as well as updating guidance currently available to banks. CBTT conducted an in-depth thematic credit review in 2016–2017 at five of the largest commercial banks, which indicated at that point in time that banks were maintaining adequate underwriting standards for both consumer and commercial lending. CBTT has also conducted some touch-point follow-up onsite examinations, as well as monitored banks' progress in identifying any deficiencies found at that point in time. CBTT needs to ensure continued adequate assessment of credit risk management practices at the SIFIs on a more in-depth and frequent basis. Further, CBTT's credit risk guidance is spread over several outdated guidelines and, therefore, it should be a priority for CBTT to develop and release an updated credit risk management guideline to banks.
- 28. Although IFRS 9 accounting standards have been implemented by all banks, CBTT needs to update its current guidance on the measurement, monitoring and control of impaired assets. Further, given CBTT currently places its reliance on the external auditor to assess the adequacy of banks' expected loss credit risk models, as well as the models for valuation of Level 2/3 assets, CBTT should ensure supervisors have a good understanding of banks' credit risk management practices.

Risks (CPs 19-25)

29. CBTT may wish to reassess the adequacy of its large exposure limits for banks that operate in multiple jurisdictions in the Caribbean region to align with international standards, where appropriate. CBTT may wish to consider recalibrating the large exposure limits to be based on Tier 1 capital versus total capital. Further, CBTT may wish to reconsider certain exemptions currently in place (the trading book and the inter-banking exposures) to ensure that banks' exposures to concentration risk are adequately measured and captured.

- **30.** CBTT needs to enhance its monitoring of banks' market risk exposures as well as update its supervisory framework to ensure an in-depth understanding of banks' market risk management policies, processes, and systems. Specifically, CBTT needs to develop guidance around expectations of banks' use of models, valuation practices, and stress testing. Supervisory practices need to be developed to ensure adequate oversight by CBTT of the strength of banks' market risk management practices.
- 31. CBTT should develop a guideline on IRRBB and update its supervisory framework to ensure an in-depth understanding of bank's interest rate risk management policies, processes, and systems. At a minimum, CBTT's IRRBB guidance should set minimum requirements for asset-liability management, including diversification, setting target levels for interest margins, limits for off-balance sheet items sensitive to interest rate changes, establishing procedures for setting interest rates on deposits and other liabilities, and permissible limits of maturity gaps of the bank's assets and liabilities. Supervisory practices need to be developed to ensure adequate oversight by CBTT of the strength of banks' interest rate risk management practices.
- **32.** Although CBTT has minimum prudential liquidity reserve requirements for banks, it does not yet have in place risk-based liquidity requirements. CBTT is expected to release a Liquidity Risk Guideline outlining banks' requirements that, among other things, will establish an LCR for banks. In addition, this new guidance should ensure banks use an appropriate range of tools to measure liquidity risk, including bank's capability to aggregate key liquidity risk information on a timely basis at a group level. Funding strategies, together with contingency liquidity arrangements, should be Board-approved and tested under various stress scenarios. Further, CBTT should contemplate adopting the net stable funding ratio (NSFR) Basel III requirements, given the need for banks to assess, and for CBTT to be aware of, banks' longer-term funding horizon.
- 33. CBTT needs to develop a guideline on banks' Operational Risk Management frameworks that would encompass banks' requirements to mitigate existing areas of operational and technological risk. Specifically, CBTT needs to update its current draft Outsourcing Guideline, formulate expectations around recovery and business resumption planning, IT systems, security and integrity of data, and managing and escalating cyber-risk attacks.
- **34. The CBTT's technical risk expertise should be strengthened**. Given the need to develop risk guidance for banks and to enhance CBTT's supervisory practices around market risk review procedures specifically, it is essential that CBTT secure industry experience to help build the necessary expertise to assess and challenge banks' practices in this regard. This technical risk expertise should also be able to provide CBTT with support in the other risk areas of IRRBB and liquidity risk.

Disclosures and Transparency (CPs 27–28)

35. Although all banks fulfill disclosure requirements in accordance with IFRS9, CBTT should work toward adopting Basel II Pillar 3 disclosure requirements. The Financial Institution Capital Adequacy Regulation (2018) (Draft Capital Regulation), awaiting promulgation by parliament,

as well as CBTT's Circular announcing in its draft policy paper "Phase 2—Basel II and III implementation" released November 2019, both outline CBTT's intention to move toward banks' compliance with Pillar 3 disclosure requirements. The Draft Capital Regulation will confer to CBTT the power to specify which information banks would have to disclose that would strengthen key information for market participants.

Abuse of Financial Services (CP 29)

- **36.** Many recent changes in the legislative and supervisory guidance have augmented the need for banks to effectively comply with all AML/CFT requirements. Many pieces of legislation pertaining to financial institutions' AML/CFT compliance requirements were updated or introduced in 2018–19 (e.g., amendments to the Companies Act, May 2019 to address deficiencies regarding the adequacy, accuracy, and timeliness of obtaining key beneficial ownership information). Further, CBTT updated its AML/CFT Guideline effective April 2018, which strengthened its expectations regarding banks' AML/CFT regulatory and supervisory requirements, including the requirement to have group-level AML/CFT compliance.
- **37. CBTT needs to conduct regular onsite examinations to secure an independent "supervisory view" of the degree of banks' compliance**. In addition to the internal and external auditors' reviews of banks' self-assessment against AML/CFT legislative and supervisory requirements, CBTT must continue with its efforts to roll out its AML/CFT risk-based supervisory program. Together with the assistance of CBTT's AML/CFT experts, it will be key for supervisors to independently confirm banks' compliance with AML/CFT requirements.
- 38. CBTT should address any outstanding recommendations made by the Caribbean Financial Action Task Force (CFATF) that are specifically related to banking supervision and to reassess the adequacy of its current AML/CFT expertise. CBTT should introduce monetary sanctions for noncompliance with AML/CFT requirements. In addition, CBTT should continue its efforts to address any remaining gaps highlighted in the FATF Mutual Evaluation Report of June 2016 and successive follow-up reports, most recently in June 2019, that relate directly to banking supervision. Further, given CBTT's broader oversight of AML/CFT compliance in other sectors (e.g., insurance), CBTT needs to reassess the adequacy of its AML/CFT expertise to ensure adequate coverage for banks.

E. Authorities' Response to the Assessment

39. The CBTT appreciates the detailed assessment of its banking system against the Basel Core Principles conducted by the FSAP team and takes careful note of the recommendations made to improve oversight of the banking system and by extension financial stability. The CBTT acknowledges that several of the recommendations were identified in the Bank's 2016/17–2020/21 Strategic Plan and were in various stages of progress. Such initiatives include the implementation of Basel II/III, development and/or update of guidelines for inter alia corporate governance, credit, market, operational and liquidity risk management, guidelines for the designation and enhanced oversight of SIFIs, improvement of the stress testing regime, and finalizing of the

National Resolution/Crisis Management framework. Consequently, we shall take on board the recommendations made in this assessment to ensure that the frameworks and guidelines developed are robust.

F. Summary Compliance with the Basel Core Principles

| Core Principle | Comments |
|---|--|
| 1. Responsibilities, objectives, and powers | CBTT lacks powers to make regulations to set prudential criteria. Regulations are made by the MoF and are subject to negative resolution of Parliament (FIA S. 9). There is evidence that the process takes a long time (for example, the Capital Adequacy Regulation is still in draft) and this impinges on the ability of the regulation to remain effective and relevant to changing industry and international standards. |
| 2. Independence, accountability, resourcing, and legal protection for supervisors | Two members of CBTT's Board are "public service directors." Neither the CBA nor FIA formally prescribe CBTT's independence in the legislation. Several provisions in the law allow the MoF to intervene in the supervisory mandate and in the internal organization of CBTT. There has been a reduction in the resources devoted to the Bank, Nonbank Unit over the past several years, and the Unit requires additional staff to effectively fulfill its mandate. The Act does not require public disclosure of the reasons for terminating the governor's appointment. |
| 3. Cooperation and collaboration | CBTT does not have a mechanism/committee where domestic agencies are able to discuss views on emerging risk issues and potential impacts on the health of financial institutions, at a minimum for SIFIs during normal times and in the lead up to a major bank failure. |
| | CBTT does not have industry guidance outlining requirements for all SIFIs to have recovery and resolution plans in place (crisis contingency plans for smaller banks). CBTT has not shared the relevant aspects of the plan they have received with domestic and foreign authorities as part of its crisis preparedness framework. |
| | CBTT's National Crisis Management Plan is in draft. Both it, and the Regional Crisis Management Plan (which requires continuing regional coordination to complete), once finalized would be of particular importance to manage a major bank failure were it operating solely in Trinidad and Tobago or a conglomerate operating in multiple jurisdictions in the Caribbean region. |
| 4. Permissible activities | Nonbank financial institutions as defined in the FIA can use the word "bank" in their name and can take deposits with maturities longer than one year. However, the share of deposits taken by nonbanks is limited (less than 3 percent), and they are subject to a regime of licensing and prudential supervision equivalent to that for commercial banks. |
| 5. Licensing criteria | Applicants can borrow funds to meet the initial minimum capital requirement (TT\$15 million) for a new bank, which could inappropriately increase the bank's leverage. |
| | Further, given the recent amendment to the Companies Act (May 2019) regarding the changes to the definition of ultimate beneficial ownership (UBO), CBTT needs to assure itself that applicants are able to provide accurate and timely UBO information, both at the time of application and on a go-forward basis. |

| Core Principle | Comments |
|--------------------------------------|---|
| | New fit-and-proper guidelines recently came into force and have the potential to strengthen the suitability test of key individuals particularly when it comes to conflict of interest and time commitment issues. |
| 6. Transfer of significant ownership | When the potential buyer is not an 'acquirer,' the current threshold (20 percent) that requires CBTT's approval of a change in a significant shareholder is considered much higher than in other jurisdictions. |
| | This change will strengthen CBTT's ability to scrutinize all requirements of fitness and propriety to cases where the proposed shareholders that are not considered an 'acquirer' by definition might negatively influence the banks' decision-making processes. |
| 7. Major acquisitions | S. 44 and 45 of the FIA, together with s. 73 and 74, adequately outline various criteria that CBTT takes into consideration when assessing a proposed merger transaction, which includes among other things that the combined 'market share' or the size and concentration of economic power in the combination of the proposed acquirer and the licensee does not pose a risk to the financial system at large or deter from CBTT's ability, in general, to supervise the new combined entity. |
| | CBTT should consider explicit criteria (for all entities not just Financial Holding Companies (FHCs) or a bank that is the parent company of a financial group) for assessing whether it's ability to effectively supervise the new combined entity would be hindered in any way. |
| 8. Supervisory approach | CBTT's risk-based supervisory framework is comprehensive, however CBTT's Bank Inspection Manual (2003) is outdated and it does not reflect current supervisory practices. Certain supervisory processes appear to be labor intensive thereby limiting availability of resources to concentrate on other key aspects of supervision. |
| | The Banks and Nonbanks Supervisory Unit resources are insufficient given the mandate to supervise SIFIs, banks, nonbanks, to oversee CBTT's requirements for "Deemed SIFIs," as well as undertaking the development of regulatory guidance. |
| | CBTT has not undertaken resolvability assessments of banks that is key to ensuring the effective resolution of a bank, especially a large conglomerate. |
| | Although CBTT has identified SIFIs within the banks/banking groups, it has not contemplated a capital surcharge or other additional prudential requirements, nor has CBTT articulated an enhanced supervisory framework (e.g., communicate to SIFIs the need for enhanced monitoring, formalize new data requirements, etc.). |
| 9. Supervisory techniques and tools | CBTT makes good use of the information that it collects to analyze the risk profile of the banks. CBTT's onsite supervision program for banks, especially for SIFIs, does not provide for adequate coverage of the assessment of all key risks (credit, market, interest rate risk in the banking book, foreign exchange, and liquidity), including the overall risk management and internal control systems. |
| | CBTT's onsite examination reports are not completed and released to the banks on a timely basis, nor does CBTT meet with banks' Boards on a consistent basis. |

| Core Principle | Comments |
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| 10. Supervisory reporting | CBTT's regulatory data being collected does not necessarily include all key risk data (liquidity, market, foreign currency, interest rate risk in the banking book, etc.). In some instances (e.g., liquidity), regulatory reporting is lacking. Further, data collected for stress testing purposes is not necessarily being actively shared with the supervisors. |
| | CBTT's data validation mechanisms will benefit from the future planned adoption of an electronic software system to replace some of the manual verification and validation processes currently in place. |
| 11. Corrective and sanctioning powers of supervisors | CBTT has an adequate range of legislative powers to take corrective measures in dealing with problem financial institutions. CBTT lacks a practical internal guide to deal with a problem bank/banking group, at a suitably early juncture, well before failure. |
| | Although informal communication channels within CBTT work effectively, CBTT does not have formal internal reporting mechanisms (such as formal reporting to the Inspector/Governor or CBTT's Board on CRA rated three banks, for instance) to ensure that operational preparedness is working effectively. |
| | The banks are unaware of CBTT's process for using enforcement or corrective measures as outlined in CBTT's internal ladder of intervention table to the banks. |
| 12. Consolidated supervision | CBTT has introduced a Consolidated Supervision Framework in 2016, including the collection of key data, conducting joint examinations with foreign regulators, and sharing/receiving key quantitative and qualitative information from foreign regulators. |
| | Several key components of the Consolidated Supervision Framework do not include the group-level Internal Capital Adequacy Assessment Process (ICAAP), liquidity prudential requirements (LCR) and the ability for CBTT to collect key risk data on a group wide basis (e.g., net cumulative cash flow). Further, there is no requirement for group-level recovery and resolution plans or resolvability assessments as part of the consolidated supervision framework. |
| | Although CBTT currently collaborates well with other relevant supervisors (e.g., insurance and TTSEC), CBTT's risk-based supervisory framework does not analyze all types of entities in the group from the various sectors (e.g., insurance and securities entities). |
| 13. Home-host relationships | CBTT has put in place informal mechanisms to share key quantitative and qualitative bank and banking group information with host regulators. |
| | At this time, CBTT does not share pertinent information with host regulators regarding group wide recovery and resolution plans (one has been completed for the largest bank SIFI). Further, the CGBS has not finalized the Regional Crisis Management Plan. |
| | MoUs should be updated to include appropriately detailed provisions for the ongoing flow of information. |
| 14. Corporate governance | CBTT's Corporate Governance Guideline, 2007 is outdated and does not sufficiently emphasize the Board responsibility to approve a risk appetite. |
| J | CBTT is working toward developing a new Corporate Governance Guideline. |

| Core Principle | Comments |
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| | FIA prescribes only one mandatory Committee (Audit). While in a small or medium bank this could be proportionate, it may be more appropriate for CBTT to mandate additional key committees for SIFIs (such as a Risk Committee). |
| 15. Risk management process | CBTT does not appear to conduct full-scope onsite examinations to review the strength of senior management and the Board. CBTT contact with Board representatives are limited and a thematic review on corporate governance, originally scheduled for 2020, was postponed. Finally, CBTT has not implemented standards on remuneration, and has never carried out any supervisory activity on remuneration. Guidance is lacking on CBTT's expectations on bank's risk management practices concerning a number of key risk areas (market risk, interest rate risk in the banking book, operational risk, and liquidity risk). |
| | The risk management function has, to date, not been requested to develop ICAAP, internal liquidity adequacy assessment processes (ILAAP), recovery and resolution planning, forward-looking stress test programs commensurate with their risk profile and systemic importance, as an integral part of their risk management processes. |
| | CBTT has not issued detailed requirements on risk data aggregation and reporting. |
| | Current guidance does not require the risk management function to be subjected to regular review by the internal audit function. There is no requirement that larger or more complex banks have a dedicated risk management unit overseen by a Chief Risk Officer. |
| 16. Capital adequacy | Although CBTT is in the process of putting in place Basel II capital adequacy requirements for banks, banks are still subject to a Basel I capital framework |
| | A Financial Institutions (Capital Adequacy) Regulations 2018 (Draft Capital Regulations) is currently awaiting promulgation by parliament, which will bring CBTT's capital adequacy requirements of banks from a Basel I to Basel II regime. In addition, CBTT's recently released draft policy paper entitled "Phase 2—Basel II and III implementation" (November 2019), announces the introduction of Pillar 2 requirements, ICAAP, the leverage ratio, the capital conservation buffer and Pillar 3 disclosure requirements. Further, recently proposed amendments to the Draft Capital Regulations indicate that CBTT will introduce a capital surcharge for SIFIs as well as address concerns related to certain national discretion items. |
| 17. Credit risk | Although CBTT has carried out extensive onsite thematic reviews at all of the SIFIs three years ago, including making use of an internal credit risk expert/consultant, consistent coverage of onsite credit examinations is lacking. |
| | CBTT's credit risk management guideline for banks is outdated and lacks clearly articulated expectations on bank's credit risk underwriting practices in one guideline. |
| | It is noted that as there has been an increase in both past-due loans and the substantial increase in consumer refinanced and debt consolidation loans for commercial banks, CBTT is in the process of conducting in-depth credit reviews the banks to assess the adequacy of banks' current asset classification systems. |

| Core Principle | Comments |
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| 18. Problem assets, provisions, and reserves | Although IFRS 9 accounting standards have been implemented effective January 1, 2018, CBTT's current guidance is outdated and does not reflect the new requirements (e.g., CBTT's Guideline for the Measurement, Monitoring and Control of Impaired Assets, July 2007). |
| | CBTT currently places some reliance on external auditors to assess the adequacy of bank's provisioning, including bank's expected loss credit risk models (and classification systems, etc.). CBTT currently does not have a good understanding of bank's credit risk models and overall credit risk management practices. |
| 19. Concentration risk and large exposure limits | Banks are required to have policies and processes on concentration risk and the law holds the Board accountable for ensuring that the banks' management information system is adequate to identify and monitoring large exposures. CBTT does collect and assess data received from regulatory reporting on large exposure (CB105). |
| 20. Transactions with related parties | Concentration risk toward sovereigns reached 20 percent of total assets. Recent amendment to FIA (S. 421A) might increase the banking systems' exposures. The Law provides a broad definition of connected parties and capture all the actors in principle able to extract private benefits form the bank. However, certain requirements (arm's-length principle and Board approval) in the legislation mainly focus on related-party lending, rather than related-party transactions, which could result in abuse related to these transactions. |
| | Not all limits are monitored by CBTT as loans to directors are not reported as part of the regulatory return. |
| | Government credit exposures were recently excluded from the definition of "connected party," with potentially relevant impact for lending to state-own enterprises. An amendment in the wording of the FIA is required to ensure that government exposures continue to be undertaken using the arm's length principle and criteria for approval. |
| | The exemption exposures to fully-owned subsidiaries and to a holding company or an FHC, which is itself a licensee or a permit holder, is questionable since it might lead to abuse in intra-group transactions. |
| 21. Country and transfer risks | Although CBTT does have a general expectation that banks take into account country and transfer risk as part on the risk management policies and practices, it lacks guidance to banks on the identification, measurement, evaluation, monitoring, reporting and control or mitigation of country risk and transfer risk. |
| | Although some regulatory reporting requirements are in place, CBTT however, is not conducting onsite reviews around the strength of bank's risk management processes pertaining to bank's exposures to country risk and transfer risk. |
| 22. Market risk | CBTT's reliance on the view of external auditors' bank's market risk management practices, including the IFRS 9 valuation of market risk exposures, provides only one level of assurance. |
| | CBTT does not monitor bank's market risk exposures nor do supervisors have a view on the strength of bank's market risk management policies, processes and systems. CBTT does not have guidance on bank's market risk management policies and practices, including guidance on the use of models for valuation and stress testing purposes. |

| Core Principle | Comments |
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| | CBTT does not currently conduct onsite examinations of banks' systems and controls to ensure that banks marked to market positions are properly valued and revalued frequently. |
| | CBTT does not have a market risk expert who could assist in the roll out of new guidance in deficient risk areas (e.g., to cover IRRBB, liquidity and all aspects of market risk including foreign currency and country risk exposures). |
| 23. Interest rate risk in the banking book | CBTT is planning on issuing a new guideline on Management of IRRB in the coming months. CBTT currently has no minimum requirements for asset-liability management, including diversification in the sources and tenor of funding, setting target levels for interest margins, limits for off-balance sheet items sensitive to interest rate changes, establishing procedures for setting interest rates on deposits and other liabilities, and permissible limits of maturity gap of the bank's assets and liabilities. |
| | CBTT's proposed new Stress Testing guideline is expected to introduce requirements for bank's stress testing programs to include the testing of IRRBB for risk management purposes. |
| 24. Liquidity risk | At present, CBTT does not place any qualitative nor quantitative liquidity requirements on licensees to, for example, limit maturity mismatches; nor are they subject to any supervision of estimated cash flows. CBTT does track bank's compliance with the reserve liquidity requirements against the limits outlined in the law (per s. 57 of the FIA) as well as track some liquidity coverage ratios as part of bank's regulatory reporting on a quarterly basis, which is factored into the supervisor's overall risk assessment. CBTT currently has high-level requirements for banks to have policies and procedures in place for risk management purposes. CBTT does not conduct onsite examinations of bank's overall liquidity risk management policies and practices. |
| | CBTT is working on developing a Guideline on "Liquidity Risk Management," which will introduce the requirement for the Liquidity Coverage Ratio (LCR). CBTT should also contemplate adopting the NSFR Basel III requirement given the need for banks to assess and for CBTT to be aware of bank's longer-term liquidity horizon. |
| | CBTT's risk-based supervisory framework does not currently reflect the need for supervisors to examine bank's liquidity risk management policies and practices. |
| | CBTT is currently collection of liquidity data will need to meet future data needs to support LCR and other key liquidity information. Current relevant liquidity data collected by the Statistics Unit is not shared with the supervisors. |
| 25. Operational risk | CBTT's currently developing a new Guideline on the "Operational Risk Management" that should encompass all topics including governance, outsourcing (reliance on cloud service providers), IT systems, security of customer data, disaster recovery and business continuity plans, monitoring and management of cyber risk). CBTT's current onsite examination framework and offsite surveillance programs to assess bank's operation risk frameworks do not necessarily cover all of these key areas. |

| Core Principle | Comments |
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| 26. Internal control and audit | Regulatory framework for the internal audit function is currently contained in several different guidelines and should be rationalized. The roles and responsibilities for the Compliance Function, need to be defined beyond the AML/CFT requirements. |
| | No definition for independence of the Internal Audit function (e. g. should add no conflict of interest requirement, remuneration structure not related to the performance of the business lines, etc.). |
| 27. Financial reporting and external audit | Financial statements are prepared in accordance with internationally accepted accounting standards (IFRS 9) and duly audited by a certified auditor, on an individual basis and on a consolidated basis. The agenda of bilateral meetings with External Auditors is relatively limited. |
| 28. Disclosure and transparency | Audited Financial Statements are the main source of disclosure for banks. Basel II, Pillar 3 disclosure requirements are expected to be implemented by CBTT. |
| 29. Abuse of financial services | There are many recent changes/enactments in AML/CFT legislation and the issuance of CBTT's new guideline. CBTT is in the process of rolling out its new risk-based AML/CFT supervisory methodology to all banks. |
| | CBTT should introduce monetary sanctions for banks' noncompliance with AML/CFT requirements (as planned). |
| | CBTT's AML/CFT experts are stretched given the need to roll out an AML/CFT supervisory program for insurance companies. |

G. Recommended Actions to Improve Compliance with the Basel Core **Principles and the Effectiveness of Regulatory and Supervisory Frameworks**

| Reference Principle | Recommended Action |
|---------------------|---|
| Principle 1 | Confer to CBTT the power to make regulations to set prudential criteria (amend FIA S. 9). |
| Principle 2 | Enshrine CBTT independence in the law and remove MoF representation on CBTT's Board. |
| | Reassess areas within the FIA and CBA where CBTT should possess the power to make approvals relating to operational and financial independence, as well as the regulatory approvals concerning banks. |
| | Prescribe public disclose of reasons for the termination of appointment of the governor. |
| Principle 3 | Create a mechanism/committee where domestic agencies are able to discuss views on emerging risk issues impacts on SIFIs. |
| | Roll out requirement for SIFI recovery and resolution planning, develop supporting guidance and share relevant aspects of the plans with domestic and foreign authorities. |
| | Finalize draft National Crisis Management Plan. |
| Principle 4 | Prevent nonbank financial institutions from using the word "bank." |
| Principle 5 | Change initial capital injection requirement by bank applicants to not permit the use of borrowed funds. |
| | Reassess the adequacy and timeliness of ultimate beneficial ownership (UBO) information being received by applicants. |
| Principle 6 | Reduce the threshold that triggers for a CBTT significant shareholder authorization from 20 percent to 10 percent, whenever the potential buyer is not an acquirer. |
| Principle 8 | Update its Bank Inspection Manual (2003) to reflect current supervisory practices and streamline the documentation process to make better use of its limited resources. |
| | Increase the supervisory resources of the Banks and Nonbanks Supervisory Unit, given its mandate to supervise SIFIs, banks and nonbanks, to examine the affairs of "Deemed SIFIs," as well as undertake the development of regulatory guidance. |
| | Undertake resolvability assessments now of its banks to ensure the effective resolution of a bank. |
| | Develop SIFI prudential supervisory framework for enhanced monitoring. |
| Principle 9 | Reassess mix of onsite and offsite examinations to ensure adequate coverage of risk in SIFIs. |
| | Improve timeliness of the release of examination reports. |

| Reference Principle | Recommended Action |
|---------------------|--|
| | Determine when CBTT should meet with representatives of banks' Boards, including independent Board members. |
| Principle 10 | Reassess the adequacy of regulatory risk data and reporting. |
| | Ensure the implementation of the new electronic software data validation system. |
| Principle 11 | Develop a practical internal guide to deal with a problem bank/banking group, including formalizing internal reporting mechanisms to ensure operational preparedness. |
| | Finalize and release the ladders of intervention corrective measures to the banks. |
| Principle 12 | Reassess key risk data currently collected from conglomerates to align with group-level assessment requirements (e.g., LCR, ICAPP, Liquidity—net cumulative cash flow). |
| | Develop group-level recovery and resolution plans, including resolvability assessments that incorporate all sectors of operations (e.g., insurance, investment funds). |
| | Update the risk-based supervisory framework/matrix to ensure the adequate analysis of all types of entities in the group. |
| Principle 13 | Share relevant information on group-wide recovery and resolution plans once developed. |
| | Assist the CGBS in finalizing the draft Regional Crisis Management Plan. |
| | Ensure all MoUs are up to date and include appropriately detailed provisions for the ongoing flow of all information, including bank's compliance with AML/CFT requirements. |
| Principle 14 | Revise the new Corporate Governance Guideline to address requirements for banks to have a risk appetite framework. |
| | Introduce minimum mandatory Board Committees for SIFIs (e.g., Risk Committee). |
| | Once the new guideline is released, consider conducting deep-dive examination, thematic review, and/or onsite inspection of the adequacy on governance at SIFI banks. |
| | Taking stock of remuneration policies and practices and assess if they incentivize excessive risk taking. |
| Principle 15 | Develop overarching guidance on bank's risk management policies and practices to include requirement for banks to have contingency arrangements (including recovery plans), risk data aggregation reporting and testing capability in place for SIFIs, and CRO to oversee Risk Management Units in banks and be subject to regular internal audit reviews. |

| Reference Principle | Recommended Action |
|---------------------|--|
| Principle 16 | Roll out Pillar 2 requirements to banks, including the introduction of ICAAP, the leverage ratio, the capital conservation buffer, and Pillar 3 disclosure requirements. |
| | Remove the asset revaluation reserve from Tier 2 capital under the new capital rules (as planned). |
| Principle 17 | Ensure consistent coverage of credit risk onsite credit examinations for SIFIs. |
| | Develop and finalize a credit risk management guideline for banks. |
| | Finalize the current in-depth thematic credit review on a high-priority basis, which will assess the potential impact on the currently reported low NPL levels, especially given the increase in both past-due loans and refinanced/debt consolidation loans. |
| Principle 18 | Update all guidance to reflect the adoption of IFRS9. |
| | Supervisors are to become familiar with bank's expected loss credit risk models. |
| Principle 19 | Consider reassessing adequacy of prudential limits for banks that operate in multiple jurisdictions in the Caribbean region. |
| Principle 20 | Suggest amending the FIA so as to include transactions, other than lending to those subject to the arm' length principle and to Board approval. |
| | Introduce a new regulatory return to adequately monitor the limits to loans to directors. |
| | Amend the FIA to ensure that government exposures continue to be undertaken using the arm's length principle and criteria for approval. |
| | Amend the FIA to eliminate exemption from the limit of 10 percent granted to exposures to fully owned subsidiaries and to holding company or FHC which is itself a licensee or a permit holder. |
| Principle 21 | Develop country risk and transfer risk guidelines for banks. |
| Principle 22 | Update supervisory framework (onsite examinations and offsite surveillance data needs) to ensure supervisors are adequately monitoring bank's market risk exposures, as well as having a supervisory view on the strength of bank's market risk management policies, processes and systems. |
| | Develop market risk guidance for banks, including guidance on the use of models for valuation and stress testing purposes. |
| | Bring on board a market risk expert to cover deficient risk areas (e.g., to IRRBB, liquidity and all aspects of market risk, including foreign currency and country risk exposures). |
| Principle 23 | Update supervisory framework (onsite examinations and offsite surveillance data needs) to ensure supervisors are adequately monitoring bank's IRRBB as well as having a supervisory view on the strength of bank's IRRBB management policies, processes and systems. |
| | Issue a new guideline on the Management of Interest Rate Risk. |

| Reference Principle | Recommended Action |
|---------------------|---|
| | Ensure the new Stress Testing guideline introduces requirements for banks to include the testing of IRRBB for risk management purposes. |
| Principle 24 | Develop new Guideline on "Liquidity Risk Management" to reflect LCR requirements. |
| | Update CBTT's risk-based supervisory framework to reflect the new Liquidity Risk Guideline. |
| | Reassess its current collection of liquidity data and assess future data needs to support LCR and other key liquidity information. |
| | Make better use of the limited liquidity data currently collected for stress testing purposes but not currently shared with Supervisors. |
| Principle 25 | Develop a Guideline on the "Operational Risk Management" that encompasses all key topics. |
| | Update current onsite examination framework and offsite surveillance programs to assess bank's operation risk frameworks will need to be adopted to include the soon to be released new guidance. |
| Principle 26 | Expand the definition of bank's Compliance Function beyond only the AML/CFT requirements. |
| | Define the concept of 'independence' for the Internal Audit Function. |
| Principle 28 | Implement Basel II, Pillar 3 disclosure requirements. |
| Principle 29 | Roll out the new risk-based AML/CFT supervisory methodology to all banks |
| | Introduce monetary sanctions to banks noncompliance with AML/CFT requirements. |
| | Reassess adequacy of AML/CFT experts, given CBTT's broader mandate. |

Statement by Mr. Bevilaqua, Executive Director, and Ms. Mohammed, Senior Advisor on Trinidad and Tobago—Financial System Stability Assessment

The Trinidad and Tobago authorities would like to thank staff for the comprehensive and fruitful discussions during the course of the FSAP engagement. Although the missions occurred prior to the onset of the COVID-19 outbreak, the authorities commend the team for the brilliant display of flexibility as COVID-19 scenarios were incorporated into the risk analyses, which have greatly complemented the report and enhanced its relevance during this period where financial stability risks have increased.

Since the last FSAP in 2010, financial soundness indicators (FSI) for both the banking sector and insurance companies in Trinidad and Tobago have generally been robust. Capital adequacy ratios have remained much higher than the regulatory minimum requirement, profitability has improved while asset quality and liquidity measures have been maintained at relatively high and stable levels. In July 2020, the Central Bank of Trinidad and Tobago (CBTT) released its 2019 Financial Stability Report (FSR) which highlighted the resilience of the domestic financial system. However, the FSR also noted that the institutions' strong capital positions could be eroded if potential vulnerabilities are exposed and key risks materialize.

Against this backdrop, the authorities concur with staff's assessment that the banking system is well-capitalized and liquid. They note the findings on financial vulnerabilities including energy dependence, rising household debt, increasing sovereign exposure and spillovers from natural disasters in the region, which are in alignment with their own assessment of financial stability concerns. The authorities appreciate the objective analysis and candid recommendations which provide further impetus to strengthen on-going efforts to address issues that affect financial system stability.

The timing of this FSSA is extremely crucial for Trinidad and Tobago, particularly as COVID-19 occurred while the economy was making positive strides to return to growth following three years of contraction over the period 2016 to 2018. This pandemic has stifled domestic activity in 2020 as restrictions to stem the outbreak were in effect. Over the past few weeks, a second wave of confirmed cases emerged, resulting in another bout of restrictions and heightened economic uncertainty. Although the financial institutions continue to be resilient and should be able to withstand any shock, prolonged effects from COVID-19 can threaten the stability of the financial system. Hence, the authorities continue to be vigilant and proactive as they monitor developments and coordinate actions to respond to emerging threats.

The report highlights the progress made by the authorities since the last FSAP—around the time when a systemically important financial institution (SIFI) failed—and mentions that further reforms are required to consolidate and leverage recent gains. As the authorities have been placing tremendous efforts on improving its regulatory and supervisory framework such as

bridging legislative gaps, strengthening national and regional supervisory coordination, and refining its risk analytics for banks and insurance companies, our comments will focus on some of the findings and recommendations.

A. Legislative Issues

Regulation of the banking sector was strengthened by the recent promulgation of Basel II/III capital requirements. The authorities acknowledge that over the past decade financial sector legislation and regulations have not kept pace with international best practice. Despite this deficiency, the CBTT has been quite efficient with respect to overseeing and monitoring the financial institutions under its purview. However, the modernizing of legislation will greatly enhance the effectiveness of its supervisory oversight. To this end, some progress towards improving risk-based supervision and governance have been made. Since 2014, the CBTT commenced a consultative process with the banking sector on how to effectively implement Basel II/III. This was followed by quantitative impact studies to evaluate the implications of this policy change. In May, the Financial Institutions (Capital Adequacy) Regulations 2020 were given legal effect, allowing the CBTT to implement the new Basel II and Basel III capital requirements.

CBTT's supervisory effectiveness can also be impacted by the modernization of the Central Bank Act. In this regard, enhanced autonomy over its governance, decision making, and internal organization is necessary for the CBTT to align its operations with international best practice.

Meanwhile, legislative developments for the insurance sector are progressing somewhat slower than anticipated but the authorities remain confident that the new Insurance Act will be proclaimed later this year. The collapse of CL Financial in 2009 highlighted several shortcomings in the outdated Insurance Act. That legislation has since been comprehensively reviewed and the new Insurance Act, which was passed by parliament, is currently awaiting proclamation. When proclaimed, the new Act will significantly strengthen measures to boost corporate governance in the sector, increase the minimum capital requirement, support risk-based supervision and fortify the CBTT's regulatory powers.

B. Stress Testing of Banks and Insurance Companies

The results of the stress tests revealed that the domestic banking system should be able to withstand extreme but plausible shocks. The stress tests for banks were conducted under high levels of uncertainty due to the COVID-19 pandemic. Under the pre-COVID-19 adverse scenario and the COVID-19 central scenario, none of the banking institutions is expected to breach the minimum capital requirement over the three years to 2022. While the former scenario can be a useful reference point, it is now deemed to be unrealistic as the economic recovery in not likely to be "V" shaped. The COVID-19 central scenario, which is relatively more relevant, showed that the strong capital buffers in the banking system can absorb the negative fallout from a prolonged recession. In light of the recent increase in domestic COVID-19 cases, the authorities are paying

special attention to staff's COVID-19 downside scenario stress test which showed that some banks could need additional capital in 2022. Given that there is some likelihood that this adverse scenario can occur, the high level of cross border activities and interconnectedness within the financial system suggest that the authorities must remain alert and continually exercise prescience during this global economic and health crisis.

The CBTT has been refining its stress testing methodology to capture the effects of multiple adverse factors occurring simultaneously and over a defined period of time. In that regard, the CBTT welcomes the recommendations to introduce scenario-based solvency stress tests and cash-flow based liquidity stress tests and will appreciate any technical assistance the Fund can provide.

The recommendations regarding data issues are also being actively discussed. While the CBTT recognizes the benefits of collecting data from licensed financial institutions in a flat-file format, it is unlikely to be implemented in the very short term as the institutions have indicated their need to invest in technology, improve data capture and employ additional resources. The CBTT will continue to explore ways to ease the transition burden on financial institutions and ensure that the flat-file format is progressively implemented.

The stress tests of insurance companies covered a large segment of the industry based on market size and the findings revealed that the sector is quite robust and can withstand shocks. However, staff noted that vulnerabilities to a series of severe natural disasters exist. The unpredictable nature and the increasing frequency of natural disasters (including climate-related) present a constant threat to the stability of insurance companies. The legislative improvements mentioned above will result in insurers having stronger capital positions while an expansion in surveillance tools will boost the monitoring of the sector. Over the next twelve months, the CBTT plans to introduce top-down stress testing of insurance companies to complement other surveillance efforts.

C. Systemically Important Financial Institutions (SIFIs)

In recent years, the authorities have made strides in designating and monitoring SIFIs. The supervision of SIFIs is shared among several regulatory agencies and the range of activities conducted by these SIFIs is diverse. The authorities agree that the powers and resources to supervise these institutions need to be strengthened but careful consideration must be given to understanding the uniqueness of some of the SIFIs. The CBTT has outlined in its five-year strategic plan the need to develop a strategy to monitor designated SIFIs and other large financial institutions that fall outside its perimeter. The CBTT has also been conducting regular on-site and off-site visits of SIFIs and recently engaged the IMF Caribbean Regional Technical Assistance Centre (CARTAC) for technical assistance to utilize network analysis tools to strengthen their surveillance.

D. Investment Funds

The mutual fund industry has continued to experience stable growth in assets under management. Some of the investment funds are deemed to have systemic impact based on their size and interconnectedness within their conglomerate structure. As such, the authorities acknowledge the contagion risk between investment funds and banks and have been cautiously monitoring developments within the industry. They are aware of the risks posed by investment funds under management carrying fixed net asset values (NAVs) while the funds are easily withdrawn. They concur with staff's recommendation to carefully sequence an industry-wide transition of investment funds to floating NAVs.

E. Other Issues

The authorities have been working arduously to improve the integrity of the financial system, strengthen the supervision of credit unions and finalize the national crisis management plan. The recent removal of Trinidad and Tobago from the Financial Action Task Force's (FATF) "grey" list in February 2020 was a major achievement for the authorities, and this is likely to ease some of the challenges faced by financial institutions to maintain correspondent banking relationships. On the credit union front, the issue of supervision is currently being discussed by the authorities who are carefully examining the structure of the industry, the safeguards and the most effective way to regulate the diverse set of co-operative societies. Meanwhile, the assessment of the banking sector against Basel Core Principles was welcomed by the authorities. The deficiencies identified will be actioned over time as legislative shortcomings are resolved and banking regulations and policy guidelines are updated. For the remaining duration of the CBTT's strategic plan FY2017-FY2021, several of the issues raised are expected to be addressed, including the operationalizing of a national crisis management/resolution plan.

Conclusion

The authorities thoroughly appreciate its engagements with the Fund and World Bank in this exercise and respect the high-quality assessments, candid views and recommendations. The FSSA supports some of the authorities' own assessment of the domestic financial system, while it accentuates important systemic issues that require greater priority. Over the past six months, the need to be agile has been crucial for the regulators as economic and financial conditions have been dynamic. The FSSA report will provide an important contribution to the authorities' blueprint involving concrete actions to maintain financial stability in Trinidad and Tobago.