



DEMOCRATIC REPUBLIC OF SÃO TOMÉ AND PRÍNCIPE

REQUEST FOR DISBURSEMENT UNDER THE RAPID CREDIT FACILITY— DEBT SUSTAINABILITY ANALYSIS¹

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Approved By
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Prepared by the staffs of the International
Monetary Fund and International
Development Association.

| São Tomé and Príncipe: Joint Bank-Fund Debt Sustainability Analysis | |
|--|---|
| Risk of external debt distress | <i>In debt distress</i> |
| Overall risk of debt distress | <i>In debt distress</i> |
| Granularity in the risk rating | <i>Sustainable</i> |
| Application of judgement | <i>No</i> |
| Macroeconomic projections | Reflecting recent data and the COVID-19 shock, the projections have been updated. (see below) |
| Financing strategy | Other than the RCF, the financing gap will be filled with grants by other donors, including the World Bank. The authorities have committed to prioritize spending to match available resources. |
| Realism tools flagged | n.a. |
| Mechanical risk rating under the external DSA | <i>In debt distress</i> |
| Mechanical risk rating under the public DSA | <i>In debt distress</i> |

¹ The DSA update was prepared by IMF and World Bank staffs in collaboration with the authorities of São Tomé and Príncipe. The analysis updates the previous Joint DSA dated September 18, 2019 (IMF Country Report No. 19/315).

The country remains in debt distress due to prolonged unsettled external arrears. In addition, the significant domestic arrears of the large loss-making state-owned utility company (EMAE) reflect the severe liquidity constraints of the public sector. Staff assesses that the country has the capacity to repay the external arrears over time, as indicated by the external debt ratios. While the present value (PV) of external PPG debt-to-exports ratio breaches its threshold in 2020 due to the COVID-19 shock, all other external PPG debt burden indicators remain well below their thresholds throughout the projection horizon in the baseline scenario.² While the PV of total public and publicly guaranteed (PPG) debt is currently above the high-risk benchmark, it can be deemed sustainable since the PV of PPG debt falls below the benchmark when accounting for the terms of formalized concessional debt of EMAE and the government to the country's fuel supplier, ENCO. Furthermore, the country is committed to implement EMAE's planned reforms and borrow externally only on concessional terms at a measured pace. The likelihood of contingent liabilities materializing, particularly ENCO's arrears to its parent company Sonangol (a state-owned company of Angola), remains relatively low, given the close diplomatic ties between the two countries.

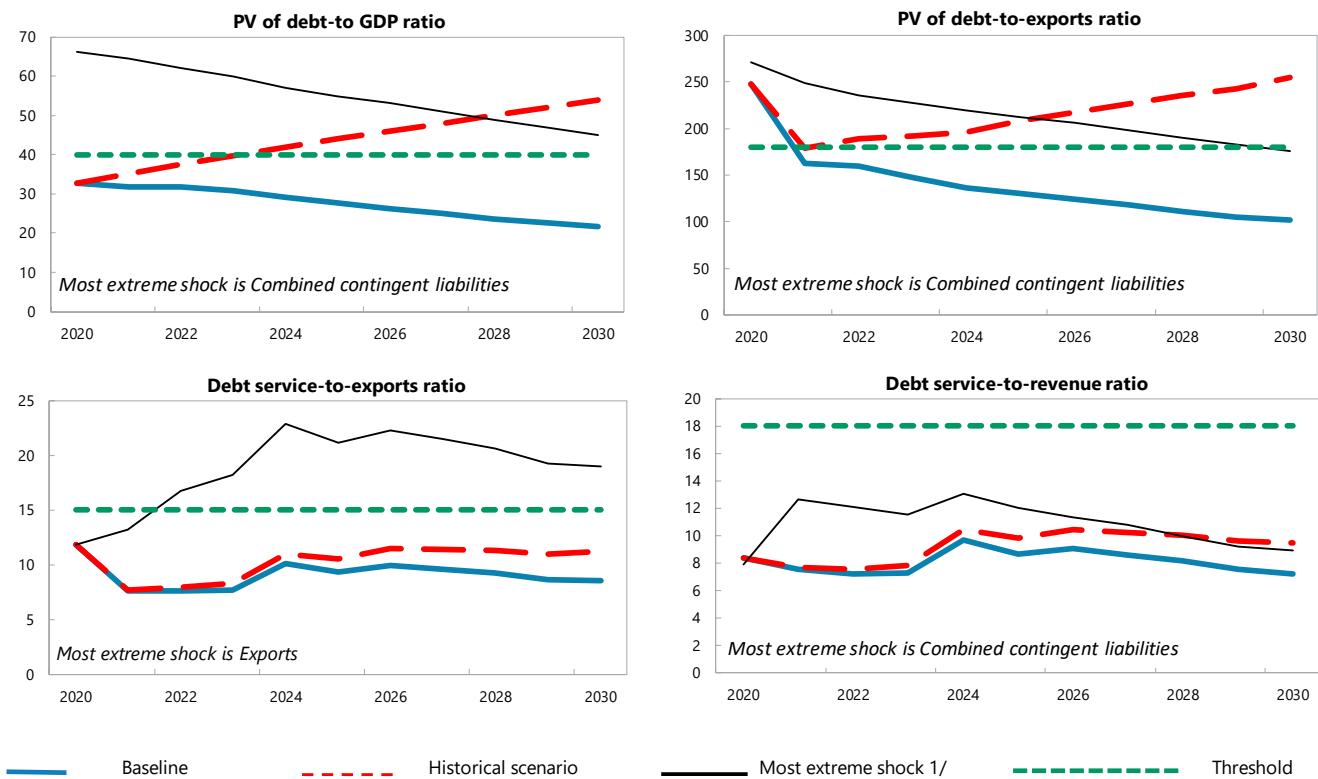
Macroeconomic projections: The COVID-19 shock is expected to lead to a contraction of the economy in 2020 with immediate and large BOP and fiscal financing needs. Real GDP growth in 2020 is projected to decline to -6.0 percent, compared with pre-crisis projections of 3.5 percent. Average real growth and inflation are both revised down to 4 percent and 3 percent, respectively (compared to 4.3 percent and 4 percent in the previous DSA), throughout the 2020-40 projection horizon. Export and import growth have also been revised slightly downward throughout the projection horizon. The domestic primary budget deficit is expected to reach 5.6 percent of GDP in 2020 compared with pre-COVID-19 projections of 1.7 percent of GDP, and now averages 1.1 percent of GDP through the projection horizon compared to 0.9 percent in the previous DSA. The larger financing needs in 2020 are projected to be covered by the RCF disbursement and other international support in the form of grants.³ The economy is expected to recover in 2021 to close to 2019 levels with the implementation of long-delayed construction projects and a recovery in tourism and global demand.

The DSA follows the IMF and World Bank Staff Guidance Note on the Application of the Joint Fund-Bank Debt Sustainability Framework (DSF) for Low-Income Countries (LICs) (February 2018). The country's Composite Indicator score is 2.68 and its debt carrying capacity is assessed to be medium.

² World Bank staff simulated a scenario assuming full disbursement of annual IDA allocations under credit terms, which did not affect the risk of external debt distress rating.

³ Compared with the previous DSA, the reduction of arrears to domestic suppliers in 2019 of US\$15 million dollars (3½ percent of GDP) by incorporating these into the 2019 budget largely offset the proposed borrowing from the IMF's Rapid Credit Facility in 2020 to combat the COVID-19 pandemic.

Figure 1. São Tomé and Príncipe: Indicators of External Debt Under Alternative Scenarios, 2020–2030



| Customization of Default Settings | | |
|-----------------------------------|------|--------------|
| | Size | Interactions |
| Tailored Tests | | |
| Combined CLs | Yes | |
| Natural Disasters | No | No |
| Commodity Prices ^{2/} | n.a. | n.a. |
| Market Financing | n.a. | n.a. |

Note: "Yes" indicates any change to the size or interactions of the default settings for the stress tests.
"n.a." indicates that the stress test does not apply.

| Borrowing Assumptions for Stress Tests* | | |
|--|---------|--------------|
| | Default | User defined |
| Shares of marginal debt | | |
| External PPG MLT debt | 100% | |
| Terms of marginal debt | | |
| Avg. nominal interest rate on new borrowing in USD | 1.8% | 1.8% |
| USD Discount rate | 5.0% | 5.0% |
| Avg. maturity (incl. grace period) | 23 | 23 |
| Avg. grace period | 9 | 9 |

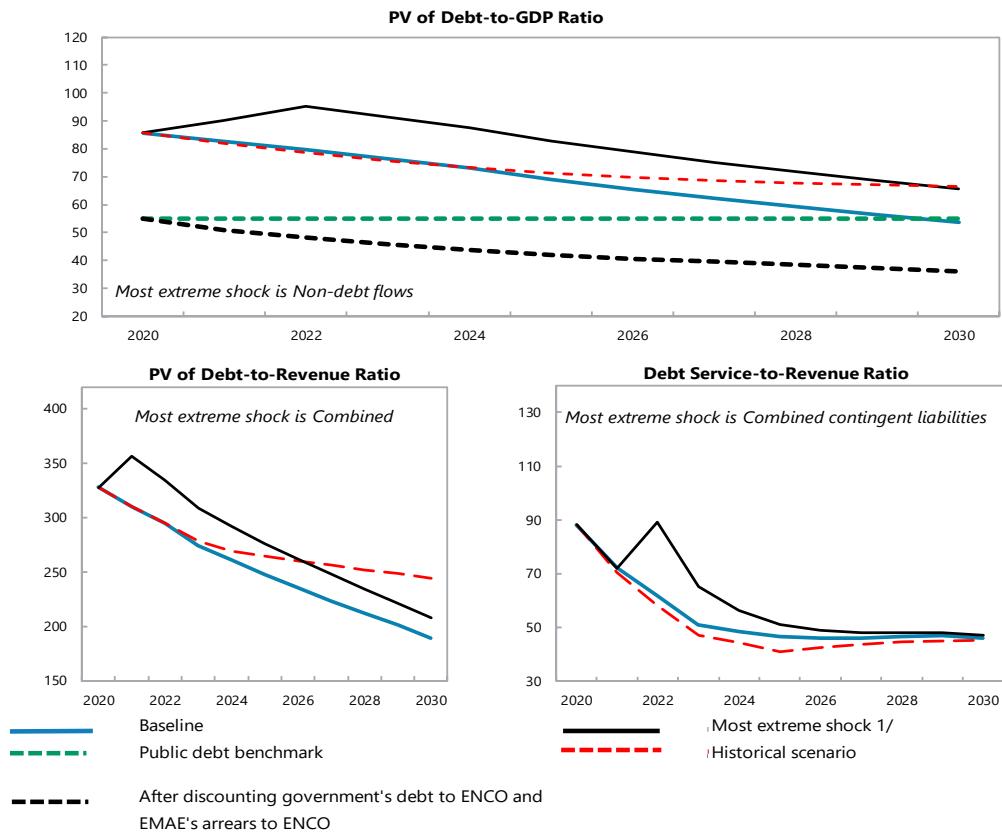
* Note: All the additional financing needs generated by the shocks under the stress tests are assumed to be covered by PPG external MLT debt in the external DSA. Default terms of marginal debt are based on baseline 10-year projections.

Sources: Country authorities; and staff estimates and projections.

1/ The most extreme stress test is the test that yields the highest ratio in or before 2030. Stress tests with one-off breaches are also presented (if any), while these one-off breaches are deemed away for mechanical signals. When a stress test with a one-off breach happens to be the most extreme shock even after disregarding the one-off breach, only that stress test (with a one-off breach) would be presented.

2/ The magnitude of shocks used for the commodity price shock stress test are based on the commodity prices outlook prepared by the IMF research department.

Figure 2. São Tomé and Príncipe: Indicators of Public Debt Under Alternative Scenarios, 2020–2030



| Borrowing Assumptions for Stress Tests* | Default | User defined |
|--|---------|--------------|
| Shares of marginal debt | | |
| External PPG medium and long-term | 33% | 33% |
| Domestic medium and long-term | 12% | 12% |
| Domestic short-term | 179% | 55% |
| Terms of marginal debt | | |
| External MLT debt | | |
| Avg. nominal interest rate on new borrowing in USD | 1.8% | 1.8% |
| Avg. maturity (incl. grace period) | 23 | 23 |
| Avg. grace period | 9 | 9 |
| Domestic MLT debt | | |
| Avg. real interest rate on new borrowing | -2.9% | -2.9% |
| Avg. maturity (incl. grace period) | 100 | 100 |
| Avg. grace period | 99 | 99 |
| Domestic short-term debt | | |
| Avg. real interest rate | -2.0% | -2.0% |

* Note: The public DSA allows for domestic financing to cover the additional financing needs generated by the shocks under the stress tests in the public DSA. Default terms of marginal debt are based on baseline 10-year projections.

Sources: Country authorities; and staff estimates and projections.

1/ The most extreme stress test is the test that yields the highest ratio in or before 2030. The stress test with a one-off breach is also presented (if any), while the one-off breach is deemed away for mechanical signals. When a stress test with a one-off breach happens to be the most extreme shock even after disregarding the one-off breach, only that stress test (with a one-off breach) would be presented.

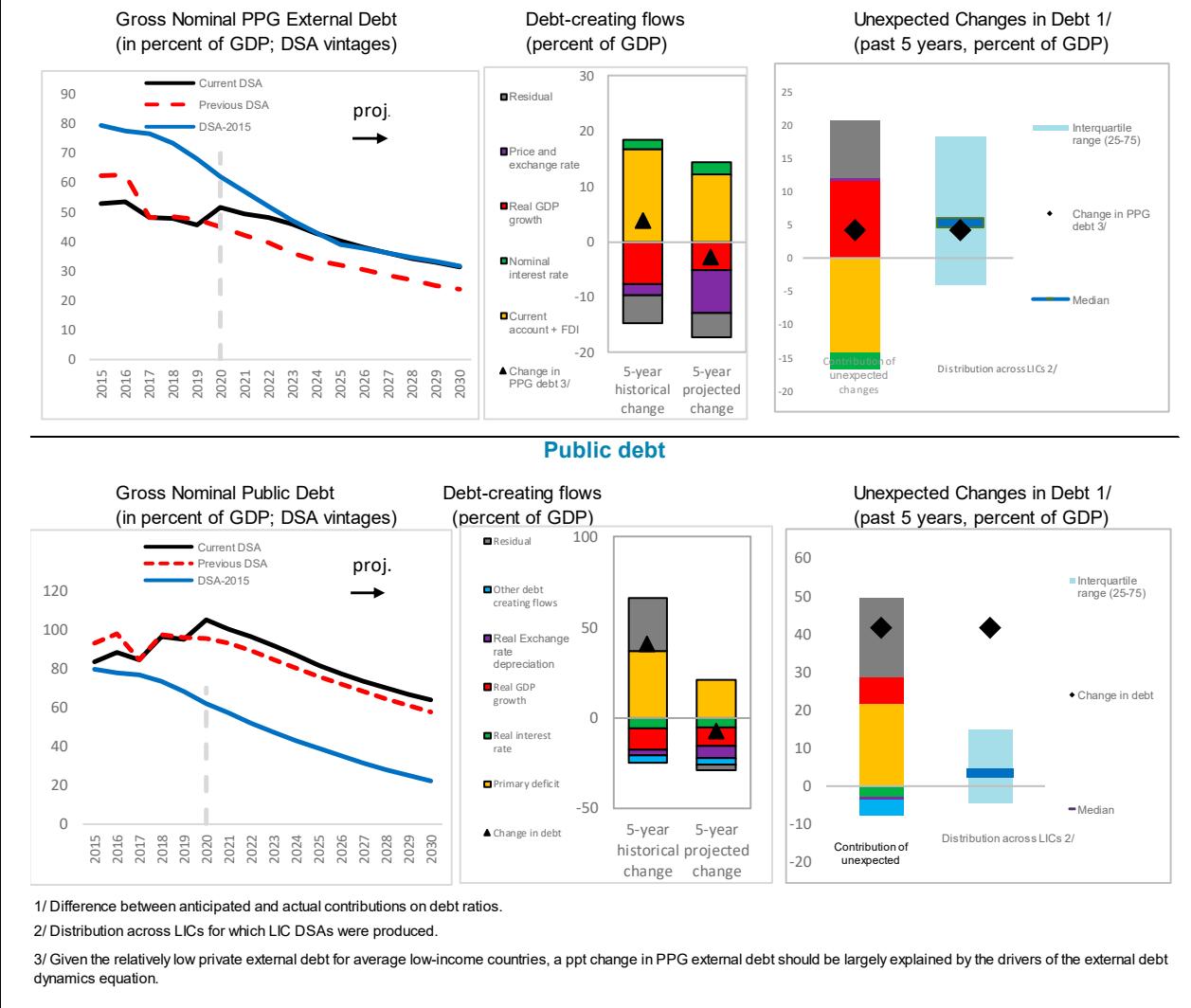
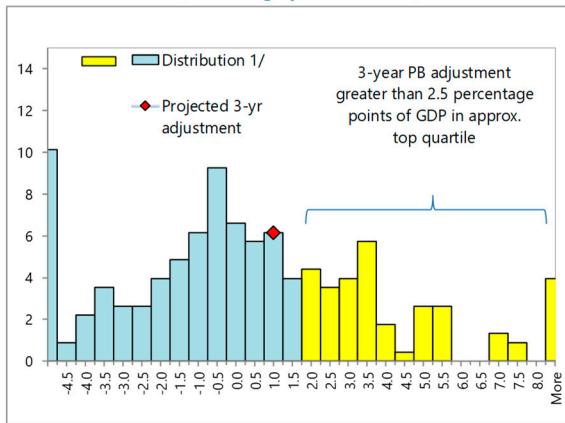
Figure 3. São Tomé and Príncipe: Drivers of Debt Dynamics – Baseline Scenario

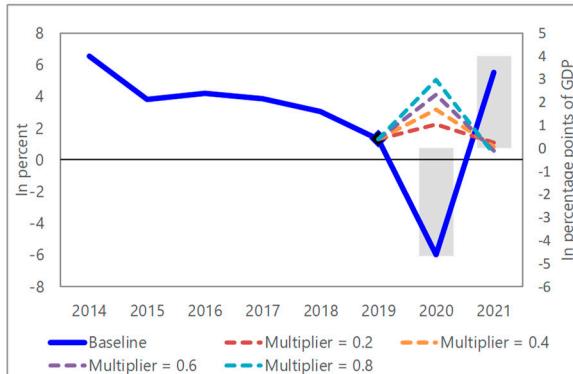
Figure 4. São Tomé and Príncipe: Realism Tools

**3-Year Adjustment in Primary Balance
(Percentage points of GDP)**



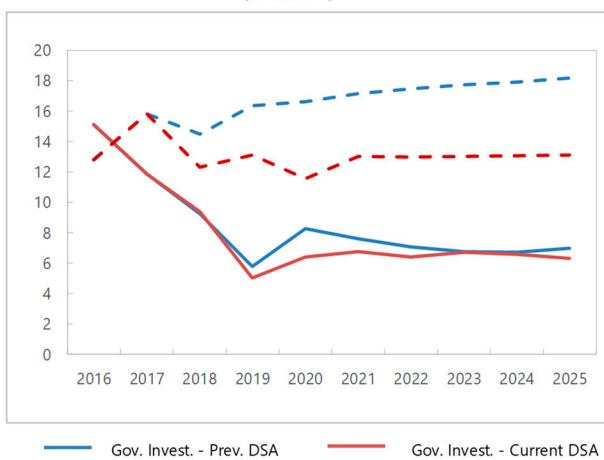
1/ Data cover Fund-supported programs for LICs (excluding emergency financing) approved since 1990. The size of 3-year adjustment from program inception is found on the horizontal axis; the percent of sample is found on the vertical axis.

Fiscal Adjustment and Possible Growth Paths 1/

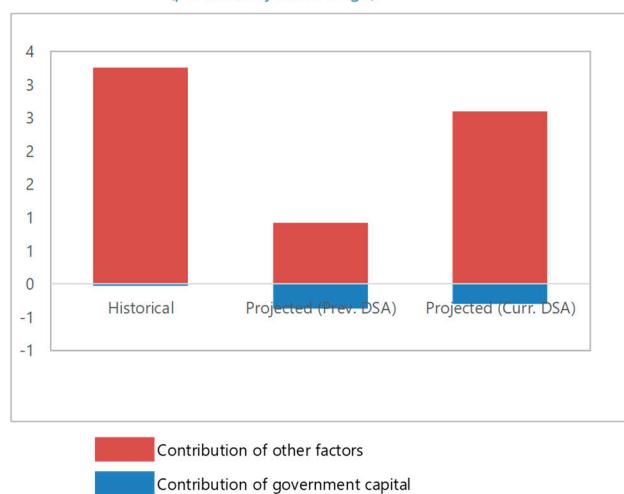


1/ Bars refer to annual projected fiscal adjustment (right-hand side scale) and lines show possible real GDP growth paths under different fiscal multipliers (left-hand side scale).

**Public and Private Investment Rates
(% of GDP)**



**Contribution to Real GDP growth
(percent, 5-year average)**



Contribution of other factors
Contribution of government capital

Table 1. São Tomé and Príncipe: External Debt Sustainability Framework, Baseline Scenario, 2018–2040
 (In percent of GDP, unless otherwise indicated)

| | Actual | | Projections | | | | | | Average 8/ Historical Projections | |
|--|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---|-------------|
| | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2030 | 2040 |
| External debt (nominal) 1/ of which: public and publicly guaranteed (PPG) | 47.7 | 45.7 | 51.7 | 49.4 | 48.2 | 45.8 | 42.8 | 40.2 | 31.4 | 27.0 |
| Change in external debt | -0.5 | -2.0 | 6.0 | -2.3 | -1.2 | -2.4 | -3.0 | -2.6 | -1.4 | 0.2 |
| Identified net debt-creating flows | -1.1 | 5.3 | 10.0 | 0.2 | 1.0 | -0.5 | -1.1 | -0.8 | -1.2 | 4.5 |
| Non-interest current account deficit | 8.4 | 11.9 | 11.3 | 8.6 | 8.3 | 7.1 | 6.5 | 6.8 | 7.0 | 5.0 |
| Deficit in balance of goods and services | 21.2 | 22.4 | 22.5 | 18.8 | 17.8 | 16.5 | 15.7 | 15.3 | 13.9 | 11.7 |
| Exports | 23.6 | 22.8 | 13.2 | 19.6 | 19.8 | 20.8 | 21.4 | 21.2 | 20.6 | 16.2 |
| Imports | 44.8 | 45.2 | 35.7 | 38.3 | 37.6 | 37.3 | 37.0 | 36.5 | 35.1 | 32.3 |
| Net current transfers (negative = inflow) or which: official | -12.6 | -10.3 | -11.1 | -10.2 | -9.6 | -9.6 | -9.2 | -8.6 | -7.0 | -6.7 |
| Other current account flows (negative = net inflow) | -0.2 | -6.6 | -7.5 | -6.1 | -6.1 | -5.6 | -5.1 | -3.1 | -1.1 | -0.4 |
| Net FDI (negative = inflow) | -5.1 | -6.4 | -4.6 | -6.3 | -6.2 | -6.2 | -6.3 | -6.6 | -6.8 | -5.3 |
| Endogenous debt dynamics 2/ | -4.4 | -0.1 | 3.3 | -2.1 | -1.2 | -1.5 | -1.4 | -1.0 | -0.7 | -6.4 |
| Contribution from nominal interest rate | 0.2 | 0.6 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Contribution from real GDP growth | -1.3 | -0.6 | 2.8 | -2.6 | -1.6 | -1.8 | -1.9 | -1.8 | -1.4 | -1.1 |
| Contribution from price and exchange rate changes | -3.3 | -0.1 | ... | ... | ... | ... | ... | ... | ... | ... |
| Residual 3/ | 0.5 | -7.3 | -4.0 | -2.5 | -2.2 | -1.9 | -1.6 | -1.5 | -0.6 | -1.4 |
| of which: exceptional financing | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sustainability indicators | | | | | | | | | | |
| PV of PPG external debt-to-GDP ratio | ... | 27.9 | 32.7 | 31.8 | 31.6 | 30.7 | 29.1 | 27.7 | 21.6 | 16.7 |
| PV of PPG external debt-to-exports ratio | ... | 122.1 | 247.3 | 162.5 | 159.5 | 147.6 | 136.1 | 130.6 | 101.7 | 81.3 |
| PPG debt service-to-exports ratio | 2.6 | 4.5 | 11.8 | 7.6 | 7.7 | 10.1 | 9.3 | 8.5 | 4.9 | 3.3 |
| PPG debt service-to-revenue ratio | 3.7 | 5.6 | 8.4 | 7.6 | 7.2 | 7.3 | 9.7 | 8.7 | 7.2 | 3.3 |
| Gross external financing need (Million of U.S. dollars) ^{4/} | 16.5 | 27.4 | 33.7 | 17.3 | 17.5 | 12.7 | 12.6 | 13.2 | 17.1 | 8.2 |
| Key macroeconomic assumptions | | | | | | | | | | |
| Real GDP growth (in percent) | 3.0 | 1.3 | -6.0 | 5.5 | 3.5 | 4.0 | 4.5 | 4.5 | 4.5 | 4.2 |
| GDP deflator in US dollar terms (change in percent) | 7.3 | 0.2 | 3.0 | 4.1 | 3.5 | 3.2 | 3.0 | 3.0 | 2.9 | 2.0 |
| Effective interest rate (percent) ^{4/} | 0.4 | 1.2 | 1.0 | 0.9 | 1.0 | 1.0 | 1.1 | 1.3 | 1.3 | 0.9 |
| Growth of exports of G\$S (US dollar terms, in percent) | 13.9 | -1.8 | -4.0 | 62.7 | 8.6 | 12.4 | 10.7 | 6.8 | 6.0 | 6.3 |
| Growth of imports of G\$S (US dollar terms, in percent) | -3.6 | 2.5 | -23.6 | 17.9 | 5.2 | 6.4 | 6.8 | 6.2 | 6.8 | 4.9 |
| Grant element of new public sector borrowing (in percent) | 16.8 | 18.5 | 36.6 | 35.6 | 35.6 | 34.5 | 34.5 | 34.5 | 34.5 | 34.9 |
| Government revenues (excluding grants, in percent of GDP) | 40.5 | 31.1 | 48.2 | 36.7 | 34.5 | 31.3 | 31.2 | 30.3 | 29.6 | 25.0 |
| Aid flows (in Million of US dollars) ^{5/} | ... | ... | 9.8 | 8.1 | 7.2 | 6.8 | 6.3 | 5.8 | 4.1 | 3.8 |
| Grant-equivalent financing (in percent of GDP) ^{6/} | ... | ... | 71.0 | 79.9 | 78.2 | 83.8 | 81.5 | 75.9 | 74.5 | 6.1 |
| Nominal GDP (Million of US dollars) | 416 | 422 | 409 | 448 | 480 | 516 | 555 | 597 | 858 | 1,639 |
| Nominal dollar GDP growth | 10.6 | 1.5 | -3.2 | 9.8 | 7.1 | 7.3 | 7.6 | 7.5 | 6.6 | 8.7 |
| Memorandum items: | | | | | | | | | | |
| PV of external debt 7/ | ... | 27.9 | 32.7 | 31.8 | 31.6 | 30.7 | 29.1 | 27.7 | 21.6 | 16.7 |
| In percent of exports | ... | 122.1 | 247.3 | 162.5 | 159.5 | 147.6 | 136.1 | 130.6 | 101.7 | 81.3 |
| Total external debt service-to-exports ratio | 2.6 | 4.5 | 11.8 | 7.6 | 7.7 | 10.1 | 9.3 | 8.5 | 4.9 | 3.1 |
| PV of PPG external debt (in Million of US dollars) | 117.6 | 133.4 | 142.6 | 152.0 | 158.2 | 161.3 | 165.4 | 185.0 | 274.4 | 60 |
| (PV-PV _{t-1})/GDP _{t-1} (in percent) | ... | 3.8 | 2.2 | 2.1 | 1.3 | 0.6 | 0.7 | 0.6 | 1.2 | 22.4 |
| Non-interest current account deficit that stabilizes debt ratio | 9.0 | 13.9 | 5.3 | 10.9 | 9.5 | 9.5 | 9.4 | 9.4 | 8.4 | 4.8 |

^{1/} Sources: Country authorities; and staff estimates and projections.
^{2/} Includes both public and private sector external debt.
^{3/} Derived as $(r - g + \epsilon)(1 + g + \epsilon)(1 + r + \epsilon)$, where r = nominal interest rate; g = real GDP growth rate; ϵ = nominal appreciation of the local currency, and δ = share of local currency-denominated external debt in total external debt.
^{4/} Includes exceptional financing (i.e., changes in arrears and debt relief), changes in gross foreign assets, and valuation adjustments. For projections also includes contribution from price and exchange rate changes.

^{4/} Current-year interest payments divided by previous period debt stock.
^{5/} Defined as grants, concessional loans, and debt relief.
^{6/} Grant-equivalent financing includes grants provided directly to the government and through new borrowing (difference between the face value and the PV of new debt).
^{7/} Assumes that PV of private sector debt is equivalent to its face value.

^{8/} Historical averages are generally derived over the past 10 years, subject to data availability, whereas projections averages are over the first year of projection and the next 10 years.

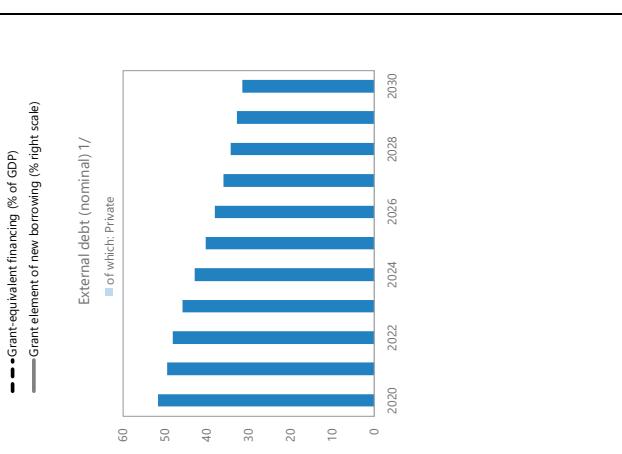


Table 2. São Tomé and Príncipe: Public Sector Debt Sustainability Framework, Baseline Scenario, 2018–2040
 (In percent of GDP, unless otherwise indicated)

| | Actual | | Projections | | | | | | Average 6/ | | |
|---|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|------------------------|
| | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2030 | 2040 | Historical Projections |
| Public sector debt 1/ of which: external debt | 96.2 | 94.8 | 104.9 | 100.2 | 96.4 | 91.6 | 86.9 | 81.6 | 63.7 | 59.9 | 64.7 |
| Change in public sector debt | 47.7 | 45.7 | 51.7 | 49.4 | 48.2 | 45.8 | 42.8 | 40.2 | 31.4 | 27.0 | 41.8 |
| Identified debt-creating flows | 6.0 | -0.5 | 10.9 | -3.9 | -3.2 | -4.3 | -4.7 | -5.4 | -3.0 | 9.6 | 3.1 |
| Primary deficit | 8.0 | 4.2 | 8.9 | 4.9 | 3.2 | 2.1 | 2.0 | 0.9 | 1.2 | 11.9 | 7.6 |
| Revenue and grants | 25.2 | 25.0 | 26.2 | 26.6 | 27.1 | 28.0 | 28.0 | 27.9 | 28.4 | 33.6 | 30.8 |
| of which: grants | 8.3 | 6.6 | 7.5 | 7.0 | 6.1 | 6.1 | 5.6 | 5.1 | 3.4 | 3.1 | 2.5 |
| Primary (noninterest) expenditure | 33.2 | 29.3 | 35.0 | 31.3 | 30.3 | 30.0 | 28.8 | 29.6 | 45.5 | 38.4 | 30.2 |
| Automatic debt dynamics | -1.7 | -3.9 | 2.8 | -8.1 | -5.7 | -5.8 | -5.7 | -5.4 | -4.0 | -2.6 | |
| Contribution from interest rate/growth differential of which: contribution from average real interest rate | -4.2 | -2.9 | 5.5 | -6.7 | -4.8 | -4.9 | -5.0 | -4.7 | -3.6 | -2.6 | |
| of which: contribution from real GDP growth | -1.7 | -1.7 | -0.5 | -1.3 | -1.4 | -1.2 | -1.0 | -1.0 | -0.7 | -0.4 | |
| Contribution from real exchange rate depreciation | 2.5 | -1.0 | ... | ... | ... | ... | ... | ... | ... | ... | |
| Denominator = 1 + g | 1.0 | 1.0 | 0.9 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| Other identified debt-creating flows | -0.3 | -0.8 | -0.8 | -0.7 | -0.5 | -0.6 | -0.6 | -0.5 | -0.3 | -0.1 | -0.5 |
| Privatization receipts (negative) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Recognition of contingent liabilities (e.g., bank recapitalization) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Debt relief (HIPC and other) | -0.3 | -0.8 | -0.8 | -0.7 | -0.6 | -0.6 | -0.6 | -0.5 | -0.3 | -0.1 | -0.5 |
| Other debt creating or reducing flow (please specify) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Residual | 5.9 | -0.8 | -3.5 | -2.1 | -1.6 | -1.4 | -1.1 | -1.1 | -0.3 | 0.4 | 3.2 |
| | | | | | | | | | | | -1.2 |
| Sustainability indicators | | | | | | | | | | | |
| PV of public debt-to-GDP ratio 2/ | ... 77.2 | 85.7 | 82.6 | 79.8 | 76.5 | 73.2 | 69.0 | 53.8 | 49.7 | | |
| PV of public debt-to-revenue and grants ratio | ... 308.4 | 327.5 | 309.9 | 294.3 | 273.7 | 261.0 | 247.6 | 189.3 | 147.7 | | |
| Debt service-to-revenue and grants ratio 3/ | | 88.2 | 72.1 | 61.7 | 51.0 | 48.6 | 46.2 | 46.2 | 39.3 | | |
| Gross financing need 4/ | 8.5 | 5.2 | 31.1 | 23.4 | 19.3 | 15.7 | 15.1 | 13.4 | 14.0 | 25.0 | |
| Key macroeconomic and fiscal assumptions | | | | | | | | | | | |
| Real GDP growth (in percent) | 3.0 | 1.3 | -6.0 | 5.5 | 3.5 | 4.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.2 |
| Average nominal interest rate on external debt (in percent) | 0.4 | 1.3 | 1.0 | 0.9 | 1.0 | 1.0 | 1.1 | 1.3 | 1.6 | 0.9 | 1.1 |
| Average real interest rate on domestic debt (in percent) | -2.5 | -5.4 | -2.8 | -2.9 | -2.9 | -2.8 | -2.7 | -2.7 | -2.8 | -2.0 | -2.8 |
| Real exchange rate depreciation (in percent, + indicates depreciation) | 3.8 | -1.4 | ... | ... | ... | ... | ... | ... | ... | -2.3 | ... |
| Inflation rate (GDP deflator, in percent) | 2.6 | 5.7 | 3.5 | 3.0 | 3.0 | 2.8 | 2.8 | 2.8 | 2.9 | 2.0 | 2.9 |
| Growth of real primary spending (deflated by GDP deflator, in percent) | -0.2 | -10.7 | 12.6 | -5.1 | -0.6 | 3.2 | 4.5 | 0.3 | 6.1 | 37.7 | -0.2 |
| Primary deficit that stabilizes the debt-to-GDP ratio 5/ | -3.9 | 5.5 | -1.2 | 9.5 | 7.0 | 6.9 | 6.7 | 6.3 | 4.2 | 2.3 | 3.7 |
| PV of contingent liabilities (not included in public sector debt) | 0.0 | 0.0 # | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 |
| Memorandum item | | | | | | | | | | | |
| Primary deficit with HIPC grants and without EMAE loss | 4.4 | -0.4 # | 3.9 | -0.5 | -1.0 | -0.9 | 0.1 | -0.8 | 0.9 | 11.8 | 5.6 |
| EMAЕ loss | 3.3 | 3.8 | 4.2 | 4.7 | 3.6 | 2.4 | 1.3 | 1.2 | 0.0 | 0.0 | 0.4 |

Sources: Country authorities; and staff estimates and projections.

1/Coverage of debt: The central government plus social security and extra budgetary funds, central bank, government-guaranteed debt. Definition of external debt is residency-based.

2/The underlying PV of external debt-to-GDP ratio under the public DSA differs from the external DSA with the size of differences depending on exchange rates projections.

3/Debt service is defined as the sum of interest and amortization of medium and long-term, and short-term debt.

4/Gross financing need is defined as the primary deficit plus debt service plus the stock of short-term debt at the end of the last period and other debt creating/reducing flows.

5/Defined as a primary deficit minus a change in the public debt-to-GDP ratio ((-); a primary surplus), which would stabilize the debt ratio only in the year in question.

6/Historical averages are generally derived over the past 10 years, subject to data availability, whereas projections averages are over the first year of projection and the next 10 years.

Table 3. São Tomé and Príncipe: Sensitivity Analysis for Key Indicators of Public and Publicly Guaranteed External Debt, 2020–2030

| | Projections 1/ | | | | | | | | | | |
|--|----------------|------|------|------|------|------|------|------|------|------|------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
| PV of debt-to-GDP ratio | | | | | | | | | | | |
| Baseline | 33 | 32 | 32 | 31 | 29 | 28 | 26 | 25 | 24 | 23 | 22 |
| A. Alternative Scenarios | | | | | | | | | | | |
| A1. Key variables at their historical averages in 2020–2030 2/ | 33 | 35 | 37 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 |
| B. Bound Tests | | | | | | | | | | | |
| B1. Real GDP growth | 33 | 33 | 34 | 33 | 31 | 29 | 28 | 26 | 25 | 24 | 23 |
| B2. Primary balance | 33 | 36 | 42 | 40 | 38 | 37 | 35 | 33 | 32 | 31 | 29 |
| B3. Exports | 33 | 37 | 44 | 42 | 40 | 39 | 37 | 35 | 34 | 32 | 31 |
| B4. Other flows 3/ | 33 | 40 | 47 | 45 | 43 | 42 | 40 | 38 | 36 | 35 | 33 |
| B5. One-time 30 percent nominal depreciation | 33 | 40 | 35 | 34 | 32 | 30 | 29 | 27 | 26 | 25 | 23 |
| B6. Combination of B1–B5 | 33 | 44 | 46 | 45 | 43 | 41 | 39 | 37 | 36 | 34 | 33 |
| C. Tailored Tests | | | | | | | | | | | |
| C1. Combined contingent liabilities | 33 | 75 | 74 | 72 | 69 | 66 | 63 | 61 | 59 | 56 | 54 |
| C2. Natural disaster | 33 | 39 | 39 | 38 | 36 | 35 | 33 | 32 | 31 | 30 | 29 |
| C3. Commodity price | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| C4. Market Financing | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Threshold | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| PV of debt-to-exports ratio | | | | | | | | | | | |
| Baseline | 247 | 163 | 160 | 148 | 136 | 131 | 124 | 118 | 111 | 105 | 102 |
| A. Alternative Scenarios | | | | | | | | | | | |
| A1. Key variables at their historical averages in 2020–2030 2/ | 247 | 179 | 189 | 191 | 196 | 208 | 218 | 227 | 235 | 242 | 255 |
| B. Bound Tests | | | | | | | | | | | |
| B1. Real GDP growth | 247 | 163 | 160 | 148 | 136 | 131 | 124 | 118 | 111 | 105 | 102 |
| B2. Primary balance | 247 | 185 | 210 | 194 | 180 | 173 | 166 | 158 | 150 | 142 | 138 |
| B3. Exports | 247 | 329 | 437 | 405 | 375 | 362 | 346 | 330 | 313 | 297 | 289 |
| B4. Other flows 3/ | 247 | 202 | 236 | 219 | 203 | 196 | 188 | 179 | 170 | 162 | 157 |
| B5. One-time 30 percent nominal depreciation | 247 | 163 | 141 | 130 | 120 | 115 | 109 | 103 | 97 | 91 | 88 |
| B6. Combination of B1–B5 | 247 | 316 | 215 | 309 | 287 | 276 | 264 | 252 | 239 | 227 | 221 |
| C. Tailored Tests | | | | | | | | | | | |
| C1. Combined contingent liabilities | 247 | 385 | 373 | 345 | 322 | 312 | 300 | 288 | 275 | 262 | 256 |
| C2. Natural disaster | 247 | 200 | 197 | 183 | 171 | 165 | 159 | 152 | 146 | 139 | 136 |
| C3. Commodity price | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| C4. Market Financing | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Threshold | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 |
| Debt service-to-exports ratio | | | | | | | | | | | |
| Baseline | 12 | 8 | 8 | 8 | 10 | 9 | 10 | 10 | 9 | 9 | 9 |
| A. Alternative Scenarios | | | | | | | | | | | |
| A1. Key variables at their historical averages in 2020–2030 2/ | 12 | 8 | 8 | 8 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| B. Bound Tests | | | | | | | | | | | |
| B1. Real GDP growth | 12 | 8 | 8 | 8 | 10 | 9 | 10 | 10 | 9 | 9 | 9 |
| B2. Primary balance | 12 | 8 | 8 | 9 | 11 | 10 | 11 | 11 | 10 | 9 | 9 |
| B3. Exports | 12 | 13 | 17 | 18 | 23 | 21 | 22 | 21 | 21 | 19 | 19 |
| B4. Other flows 3/ | 12 | 8 | 9 | 10 | 12 | 11 | 11 | 11 | 11 | 10 | 10 |
| B5. One-time 30 percent nominal depreciation | 12 | 8 | 8 | 7 | 10 | 9 | 10 | 9 | 9 | 8 | 8 |
| B6. Combination of B1–B5 | 12 | 12 | 14 | 14 | 18 | 16 | 17 | 17 | 16 | 15 | 15 |
| C. Tailored Tests | | | | | | | | | | | |
| C1. Combined contingent liabilities | 12 | 8 | 13 | 13 | 15 | 14 | 14 | 14 | 13 | 12 | 12 |
| C2. Natural disaster | 12 | 8 | 9 | 9 | 11 | 10 | 11 | 11 | 10 | 10 | 9 |
| C3. Commodity price | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| C4. Market Financing | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Threshold | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Debt service-to-revenue ratio | | | | | | | | | | | |
| Baseline | 8 | 8 | 7 | 7 | 10 | 9 | 9 | 9 | 8 | 8 | 7 |
| A. Alternative Scenarios | | | | | | | | | | | |
| A1. Key variables at their historical averages in 2020–2030 2/ | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| B. Bound Tests | | | | | | | | | | | |
| B1. Real GDP growth | 8 | 8 | 8 | 8 | 10 | 9 | 10 | 9 | 9 | 8 | 8 |
| B2. Primary balance | 8 | 8 | 8 | 8 | 11 | 10 | 10 | 9 | 9 | 8 | 8 |
| B3. Exports | 8 | 8 | 8 | 9 | 11 | 10 | 10 | 10 | 9 | 9 | 8 |
| B4. Other flows 3/ | 8 | 8 | 8 | 9 | 11 | 10 | 10 | 10 | 9 | 9 | 8 |
| B5. One-time 30 percent nominal depreciation | 8 | 10 | 9 | 9 | 12 | 10 | 11 | 10 | 10 | 9 | 9 |
| B6. Combination of B1–B5 | 8 | 8 | 9 | 9 | 12 | 11 | 11 | 10 | 10 | 9 | 9 |
| C. Tailored Tests | | | | | | | | | | | |
| C1. Combined contingent liabilities | 8 | 8 | 12 | 12 | 14 | 13 | 13 | 12 | 11 | 11 | 10 |
| C2. Natural disaster | 8 | 8 | 8 | 8 | 10 | 9 | 10 | 9 | 9 | 8 | 8 |
| C3. Commodity price | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| C4. Market Financing | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Threshold | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |

Sources: Country authorities; and staff estimates and projections.

1/ A bold value indicates a breach of the threshold.

2/ Variables include real GDP growth, GDP deflator (in U.S. dollar terms), non-interest current account in percent of GDP, and non-debt creating flows.

3/ Includes official and private transfers and FDI.

Table 4. São Tomé and Príncipe: Sensitivity Analysis for Key Indicators of Public Debt, 2020–2030

| | Projections 1/ | | | | | | | | | | |
|--|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
| PV of Debt-to-GDP Ratio | | | | | | | | | | | |
| Baseline | 86 | 83 | 80 | 77 | 73 | 69 | 65 | 62 | 59 | 56 | 54 |
| A. Alternative Scenarios | | | | | | | | | | | |
| A1. Key variables at their historical averages in 2020–2030 2/ | 86 | 82 | 79 | 76 | 73 | 71 | 70 | 69 | 68 | 67 | 67 |
| B. Bound Tests | | | | | | | | | | | |
| B1. Real GDP growth | 86 | 87 | 86 | 84 | 81 | 77 | 74 | 71 | 69 | 66 | 64 |
| B2. Primary balance | 86 | 89 | 93 | 88 | 83 | 78 | 74 | 70 | 67 | 63 | 60 |
| B3. Exports | 86 | 88 | 91 | 88 | 84 | 80 | 76 | 72 | 69 | 66 | 63 |
| B4. Other flows 3/ | 86 | 90 | 95 | 91 | 87 | 83 | 79 | 75 | 72 | 69 | 66 |
| B5. One-time 30 percent nominal depreciation | 86 | 87 | 82 | 78 | 73 | 67 | 62 | 57 | 53 | 48 | 44 |
| B6. Combination of B1–B5 | 86 | 86 | 85 | 76 | 72 | 67 | 63 | 60 | 57 | 54 | 51 |
| C. Tailored Tests | | | | | | | | | | | |
| C1. Combined contingent liabilities | 86 | 95 | 91 | 86 | 82 | 77 | 73 | 69 | 66 | 62 | 59 |
| C2. Natural disaster | 86 | 93 | 89 | 85 | 81 | 77 | 73 | 69 | 66 | 63 | 60 |
| C3. Commodity price | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| C4. Market Financing | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Public debt benchmark | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| PV of Debt-to-Revenue Ratio | | | | | | | | | | | |
| Baseline | 328 | 310 | 294 | 274 | 261 | 248 | 235 | 224 | 212 | 201 | 189 |
| A. Alternative Scenarios | | | | | | | | | | | |
| A1. Key variables at their historical averages in 2020–2030 2/ | 328 | 310 | 295 | 278 | 269 | 265 | 260 | 256 | 252 | 249 | 244 |
| B. Bound Tests | | | | | | | | | | | |
| B1. Real GDP growth | 328 | 323 | 314 | 295 | 285 | 273 | 263 | 253 | 243 | 234 | 224 |
| B2. Primary balance | 328 | 333 | 342 | 315 | 298 | 281 | 266 | 252 | 238 | 226 | 212 |
| B3. Exports | 328 | 330 | 337 | 314 | 300 | 286 | 272 | 259 | 246 | 234 | 221 |
| B4. Other flows 3/ | 328 | 339 | 351 | 327 | 312 | 297 | 283 | 270 | 257 | 245 | 231 |
| B5. One-time 30 percent nominal depreciation | 328 | 334 | 309 | 283 | 264 | 245 | 226 | 208 | 191 | 174 | 158 |
| B6. Combination of B1–B5 | 328 | 323 | 313 | 275 | 258 | 241 | 227 | 215 | 203 | 191 | 179 |
| C. Tailored Tests | | | | | | | | | | | |
| C1. Combined contingent liabilities | 328 | 357 | 334 | 308 | 292 | 276 | 261 | 248 | 234 | 221 | 208 |
| C2. Natural disaster | 328 | 347 | 327 | 303 | 289 | 274 | 260 | 247 | 235 | 223 | 210 |
| C3. Commodity price | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| C4. Market Financing | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Debt Service-to-Revenue Ratio | | | | | | | | | | | |
| Baseline | 88 | 72 | 62 | 51 | 49 | 47 | 46 | 46 | 47 | 47 | 46 |
| A. Alternative Scenarios | | | | | | | | | | | |
| A1. Key variables at their historical averages in 2020–2030 2/ | 88 | 71 | 58 | 47 | 44 | 41 | 42 | 44 | 45 | 45 | 45 |
| B. Bound Tests | | | | | | | | | | | |
| B1. Real GDP growth | 88 | 75 | 66 | 57 | 55 | 54 | 54 | 54 | 55 | 56 | 55 |
| B2. Primary balance | 88 | 72 | 75 | 75 | 62 | 54 | 51 | 49 | 49 | 49 | 48 |
| B3. Exports | 88 | 72 | 62 | 52 | 50 | 48 | 47 | 47 | 47 | 48 | 47 |
| B4. Other flows 3/ | 88 | 72 | 62 | 52 | 50 | 48 | 47 | 47 | 48 | 48 | 47 |
| B5. One-time 30 percent nominal depreciation | 88 | 69 | 60 | 48 | 48 | 46 | 46 | 45 | 46 | 46 | 45 |
| B6. Combination of B1–B5 | 88 | 71 | 61 | 57 | 51 | 46 | 45 | 45 | 46 | 46 | 45 |
| C. Tailored Tests | | | | | | | | | | | |
| C1. Combined contingent liabilities | 88 | 72 | 89 | 65 | 56 | 51 | 49 | 48 | 48 | 48 | 47 |
| C2. Natural disaster | 88 | 73 | 82 | 63 | 56 | 52 | 50 | 49 | 50 | 50 | 49 |
| C3. Commodity price | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| C4. Market Financing | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |

Sources: Country authorities; and staff estimates and projections.

1/ A bold value indicates a breach of the benchmark.

2/ Variables include real GDP growth, GDP deflator and primary deficit in percent of GDP.

3/ Includes official and private transfers and FDI.