

BOSNA I HERCEGOVINA
MINISTARSTVO FINANCIJA/
FINANSIJA I TREZORA



БОСНА И ХЕРЦЕГОВИНА
МИНИСТАРСТВО ФИНАНСИЈА
И ТРЕЗОРА

BOSNIA AND HERZEGOVINA
MINISTRY OF FINANCE
AND TREASURY

Bosnia and Herzegovina Public Debt Sustainability Analysis 2019-2023

Sarajevo, March 2020

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Introduction

Bosnia and Herzegovina Public Debt Sustainability Analysis (BIH DSA) is based on the methodology developed by the International Monetary Fund (IMF) for countries with market access (MAC DSA Methodology)¹.

The aim of BIH DSA is to assess the current state of BiH public indebtedness and medium term public indebtedness developments, as well as to define basic risks which might influence public debt sustainability.

It is important to note that the approach as such does not define the threshold after which public debt becomes unsustainable. Rather, it provides a series of indicators, information and implications of defined stress tests on the basis of which it is determined whether the current situation and estimated public debt developments are sustainable and under which conditions.

¹ <http://www.imf.org/external/pubs/ft/dsa/mac.htm>

Methodology clarifications

Quality of inputs, both historic and macro financial projections (baseline scenario) are crucial for DSA since a non-realistic macro framework may result in a “distorted image” in defining the results in the analysis.

The analysis implies assessment of key macro-economic variables and public debt developments, as well as testing vulnerability of projected public debt developments against different macro financial shocks in accordance with MAC DSA.

In accordance with MAC DSA, analysis is based on a formal and standardised tool (MAC DSA Template). MAC DSA Template was developed in order to facilitate preparations for public debt analysis. It is based on risks and thus implies that the same level of analysis is not required for all countries. Likewise, there is a distinction between two types of countries: developed countries (NE) and developing countries (TN)².

DSA and debt risk assessment imply observation of debt in terms of certain indicators. Those used in the analysis are debt burden indicators and debt profile indicators. Since MAC DSA Methodology distinguishes two types of countries, threshold values of indicators are different for TN and NE countries. Since BiH is classified as a TN country, DSA BiH uses debt burden and debt profile indicators for TN countries (Table 1).

Table 1 BiH 2018 debt burden and debt profile indicators

| | Indicators | BiH (2018) |
|--|------------|------------|
| Debt burden indicators | | |
| Public debt (% of GDP) | 60 | 32.7 |
| Gross public sector financing needs (% of GDP) ³ | 15 | 2.8 |
| Debt profile indicators | | |
| Bond yield spreads (basic points) ⁴ | 800 | 523.1 |
| Foreign financing needs (% of GDP) ⁵ | 20 | 8.3 |
| Public debt held by non-residents (% share in total) | 60 | 73.9 |
| Public debt in foreign currency (% share in total) | 80 | 73.9 |
| Changes in short term public debt (% of total debt) ⁶ | 1.5 | -1.3 |

The stated indicators (measures, reference marks) for public debt-GDP ratio and gross public debt financing needs-GDP ratio include two important concepts related to debt difficulties, i.e. solvency and liquidity. As for debt profile indicators, experience shows that, as a rule, debt difficulties events were preceded by increase in the share of short term debt and debt denominated in foreign currency in total debt and increase in foreign financing needs, which increase pressure on existing foreign currency reserves, while the high share of debt held by non-residents increases vulnerability in terms of recovery and interest rate risks and thus justify their observation.

² Countries are designated as NE or TN on the basis of their classification in the World Economic Outlook.

<https://www.imf.org/external/pubs/ft/weo/2019/02/weodata/weoselgr.aspx>

³ Including primary balance, public debt interest and principal payments and other factors such as capital increase in banks, privatisation proceeds, deposit withdrawal, changes in matured outstanding obligations and debt acquaintance.

⁴ As of 31 December 2018, Republika Srpska (RS) has a bond issued in the international financial market (bonds issued under the London Club debt are included in the analysis as credit borrowing from the London Club).

⁵ Defined as current account balance plus repayment of total short term foreign debt under remaining maturity.

⁶ Annual change in short term public debt (under original maturity) as a percentage of total public debt.

DSA BiH assumptions

As inputs, DSA BiH uses historical data of the Central Bank of BiH (CB BiH), Agency for Statistics of BiH, Ministry of Finance and Treasury of BiH (MFT BiH) and Entity Ministries of Finance and Finance Directorate of Brčko District (FD BD), as well as projections based on macro-economic indicators projections of the Directorate for Economic Planning of BiH (DEP BiH) from September 2019, central government fiscal projections in the Global Framework of Fiscal Balance and Policies in BiH 2020-2022 (GFFBP BiH) 2020-2022, foreign debt interest rates development projections in the Medium Term Debt Management Strategy of BiH and MFT BiH data on BiH domestic and foreign debt.

DSA BiH includes public debt and domestic debt of Entities and BD BiH and BiH foreign debt which, in turn, includes foreign state debt⁷, foreign Entities' and BD BiH debt⁸ and local self-government units' foreign debt⁹.

The projected foreign public debt state 2019-2023 is based on the amount of withdrawn credit funds plus estimated withdrawals under projects in implementation and projects in the procedure of conclusion¹⁰ and minus the estimated amount of BiH foreign public debt servicing.

DSA BiH assumes the following:

- BiH credit rating will not be lowered in the medium term,
- There will be no significant increases of referent interest rates and foreign exchange rates,
- CB BiH will maintain monetary stability in accordance with the currency board arrangement, pursuant to provisions of the Law on Central Bank of Bosnia and Herzegovina,
- There will be no significant delays in implementation of projects financed from or planned to be finance from external sources, all recorded in MFT BiH.

Accordingly, DSA BiH is based on assumptions shown in Table 2, representing the baseline scenario in the analysis.

Main risks related to the 2019-2023 baseline scenario estimates are as follows:

- Actualisation of September 2019 DEP BiH assumptions related to real GDP growth and fiscal projections in the GFFBP BiH 2020-2022, defining the financing needs and directly influencing debt level decrease/increase,
- Actualisation of assumptions related to floating interest rates values and foreign exchange values,
- Actualisation of assumptions on the dynamics of withdrawal of funds under foreign credits under implementation and credits in the procedure of conclusion, and
- BiH credit rating lowering in the medium term.

⁷ Foreign state debt is state debt created pursuant to an international agreement with MFT BiH as borrower on behalf of BiH.

⁸ Foreign debt of Entities and BD BiH is debt of Entities and BD BiH created pursuant to an international agreement with an Entity Ministry of Finance as borrower on behalf of the Entity/BD BiH Finance Directorate as borrower on behalf of BD BiH.

⁹ Foreign debt of local self-government units is debt created pursuant to an international agreement concluded directly between a local self-government unit and a creditor which is serviced directly by the local self-government unit.

¹⁰ Projects in the procedure of conclusion are projects for which there is an initiative to negotiate, projects for which negotiations are ongoing with creditors, projects in the procedure of approval by creditors and projects which are concluded and are in the procedure of ratification, all recorded in MFT BiH. This includes projects in the area of road, railway, water and communal infrastructure, energy, health care, agriculture, banking, education, etc.

Applied scenarios and stress tests

The baseline scenario represents medium term macro-economic and fiscal projection the actualisation of which depends on numerous risks. Shock implications and scenarios are observed in order to estimate their influence.

In this regard, in order to analyse vulnerability of the baseline scenario to defined shocks and changes and determine main risks related to sustainability of debt, DSA BiH uses two alternative scenarios and six stress tests.

- Alternative scenarios applied are two standardised alternative scenarios, i.e. a historical scenario and a constant primary balance scenario, the results of which are shown in Table 3. Stated scenarios are described below:
 - **Historical scenario**-real GDP growth, primary balance and real interest rate set on historical averages throughout the projection period, while other variables are the same as in the baseline scenario.
 - **Constant primary balance scenario**-primary balance-GDP ratio throughout the projection period is set at the value of the first year projection, while other variables are the same as in the baseline scenario.
- Stress tests used in DSA BiH relate to decrease of the real GDP growth, increase of the primary deficit relative to GDP, interest rate growth, depreciation of domestic currency, combination of stated shocks and to shocks of potential obligations of the financial sector (Table 4). Detailed clarifications of the stated stress tests is shown below:
 - **Primary balance**-primary balance-GDP ratio is equivalent to 50 per cent of planned cumulative adjustment, i.e. divergence of the primary balance in comparison with the historical average. Interaction thus created is such that it will lead to significant increase of the interest rate by 25 basis points per increase in the primary deficit by 1 per cent of GDP.
 - **Real GDP growth**-real GDP growth is decreased by one standard deviation over two consecutive years of projection (historical average minus one standard deviation). Real growth decrease results in lower inflation (0.25 percentage point per GDP increase decrease by 1 percentage point). Revenues-GDP ratio remains the same as in the baseline scenario, but the ratio of primary expenditures and GDP increases since the level of expenditure results in primary balance decrease. Primary balance decrease results in interest rate increase by 25 basis points.
 - **Interest rate**-nominal interest rate increases over the projected period, excluding the first year of projection, for the difference between maximal real interest rate over the previous ten years and average realistic interest rate over the projection period.
 - **Exchange rate**-depreciation of domestic currency of 30 per cent in the projected period, excluding the first year of projection and effects of the exchange rate on inflation, with given elasticity of 0.25 per cent in the second year of the projection.

- **Combined macro-fiscal shock**-represents aggregation of individual shocks where avoidance of double counting of individual shocks affecting more than variable are taken into account. Combined shock includes the biggest impact of individual shocks on all appropriate variables (real GDP growth, primary balance, exchange rate and interest rate).
- Shocks of potential obligations of the financial sector-one-time increase of primary expenditures in the amount of 10 per cent of banking sector assets in the second year of the projection results in real GDP shock growth, i.e. real growth decreases by one standard deviation over two consecutive years. Revenues-GDP ratio remains the same as in the baseline scenario. Accordingly, the primary balance decreases which results in a higher interest rate, while decrease of the real growth results in a lower inflation.

MAC DSA Template shows flows which result in debt creation for each stated scenario. Results of the stated scenarios and stress tests enable assessment of public debt sustainability over a particular time period.

DSA BiH results

DSA results enable determination of highest risks to debt sustainability and qualitative estimates of debt sustainability, primarily depending on the quality of historical data and macro financial estimates.

- BiH debt can currently be assessed as sustainable over the medium term on the basis of the 2023 baseline scenario, with a 3.8 per cent real growth, 1.3 per cent inflation, 2.4 per cent primary balance of 2.4 per cent GDP and 2.4 per cent effective interest rate. However, one should keep in mind possible risks arising from debt level, gross financing needs and/or debt profile.
- Primary basic risks are represented by public debt held by non-residents and debt in foreign currencies, as well as foreign financing needs. Debt profile indicator for public debt held by non-residents exceeds the indicator, while foreign currency public debt and foreign financing needs do not exceed the indicators, but pose certain risks to debt sustainability. In 2018, 73.9 per cent of public debt was held by non-residents. The percentage is above the 60 per cent indicator. Foreign currency public debt share of 73.9 per cent of total public debt does not exceed the 80 per cent indicator; the stated result poses a high risk that could potentially affect public debt sustainability (the assumption is that the risk is moderate if it ranges between 20 and 60 per cent, and high above 60 per cent). However, considering the currency board arrangement of CB BiH, i.e. KM and EUR correlation and high share of debt in EUR, this risk is deemed moderate. Foreign financing needs in 2018 represent 8.3 per cent of GDP and represent a moderate risk which can affect debt sustainability (the assumption is that the risk is moderate if it ranges between 5 and 15 per cent, and high above 15 per cent).
- In addition to previously stated risks arising from the debt profile, DSA BiH also showed a market perception risk. The market perception risk is moderate at 523.1 basis points for the bond spread¹¹ and ranges between 200 and 600 basis points¹² (the assumption is that the risk is moderate if it ranges between 200 and 600 basis points, and high above 600 basis points).
- Debt burden indicators (public debt/GDP and public sector financing needs/GDP) are below defined indicators (measures, references) in comparison with both the baseline scenario and stress tests and do not represent risk to debt sustainability.
- In 2018, the public debt/GDP indicator was 32.7 per cent and it is not high as per international standards, but it has to be taken into account that this indicator increased significantly in comparison with 2008 when it was at the level of 28.3 per cent. In accordance with the baseline scenario, the stated indicators show a decreasing tendency, from 32.7 per cent in 2018 to 30.0 per cent in 2023. This is primarily the result of GDP

¹¹ Bonds spreads are defined as a spread above German bonds with similar maturity. The term "bonds spread" relates to a difference between interest rates of two bonds, i.e. deduction of yields of one bond from the other. Bonds spread reflects relative risks of bonds comparison. The wider the spread, the higher the risk.

¹² Basis points (BPS) relate to a common unit of measurement for interest rates and other percentages in finance. Relation between percentage changes and basis points may be summarised as follows: 1 per cent change=100 basis points or 0.01 per cent=1 basis point.

increase, since the public debt level increased by 15.4 per cent in the stated period. However, bearing in mind the real GDP growth variation coefficient, there is a certain risk to actualisation of this indicator, i.e. the risk from deterioration of the projected public debt/GDP.

- In accordance with the baseline scenario, the BPF/GDP indicator will decrease from 2.8 per cent in 2018 to 2.6 per cent in 2023. Decrease in the stated indicator is primarily the result of the increased GDP, since BPF increase by 17.1 per cent in 2023 in comparison with 2018.
- In comparison with the baseline scenario, public debt service in comparison with revenues will decrease from 13.4 per cent in 2018 to 12.7 per cent in 2023, primarily due to the higher revenues growth rate in comparison with debt service, since debt service is by 9.8 per cent higher in 2023 than in 2018. Comparison of the projected primary balance trajectory with the primary balance reflected in the past shows certain risks in its actualisation. In this regard, caution is required with the public debt repayment profile due to possible variations in actualisation of revenues and expenditures projections.

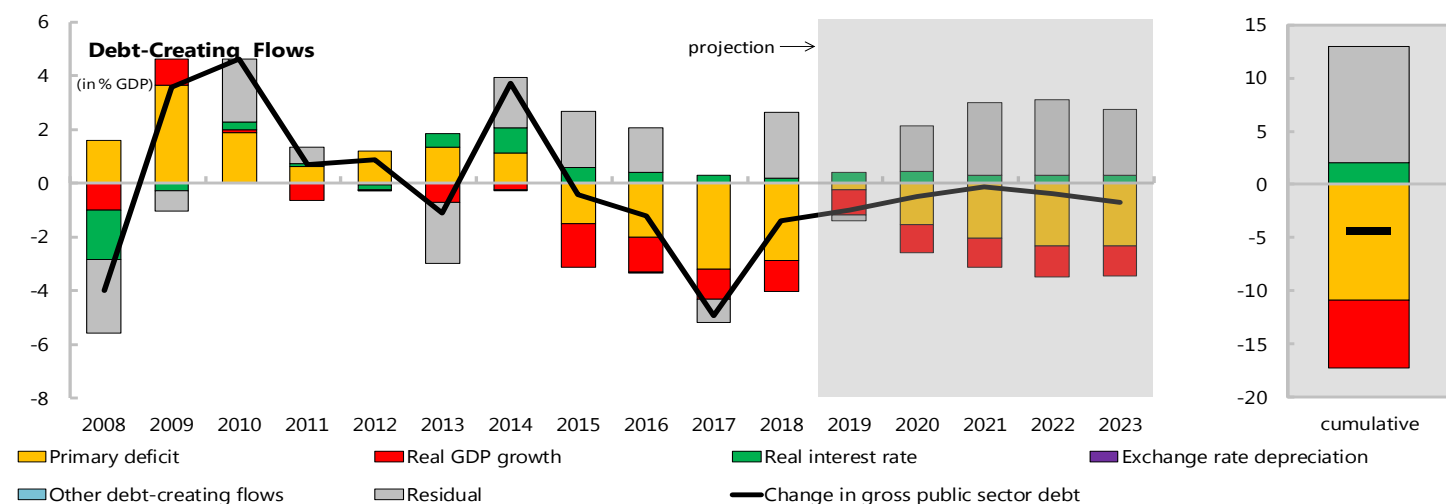
Table 2 B&H Public Sector Debt Sustainability Analysis (DSA) - Baseline Scenario
(in percent of GDP unless otherwise indicated)

Debt, Economic and Market Indicators^{1/}

| | Actual | | | Projections | | | | | As of september 06, 2019 | | |
|--|-------------------------|----------|----------|-------------|----------|----------|----------|---------------------|------------------------------------|--|--|
| | 2008-2016 ^{2/} | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 ^{10/} | | | |
| Nominal GDP (in million BAM) | 27.773,4 | 32.326,0 | 34.016,0 | 35.346,0 | 36.893,0 | 38.720,0 | 40.699,0 | 42.779,1 | Sovereign Spreads | | |
| Nominal gross public debt | 36,5 | 34,1 | 32,7 | 31,7 | 31,2 | 31,0 | 30,7 | 30,0 | Bond Spread (bp) ^{3/} 536 | | |
| Public gross financing needs | 4,2 | 3,3 | 2,8 | 4,5 | 3,1 | 1,8 | 1,6 | 2,6 | 5Y CDS (bp) n.a. | | |
| Public debt (in percent of potential GDP) | 36,6 | 34,0 | 32,9 | 31,6 | 31,1 | 31,0 | 30,6 | 30,0 | Ratings | | |
| Real GDP growth (in percent) | 1,3 | 3,0 | 3,6 | 3,0 | 3,5 | 3,6 | 3,8 | 3,8 | Moody's Foreign B3 Local B3 | | |
| Inflation (GDP deflator, in percent) | 1,9 | 1,1 | 1,6 | 0,9 | 0,8 | 1,3 | 1,3 | 1,3 | S&P's B+ B+ | | |
| Nominal GDP growth (in percent) | 3,2 | 4,1 | 5,2 | 3,9 | 4,4 | 5,0 | 5,1 | 5,1 | Fitch n.a. n.a. | | |
| Effective interest rate (in percent) ^{4/} | 1,9 | 1,8 | 2,2 | 2,2 | 2,3 | 2,3 | 2,3 | 2,4 | | | |

Contribution to Changes in Public Debt

| | Actual | | | Projections | | | | | cumulative | debt-stabilizing primary balance ^{9/} |
|---|-----------|------|------|-------------|------|------|------|------|------------|--|
| | 2008-2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | | |
| Change in gross public sector debt | 0,7 | -4,9 | -1,4 | -1,0 | -0,5 | -0,1 | -0,4 | -0,7 | -2,7 | |
| Identified debt-creating flows | 0,4 | -4,0 | -3,9 | -0,8 | -2,2 | -2,8 | -3,2 | -3,2 | -12,1 | |
| Primary deficit | 0,9 | -3,2 | -2,9 | -0,3 | -1,5 | -2,1 | -2,4 | -2,4 | -8,6 | |
| Primary (noninterest) revenue and grants | 41,4 | 41,7 | 42,3 | 42,2 | 41,1 | 39,9 | 38,8 | 38,8 | 201,0 | |
| Primary (noninterest) expenditure | 42,2 | 38,5 | 39,4 | 42,0 | 39,6 | 37,9 | 36,5 | 36,5 | 192,4 | |
| Automatic debt dynamics ^{5/} | -0,4 | -0,9 | -1,0 | -0,6 | -0,6 | -0,8 | -0,8 | -0,8 | -3,6 | |
| Interest rate/growth differential ^{6/} | -0,4 | -0,9 | -1,0 | -0,6 | -0,6 | -0,8 | -0,8 | -0,8 | -3,6 | |
| Of which: real interest rate | 0,1 | 0,3 | 0,2 | 0,4 | 0,4 | 0,3 | 0,3 | 0,3 | 1,7 | |
| Of which: real GDP growth | -0,5 | -1,1 | -1,2 | -0,9 | -1,1 | -1,1 | -1,1 | -1,1 | -5,3 | |
| Exchange rate depreciation ^{7/} | 0,0 | 0,0 | 0,0 | ... | ... | ... | ... | ... | ... | |
| Other identified debt-creating flows | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | |
| Please specify (1) (e.g., privatization r) | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | |
| Contingent liabilities | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | |
| Please specify (2) (e.g., other debt flo) | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | |
| Residual, including asset changes ^{8/} | 0,3 | -0,9 | 2,5 | -0,2 | 1,7 | 2,7 | 2,8 | 2,5 | 9,5 | |



Source: IMF staff.

1/ Public sector is defined as general government.

2/ Based on available data.

3/ Long-term bond spread over German bonds (bp).

4/ Defined as interest payments divided by debt stock (excluding guarantees) at the end of previous year.

5/ Derived as $[r - \pi(1+g) - g + ae(1+r)] / (1+g+\pi+g\pi)$ times previous period debt ratio, with r = effective nominal interest rate; π = growth rate of GDP deflator; g = real GDP growth rate; a = share of foreign-currency denominated debt; and e = nominal exchange rate depreciation

6/ The real interest rate contribution is derived from the numerator in footnote 5 as $r - \pi(1+g)$ and the real growth contribution as $-g$.

7/ The exchange rate contribution is derived from the numerator in footnote 5 as $ae(1+r)$.

8/ Includes asset changes and interest revenues (if any). For projections, includes exchange rate changes during the projection period.

9/ Assumes that key variables (real GDP growth, real interest rate, and other identified debt-creating flows) remain at the level of the last projection year.

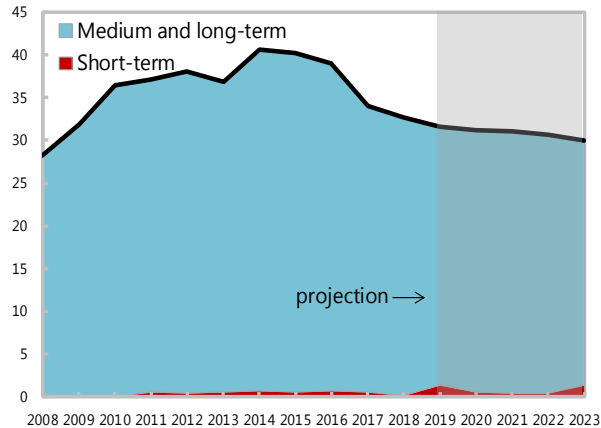
10/ Assessment made for analysis purposes, based on indicators movements from previous periods.

Table 3 B&H Public DSA - Composition of Public Debt and Alternative Scenarios

Composition of Public Debt

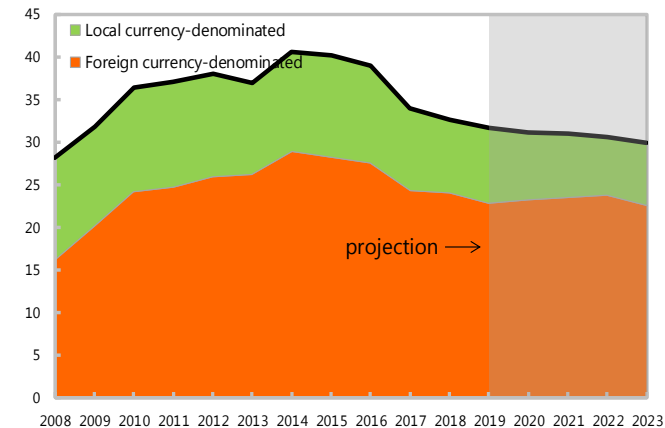
By Maturity

(in percent of GDP)



By Currency

(in percent of GDP)



Alternative Scenarios

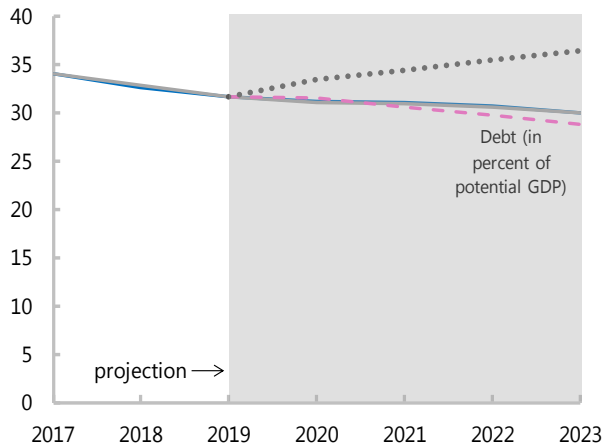
■ Baseline

..... Historical

- - - Constant Primary Balance

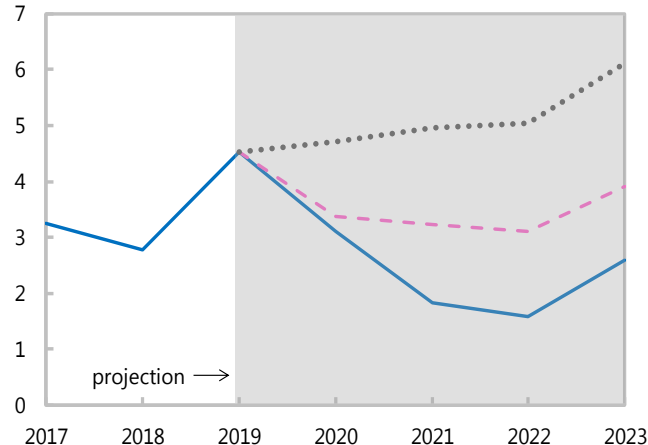
Gross Nominal Public Debt ^{1/}

(in percent of GDP)



Public Gross Financing Needs

(in percent of GDP)



Underlying Assumptions

(in percent)

Baseline Scenario

| | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------------------|------|------|------|------|------|
| Real GDP growth | 3,0 | 3,5 | 3,6 | 3,8 | 3,8 |
| Inflation | 0,9 | 0,8 | 1,3 | 1,3 | 1,3 |
| Primary Balance | 0,3 | 1,5 | 2,1 | 2,4 | 2,4 |
| Effective interest rate | 2,2 | 2,3 | 2,3 | 2,3 | 2,4 |

Historical Scenario

| | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------------------|------|------|------|------|------|
| Real GDP growth | 3,0 | 1,5 | 1,5 | 1,5 | 1,5 |
| Inflation | 0,9 | 0,8 | 1,3 | 1,3 | 1,3 |
| Primary Balance | 0,3 | 0,0 | 0,0 | 0,0 | 0,0 |
| Effective interest rate | 2,2 | 2,3 | 2,2 | 2,2 | 2,2 |

Constant Primary Balance Scenario

| | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------------------|------|------|------|------|------|
| Real GDP growth | 3,0 | 3,5 | 3,6 | 3,8 | 3,8 |
| Inflation | 0,9 | 0,8 | 1,3 | 1,3 | 1,3 |
| Primary Balance | 0,3 | 0,3 | 0,3 | 0,3 | 0,3 |
| Effective interest rate | 2,2 | 2,3 | 2,3 | 2,3 | 2,4 |

Table 4. B&H Public DSA - Stress Tests

Macro-Fiscal Stress Tests

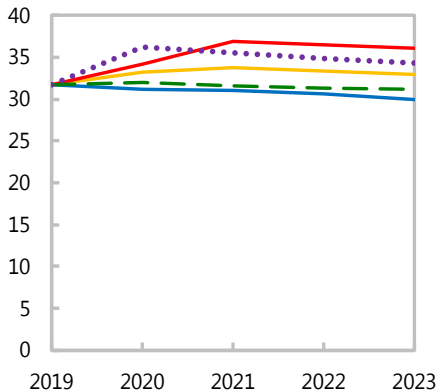
— Baseline
— Real GDP Growth Shock

— Primary Balance Shock
— Real Exchange Rate Shock

— Real Interest Rate Shock

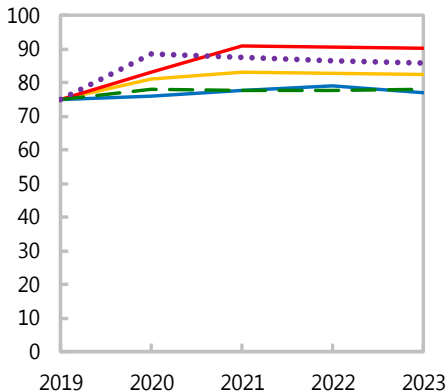
Gross Nominal Public Debt

(in percent of GDP)



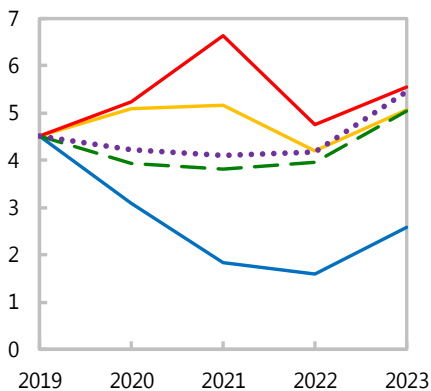
Gross Nominal Public Debt

(in percent of Revenue)



Public Gross Financing Needs

(in percent of GDP)



Additional Stress Tests

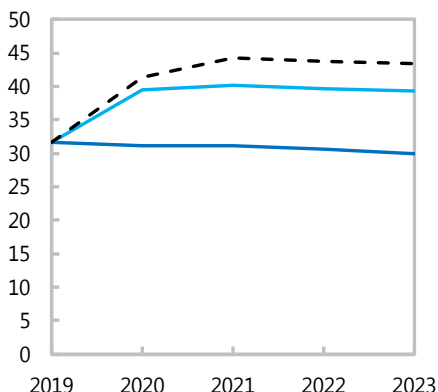
— Baseline

— Combined Macro-Fiscal Shock

— Contingent Liability Shock

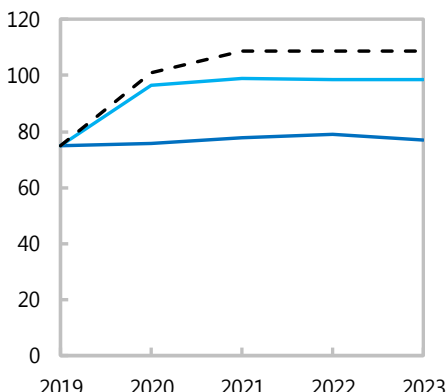
Gross Nominal Public Debt

(in percent of GDP)



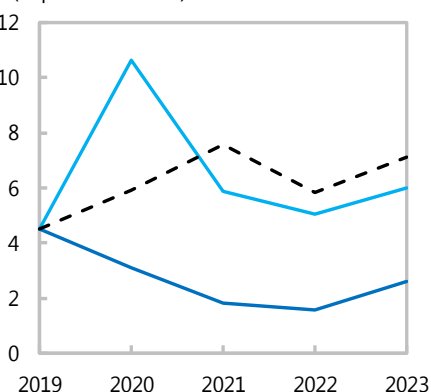
Gross Nominal Public Debt

(in percent of Revenue)



Public Gross Financing Needs

(in percent of GDP)



Underlying Assumptions

(in percent)

Primary Balance Shock

| | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------------------|------|------|------|------|------|
| Real GDP growth | 3,0 | 3,5 | 3,6 | 3,8 | 3,8 |
| Inflation | 0,9 | 0,8 | 1,3 | 1,3 | 1,3 |
| Primary balance | 0,3 | 0,4 | 0,9 | 2,4 | 2,4 |
| Effective interest rate | 2,2 | 2,3 | 2,3 | 2,4 | 2,4 |

Real Interest Rate Shock

| | | | | | |
|-------------------------|-----|-----|-----|-----|-----|
| Real GDP growth | 3,0 | 3,5 | 3,6 | 3,8 | 3,8 |
| Inflation | 0,9 | 0,8 | 1,3 | 1,3 | 1,3 |
| Primary balance | 0,3 | 1,5 | 2,1 | 2,4 | 2,4 |
| Effective interest rate | 2,2 | 2,3 | 2,6 | 2,8 | 3,1 |

Combined Shock

| | | | | | |
|-------------------------|-----|-----|------|-----|-----|
| Real GDP growth | 3,0 | 1,2 | 1,3 | 3,8 | 3,8 |
| Inflation | 0,9 | 0,3 | 0,7 | 1,3 | 1,3 |
| Primary balance | 0,3 | 0,4 | -0,1 | 2,4 | 2,4 |
| Effective interest rate | 2,2 | 2,7 | 2,5 | 2,8 | 3,1 |

Real GDP Growth Shock

| | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------------------|------|------|------|------|------|
| Real GDP growth | 3,0 | 1,2 | 1,3 | 3,8 | 3,8 |
| Inflation | 0,9 | 0,3 | 0,7 | 1,3 | 1,3 |
| Primary balance | 0,3 | 0,4 | -0,1 | 2,4 | 2,4 |
| Effective interest rate | 2,2 | 2,3 | 2,3 | 2,4 | 2,5 |

Real Exchange Rate Shock

| | | | | | |
|-------------------------|-----|-----|-----|-----|-----|
| Real GDP growth | 3,0 | 3,5 | 3,6 | 3,8 | 3,8 |
| Inflation | 0,9 | 8,5 | 1,3 | 1,3 | 1,3 |
| Primary balance | 0,3 | 1,5 | 2,1 | 2,4 | 2,4 |
| Effective interest rate | 2,2 | 2,7 | 2,2 | 2,2 | 2,3 |

Contingent Liability Shock

| | | | | | |
|-------------------------|-----|------|-----|-----|-----|
| Real GDP growth | 3,0 | 1,2 | 1,3 | 3,8 | 3,8 |
| Inflation | 0,9 | 0,3 | 0,7 | 1,3 | 1,3 |
| Primary balance | 0,3 | -4,9 | 2,1 | 2,4 | 2,4 |
| Effective interest rate | 2,2 | 2,6 | 2,7 | 2,6 | 2,6 |