INTERNATIONAL DEVELOPMENT ASSOCIATION

INTERNATIONAL MONETARY FUND

KYRGYZ REPUBLIC

Joint World Bank-IMF Debt Sustainability Analysis

July 2019

Prepared jointly by the staffs of the International Development Association (IDA) and the International Monetary Fund (IMF)

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Kyrgyz Republic: Joint Bank-Fund Debt Sustainability Analysis							
Risk of external debt distress:	Moderate						
Overall risk of debt distress	Moderate						
Granularity in the risk rating	Some space						
Application of judgment	No						

This joint World Bank/IMF Debt Sustainability Analysis (DSA) has been prepared in the context of the 2019 Article IV Consultation, for the first time based on the revised framework for low-income countries. Results indicate moderate risk of debt distress for both external and overall public debt. However, the debt outlook remains vulnerable, especially to a deceleration in real GDP and exports growth and the depreciation of the KGS. To address these vulnerabilities, the authorities need to remain cautious when contracting and guaranteeing new debt, maintain fiscal discipline, improve public investment management, and continue improving the business environment to maintain the export potential of the country after the main gold mine will close in 2026.

¹ See IMF, 2018, Guidance Note on the Bank-Fund Debt Sustainability Framework for Low-Income Countries,

PUBLIC DEBT COVERAGE

1. Public sector debt comprises state government debt (both central and local government), state guarantees, and the debt of the central bank towards the IMF (Text Table 1). Almost all the public sector debt is central government debt. Local governments have no external debt and negligible domestic debt vis-à-vis non-governmental entities. According to the 2019 budget, there is no outstanding state guarantee because the budget code has been preventing the state from guaranteeing debt of state-owned enterprises (SOEs) and other public entities since 2007, except for the cases stipulated by the obligations of the Kyrgyz Republic within its membership in international and inter-governmental organizations. SOEs have no external debt, while their domestic debt vis-à-vis non-governmental entities is limited to short term borrowing from commercial banks and is not significant, as most of their borrowing is from the State. The social security fund has no debt. Nevertheless, a contingent liability shock of 7 percent of GDP was applied, reflecting risks around the operation of SOEs (2 percent of GDP, which is about the structural cash shortfall of loss-making energy sector SOEs)² and the default value representing the average cost to the government during a financial crisis (5 percent of GDP, Text Table 2).

Subsectors of the public sector	
Central government	X
State and local government	X
Other elements in the general government	
o/w: Social security fund	
o/w: Extra budgetary funds (EBFs)	
Guarantees (to other entities in the public and private sector, including to SOEs)	X
Central bank (borrowed on behalf of the government)	X
Non-guaranteed SOE debt	

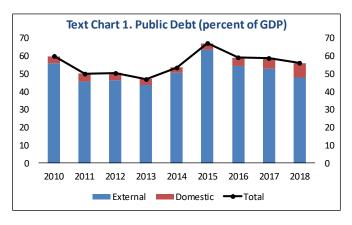
1 The country's coverage of public debt	The central, state, and loc	al governments, central b	ank, government-guaranteed debt
	Default	Used for the analysis	Reasons for deviations from the default settings
2 Other elements of the general government not captured in 1.	0 percent of GDP	0	
3 SoE's debt (guaranteed and not guaranteed by the government) 1/	2 percent of GDP	2	
4 PPP	35 percent of PPP stock	0	
5 Financial market (the default value of 5 percent of GDP is the minimum value)	5 percent of GDP	5	
Total (2+3+4+5) (in percent of GDP)		7.0	
The default shock of 2% of GDP will be triggered for countries, whose government-guaranteed de	ebt is not fully captured under th	e country's public debt d	efinition (1.). If it is already included in the government
ebt (1.) and risks associated with SoE's debt not guaranteed by the government is assessed to be no	egligible, a country team may re	duce this to 0%.	

² Kyrgyz Republic—Staff Report for 2019 Article IV Consultation, ¶35 (forthcoming).

BACKGROUND

2. Public debt decreased over the last three years, driven by external debt (Text Chart 1). Following a sharp increase between 2013-15 mostly due to the significant depreciation of the KGS vis-à-vis the U.S. dollar, public debt decreased from 67.1 percent of GDP in 2015 to 56.0

percent of GDP in 2018. This was the result of the decline in external debt by 16 percent of GDP thanks to the appreciation of the KGZ as well as the debt relief received from Russia. At the same time, domestic debt rose from 3.6 to 8.0 percent of GDP, thereby increasing its share from 5 to 14 percent in total debt. The domestic public debt is composed of treasury bills and bonds that are mostly held by commercial banks (50 percent) and the social security fund (30 percent).



UNDERLYING ASSUMPTIONS

3. The current DSA is built on revised macroeconomic assumptions (Text Table 3). Economic growth is projected to be slightly lower in the near term than in the last DSA. Following a substantial widening in 2018-19, the current account deficit is expected to narrow between 2020-22 on the back of a recovery of remittances and a slight increase in gold exports. Over the medium term, the current account deficit is projected to increase owing to the decline in gold production and exports starting in 2023. Over the long term, other exports are projected to materialize to partially replace the exports of the main gold mine that accounted for 37 percent of exports in 2018 and is projected to cease operations in 2026. The source of such exports could be new gold mines, other minerals, such as rare earths, or hydropower, for which only 10 percent of the potential has been exploited so far. A steady flow of foreign direct investment (FDI) prompted by sustained improvement in the business environment is projected to materialize to limit the gradual drop of the level of exports to about 5 percent of GDP over the projection horizon. After an unexpectedly tight fiscal stance in 2018, we project a moderate fiscal loosening in 2019 to close the output gap to be followed by strict adherence to the fiscal rule presently considered by parliament that caps debt at 70 percent of GDP and the budget deficit at 3 percent of GDP over the medium and long term. The budget deficit should be recorded in line with the IMF Government Finance Statistics Manual (GFSM), that is including on-lending to loss making state-owned enterprises as capital grants contributing to the deficit rather than as a financing item. The authorities have room to keep

³ The initial agreement between Russia and the Kyrgyz Republic signed in 2014 to write-off of a \$300 million debt (4.0 percent of GDP) in equal tranches over a 10-year period was revised to write off the outstanding \$240 million in 2018.

the deficit at such level while financing their development needs by reducing tax exemptions, better capturing imports, reducing transfers to energy sector SOEs and identifying other expenditure savings through progress in public investment and financial management.⁴ Beyond firm commitments in the near term, a limited amount of grants (current grants around 0.4% of GDP and capital grants around 1% of GDP) is projected to continue over the medium term. These grants are highly likely and their inclusion does not change the risk rating.

Text Table 3. Kyrgyz Republic: Selected Indicators, 2016-24										
	2016	2017	2018	2019	2020	2021	2022	2023	2024	
Real GDP growth (percent)										
Current DSA	4.3	4.7	3.5	3.8	3.4	3.8	4.6	3.4	3.4	
Previous DSA ¹	3.8	3.2	3.3	4.9	4.6	4.0	4.8	3.3	3.7	
Overall fiscal balance (percent of GDP)										
Current DSA ²	-6.4	-4.6	-1.3	-3.3	-3.0	-3.0	-3.0	-3.0	-3.0	
Previous DSA ^{1,3}	-6.9	-5.9	-4.0	-5.3	-3.2	-2.6	-2.4	-2.5	-2.5	
Current account balance (percent of GDP)										
Current DSA	-11.6	-6.2	-8.7	-9.6	-7.7	-7.1	-6.8	-8.4	-8.8	
Previous DSA ¹	-12.1	-10.0	-13.1	-12.2	-11.6	-11.1	-10.6	-10.1	-10.0	
PIP Disbursements (millions of US\$)										
Current DSA	311	323	131	278	263	316	340	358	377	
Previous DSA ¹	311	368	341	400	258	328	330	360	392	

Sources: Kyrgyz authorities and IMF staff estimates.

3/ Including total onlending to SOEs.

4. The realism tools suggest that the baseline scenario is credible. There are small differences between the past and projected drivers of external and public debt dynamics; however, unexpected changes in debt are close to the upper end of the interquartile range (Figure 3). The lower projected contribution of the primary deficit to changes in public debt is due to the improvement in the fiscal balance. This, however, is in line with the historical distribution of adjustments under Fund-supported programs in LICs (Figure 4). Moreover, while the planned adjustment reflects the change in the fiscal balance between 2017-20, the bulk of the improvement already took place in 2018.

5. The stable debt outlook reflects the broadly neutral fiscal stance in the medium term. Total public debt is expected to hover around 55 percent of GDP over the medium term as the impact of positive growth/interest differential is offset by the fiscal deficit (Table 2). As the financing need is expected to be increasingly covered through domestic debt issuance, the composition of total public debt is projected to shift from external towards domestic debt. Domestic debt is expected to double from 8 percent of GDP in 2018 to 16 percent of GDP in the

^{1/} IMF Country Report No. 18/53, Kyrgyz Republic—4th and 5th Reviews under the Extended Credit Facility.

^{2/} Including onlending to energy SOEs.

⁴ Kyrgyz Republic—Staff Report for 2019 Article IV Consultation, ¶¶28-30 (forthcoming).

long term and the increase is projected to be subscribed by commercial banks while leaving room for credit to the private sector, in sync with the gradual deepening of the financial sector.

COUNTRY CLASSIFICATION

6. The Kyrgyz Republic's debt-carrying capacity is assessed to be strong. The country's Composite Indicator (CI) index, ⁵ calculated based on the April 2019 WEO and the 2017 World Bank Country Policy and Institutional Assessment (CPIA) score, is 3.19, above the threshold of 3.05 for strong debt-carrying capacity (Text Table 4). This translates into the following external debt burden thresholds and public debt benchmark: 240 percent for the present value (PV) of external debt-to-exports ratio, 55 percent for the PV of external debt-to-GDP ratio, 21 percent for the external debt service-to-exports ratio, 23 percent for the external debt service-to-revenue ratio, and 70 percent for the PV of total public debt-to-GDP ratio.

	Thresho	lds	
Debt Carrying Capacity	Strong		
Final		Classification based on	Classification based on the
Final	April 2019 WE O	October 2018 WE O	two previous vintages
Strong	Strong	Strong	Strong
	3.19	3.19	3.24
PV of debt in % of			***
PV of debt in % of			
Exports GDP	140 30	180 40	240 55
Debt service in % of	30	40	55
	10	15	21
Exports	14	18	23
Exports Revenue	17		
•	14		
•		Weak	Medium Strong

EXTERNAL DSA

7. The debt outlook remains vulnerable to external and domestic shocks. Because of the write-off of Russian debt, external public and publicly guaranteed (PPG) debt declined to 48.0 percent of GDP in 2018 from 53.0 percent in 2017. PPG external debt is projected to gradually

⁵ The CI is a function of the CPIA, international reserves, remittances, country and global economic growth. The calculation is based on 10-year averages of the variables, across 5 years of historical data and 5 years of projection. For more details, see IMF, 2018, <u>Guidance Note on the Bank-Fund Debt Sustainability Framework for Low-Income Countries</u>.

decrease further over the medium term. Total external debt decreased from 91.0 percent of GDP in 2017 to 85.0 percent in 2018 and will decline further towards 75 percent in the medium term.⁶

- **8. External debt remains at moderate risk of distress.** Public and publicly guaranteed (PPG) external debt in PV terms is estimated to decline from 35 percent of GDP in 2018 to below 30 percent of GDP over the long term. While most external debt burden indicators remain below their indicative sustainability thresholds under shock scenarios and suggest limited rollover risks, the debt service-to-exports ratios breach its threshold in the medium term in the case of a shock to exports (Figure 1 and Table 3), indicating moderate risk of debt distress. Moreover, the PV of debt-to-exports also breaches its threshold, albeit for only a year. The assessment of moderate risk is also supported by the overvaluation of the exchange rate highlighted by the External Sector Assessment, the need for continued fiscal discipline in strict adherence to the draft fiscal rule, the expectations of continuing external concessional financing, and the large dependence on remittances and gold exports.
- 9. The Kyrgyz Republic is assessed to have some space to absorb shocks. The external PPG debt outlook remains vulnerable to large external shocks, to a decline in exports and other flows, the depreciation of the KGS as well as combined external shocks. Given the gap between debt burden indicators and their respective thresholds, the Kyrgyz Republic has some space to absorb shocks without being downgraded to high risk of debt distress (Figure 5).

PUBLIC DSA

10. The public debt outlook has remained broadly unchanged since the last DSA (Text Table 5). Public debt (external plus domestic) decreased from 58.8 percent of GDP in 2017 to 56.0 percent of GDP in 2018. Total public debt is expected to be manageable in the medium and long term but remains sensitive to shocks, especially to real GDP growth and the depreciation of the KGS. Specifically, the PV of debt-to-GDP ratio breaches its sustainability threshold in the case of shocks to real GDP growth over the medium and long term (Figure 2 and Table 4). Rollover risks associated with public debt are expected to remain modest in the years ahead, albeit increasing over the long term.

AUTHORITIES' VIEWS

11. The authorities agreed with the overall assessment. They noted that the fiscal rule being considered by Parliament will help keeping the overall public debt sustainable.

⁶ This implies that private external debt (for example, debt of commercial banks) would be in the range of 20-40 percent of GDP in the medium term.

⁷ Kyrgyz Republic, Staff Report fort the 2019 Article IV Consultation, Annex 2. External Sector Assessment (forthcoming).

(percent of GDP)											
	2016	2017	2018	2019	2020	2021	2022	2023	2024	Long Term (2028)	
PPGE debt to GDP ratio											
Current DSA	54.4	53.0	48.0	47.9	46.7	45.4	44.0	43.2	42.7	37.8	
Previous DSA ¹	56.6	54.5	55.8	56.1	54.1	53.1	51.5	50.1	48.7	42.0	
Public debt to GDP ratio											
Current DSA	59.1	58.8	56.0	56.1	55.5	55.3	54.5	54.4	54.4	54.0	
Previous DSA ¹	58.1	57.1	58.2	58.4	56.2	55.0	53.2	51.7	50.9	47.1	

CONCLUSION

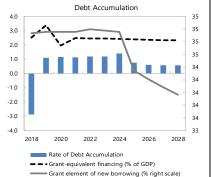
- **12. Both external and overall public debt remains at moderate risk of distress.** Both the results of stress tests and country-specific circumstances point toward moderate risk of external debt distress. Given this assessment of external debt and that at least one indicator breaches the threshold under the public debt stress tests, overall public debt is also assessed to have moderate risk of debt distress.
- 13. The authorities need to maintain fiscal discipline, remain cautious when contracting or guaranteeing new debt and continue to improve the business climate. To keep the public debt sustainable, the authorities will need to strictly adhere to the fiscal rule considered by Parliament. While necessary to fill the large infrastructure gap, externally-financed public investments, could undermine debt sustainability. In this context, further efforts are needed to strengthen public debt and public investment management, to ensure that potential gains from externally financed public investment projects are fully realized. Moreover, the authorities should keep improving the business environment to maintain the country's export beyond the closure of the main gold mine. An attractive business environment will be of paramount importance to generate new exports to replace those of the main gold mine that will close in 2026.

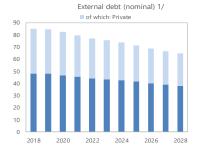
Table 1. Kyrgyz Republic: External Debt Sustainability Framework, Baseline Scenario, 2015–38

(In percent of GDP unless, otherwise indicated)

	Α	ctual			Projections			Ave	rage 8/				
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2028	2038	Historical	Projections
External debt (nominal) 1/	109.4	99.7	91.0	85.0	84.7	82.3	79.7	77.1	75.4	64.6	56.6	88.3	75.4
of which: public and publicly guaranteed (PPG)	63.5	54.4	53.0	48.0	47.9	46.7	45.4	44.0	43.2	37.8	37.0	51.2	43.3
Change in external debt	19.7	-9.7	-8.7	-5.9	-0.4	-2.3	-2.7	-2.6	-1.7	-2.0	-0.6		
Identified net debt-creating flows	11.5	1.0	-4.3	5.1	1.8	0.4	-0.4	-1.4	1.7	-1.2	0.9	-5.0	0.8
Non-interest current account deficit	15.0	10.6	5.2	7.7	8.5	6.6	6.1	5.7	7.3	6.1	7.3	6.9	7.0
Deficit in balance of goods and services	36.4	34.3	32.1	36.0	35.9	35.3	35.6	35.4	37.0	34.5	36.8	31.5	35.9
Exports	37.0	35.9	34.2	32.7	32.8	31.9	31.5	31.5	29.4	28.8	27.4	51.5	55.5
Imports	73.4	70.3	66.4	68.7	68.7	67.2	67.1	66.8	66.5	63.3	64.2		
Net current transfers (negative = inflow)	-24.2	-27.9	-30.7	-29.9	-29.8	-30.9	-31.8	-32.1	-31.7	-30.5	-31.0	-28.9	-30.9
of which: official	-1.5	-1.2	-1.4	-0.6	-0.9	-0.1	-0.5	-0.5	-0.5	-0.4	-0.3	-20.5	-30.3
Other current account flows (negative = net inflow)	2.9	4.2	3.8	1.6	2.3	2.2	2.3	2.4	1.9	2.1	1.5	4.4	2.0
Net FDI (negative = inflow)	-15.1	-8.5	1.0	-0.6	-4.6	-4.5	-4.6	-4.7	-4.2	-5.5	-5.1	-7.1	-4.4
Endogenous debt dynamics 2/	11.6	-1.2	-10.5	-2.1	-2.0	-1.6	-1.9	-2.4	-1.4	-1.7	-1.3	-7.1	-4.4
Contribution from nominal interest rate	1.0	1.0	1.0	0.9	1.1	1.1	1.0	1.0	1.1	1.0	1.0		
	-3.9	-4.7	-4.2	-3.0	-3.1	-2.7	-2.9		-2.5	-2.8	-2.3		
Contribution from real GDP growth					-3.1			-3.4		-2.8	-2.3		
Contribution from price and exchange rate changes	14.5	2.5	-7.3										
Residual 3/	8.2	-10.7	-4.5	-11.0	-2.2	-2.7	-2.3	-1.2	-3.4	-0.8	-1.6	4.9	-3.2
of which: exceptional financing	0.0	-0.4	-0.5	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Sustainability indicators													
PV of PPG external debt-to-GDP ratio			40.1	35.5	35.5	34.8	34.0	33.0	32.5	28.0	27.1		
PV of PPG external debt-to-exports ratio			117.2	108.3	108.3	109.2	108.0	104.9	110.4	97.2	98.8		
PPG debt service-to-exports ratio	4.6	5.4	6.1	18.9	8.6	7.9	8.8	8.6	9.1	10.8	8.4		
PPG debt service-to-revenue ratio	5.1	6.2	6.7	19.9	8.7	8.0	8.9	8.7	8.6	10.3	7.5		
Gross external financing need (Million of U.S. dollars)	680.4	783.8	1052.7	1320.4	853.3	720.3	760.1	766.7	1039.6	1123.3	2069.6		
Key macroeconomic assumptions													
Real GDP growth (in percent)	3.9	4.3	4.7	3.5	3.8	3.4	3.8	4.6	3.4	4.4	4.3	4.4	3.9
GDP deflator in US dollar terms (change in percent)	-13.9	-2.2	7.9	1.5	-0.7	1.9	1.9	1.9	1.9	1.0	1.0	3.5	1.4
Effective interest rate (percent) 4/	1.0	0.9	1.1	1.1	1.3	1.3	1.3	1.4	1.5	1.6	1.8	1.0	1.4
Growth of exports of G&S (US dollar terms, in percent)	-26.9	-0.9	7.7	0.4	3.2	2.5	4.4	6.5	-1.5	7.6	6.6	4.5	3.8
Growth of imports of G&S (US dollar terms, in percent)	-24.8	-2.3	6.8	8.8	2.9	3.0	5.6	6.1	4.7	5.0	5.9	7.2	4.9
Grant element of new public sector borrowing (in percent)				34.9	35.0	35.0	35.0	35.0	35.0	34.0	33.3	•••	34.7
Government revenues (excluding grants, in percent of GDP)	33.5	31.0	31.1	31.2	32.3	31.6	31.3	31.2	31.0	30.2	30.6	30.6	31.0
Aid flows (in Million of US dollars) 5/	143.7	144.4	171.8	222.7	326.9	212.7	282.1	291.5	300.9	357.8	530.7	50.0	51.0
Grant-equivalent financing (in percent of GDP) 6/				2.5	3.4	1.9	2.5	2.5	2.4	2.3	2.2		2.5
Grant-equivalent financing (in percent of external financing) 6/				60.7	61.0	49.9	53.0	52.4	52.2	50.5	48.8		53.2
Nominal GDP (Million of US dollars)	6,678	6,813	7,703	8,093	8,334	8.781	9.288	9,897	10.423	13.674	22,904		
Nominal dollar GDP growth	-10.6	2.0	13.1	5.1	3.0	5.4	5.8	6.6	5.3	5.4	5.3	8.2	5.4
Memorandum items:													
PV of external debt 7/			78.1	72.5	72.3	70.5	68.3	66.1	64.7	54.8	46.6		
In percent of exports			228.2	221.4	220.4	221.0	216.8	210.2	219.8	190.2	170.1		
In percent of exports Total external debt service-to-exports ratio	27.8	26.1	228.2	221.4	19.5	19.4	216.8	210.2	219.8	26.5	24.7		
PV of PPG external debt (in Million of US dollars)	21.0	20.1	3091.4	2869.6	2959.6	3057.1	3156.8	3267.0	3385.4	3826.0	6208.3		
			3091.4										
(PVt-PVt-1)/GDPt-1 (in percent) Non-interest current account deficit that stabilizes debt ratio	-4.6	20.4	14.0	-2.9 13.7	1.1 8.8	1.2 8.9	1.1 8.7	1.2 8.3	1.2 9.0	0.6 8.1	1.4 7.9		
Non-interest current account delicit that stabilizes debt fatio	-4 .b	20.4	14.0	15./	0.8	6.9	0.7	0.3	9.0	0.1	7.9		

Definition of external/domestic debt	Residency-based
Is there a material difference between the two criteria?	No





Sources: Country authorities; and staff estimates and projections.

^{1/} Includes both public and private sector external debt.

^{2/} Derived as $[r-g-\rho(1+g)+\epsilon\alpha(1+r)]/(1+g+\rho+g\rho)$ times previous period debt ratio, with r= nominal interest rate; g= real GDP growth rate, $\rho=$ growth rate of GDP deflator in U.S. dollar terms, $\epsilon=$ nominal appreciation of the local currency, and $\alpha=$ share of local currency-denominated external debt in total external debt.

^{3/} 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. Kyrgyz Republic: Public Sector Debt Sustainability Framework, 2015-38

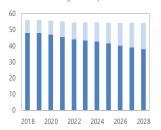
(In percent of GDP, unless otherwise indicated)

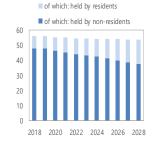
	A	ctual					Proje	ctions				Average 6/	
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2028	2038	Historical	Projections
Public sector debt 1/	67.1	59.1	58.8	56.0	56.1	55.5	55.3	54.5	54.4	54.0	54.0	55.3	54.8
of which: external debt	63.5	54.4	53.0	48.0	47.9	46.7	45.4	44.0	43.2	37.8	37.0	51.2	43.3
Change in public sector debt	13.5	-8.0	-0.3	-2.8	0.1	-0.6	-0.2	-0.7	-0.1	0.0	0.0		
Identified debt-creating flows	12.4	-5.9	-2.6	-3.9	1.5	-0.1	-0.3	-0.7	-0.1	-0.2	-0.1	-0.4	-0.4
Primary deficit	1.8	5.4	3.5	0.0	1.9	1.6	1.6	1.5	1.4	1.0	0.9	2.9	1.3
Revenue and grants	35.6	33.1	33.4	32.8	34.5	32.5	32.6	32.5	32.3	31.4	31.6	33.3	32.3
of which: grants	2.2	2.1	2.2	1.6	2.2	0.9	1.3	1.3	1.2	1.1	1.0		
Primary (noninterest) expenditure	37.4	38.5	36.8	32.8	36.4	34.0	34.2	34.0	33.7	32.4	32.5	36.2	33.6
Automatic debt dynamics	10.6	-10.8	-5.7	-0.9	-0.3	-1.6	-1.8	-2.1	-1.4	-1.2	-1.0		
Contribution from interest rate/growth differential	-2.3	-3.3	-3.2	-1.9	-1.5	-1.6	-1.8	-2.1	-1.4	-1.5	-1.3		
of which: contribution from average real interest rate	-0.3	-0.5	-0.5	0.1	0.5	0.2	0.2	0.3	0.3	0.8	0.9		
of which: contribution from real GDP growth	-2.0	-2.8	-2.7	-2.0	-2.0	-1.8	-2.0	-2.4	-1.8	-2.3	-2.2		
Contribution from real exchange rate depreciation	12.9	-7.5	-2.4										
Other identified debt-creating flows	0.0	-0.4	-0.4	-3.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.3
Privatization receipts (negative)	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	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	0.0		
Debt relief (HIPC and other)	0.0	-0.4	-0.4	-3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
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	0.0		
Residual	1.0	-2.2	2.3	2.1	-0.2	-0.5	0.1	-0.1	0.0	0.5	0.5	0.5	0.3
Sustainability indicators													
PV of public debt-to-GDP ratio 2/			46.0	44.0	44.2	44.2	44.4	44.0	44.2	44.6	44.5		
PV of public debt-to-revenue and grants ratio	•••		137.8	134.1	128.1	136.1	136.0	135.5	136.9	142.2	140.8		
Debt service-to-revenue and grants ratio 3/	4.8	5.8	6.3	37.2	32.4	33.4	35.9	38.8	41.4	58.9	61.5		
Gross financing need 4/	2.9	6.6	5.6	9.3	13.0	12.4	13.2	14.0	14.7	19.5	20.3		
Key macroeconomic and fiscal assumptions													
Real GDP growth (in percent)	3.9	4.3	4.7	3.5	3.8	3.4	3.8	4.6	3.4	4.4	4.3	4.4	3.9
Average nominal interest rate on external debt (in percent)	1.3	1.3	1.3	1.3	1.6	1.6	1.5	1.5	1.6	1.7	1.8	1.2	1.6
Average real interest rate on domestic debt (in percent)	-3.3	-5.7	-6.0	6.7	8.5	4.9	4.8	4.8	4.8	5.8	5.8	-8.4	5.6
Real exchange rate depreciation (in percent, + indicates depreciation)	26.6	-12.3	-4.7									0.6	
Inflation rate (GDP deflator, in percent)	3.4	6.1	6.3	1.5	2.2	4.9	5.0	5.0	5.0	4.0	4.0	9.6	4.1
Growth of real primary spending (deflated by GDP deflator, in percent)	2.3	7.3	0.3	-7.8	14.9	-3.3	4.2	4.0	2.4	3.6	4.4	7.0	2.8
Primary deficit that stabilizes the debt-to-GDP ratio 5/	-11.7	13.4	3.8	2.8	1.8	2.2	1.8	2.2	1.5	1.1	0.9	1.8	1.7
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	0.0		





- of which: local-currency denominated
- of which: foreign-currency denominated





Sources: Country authorities; and staff estimates and projections.

^{1/} Coverage of debt. The central, state, and local governments, 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.

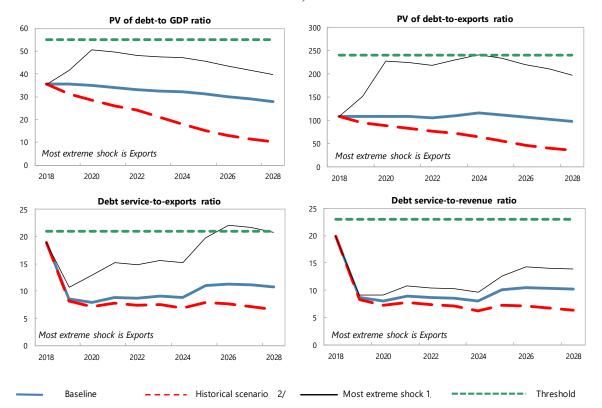
^{3/} Debt service is defined as the sum of interest and amortization of medium and long-term, and short-term debt.

^{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 stabilizes 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.

Figure 1. Kyrgyz Republic: Indicators of Public and Publicly Guaranteed External Debt under Alternative Scenarios, 2018-28 1/



Customization of Default Settings								
	Size	Interactions						
Tailored Tests								
Combined CLs	No							
Natural Disasters	n.a.	n.a.						
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	1.9%	1.9%						
USD Discount rate	5.0%	5.0%						
Avg. maturity (incl. grace period)	27	27						
Avg. grace period	5	5						

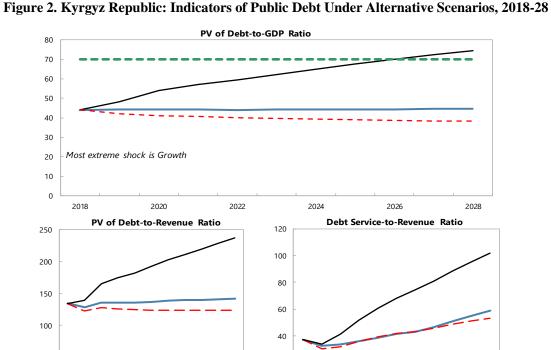
* Note: All the additional financing needs generated by the shocks under the stress tests are assumed to be covered by PPG external MLT debt in the external DSA. Default terms of marginal debt are based on baseline 10-year projections.

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 2028. 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 exterme shock even after disregarding the one-off breach, only that stress test (with a one-off breach) would be presented.

2/ The historical scenario leads to much more favorable debt dynamics than the baseline mainly because the average annual FDI inflow was much higher than projected in the base line (see Table 1).

Note: debt service was very high in 2018 because debt relief by Russia (\$240 million) was recorded as debt amortization financed by debt relief in the balance of payments.



50 Most extreme shock is Growth Most extreme shock is Growth 0 0 2028 2018 2020 2022 2026 2018 2028 2024 2020 2022 2024 Baseline Most extreme shock 1/

Borrowing Assumptions for Stress Tests*	Default	User defined
Shares of marginal debt		
External PPG medium and long-term	23%	23%
Domestic medium and long-term	0%	0%
Domestic short-term	77%	77%
Terms of marginal debt		
External MLT debt		
Avg. nominal interest rate on new borrowing in USD	1.9%	1.9%
Avg. maturity (incl. grace period)	27	27
Avg. grace period	5	5
Domestic MLT debt		
Avg. real interest rate on new borrowing	0.0%	0.0%
Avg. maturity (incl. grace period)	1	1
Avg. grace period	0	0
Domestic short-term debt		
Avg. real interest rate	5%	5.0%

'Historical scenario 2/

Sources: Country authorities; and staff estimates and projections.

Public debt benchmark

1/ The most extreme stress test is the test that yields the highest ratio in or before 2028. 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 exterme shock even after disregarding the one-off breach, only that stress test (with a one-off breach) would be presented.

2/ The historical scenario leads to more favorable debt dynamics than the baseline in spite of higher primary deficits mostly because of the countervailing impact of the higher GDP deflator and the lower interest rate than in the baseline (see Table 2).

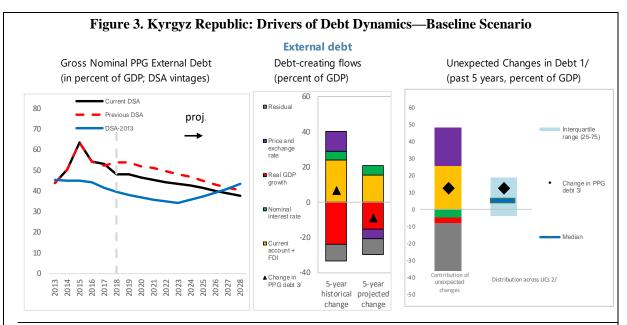
^{*} Note: The public DSA allows for domestic financing to cover the additional financing needs generated by the shocks under the stress tests in the public DSA. Default terms of marginal debt are based on baseline 10-year projections.

Table 3. Kyrgyz Republic: Sensitivity Analysis for Key Indicators of Public and Publicly Guaranteed External Debt, 2018-28

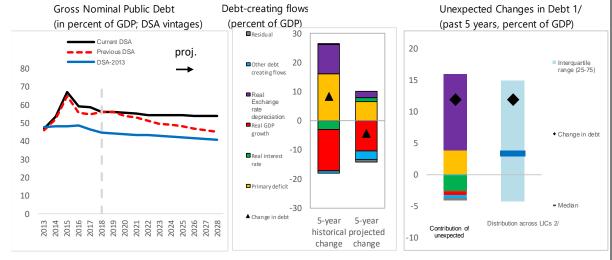
(In percent)

Part Section Part	2010	2010	2020	2024		ojections		2025	2026	2027	2028
Marchine 18	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Nemark N	PV of debt-to	GDP rat	io								
Respect Resp	35.5	35.5	34.8	34.0	33.0	32.5	32.2	31.1	30.0	28.9	28.0
Real CDP grown											
Real Color growth	35.5	31.2	28.4	26.0	24.2	21.1	17.8	15.3	13.1	11.3	10.2
Real Color growth											
2 Primary poliumes	35.5	37.5	38.7	37.8	36.7	36.1	35.8	34.6	33.3	32.2	31.1
A. Charles None 2 3.55 4.07 4.58 4.48 43.0 43.0 43.0 43.0 43.0 43.0 43.0 43.0 43.0 43.0 43.0 33.0 43.0 3											31.7
S. One fine 30 per rett mormal degreection 3.5 4.5 3.5 4.5 3.5 3.6 3.0 3											39.8
S. Cambandon of 81-85 A. S. A. 19											36.0
Combined contagned liabilities											29.3
	35.5	44.5	47.4	46.4	45.1	44.4	44.0	42.4	40.5	38.8	37.3
2. Abana diaster											
Markenhold 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,											
Part											
PV of betain PV o											
Name				33	33	33	33	33	33	33	33
Nemark Nemark New Property N	PV of debt-to-ex	kports r	atio								
No per N	108.3	108.3	109.2	108.0	104.9	110.4	115.8	111.7	106.6	102.6	97.2
1. Real GD growth 108.3 108.3 108.2 108.0 104.9 115.8 111.7 106.6 102.6 97.2 108.0 1	109.3	95.2	80 n	827	76.0	71 7	64.2	5/1 0	46.6	40 1	25.5
	108.3	93.Z	09.0	02.7	70.9	11.7	04.2	54.9	40.0	40. I	35.5
2 Primary balance 10.83 1099 1139 1151 1126 1206 1207 1211 1286 1249 1210 1207 1211 1286 1208 1207 1208 12	108.3	108.3	109.2	108.0	104.9	110.4	115.8	111.7	106.6	102.6	97.2
M. Other Horows Z Some-time 90 gereent nominal depreciation 108.3 124.0 130.3 142.4 136.5 136.5 136.5 139.5 139.5 130.											110.3
15. One-time 30 percent nominal depreciation 108.3 108.3 108.9 108.5 108.5 108.9 108.0	108.3	151.2	227.1	225.1	219.1	230.7		233.4	220.7	210.5	197.7
108.3 14.2 15.9 16.7 16.1 16.8 17.1 16.2 15.4 16.5											125.0
Combined Contingent liabilities 18.8 11.5 11.50 11.50 11.50 11.50 11.51 12.13 12.83 11.9 11.61 11.02 12.03 11.61 11.02 12.03 11.03											
1. Combined contingent liabilities 108.3 111.5 11.	108.3	141.2	135.9	165.7	161.3	169.8	178.0	1/1.1	162.1	154.9	145.8
2. Natural disaster											
3. Commodity price 1.0.											
A Market Financing											
Debt Section Debt											
Separation 18.9 8.6 7.9 8.8 8.6 9.1 8.8 1.0 11.3 11.1 10.8											
18.9 8.6 7.9 8.8 8.6 9.1 8.8 11.0 11.3 11.1 10.8	240	240	240	240	240	240	240	240	240	240	240
Section 18.9 8.6 7.9 8.8 8.6 9.1 8.8 11.0 11.3 11.1 10.8	Debt service-to-e	xports	ratio								
A Alternative Scenarios 1. Key variables at their historical averages in 2018-2038 1/1 1. Real GDP growth 1.				8.8	8.6	9.1	8.8	11.0	11.3	11.1	10.8
8. Bound Tests 13. Real GDP growth 18.9 8.6 7.9 8.8 8.6 9.1 8.8 11.0 11.3 11.1 10.2 11.8 11.8 11.8 11.8 11.8 11.8 11.8 11											
18. Peal GDP growth 18.9	18.9	8.2	7.1	7.7	7.4	7.5	6.9	7.9	7.7	7.2	6.6
18. Peal GDP growth 18.9											
18.9 8.6 8.0 9.0 8.8 9.3 9.1 11.4 11.9 11.8 11.6											
18. 10.7 12.9 15.3 14.9 15.6 15.2 19.8 22.1 21.6 20.8 18. 10.7 12.9 15.3 14.9 15.6 15.2 19.8 22.1 21.6 20.8 18.											10.8
Magnetistic											11.6
18.9 8.6 7.9 8.3 8.1 8.5 8.3 10.5 9.7 9.6 9.3 9.5 10.4 11.8 11.5 12.0 11.7 15.8 16.5 16.1 15.6 16.6 Combination of 81-BS 18.9 9.5 10.4 11.8 11.5 12.0 11.7 15.8 16.5 16.1 15.6 16.6 Combination of 81-BS 18.9 9.5 10.4 11.8 11.5 12.0 11.7 15.8 16.5 16.1 15.6 16.5 1											
18.9 9.5 10.4 11.8 11.5 12.0 11.7 15.8 16.5 16.1 15.6 16.1 1											
### Case											
18.9 8.6 8.0 9.0 8.8 9.3 9.1 11.3 11.6 11.5 11.1 2.2 Natural disaster	10.5	5.5	.0.4	. 1.0	. 1.5	.2.0		. 5.0	. 5.5	. 0. 1	15.0
2. Natural disaster	19.0	86	8.0	9.0	22	0.3	0.1	11 2	116	115	11 1
3. Commodity price n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a											
A Market Financing n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.											
Second S											
Second S	21	21	21	21	21	21	21	21	21	21	21
A. Alternative Scenarios 1. Key variables at their historical averages in 2018-2038 1/ 1. Rey variables at their historical averages in 2018-2038 1/ 1. Rey variables at their historical averages in 2018-2038 1/ 1. Rey variables at their historical averages in 2018-2038 1/ 1. Rey variables at their historical averages in 2018-2038 1/ 1. Real GDP growth 19.9 8.7 8.0 9.0 8.9 8.8 8.2 11.2 11.6 11.5 11.4 1. Combined to 19.9 8.7 8.0 9.0 8.9 8.8 8.2 10.4 10.9 11.0 11.0 1. Combined Test 1. Combined Contingent liabilities 1. Combined contingent liabilities 1. Combined contingent liabilities 1. Real G. Rey B. Rey			un á lo								
Alternative Scenarios 1. Key variables at their historical averages in 2018-2038 1/ 19.9 8.3 7.2 7.8 7.4 7.1 8.2 7.2 7.1 6.7 6.3 **Bound Tests** 1. Real GDP growth 19.9 9.2 8.9 9.9 9.7 9.6 8.9 11.2 11.6 11.5 11.4 11.6 2.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0					0.7	9.6-	0.0-	10.0	10-4-	10.3	10.3
1. Key variables at their historical averages in 2018-2038 1/ 19.9 8.3 7.2 7.8 7.4 7.1 6.2 7.2 7.1 6.7 6.3 3. Bound Tests 1. Real GDP growth 19.9 9.2 8.9 9.9 9.7 9.6 8.9 11.2 11.6 11.5 11.4 12. Primary balance 19.9 8.7 8.0 9.0 8.9 8.8 8.2 10.4 10.9 11.0 11.0 13. Exports 19.9 9.1 9.1 10.7 10.5 10.3 9.6 12.6 14.2 14.1 13.9 14. Other flows 2/ 19.9 8.7 8.4 9.8 9.6 9.4 8.8 11.7 12.9 12.7 12.6 15. One-time 30 percent nominal depreciation 19.9 11.0 10.2 10.6 10.4 10.3 9.5 12.1 11.3 11.3 11.3 15. Commodify 18.5 3. Tailored Tests 1. Combined contingent liabilities 19.9 8.7 8.1 9.1 8.9 8.8 8.2 10.3 10.7 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6	19.9	8.7	8.0	8.9	8.7	8.6	8.0	10.0	10.4	10.3	10.3
18. Real GDP growth 19.9 9.2 8.9 9.9 9.7 9.6 8.9 11.2 11.6 11.5 11.4 12. Primary balance 19.9 8.7 8.0 9.0 8.9 8.8 8.2 10.4 10.9 11.0 11.0 11.0 11.0 11.0 11.0 11.0	19.9	8.3	7.2	7.8	7.4	7.1	6.2	7.2	7.1	6.7	6.3
18. Real GDP growth 19.9 9.2 8.9 9.9 9.7 9.6 8.9 11.2 11.6 11.5 11.4 12. Primary balance 19.9 8.7 8.0 9.0 8.9 8.8 8.2 10.4 10.9 11.0 11.0 11.0 11.0 11.0 11.0 11.0											
19.9 8.7 8.0 9.0 8.8 8.8 8.2 10.4 10.9 11.0											
13. Exports 19.9 9.1 9.1 10.7 10.5 10.3 9.6 12.6 14.2 14.1 13.9 4. Other flows 2/ 19.9 8.7 8.4 9.8 9.6 9.4 8.8 11.7 12.9 12.7 12.6 15. One-time 30 percent nominal depreciation 19.9 11.0 10.2 10.6 10.4 10.3 9.5 12.1 11.3 11.3 11.3 11.3 16. Combination of B1-85 19.9 8.7 8.1 9.1 8.9 8.8 8.2 10.5 13.5 13.3 13.2 1. Combined contingent liabilities 19.9 8.7 8.1 9.1 8.9 8.8 8.2 10.3 10.7 10.6 10.6 2. Natural disaster n.a. <											11.4
M4. Other flows 2/ 19.9 8.7 8.4 9.8 9.6 9.4 8.8 11.7 12.9 12.7 12.6 15.0 no-t-ime 30 percent nominal depreciation 19.9 11.0 10.2 10.6 10.4 10.3 9.5 12.1 11.3 11.3 11.3 11.3 11.3 11.3 11.3											11.0
15. One-time 30 percent nominal depreciation 19.9 11.0 10.2 10.6 10.4 10.3 9.5 12.1 11.3 11.3 11.3											
6. Combination of B1-B5 19.9 9.3 9.3 10.5 10.3 10.1 9.4 12.8 13.5 13.3 13.2 13.2 1.3 1.3 13.2 1.3 1.3 1.3 13.2 1.3 1.3 13.2 1.3 1.3 13.2 1.3 1.3 13.2 1.3 1.3 13.2 1.3 1.3 13.2 1.3 1.3 13.2 1.3 1.3 13.2 1.3 1.3 13.2 1.3 1.3 13.2 1.3 1.3 13.2 1.3 1.3 13.2 1.3 1.3 13.2 1.3 13.2 1.3 1.3 13.2 1.3 1.3 13.2 1.3 1.3 13.2 1.3											
1. Calibred Tests 19.9 8.7 8.1 9.1 8.9 8.8 8.2 10.3 10.7 10.6 10.6 2. Natural disaster n.a.											13.2
1. Combined contingent liabilities 19.9 8.7 8.1 9.1 8.9 8.8 8.2 10.3 10.7 10.6 10.6 2. Natural disaster n.a.	.5.5	3.3	3.3	. 0.5	. 0.5		3.4	. 2.0		. 3.3	.5.2
22. Natural disaster n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a	10.0	0.7	0.1	0.1		0.0	0.3	10.3	10.7	10.0	10.5
:3. Commodity price n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a											
'A. Market Financing na.											
	il.d.										n.a.
	n a										
		23	23	23	23	23	23	23	23	23	23
iources: Country authorities; and staff estimates and projections.		23	23	23	23	23	23	23	23	23	23
22. Natural disaster 33. Commodity price 44. Market Financing		35.5 35.5 35.5 35.5 35.5 35.5 35.5 35.5 35.5 35.5 35.5 35.5 35.5 36.6 37.6 37.6 38.9 108.3	PV of debt-to GDP rat 35.5 35.5 35.5 35.5 35.5 36.0 35.5 41.6 35.5 45.0 35.5 44.5 35.5 44.5 35.5 45.0 35.5 44.5 35.5 45.0 35.5 45.0 35.5 45.0 35.5 45.0 35.5 45.0 35.5 45.0 35.5 45.0 35.5 45.0 36.6 10.8 10.8	PV of debt-to GDP ratio 35.5	PV of debt-to GDP ratio 35.5 35.5 34.8 34.0	PV of debt-to GDP ratio 35.5	PV of debt-to GDP ratio 35.5	PV of debt-to GDP ratio 35.5 35.5 34.8 34.0 33.0 32.5 32.2	PV of debt-to SUP ratio 35.5 35.5 34.8 34.0 33.0 32.5 32.2 31.1 35.5 35.5 36.8 34.0 33.0 32.5 32.2 31.1 35.3 35.5 35.5 36.0 36.3 36.7 35.8 35.7 35.8 35.5 35.5 36.0 36.3 36.2 35.8 35.7 35.5 35.5 36.0 36.3 36.2 35.8 35.7 35.5 35.5 36.0 36.3 36.2 35.8 35.7 35.5 35.5 36.0 35.9 35.0 34.0 33.4 33.1 31.9 35.5 44.5 47.4 46.4 45.1 44.4 44.0 42.4 44.5 47.4 46.4 45.1 44.4 44.0 42.4 44.5 47.4 46.4 45.1 44.4 44.0 42.4 44.5 47.4 46.4 45.1 44.4 44.0 42.4 44.5 47.4 46.4 45.1 44.4 44.0 42.4 44.5 47.4 46.4 45.1 44.4 44.0 42.4 47.4 4	PV of debt-to- □P ratio 35.5 35.5 34.8 34.0 33.0 32.5 32.2 31.1 30.0	PV of debt-to GDP ratio 35.5

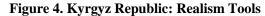
	2010	2010	2020	2024		ojections	2024	2025	2026	2027	2
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	20
	1		to-GDP Ra								
Baseline	44.0	44.2	44.2	44.4	44.0	44.2	44.3	44.4	44.4	44.5	4
A. Alternative Scenarios											
1. Key variables at their historical averages in 2018-2038 1/	44	42	41	41	40	40	39	39	39	38	
B. Bound Tests											
i1. Real GDP growth i2. Primary balance	44 44	48 47	54 51	57 51	59 50	62 50	65 50	68 50	70 50	72 50	
3. Exports	44	49	56	56	56	56	56	55	55	54	
4. Other flows 2/	44	49	55	55	55	55	55	55	54	53	
5. One-time 30 percent nominal depreciation	44	52	49	48	45	43	41	39	37	36	
6. Combination of B1-B5	44	45	46	44	43	43	44	44	44	44	
Tailored Tests											
1. Combined contingent liabilities	44	51	50	50	50	50	50	49	49	49	
2. Natural disaster	n.a.										
3. Commodity price	n.a.										
4. Market Financing	n.a.										
ublic debt benchmark	70	70	70	70	70	70	70	70	70	70	
	PV o	of Debt-to	-Revenue	Ratio							
Baseline	134.1	128.1	136.1	136.0	135.5	136.9	138.7	139.6	140.3	141.2	14
A. Alternative Scenarios											
1. Key variables at their historical averages in 2018-2038 1/	134	123	127	126	125	124	124	124	124	124	
B. Bound Tests											
1. Real GDP growth	134	139	166	174	182	192	203	212	220	228	
2. Primary balance	134	137	156	155	154	154	156	156	157	157	
3. Exports	134	141	173	172	171	172	174	174	172	171	
4. Other flows 2/	134	143	171	170	169	170	172	171	170	169	
5. One-time 30 percent nominal depreciation 6. Combination of B1-B5	134 134	151 132	151 143	146 134	139 133	134 134	130 136	124 137	119 138	114 139	
Tailored Tests											
1. Combined contingent liabilities	134	147	155	154	152	153	155	155	156	156	
2. Natural disaster	n.a.										
3. Commodity price	n.a.										
4. Market Financing	n.a.										
	Debt	Service-to	-Revenue	Ratio							
aseline	37.2	32.4	33.4	35.9	38.8	41.4	43.3	46.6	50.9	55.0	5
a. Alternative Scenarios 11. Key variables at their historical averages in 2018-2038 1/	37	30	32	36	39	42	43	46	49	51	
3. Bound Tests											
11. Real GDP growth	37	34	41	52	60	68	74	81	88	95	
2. Primary balance	37	32	42	52	51	51	51	53	57	60	
3. Exports	37	32	34	37	40	42	44	48	54	58	
4. Other flows 2/	37	32	34	37	40	42	44	48	53	57	
5. One-time 30 percent nominal depreciation	37	31	33	32	38	41	42	45	49	53	
6. Combination of B1-B5	37	32	33	36	38	41	43	46	50	54	
. Tailored Tests											
1. Combined contingent liabilities	37	32	50	49	49	50	50	52	56	59	
2. Natural disaster	n.a.										
3. Commodity price	n.a.										
4. Market Financing	n.a.										



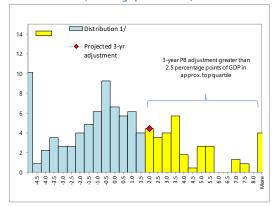




- 1/ Difference between anticipated and actual contributions on debt ratios.
- 2/ Distribution across LICs for which LIC DSAs were produced.
- 3/ Given the relatively low private external debt for average low-income countries, a ppt change in PPG external debt should be largely explained by the drivers of the external debt dynamics equation.

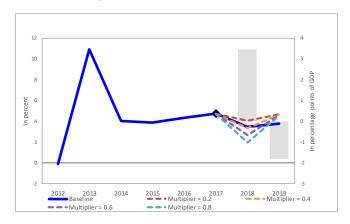


3-Year Adjustment in Primary Balance (Percentage points of GDP)



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.

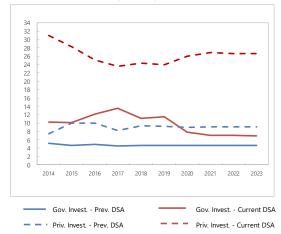
Fiscal Adjustment and Possible Growth Paths 1/



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





Contribution to Real GDP growth



