

INTERNATIONAL DEVELOPMENT ASSOCIATION
INTERNATIONAL MONETARY FUND

REPUBLIC OF TOGO

Joint World Bank–Fund Debt Sustainability Analysis

Prepared by the staffs of the International Development Association
and the International Monetary Fund

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The low-income country debt sustainability analysis (LIC DSA) shows that Togo is in debt distress, demonstrating the need for reaching the completion point of the HIPC Initiative debt relief.¹ Despite some accelerating growth in the medium-term, projected to reach close to 4 percent on average, key debt sustainability indicators are above the relevant indicative thresholds over the next few years. An alternative scenario illustrating the impact of additional HIPC, MDRI and beyond-HIPC debt relief at the completion point suggests strong improvements in debt burden indicators. The inclusion of Togo's large domestic public debt in the analysis generally reinforces the conclusions of the external DSA.

A. Background

1. **The last DSA for Togo was prepared in 2008 and concluded that Togo was in debt distress.** The outcome of this analysis is in line with the previous DSA, which was breaking away from the past, finding improvement in debt dynamics as a consequence of expected improvements in the macroeconomic policy framework, notably greater fiscal discipline and

¹ This DSA has been prepared jointly by the World Bank and Fund staffs using the Debt Sustainability Framework (DSF) for Low Income Countries (see "Applying the Debt Sustainability Framework for Low-Income Countries Post Debt Relief", (<http://siteresources.worldbank.org/INTDEBTDEPT/PolicyPapers/21154573/DMSDR1S3149398v1DSFPaperforweb.pdf> and SM/06/364, 11/08/06). Togo's quality of policies and institutions, as measured by the average World Bank's Country Policy and Institutional Assessment (CPIA) for the period 2006-2008 (2.6), places it as a "weak performer". The corresponding indicative thresholds for the external debt indicators are 30 percent for the NPV of debt-to-GDP ratio, 100 percent of the debt-to-export ratio, 200 percent for NPV of debt-to-revenue ratio, 15 percent for the debt service-to-exports ratio and 25 percent for the debt service-to-revenue ratio.

solid implementation of growth-promoting structural reforms, large domestic arrears clearance operations and the HIPC initiative interim debt relief. However, the key indicative ratios for the current DSA are slightly worse than in the 2008 DSA, mostly because the revised real GDP growth estimates for 2009 are not as strong as projected during the previous exercise due to the impact of the global crisis and because of the fall in the discount rate from 5 to 4 percent.

2. **Since November 2008, Togo has been in the interim period of the HIPC Initiative.** With the reaching of the decision point, Togo was granted Cologne terms debt relief² by the Paris Club and negotiated rescheduling agreement with several multilateral and non Paris Club creditors. Also, the nominal debt stock fell from US\$2.2 billion at end-2007 to US\$1.7 billion end-2008 reflecting the arrears clearance operations.

Nominal debt stock as of end-2008		
	(in million of US\$)	percent of total debt
Total	1,740.3	100%
Multilateral creditors	960.1	55%
<i>of which</i>		
IDA	598.4	34%
AfDB	126.2	7%
Bilateral creditors	750.9	43%
Paris Club	665.6	38%
<i>of which</i>		
France	142.9	8%
Switzerland	141.9	8%
Belgium	116.3	7%
Non Paris Club	85.3	5%
Commercial	29.4	2%

Source: Togolese authorities and staff estimates.

B. Baseline Assumptions

3. **The baseline scenario is consistent with the three-year PRGF arrangement.** It is based on a continuation of steady growth averaging 3.4 percent from 2009 to 2019 and 4 percent from 2020 to 2029. Growth will be driven by donor-financed public investment, as donors continue to re-engage with the country after a long period of internal social-political turmoil, as well as an improved investment climate (including an increase in Togo's attractiveness to foreign investors), growing regional integration accompanied by an increase in Togo's role in regional trade given its strategic geographical location and the role of the port of Lomé, a rebound in cotton and phosphate production following the restructuring of these sectors, and deeper

² Cologne terms represent a 90 percent reduction of debt service falling due during the interim period and the remaining 10 percent are rescheduled with 6 year-grace and 23 years of maturity for non ODA debt and 16 year-grace and 40 years of maturity for ODA debt.

financial intermediation after the ongoing restructuring of the banking sector. The scenario assumes a stable political and social situation that should lead to a durable improvement in business confidence and larger investment over the medium term (e.g. in the banking, telecom and phosphate sectors as well as the port). An important element of the baseline scenario is the reengagement of the international community. The GDP deflator is projected at 2.4 percent on average over 2015-2029, which is in line with Togo's historical experience and with WAEMU convergence criteria.

4. **Macroeconomic stability will be anchored on a prudent fiscal policy and structural reforms.** The domestic primary deficit is assumed to stay close to zero during the projected period. It is expected that resources freed up by HIPC and MDRI relief will be allocated to priority sectors such as health, education, infrastructure, and restructuring of state-owned banks. The revenue to GDP ratio is expected to stabilize at 18 percent reflecting mainly a successful strategy of increasing tax revenues by reducing relatively high tax rates and broadening the tax base.

5. **Under the assumption that FDI and donor flows continue to be robust over the medium term, the external position is projected to remain manageable.** Togo's current account deficit is not expected to decline much over the medium term. Imports are projected to increase as foreign aid is absorbed and FDI increases. Exports are expected to pick up, largely on the account of higher phosphate exports. Sustained export growth will require enhancing competitiveness through reforms to improve the business environment. External financing is expected to come primarily from debt relief, FDI flows, remittances and aid. FDI is expected to increase during this period whereas international reserves are expected to fall moderately.

6. **The baseline scenario reflects the multilateral arrears clearance operations completed in 2008 and assumes full delivery of traditional debt relief as well as interim HIPC assistance.**³ Consistent with the DSF guidelines, the baseline does not reflect the delivery of HIPC, MDRI and bilateral or multilateral beyond-HIPC assistance after the completion point.⁴ Since the evolution of Togo's debt indicators reflects the full impact of debt relief under the HIPC Initiative, full HIPC, MDRI and bilateral or multilateral beyond-HIPC assistance is presented in a country-specific alternative scenario.

C. External Debt Sustainability Analysis

Baseline

7. **Under the baseline scenario, Togo's external debt indicators remain above their relevant indicative thresholds demonstrating that the country is in debt distress** (Table 1a,

³ Arrears to IDA and AfDB were cleared in 2008. Togo has reached an agreement on arrears clearance with IFAD, OPEC and EIB. Togo is negotiating with BADEA. The IsDB has agreed in principle to provide relief but the modalities have not been defined yet. Togo has contacted FECEGE to ask for HIPC relief.

⁴ See "Staff Guidance Note on the Application of the Joint Bank-Fund Debt Sustainability Framework for Low-Income Countries" (www.imf.org and IDA/SECM2007/0226, 03/05/2007).

Figure 1). The present value (PV) of public and publicly guaranteed (PPG) debt equals to 49 percent of GDP in 2009 and remains above the 30 percent threshold until 2017. Both the PV of external debt relative to revenues and exports exceed their respective indicative threshold in 2014. Even if debt service ratios remain below their respective indicative thresholds over the whole projection period, the debt service-to-exports ratio comes close to the threshold in 2014 and 2015, stressing the need to reach the completion point and keeping a high degree of concessionality of Togo's future debt.

Alternative Scenarios and Stress Tests

8. **Togo's external debt outlook remains vulnerable to numerous shocks** (Table 1b, Figure 1). The PV of external debt to revenue and exports indicators deteriorate significantly under a variety of shocks, in particular the ones that assume a depreciation of the exchange rate and lower export growth. The most relevant test appears to be the B5 scenario, which combines a GDP shock and lower non-debt creating flows. Under the most extreme shock scenario, the PV-based indicators breach the indicative thresholds over a long period and the debt service indicators stay above the respective threshold for several years even with Togo's new borrowing assumed on highly concessional terms. The historical scenario shows all PV of debt indicators increasing strongly starting in 2018 and breaching the thresholds in the latter years. The U-shape of the historical scenario demonstrates that the current macroeconomic projections, supported by the current reform agenda, have a better outlook than the past figures, especially in terms of the real growth rate.

9. **Alternative scenarios assume additional delivery of debt relief at the completion point, which would significantly improve Togo's debt sustainability outlook** (Figure 2). Debt relief under the HIPC Initiative, MDRI and possible bilateral and multilateral beyond-HIPC assistance would significantly improve Togo's external debt outlook. Reaching the completion point, which is assumed to occur in 2010, and the resulting irrevocable debt relief would reduce all external debt indicators to levels below the relevant indicative thresholds.

D. Public Sector Debt Sustainability

Baseline

10. **The inclusion of Togo's large domestic public debt in the analysis emphasizes the vulnerability of the baseline scenario** (Table 2a, Figure 2). Togo's domestic debt burden is comparatively large, reflecting years of weak fiscal management and domestic arrears accumulation, as well as the need to recapitalize ailing banks. In addition, the recent SDR allocation worsens the key indicative ratios. The PV of total public debt is projected to remain relatively high over the next five year, hovering around 50 percent of GDP and 200 percent of revenues, respectively. Given the assumed improvement in the macroeconomic outlook and the projected high degree of concessionality of financing in the baseline scenario, debt ratios would nevertheless fall steadily over the long run.

Alternative Scenarios and Stress Tests

11. **The evolution of the debt indicators would be sensitive to a variety of shocks, which would increase the debt level and debt service over the long run.** Total public debt dynamics

are particularly vulnerable to a real depreciation, increases in debt-creating flows and to a lesser extent to a growth shock (Table 2b, Figure 2). This highlights the importance of a reform agenda that improves the business environment to support foreign investment and growth.

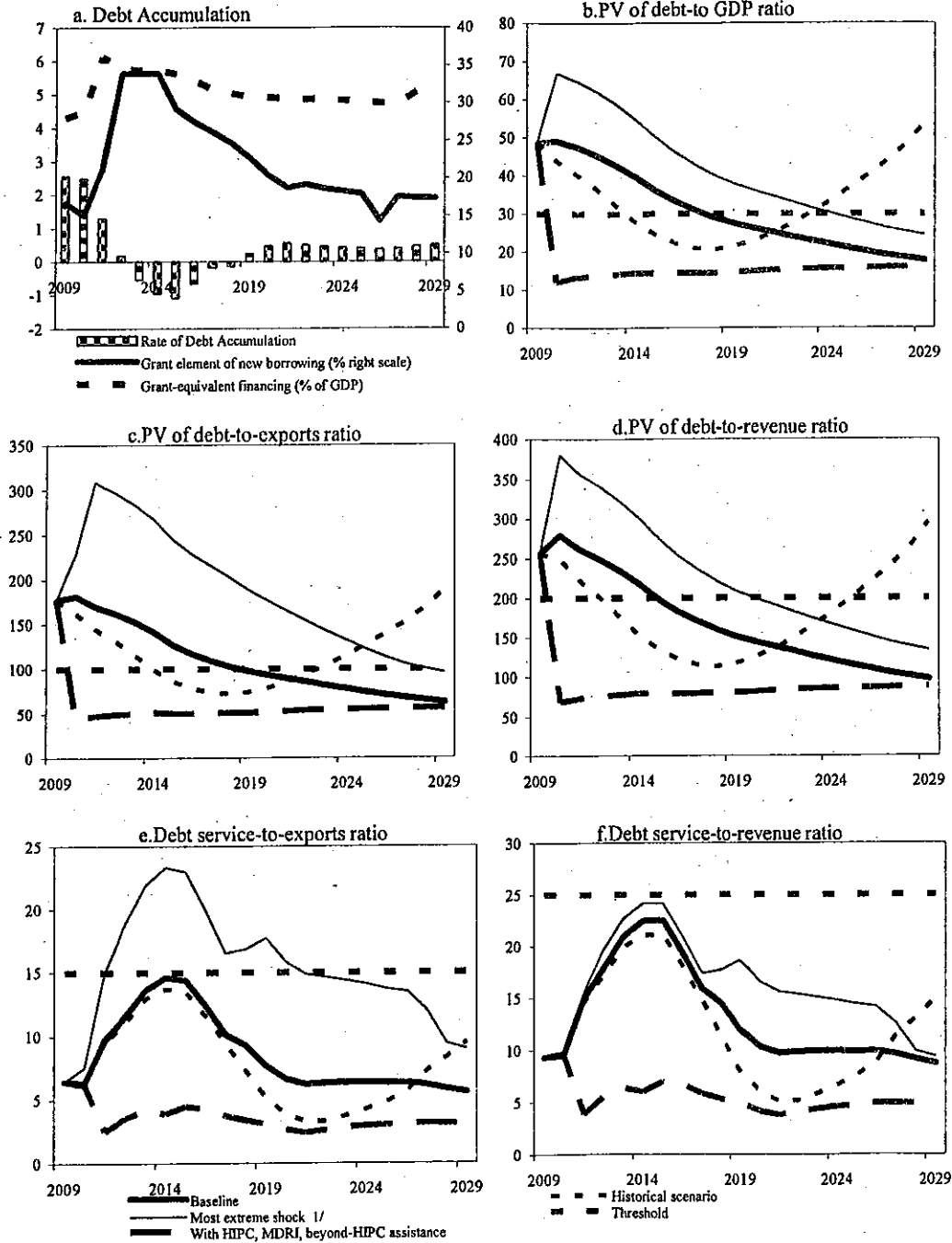
12. **Full delivery of HIPC relief, MDRI and beyond-HIPC relief at the assumed completion point reduces these vulnerabilities as shown in the alternative scenario.** All three PV-based indicators would be substantially lower than under the baseline and would decline further over the projection period.

E. Conclusion

13. **The DSA shows that Togo remains in debt distress, despite the large debt reduction achieved through recent arrears clearance and by reaching the decision point of the HIPC Initiative.** Togo has benefited from the HIPC interim assistance and large arrears clearance operations. Under the baseline scenario, the PV-based indicators remain well above their indicative thresholds for most of the projection period, emphasizing the importance for additional debt relief, which is expected upon reaching the completion point. Debt relief under the HIPC Initiative, MDRI and beyond-HIPC assistance significantly improves Togo's external debt outlook.

14. **Achieving a robust external debt outlook will depend on a sustained pick-up of real GDP growth, exports and foreign direct investment, as well as prudent debt management and solid fiscal performance.** Alternative scenarios and bound tests highlight the vulnerability of Togo's current external debt outlook. The inclusion of Togo's large domestic debt in the analysis reinforces the conclusions of the external DSA and stresses the risks to Togo's debt prospects. In this context, it is essential that the Togolese authorities continue current efforts to strengthen public finance management, restructure the banking system and promote financial development, reform state-owned enterprises, and improve the investment climate, hence laying the foundation for accelerating growth prospects.

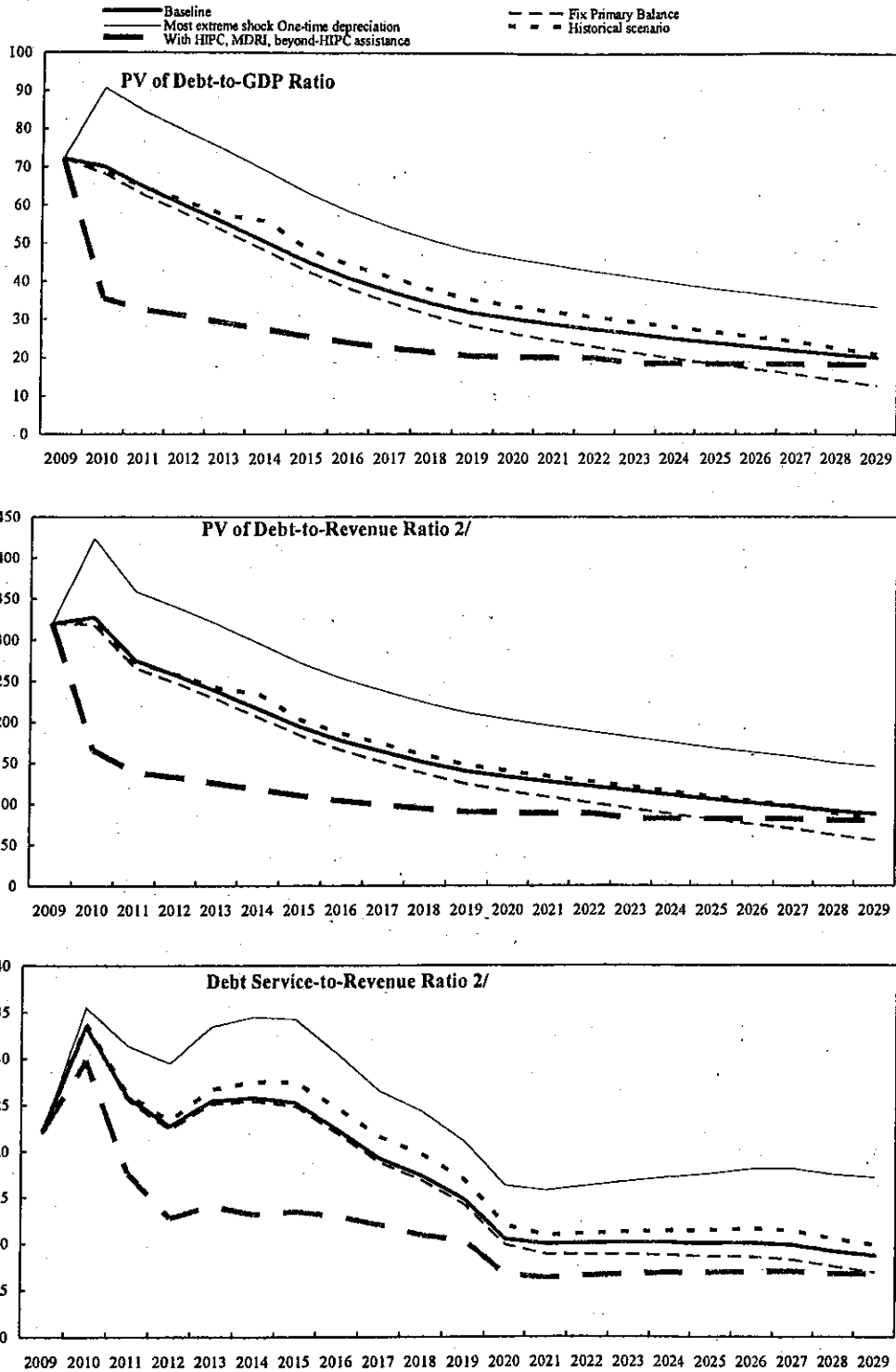
Figure 1. Togo: Indicators of Public and Publicly Guaranteed External Debt under Alternatives Scenarios, 2009-2029 1/



Sources: Country authorities; and staff estimates and projections.

1/ The most extreme stress test is the test that yields the highest ratio in 2019. In figure b. it corresponds to a With HIPC, MDRI, beyond-HIPC assistance shock; in c. to a With HIPC, MDRI, beyond-HIPC assistance shock; in d. to a With HIPC, MDRI, beyond-HIPC assistance shock and in figure f. to a With HIPC, MDRI, beyond-HIPC assistance shock

Figure 2.Togo: Indicators of Public Debt Under Alternative Scenarios, 2009-2029 1/



Sources: Country authorities; and staff estimates and projections.

1/ The most extreme stress test is the test that yields the highest ratio in 2019.

2/ Revenues are defined inclusive of grants.

Table 1b. Topo: Sensitivity Analysis for Key Indicators of Public and Publicly Guaranteed External Debt, 2009-2029
(In percent)

Baseline	Projections																					
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
PV of debt-to-GDP ratio																						
A. Alternative Scenarios																						
A1. Key variables at their historical averages in 2009-2029 1/	49	49	48	45	43	40	36	33	31	29	28	26	25	24	23	22	21	20	19	18	18	18
A2. New public sector loans on less favorable terms in 2009-2029 2	49	44	40	37	32	28	25	22	21	21	21	23	23	23	23	23	23	23	23	23	21	21
A3. Alternative Scenario: Full delivery of HIPC, MDRI, and beyond HIPC debt relief	49	50	50	48	46	43	40	37	36	34	33	33	32	32	32	32	32	32	32	33	33	33
A4. Alternative Scenario: Full delivery of HIPC, MDRI, and beyond HIPC debt relief	49	52	52	50	48	45	42	40	39	37	36	35	34	33	32	31	30	29	28	27	26	25
A5. Combination of B1-B4 using one-half standard deviation shocks	49	52	52	50	48	45	42	40	39	37	36	35	34	33	32	31	30	29	28	27	26	25
A6. One-time 30 percent nominal depreciation relative to the baseline in 2010 5/	49	67	65	62	59	55	50	46	43	40	38	36	35	33	32	30	29	28	26	25	24	24
B. Bound Tests																						
B1. Real GDP growth at historical average minus one standard deviation in 2010-2011	49	49	50	48	45	42	39	36	33	31	29	28	26	25	24	23	22	21	20	20	19	19
B2. Export value growth at historical average minus one standard deviation in 2010-2011 3/	49	51	50	48	45	42	39	36	33	31	29	28	26	25	24	23	22	21	20	20	19	18
B3. US dollar GDP deflator at historical average minus one standard deviation in 2010-2011 3/	49	52	52	50	48	45	42	40	39	37	36	35	34	33	32	31	30	29	28	27	26	25
B4. Net non-debt creating flows at historical average minus one standard deviation in 2010-2011 4/	49	47	45	42	40	39	36	34	32	31	29	28	27	26	25	24	23	22	21	21	21	21
B5. Combination of B1-B4 using one-half standard deviation shocks	49	52	52	50	48	45	42	40	39	37	36	35	34	33	32	31	30	29	28	27	26	25
B6. One-time 30 percent nominal depreciation relative to the baseline in 2010 5/	49	67	65	62	59	55	50	46	43	40	38	36	35	33	32	30	29	28	26	25	24	24
PV of debt-to-exports ratio																						
B. Bound Tests																						
A. Alternative Scenarios																						
A1. Key variables at their historical averages in 2009-2029 1/	177	181	170	162	153	142	127	117	109	102	97	93	89	85	81	77	74	71	67	65	65	65
A2. New public sector loans on less favorable terms in 2009-2029 2	177	162	145	131	115	99	86	78	74	72	74	79	86	95	105	116	128	140	153	169	189	189
A3. Alternative Scenario: Full delivery of HIPC, MDRI, and beyond HIPC debt relief	177	184	179	173	164	154	140	131	125	120	116	115	114	113	113	112	112	114	115	116	117	117
A4. Alternative Scenario: Full delivery of HIPC, MDRI, and beyond HIPC debt relief	177	44	47	49	50	51	50	50	51	51	51	51	52	53	54	55	55	55	56	56	56	56
A5. Combination of B1-B4 using one-half standard deviation shocks	177	176	166	158	150	139	126	116	108	101	96	91	87	83	80	76	72	69	66	63	61	61
A6. One-time 30 percent nominal depreciation relative to the baseline in 2010 5/	177	228	209	207	204	207	205	229	215	202	187	175	163	152	142	131	121	113	105	100	96	96
B1. Real GDP growth at historical average minus one standard deviation in 2010-2011	177	176	166	158	150	139	126	116	108	101	96	91	87	83	80	76	72	69	66	63	61	61
B2. Export value growth at historical average minus one standard deviation in 2010-2011 3/	177	176	166	158	150	139	126	116	108	101	96	91	87	83	80	76	72	69	66	63	61	61
B3. US dollar GDP deflator at historical average minus one standard deviation in 2010-2011 3/	177	173	161	153	145	134	127	111	103	97	92	88	85	81	78	74	71	68	65	63	61	61
B4. Net non-debt creating flows at historical average minus one standard deviation in 2010-2011 4/	177	193	220	211	201	188	171	158	148	139	130	123	117	110	104	98	92	87	82	78	75	75
B5. Combination of B1-B4 using one-half standard deviation shocks	177	176	166	158	150	139	126	116	108	101	96	91	87	83	80	76	72	69	66	63	61	61
B6. One-time 30 percent nominal depreciation relative to the baseline in 2010 5/	177	176	166	158	150	139	126	116	108	101	96	91	87	83	80	76	72	69	66	63	61	61
PV of debt-to-revenue ratio																						
B. Bound Tests																						
A. Alternative Scenarios																						
A1. Key variables at their historical averages in 2009-2029 1/	256	279	261	249	235	218	198	183	171	160	152	145	139	133	127	121	116	111	106	102	98	98
A2. New public sector loans on less favorable terms in 2009-2029 2	256	249	232	201	177	153	135	122	115	113	114	124	135	148	164	181	200	219	239	264	295	295
A3. Alternative Scenario: Full delivery of HIPC, MDRI, and beyond HIPC debt relief	256	283	275	266	252	236	219	205	195	187	182	179	178	177	177	176	176	178	179	181	184	184
A4. Alternative Scenario: Full delivery of HIPC, MDRI, and beyond HIPC debt relief	256	68	73	76	77	79	79	79	79	79	80	81	83	84	85	86	86	86	87	87	88	88
A5. Combination of B1-B4 using one-half standard deviation shocks	256	279	261	249	235	218	198	183	171	160	152	145	139	133	127	121	116	111	106	102	98	98
A6. One-time 30 percent nominal depreciation relative to the baseline in 2010 5/	256	279	261	249	235	218	198	183	171	160	152	145	139	133	127	121	116	111	106	102	98	98
B. Bound Tests																						
A. Alternative Scenarios																						
A1. Key variables at their historical averages in 2009-2029 1/	256	280	275	263	249	232	212	196	182	171	161	154	148	141	135	128	122	117	112	107	103	103
A2. New public sector loans on less favorable terms in 2009-2029 2	256	253	236	212	187	163	144	130	120	112	107	104	103	102	101	100	99	98	97	96	95	95
A3. Alternative Scenario: Full delivery of HIPC, MDRI, and beyond HIPC debt relief	256	283	275	266	252	236	219	205	195	187	182	179	178	177	177	176	176	178	179	181	184	184
A4. Alternative Scenario: Full delivery of HIPC, MDRI, and beyond HIPC debt relief	256	256	246	236	223	207	189	174	166	158	151	144	138	132	127	122	117	112	107	102	99	95
A5. Combination of B1-B4 using one-half standard deviation shocks	256	256	246	236	223	207	189	174	166	158	151	144	138	132	127	122	117	112	107	102	99	95
A6. One-time 30 percent nominal depreciation relative to the baseline in 2010 5/	256	280	275	263	249	232	212	196	182	171	161	154	148	141	135	128	122	117	112	107	103	103
B1. Real GDP growth at historical average minus one standard deviation in 2010-2011	256	280	275	263	249	232	212	196	182	171	161	154	148	141	135	128	122	117	112	107	103	103
B2. Export value growth at historical average minus one standard deviation in 2010-2011 3/	256	283	275	266	252	236	219	205	195	187	182	179	178	177	177	176	176	178	179	181	184	184
B3. US dollar GDP deflator at historical average minus one standard deviation in 2010-2011 3/	256	256	246	236	223	207	189	174	166	158	151	144	138	132	127	122	117	112	107	102	99	95
B4. Net non-debt creating flows at historical average minus one standard deviation in 2010-2011 4/	256	296	319	307	292	273	253	234	218	203	193	186	180	174	168	162	156	150	144	138	132	126
B5. Combination of B1-B4 using one-half standard deviation shocks	256	296	319	307	292	273	253	234	218	203	193	186	180	174	168	162	156	150	144	138	132	126
B6. One-time 30 percent nominal depreciation relative to the baseline in 2010 5/	256	280	275	263	249	232	212	196	182	171	161	154	148	141	135	128	122	117	112	107	103	103

Table 1b Top: Sensitivity Analysis for Key Indicators of Public and Publicly Guaranteed External Debt, 2009-2029 (continued)

	Debt service-to-exports ratio (in percent)																	
	6	6	10	12	14	15	14	12	10	9	8	7	6	6	6	6	6	6
A. Alternative Scenarios																		
A1. Key variables at their historical averages in 2009-2029 1/	6	6	9	11	13	14	13	12	9	7	5	4	3	3	4	4	5	6
A2. New public sector loans on less favorable terms in 2009-2029 2/	6	6	10	12	14	15	14	13	12	11	9	9	9	9	10	10	11	12
A3. Alternative Scenario: full delivery of HIPC, MDRI, and beyond HIPC debt relief	6	6	3	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3
B. Bonded Tests																		
B1. Real GDP growth at historical average minus one standard deviation in 2010-2011	6	6	10	12	14	15	14	12	10	9	8	7	6	6	6	6	6	6
B2. Export value growth at historical average minus one standard deviation in 2010-2011 3/	6	8	15	19	22	23	23	20	17	17	18	16	15	15	14	14	13	12
B3. US dollar GDP deflator at historical average minus one standard deviation in 2010-2011 3/	6	6	10	12	14	15	14	12	10	9	8	7	6	6	6	6	6	6
B4. Net non-debt creating flows at historical average minus one standard deviation in 2010-2011 4/	6	6	10	11	13	14	14	12	10	9	7	6	6	6	6	6	6	5
B5. Combination of B1-B4 using one-half standard deviation shocks	6	7	12	15	17	18	18	15	13	12	11	10	9	9	9	9	8	7
B6. One-time 30 percent nominal depreciation relative to the baseline in 2010 5/	6	6	10	12	14	15	14	12	10	9	8	7	6	6	6	6	6	5
Baseline	9	10	15	18	21	22	23	19	16	14	12	10	10	10	10	10	10	9
A. Alternative Scenarios																		
A1. Key variables at their historical averages in 2009-2029 1/	9	10	15	17	20	21	21	18	15	11	8	6	5	5	6	7	8	11
A2. New public sector loans on less favorable terms in 2009-2029 2/	9	10	15	19	22	24	23	21	19	17	15	14	14	14	13	16	15	17
A3. Alternative Scenario: full delivery of HIPC, MDRI, and beyond HIPC debt relief	9	10	4	5	6	6	7	7	6	5	5	4	4	4	4	5	5	5
B. Bonded Tests																		
B1. Real GDP growth at historical average minus one standard deviation in 2010-2011	9	10	16	19	23	24	24	21	17	16	13	11	10	11	11	11	10	9
B2. Export value growth at historical average minus one standard deviation in 2010-2011 3/	9	10	16	20	23	24	24	21	17	18	19	17	16	15	15	14	14	13
B3. US dollar GDP deflator at historical average minus one standard deviation in 2010-2011 3/	9	11	18	21	25	26	27	23	19	17	14	12	11	12	12	11	11	10
B4. Net non-debt creating flows at historical average minus one standard deviation in 2010-2011 4/	9	10	15	18	21	22	22	19	16	14	11	10	9	9	9	9	9	8
B5. Combination of B1-B4 using one-half standard deviation shocks	9	10	17	21	25	26	26	23	19	18	17	15	14	14	14	13	13	11
B6. One-time 30 percent nominal depreciation relative to the baseline in 2010 5/	9	14	21	25	29	31	31	27	22	20	17	14	14	14	14	14	13	12
Memorandum items:																		
Grant element assumed on residual financing (i.e., financing required above baseline) 6/	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14

Sources: Country authorities, and staff estimates and projections.

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

2/ Assumes that the debt service-to-exports ratio is higher than in the baseline, while these and maturity periods are the same as in the baseline.

3/ Export values are assumed to remain permissible at the lowest level, but the current account is assumed to return to its baseline level after the shock (implicitly assuming an offsetting adjustment in import levels).

4/ Includes official and private transfers and FDI.

5/ Depreciation is defined as percentage decline in dollar/real currency rate, such that it never exceeds 100 percent.

6/ Applies to all stress scenarios except for A2 (less favorable financing) in which the terms on all new financing are as specified in footnote 2.

Table 2a. Togo: Public Sector Debt Sustainability Framework, Baseline Scenario, 2006-2029
(in percent of GDP, unless otherwise indicated)

	Actual			Estimate							Projections				
	2006	2007	2008	Average	Standard Deviation	2009	2010	2011	2012	2013	2014	2015-14 Average	2019	2029	2015-29 Average
Public sector debt 1/ o/w foreign-currency denominated	117.8	110.2	85.7			81.7	79.3	73.4	68.4	63.5	58.1	56.5	38.3	25.8	
Change in public sector debt	89.7	82.1	60.6			58.1	58.2	56.4	53.9	50.9	47.5	47.5	34.2	23.6	
Identified debt-creating flows	3.0	-7.5	-24.6			-3.9	-2.5	-5.8	-5.0	-4.9	-5.3	-5.3	-2.7	-0.8	
Primary deficit	-10.0	-10.8	-19.9	-0.3	2.0	-4.7	-1.7	-3.3	-2.4	-2.1	-2.3	-2.3	-1.7	-0.9	
Revenue and grants of which: grants	18.3	18.7	19.4			22.6	21.4	23.5	23.3	23.3	23.3	23.3	22.7	22.9	0.2
Primary (noninterest) expenditure	20.0	18.4	18.8			3.6	3.8	5.3	5.1	5.1	5.1	5.1	4.5	4.7	
Automatic debt dynamics	-11.6	-10.5	-0.9			22.3	23.1	23.4	23.2	23.2	23.2	23.2	22.9	23.4	
Contribution from interest rate/growth differential	-2.5	-1.5	-7.8			-2.8	-2.4	-3.2	-2.3	-1.9	-2.2	-2.2	-1.9	-1.3	
of which: contribution from average real interest rate	1.8	0.8	-5.9			-1.9	-2.9	-3.6	-2.8	-2.5	-2.7	-2.7	-1.9	-1.3	
of which: contribution from real GDP growth	-4.4	-2.3	-1.9			0.2	-0.9	-0.7	0.0	0.1	-0.3	-0.3	-0.4	-0.3	
Contribution from real exchange rate depreciation	-9.1	-9.1	6.9			-2.1	-2.1	-2.9	-2.8	-2.6	-2.4	-2.4	-1.5	-1.0	
Other identified debt-creating flows	-0.1	0.0	-18.4			-0.9	0.5	0.4	0.6	0.5	0.5	0.5	0.0	0.0	
Privatization receipts (negative)	-0.1	0.0	0.0			-1.7	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Recognition of implicit or contingent liabilities	0.0	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	0.0	-18.4			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other (specify, e.g. bank recapitalization)	0.0	0.0	0.0			-1.7	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Residual, including asset changes	13.0	3.3	-4.7			0.8	-0.8	-2.6	-2.6	-2.8	-3.0	-3.0	-1.0	0.0	
Other Sustainability Indicators															
PV of public sector debt	28.1	28.1	73.5			72.2	70.1	64.6	59.9	55.3	50.3	50.3	31.7	20.1	
o/w foreign-currency denominated	0.0	0.0	48.5			48.6	49.1	47.5	45.4	42.7	39.6	39.6	27.6	17.8	
o/w external	...	...	48.5			48.6	49.1	47.5	45.4	42.7	39.6	39.6	27.6	17.8	
PV of contingent liabilities (not included in public sector debt)	...	...	...			...	...	...	...	...	...	...	...	...
Gross financing need 2/	6.3	4.3	4.2			4.7	8.9	6.0	5.2	5.8	5.8	5.8	3.6	2.5	
PV of public sector debt-to-revenue and grants ratio (in percent)	153.8	150.5	379.5			370.1	377.5	274.8	256.4	237.0	215.8	215.8	139.7	87.7	
PV of public sector debt-to-revenue ratio (in percent)	166.4	165.5	432.6			380.8	399.2	274.8	256.4	237.0	215.8	215.8	174.3	110.4	
o/w external 3/	...	...	285.1			256.2	279.3	261.2	249.3	234.9	217.8	217.8	151.3	97.9	
Debt service-to-revenue and grants ratio (in percent) 4/	25.1	24.9	24.8			22.1	33.5	25.8	22.7	25.4	23.8	23.8	14.8	8.7	
Debt service-to-revenue ratio (in percent) 4/	27.1	27.4	28.2			26.3	40.9	33.4	29.2	32.6	33.1	33.1	18.5	11.0	
Primary deficit that stabilizes the debt-to-GDP ratio	-1.3	7.2	24.0			3.7	4.2	5.7	4.9	4.8	5.1	5.1	2.9	1.3	
Key macroeconomic and fiscal assumptions															
Real GDP growth (in percent)	3.9	1.9	1.8	1.5	2.2	2.5	2.6	3.8	4.0	4.0	3.9	3.9	3.4	3.8	4.1
Average nominal interest rate on forex debt (in percent)	2.3	2.3	0.6	1.9	0.7	0.7	0.8	1.8	2.0	1.9	1.8	1.8	1.5	1.7	1.6
Average real interest rate on domestic debt (in percent)	0.5	-0.2	-5.3	-1.7	3.2	2.1	0.5	-0.3	0.6	0.8	0.1	0.6	-1.9	-1.6	-1.3
Real exchange rate depreciation (in percent, + indicates depreciation)	-10.3	-10.2	9.0	-4.4	10.9	-1.5	...	...	...	...	...	...	...	...	...
Inflation rate (GDP deflator, in percent)	0.3	1.3	6.5	2.4	5.4	1.3	2.6	3.0	2.2	1.9	2.5	2.2	2.3	2.5	2.5
Growth of real primary spending (deflated by GDP deflator, in percent)	0.1	-0.1	0.0	0.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
Grant element of new external borrowing (in percent)	...	...	...	...	...	16.7	15.1	21.2	33.9	33.9	33.9	33.9	25.8	22.7	17.4

Sources: Country authorities; and staff estimates and projections.

1/ Covers public and publicly guaranteed debt including state-owned enterprises debt.

2/ 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.

3/ Revenues excluding grants.

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

5/ Historical averages and standard deviations are generally derived over the past 10 years, subject to data availability.

Table 2b. Togo: Sensitivity Analysis for Key Indicators of Public Debt 2009-2029

	Projections									
	2009	2010	2011	2012	2013	2014	2019	2029		
PV of Debt-to-GDP Ratio										
Baseline	72	70	65	60	55	50	32	20		
A. Alternative scenarios										
A1. Real GDP growth and primary balance are at historical averages	72	69	64	61	57	56	35	21		
A2. Primary balance is unchanged from 2009	72	68	62	58	53	48	28	13		
A3. Permanently lower GDP growth 1/	72	71	65	61	57	53	38	39		
A4. Alternative Scenario: With HIPC, MDRI, Beyond-HIPC assistance	72	35	35	35	35	35	35	35		
B. Bound tests										
B1. Real GDP growth is at historical average minus one standard deviations in 2010-2011	72	73	72	68	65	61	47	45		
B2. Primary balance is at historical average minus one standard deviations in 2010-2011	72	70	66	62	57	52	33	21		
B3. Combination of B1-B2 using one half standard deviation shocks	72	71	68	64	60	56	41	36		
B4. One-time 30 percent real depreciation in 2010	72	91	84	79	74	69	48	33		
B5. 10 percent of GDP increase in other debt-creating flows in 2010	72	80	74	70	65	60	40	27		
PV of Debt-to-Revenue Ratio 2/										
Baseline	320	327	275	256	237	216	140	88		
A. Alternative scenarios										
A1. Real GDP growth and primary balance are at historical averages	320	321	272	258	241	234	147	82		
A2. Primary balance is unchanged from 2009	320	318	266	247	227	206	124	56		
A3. Permanently lower GDP growth 1/	320	329	278	261	244	223	165	165		
A4. Alternative Scenario: With HIPC, MDRI, Beyond-HIPC assistance	320	166	139	133	125	118	90	80		
B. Bound tests										
B1. Real GDP growth is at historical average minus one standard deviations in 2010-2011	320	339	300	287	272	256	205	192		
B2. Primary balance is at historical average minus one standard deviations in 2010-2011	320	327	283	264	245	223	147	93		
B3. Combination of B1-B2 using one half standard deviation shocks	320	328	286	271	255	237	178	156		
B4. One-time 30 percent real depreciation in 2010	320	424	359	339	319	296	211	146		
B5. 10 percent of GDP increase in other debt-creating flows in 2010	320	374	317	298	278	257	177	117		
Debt Service-to-Revenue Ratio 2/										
Baseline	22	34	26	23	25	26	15	9		
A. Alternative scenarios										
A1. Real GDP growth and primary balance are at historical averages	22	34	26	23	27	28	17	10		
A2. Primary balance is unchanged from 2009	22	34	26	22	25	25	14	7		
A3. Permanently lower GDP growth 1/	22	34	26	23	26	26	16	13		
A4. Alternative Scenario: With HIPC, MDRI, Beyond-HIPC assistance	22	30	18	13	14	13	10	7		
B. Bound tests										
B1. Real GDP growth is at historical average minus one standard deviations in 2010-2011	22	34	28	24	28	28	18	15		
B2. Primary balance is at historical average minus one standard deviations in 2010-2011	22	34	26	23	26	26	15	9		
B3. Combination of B1-B2 using one half standard deviation shocks	22	34	27	24	27	27	17	13		
B4. One-time 30 percent real depreciation in 2010	22	35	31	29	33	34	21	17		
B5. 10 percent of GDP increase in other debt-creating flows in 2010	22	34	27	25	27	27	16	12		

Sources: Country authorities; and staff estimates and projections.
 1/ Assumes that real GDP growth is at baseline minus one standard deviation divided by the square root of the length of the projection period.
 2/ Revenues are defined inclusive of grants.

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