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The role of public finances in sovereign ratings An application to Latvia (A3 stable)

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Agenda

- 1. Moody's Methodology & Rating Process
- 2. Economy, institutions and event risk
- 3. Public finances
- 4. Latvia's Credit Rating History and peer comparison
- 5. Appendix



Moody's Methodology & Rating Process

Ratings Measure Credit Risk

- » Ratings are forward-looking opinions of expected loss for private sector investors
- » Outlooks are opinions regarding the likely rating direction over the medium term
 - Positive (POS), Negative (NEG), Stable (STA), Review for Upgrade/Downgrade (RUR+/RUR-) and Developing (DEV)
- » We use clearly defined symbols that provide a common language globally
- » Opinions rely on **both quantitative and qualitative analysis**
- » Main vehicle of communication: Press Releases, Credit Opinions and Credit Analysis publications



Moody's Sovereign Methodology

Sovereign Rating Methodology is Based on Four Analytical Factors

Economic Strength

How strong is the economic structure?

Reflects a **country's shockabsorption capacity**. The capacity of the sovereign to generate revenue and service debt over the medium term relies upon fostering economic growth and prosperity.

INDICATORS / SCORES

- 1) growth dynamics (average real GDP growth, MAD volatility)
- 2) scale of the economy (nominal GDP)
- 3) wealth (GDP per capita, PPP)

Institutions and Governance Strength

How robust are the institutions and how predictable are the policies?

Considers whether the country's institutional features are conducive to supporting the sovereign's ability and willingness to repay its debt.

INDICATORS / SCORES

- 1) quality of institutions (qualitative assessment)
- 2) policy effectiveness (qualitative assessment)

Fiscal Strength

How does the debt burden compare with the government's resource mobilization capacity?

Captures the overall health of government finances. Assesses a sovereign's ability to deploy resources to face current and expected liabilities.

INDICATORS / SCORES

- 1) debt burden (debt-to-GDP, debt-to-revenues)
- 2) debt affordability (interest payments-to-GDP, interest payments-to-revenue)

Susceptibility to Event Risk

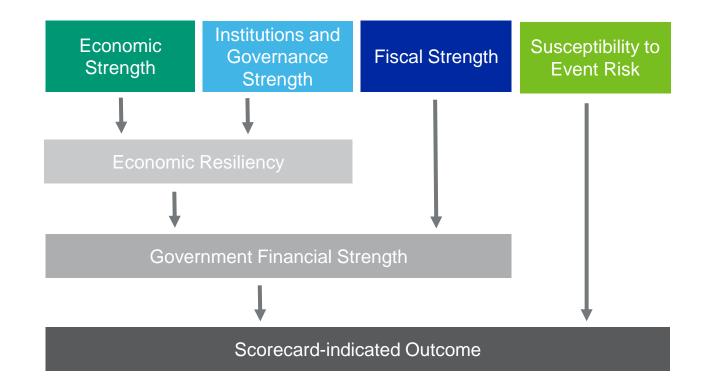
What is the risk of a direct and sudden threat to the fundamental credit profile?

Denotes **the risk that sudden**, **extreme**, **events may severely strain public finances**, thus sharply increasing the sovereign's probability of default.

INDICATORS / SCORES

- 1) political risk (qual.)
- 2) government liquidity risk (qual.)
- 3) banking sector risk (banking sector size, average bca)
- 4) external vulnerability risk (qual.)

Approach to Assessing Sovereign Credit Quality Scorecard Outcome is Only a Starting Point for Rating Assignment



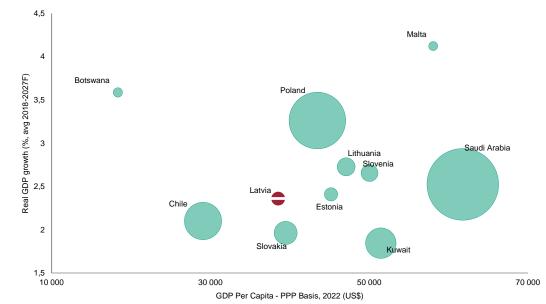


Economy, institutions and event risk

Economic Strength: "baa2"

Latvia is a small open economy mainly reliant on goods exports

- » With nominal GDP of around \$41 billion in 2022, Latvia's economy is the 4th smallest in the EU.
- The country's small size and the economy's very open nature make Latvia vulnerable to economic shocks. Record-high inflation has hit the economy in 2022, ongoing challenge despite some easing as energy prices decline.
- » Moreover, population decline remain a significant long-term challenge for the labour market and the economy.
- » However, these risks are balanced by the economy's demonstrated flexibility and adaptability.



Note: Size of the bubble = Nominal GDP (US\$ billion) in 2022 Sources: National authorities, Moody's Investors Service

Latvia's GDP trend growth is in line with global peers

Bubble size represents the size of nominal GDP

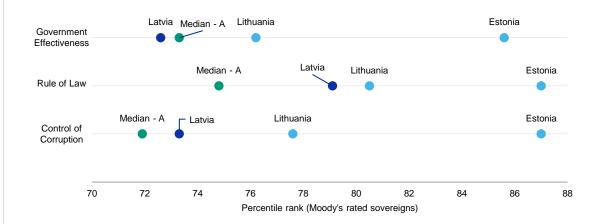
Institutions and Governance Strength: "a2"

Integration into Western institutional structures continues to support institutional environment

- » Latvia's "a2" institutions ad governance strength score reflects the country's membership of the EU and the euro area as well as the government's track record of effectively reacting to major policy challenges.
- The strength of Latvia's institutions is also reflected in its comparatively high scores on the World Bank's Worldwide Governance Indicators for government effectiveness and rule of law.

Latvia scores broadly in line with rated peers on government effectiveness and rule of law

WGI scores, percentile rank



Sources: Worldwide Governance Indicators, Moody's Investors Service

Susceptibility to Event Risk: "ba"

The Russian invasion of Ukraine has increased geopolitical risks for Latvia

- Susceptibility to event risk evaluates a country's vulnerability to the risk that sudden events may severely strain public finances, thus increasing the country's probability of default.
- » Such risks include political, government liquidity, banking sector and external vulnerability risks.
- » Latvia's susceptibility to event risk reflects the **political risk** driven by the Russian invasion in Ukraine (Ca stable) that marks a paradigm shift in the post-Cold War European security order.



Public finances

Fiscal Strength: the "third pillar"

Economic resiliency and fiscal strength determine a government's financial strength

Exhibit 10 Government financial strength

											Fiscal S	trength									
		3 8 3	aa1	a aZ	a a 3	al	a2	a3	b aa 1	baa2	baa3	ba1	b a2	ba3	Б1	62	63	cala	caa2	caa3	C3.
	333	0.80	333	0.80	333	3 83	aal	aal	aal	aal	aal	aal	aal	aa2	aa2	aa2	aa2	aa2	aa2	aa3	aa3
	aal	aal	aal	aal	aal	aal	aai	aal	aa2	aa2	aa2	aa2	aa2	aa2	a a 2	a a3	a a3	aa3	a a3	a a3	a a3
	aa2	aal	aal	aa2	aa2	a a 2	aa2	aa2	aa2	aa2	333	aa3	a a3	aa3	a a3	a a 3	a a3	all	a1	a1	a1
	a a 3	aaZ	aa2	aaZ	aa2	a aB	aa3	aa3	aa3	a a3	aa3	aa3	a1	a1	a1	a1	a1	all	a1	a2	aZ
	all	aa2	aa2	a a3	aa3	a aB	aa3	a1	a1	a1	a1	a2	<u>a2</u>	<u>a2</u>	a2	aЭ	a3	a3	a3	baal	b aa1
	aZ	a a3	aa3	a a3	all	a1	a1	a1	a2	a2	a2	a2	a3	a3	a3	aЗ	b aa 1	baal	baal	baal	baa2
	a3	a a3	all	al	all	a1	a2	a2	a2	a2	a3	a3	a3	a3	b aa 1	baal	b aa 1	baal	baa2	baa2	baa2
	b aa1	al	all	a2	a2	a2	a2	a3	aЭ	a3	a3	baal	baa1	b aa1	b aa 1	baa2	baa2	baa2	baa2	baa3	baa3
	baa2	a1	al	<u>a2</u>	a2	a2	a3	a3	aЗ	b aa1	baal	baal	baa2	baa2	baa2	baa3	baa3	baa3	ball	ba1	ba1
Economic	baa3	al	a2	a2	a2	a3	a3	a3	b aa 1	b aa1	baal	baa2	baa2	baa3	baa3	baa3	ball	ba1	ba1	ba2	ba2
Resiliency	ba1	a2	a2	a3	a3	a3	b aa1	b aa 1	b aa 1	baa2	baa2	baa2	baa3	baa3	baa3	ba1	ba1	ba1	ba2	b a2	ba2
	ba2	a2	a3	a3	a3	baal	b aa 1	b aa 1	baa2	baa2	baa2	baa3	baa3	bal	bal	ba1	b a2	ba2	b a2	b a3	b aB
	b a3	b aa 1	baal	baa2	baa2	baa2	baa2	baa3	baa3	baa3	baa3	ba1	bal	bal	bal	ba2	b a2	ba2	b a2	b a3	b aB
	61	baa2	baa2	baa2	baa2	baa3	ba aB	baa3	ba a3	ba1	ba1	ba1	ba1	ba2	b a2	ba2	b a2	b a3	b aB	b a3	b aB
	b2	baa2	baa2	baa3	baa3	baa3	ba a3	ba1	ba1	ba1	ba1	ba2	baZ	ba2	b a2	b a3	b a3	b a3	b aB	61	61
	bЗ	baa3	baa3	baa3	ba1	ba1	ba1	ba1	ba2	ba2	ba2	ba2	b a3	ba3	b a3	b a3	61	61	61	61	b2
	ca a1	b a2	ba2	b a2	ba2	b aB	ba3	b a3	b a3	b a3	ba3-	61	61	61	61	61	61	61	62	b 2	b2
	caa2	b a3	ba3	b a3	b a3	b aB	ba3	Ь1	Ы	Б1	Ы	Б1	Ы	62	62	62	62	62	62	62	63
	caa3	b a3	61	61	61	61	61	61	61	62	62	62	62	62	62	63	63	63	63	63	63
	ca	61	61	61	62	62	b2	62	62	b2	62	63	b3	63	63	63	63	caal	caal	cala	caal

Source: Moody's Investors Service

Debt-to-GDP ratio to remain below the median of single-A rated peers.

- » Latvia's "aa3" score for fiscal strength reflects the government's moderate debt burden and very strong debt affordability metrics.
- » Latvia's ability to issue in an international currency is a key credit strength.
- » That said, affordability ratios are expected to weaken as monetary policy continues to normalize.

Debt burden is below A-rated peers

General government debt as % of GDP

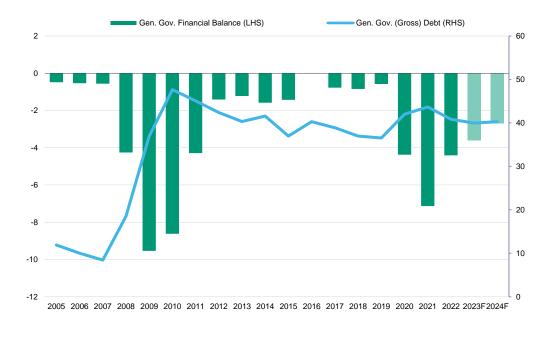


Limited scarring from the pandemic and the energy crisis.

- » Following almost a decade of very low deficits, large shock from pandemic and energy crisis on the general government balance.
- » However, relatively limited impact on the debt burden due to high nominal GDP growth.
- » Contrary to the Great recession, the pandemic and the energy crisis have left limited scarring on Latvia's public finances.

Debt burden is returning to pre-pandemic levels

General government balance debt as % of GDP



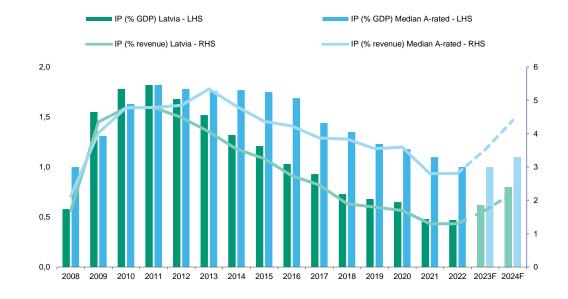
Sources: Eurostat, Moody's Investors Service

Tightening financial conditions to only gradually weaken debt affordability.

- » Cost of debt has declined substantially since 2012, and significantly more in Latvia compared to rating peers.
- Turn in the monetary policy cycle has already led to a tightening in financing conditions, which we expect to continue in the coming years.
- » However, we expect Latvia's debt affordability to remain strong given the long average maturity (>7 years).

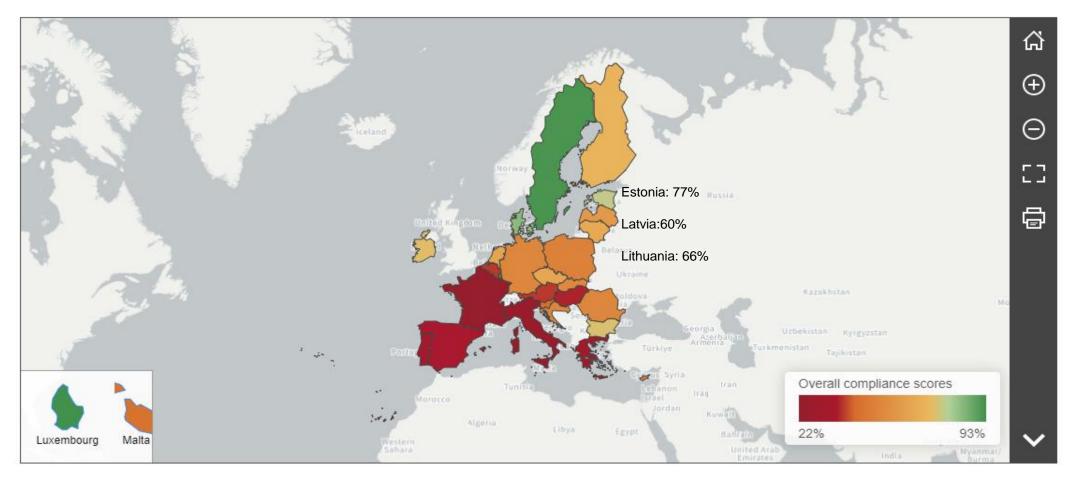
Cost of debt is rising after a decade of decline

Interest payments as % of GDP and revenues



Sources: Eurostat, Moody's Investors Service

Strong fiscal effectiveness puts compliance above the EU's average (50%).



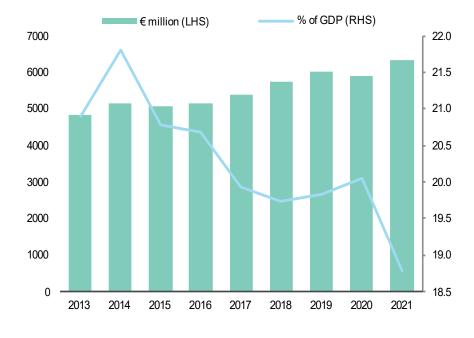
Sources: European Fiscal Board Compliance Tracker

Relatively high debt of State-owned enterprises are a constraint.

- » SOE debt amounted to 18.8% of GDP in 2021, down from a peak of 21.8% of GDP in 2014.
- » This relates primarily to public utilities (Latvenergo) and transport company (Latvian Railways). There are also around 300 companies, mostly local utilities, with low debt (less than €50 million each).
- » For this reason, we apply a -1 adjustment.

SOE debt is falling in relative terms, but remains elevated

Liabilities of government-controlled entities outside general government as % of GDP, non-financial activities



Sources: Eurostat, Moody's Investors Service

Fiscal Strength: "aa3" Peer Comparison

Peer comparison table factor 3: Fiscal s	trength							
	Latvia	aa3 Median	Korea	Bulgaria	Czech Republic	Lithuania	Sweden	Slovakia
	A3/STA		Aa2/STA	Baa1/STA	Aa3/NEG	A2/STA	Aaa/STA	A2/NEG
Final score	aa3		aa3	aa3	aa3	aa2	aa2	a1
Initial score	aa2		aa3	aa2	aa3	aa2	aa2	a1
Gen. gov. debt (% of GDP)	40.8	40.8	49.4	22.9	44.1	38.4	33.0	57.8
Gen. gov. debt (% of revenue)	114.0	114.0	172.8	59.4	107.7	107.2	67.5	143.6
Gen. gov. interest payments (% of GDP)	0.5	0.5	1.0	0.5	1.2	0.4	0.5	1.0
Gen. gov. int. payments (% of revenue)	1.3	2.8	3.5	1.2	2.8	1.0	1.0	2.6

Sources: National authorities, IMF, Moody's Investors Service

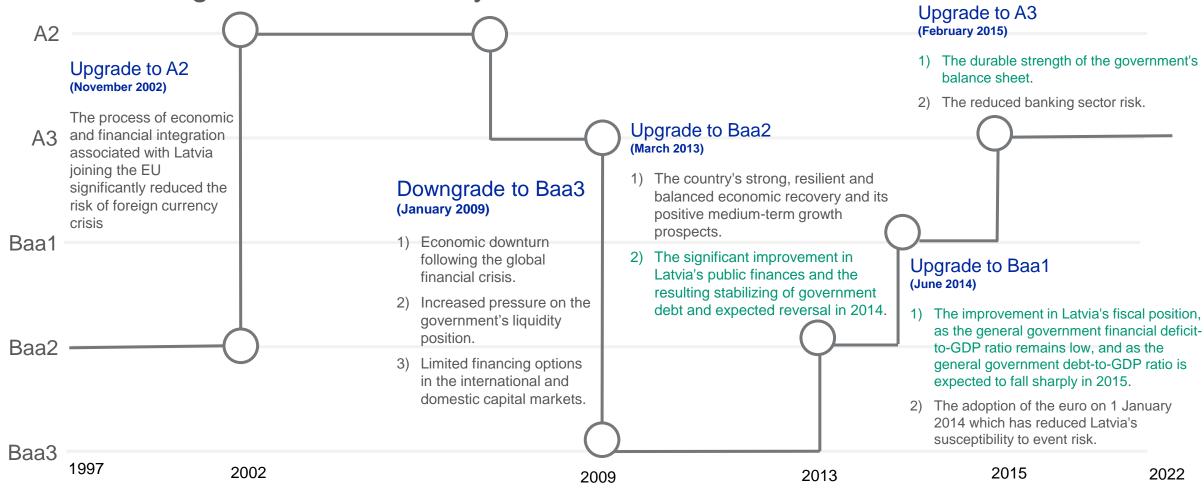
- » Although the pandemic led to a rise in debt from 2019 to 2021, we expect Latvia's debt-to-GDP ratio to remain broadly in line with the median of single-A rated peers.
- The country's comparatively high level of debt related to state owned enterprises (SOEs) weighs on our assessment of fiscal strength, explaining the one-notch gap difference with the scorecard-indicated outcome of "aa2".
- » Latvia's fiscal strength is in line with Australia (Aaa stable) and Bulgaria (Baa1 stable).



Latvia's Credit Rating – History and peer Comparison

Bringing it all together

Latvia's rating has been raised by three notches since 2009



Latvia's peer group Ratings Provide a Relative Rank-ordering

- » Peer comparisons are important in rating committees, ratings provide a relative rank-ordering
- Latvia's closest peers are sovereigns with similar credit profiles in the region but also globally
- » Relative to global peers, Latvia has stronger institutions, but higher geopolitical risk.

Regional Peers	Global Peers
» Lithuania (A2 stable)	» Bermuda (A2 stable)
» Poland (A2 stable)	» Botswana (A3 stable)
» Slovenia (A3 stable)	» Malaysia (A3 stable)
» Spain (Baa1 stable)	» Peru (Baa1 negative)
» Bulgaria (Baa1 stable)	» Thailand (Baa1 stable)

Peer Comparison with Similarly-rated Sovereigns Detailed Peer Comparison

	Year	Latvia	Lithuania	Slovenia	Malta	Poland	Bulgaria	A3 Median	Central & Eastern Europe and CIS Median
Rating/outlook		A3/STA	A2/STA	A3/STA	A2/STA	A2/STA	Baa1/STA	A3	Ba1
Scorecard-indicated outcome		A1- A3	Aa3 - A2	A1- A3	A1- A3	A1- A3	A2 - Baa1	A2 - Baa1	Baa3 - Ba2
Factor 1		baa2	baa1	baa1	baa1	a1	baa3	baa1	baa3
Nominal GDP (\$ bn)	2022	41.1	70.2	62.0	17.7	690.7	88.9	51.6	70.2
GDP per capita (PPP, Intl\$)	2022	38,545	47,107	50,059	58,072	43,480	30,216	36,468	30,216
Avg. real GDP (% change)	2018 - 2027F	2.4	2.7	2.7	4.1	3.3	2.8	3.1	2.9
MAD Volatility in real GDP growth (ppts)	2013 - 2022	0.7	1.1	1.3	2.1	1.1	0.8	1.0	1.2
Factor 2		a2	a1	a2	a3	a3	baa1	a2	baa3
Quality of legislative & executive institutions	Latest available	а	а	а	baa	а	baa	а	ba
Strength of civil society & judiciary	Latest available	а	а	а	baa	ba	ba	а	ba
Fiscal policy effectiveness	Latest available	а	аа	а	а	а	а	а	baa
Monetary & macro policy effectiveness	Latest available	а	а	а	а	а	а	а	baa
Gen. gov. fiscal balance (% of GDP)	2022 - 2024F	-3.6	- 1.8	- 3.3	-5.2	- 4.2	-2.9	- 3.5	- 3.2
Average inflation (% change)	2018 - 2027F	4.6	5.0	3.3	2.5	5.2	4.5	3.9	5.2
Volatility of inflation (ppts)	2013 - 2022	5.2	5.6	2.7	1.6	4.1	4.2	2.9	4.1
Factor 3		aa3	aa2	a1	a1	a2	aa3	aa3	a3
Gen. gov. debt (% of GDP)	2022	40.8	38.4	69.9	53.4	49.1	22.9	50.5	44.1
Gen. gov. debt (% of revenue)	2022	114.0	107.2	164.7	152.2	123.4	59.4	139.3	138.9
Gen. gov. interest payments (% of revenue)	2022	1.3	1.0	2.5	2.8	3.9	1.2	2.7	3.5
Gen. gov. interest payments (% of GDP)	2022	0.5	0.4	1.1	1.0	1.6	0.5	1.0	1.2
Factor 4		ba	ba	baa	baa	ba	baa	baa	ba
Political risk	Latest available	ba	ba	baa	а	ba	baa	baa	ba
Government liquidity risk	Latest available	а	а	aa	aa	aa	aa	aa	а
Gross borrowing requirements (% of GDP)	2023F	8.1	5.8	11.0	11.6	13.7	4.6	9.5	8.3
Banking sector risk	Latest available	а	а	baa	baa	а	baa	а	baa
BSCE[1]	Latest available	ba1-ba2	baa3	ba1-ba2	baa3	baa3	ba1-ba2	baa3	ba3-b3
Total domestic bank assets (% of GDP)	2022	70.7	85.4	87.9	189.1	92.4	94.0	79.3	87.9
External vulnerability risk	Latest available	а	aa	а	aa	а	а	а	а
Current account balance (% of GDP)	2022	-6.4	-5.1	-0.4	-5.8	- 3.0	-0.7	1.3	- 4.5
External vulnerability indicator (EVI)	2024F					76.8	41.1	73.3	81.9
External debt (% of current account receipts)	2022	128.9	71.9	92.3	285.5	80.8	71.4	84.5	104.2
Net international investment position (% of GDP)	2022	- 27.0	- 6.6	- 0.6	52.3	- 34.1	- 12.7	1.2	- 31.9

[] BSCE is our estimate of the risk of a Banking Sector Credit Event (BSCE), which we use for sovereigns where we have no or very limited rating coverage of a system. Otherwise, we use the Baseline Credit Assessment (BCA) for rated domestic banks, weighted by bank assets. Sources: National authorities, IM F, Moody's Investors Service

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Appendix

Economic Strength: "baa2"

Peer Comparison

Peer comparison table factor 1: Econom	ic strength							
	Latvia	baa2 Median	Greece	Costa Rica	Estonia	Lithuania	Bulgaria	Croatia
	A3/STA		Ba3/POS	B2/STA	A1/STA	A2/STA	Baa1/STA	Baa2/STA
Final score	baa2		baa2	baa2	baa1	baa1	baa3	baa3
Initial score	baa1		a3	baa1	baa1	a3	baa1	baa1
Nominal GDP (\$ billion)	41.1	143.6	218.8	68.4	38.0	70.2	88.9	70.4
GDP per capita (PPP, Intl\$)	38,544.5	33,726.4	36,909.0	25,005.1	45,480.1	47,107.3	30,216.0	40,143.5
Average real GDP (% change)	2.4	2.7	1.9	3.0	2.4	2.7	2.8	2.9
MAD Volatility in real GDP growth (ppts)	0.7	0.9	1.2	0.9	1.4	1.1	0.8	1.8

Sources: National authorities, IM F, Moody's Investors Service

- » We assess Latvia's economic strength as "baa2" reflecting the country's **robust post-pandemic growth potential** and **income levels**, which are high by global standards but relatively low in the region.
- » Latvia shares its "baa2" economic strength score with Greece (Ba3 positive).

Institutions and Governance Strength: "a2" Peer Comparison

	Latvia	a2 Median	Croatia	Italy	Slovakia	Estonia	Lithuania	Malta
	A3/STA		Baa2/STA	Baa3/NEG	A2/NEG	A1/STA	A2/STA	A2/STA
Final score	a2		a2	a2	a2	aa3	a1	a3
Initial score	a2		a2	a2	a2	aa3	a1	a3
Quality of legislative & executive institutions	а	а	а	а	а	aa	а	baa
Strength of civil society & judiciary	а	а	а	а	а	а	а	baa
Fiscal policy effectiveness	а	а	а	а	а	aaa	аа	а
Monetary & macro policy effectiveness	а	а	а	а	а	а	а	а
Fiscal balance/GDP (3-year average)	- 3.6	-2.1	-0.9	- 5.4	- 4.4	-2.5	- 1.8	-5.2
Average inflation (% change)	4.6	2.5	3.0	2.9	5.4	4.9	5.0	2.5
Volatility of inflation (ppts)	5.2	2.6	3.3	2.6	3.6	5.8	5.6	1.6

Sources: National authorities, IM F, Moody's Investors Service

- » Although the government has made progress in tackling high-level corruption, this still weighs on our assessment of judicial strength and remains a key institutional challenge.
- » Latvia's institutions and governance strength is in line with Croatia (Baa2 stable), Italy (Baa3 negative) and Slovakia (A2 negative).

Political risk: "ba" Peer Comparison

Peer comparison table factor 4a: Politi	cal risk							
	Latvia	ba Median	Lithuania	Estonia	Poland	Bulgaria	Croatia	Georgia
	A3/STA		A2/STA	A1/STA	A2/STA	Baa1/STA	Baa2/STA	Ba2/NEG
Final score	ba		ba	ba	ba	baa	baa	b
Voice & accountability, score[1]	0.9	-0.6	1.0	1.2	0.6	0.3	0.6	0.0
Political stability, score[1]	0.7	-0.2	0.8	0.8	0.5	0.5	0.7	-0.4

[1] Composite index with values from about -2.50 to 2.50; higher values correspond to better governance

Sources: Worldwide Governance Indicators, Moody's Investors Service

- » On account of this, we changed Latvia's score for political risk to "ba" from "baa", which indicates that the escalation of geopolitical tensions has the potential to negatively impact economic activity, fiscal outcomes and funding conditions for Latvia.
- » Although geopolitical risks and the uncertainty around such risks have increased, we deem the likelihood of the military conflict in Ukraine spilling over into a conventional military conflict with a direct and material impact on Latvia to be low.
- » Peers with a similar political risk assessment include Estonia (A1 stable), Lithuania (A2 stable) and Poland (A2 stable).

Government liquidity risk: "a" Peer Comparison

Peer comparison table factor 4b: Governm	nent liquidit	y risk						
	Latvia	a Median	Lithuania	Romania	Slovakia	Slovenia	Serbia	Kuwait
	A3/STA		A2/STA	Baa3/STA	A2/NEG	A3/STA	Ba2/STA	A1/STA
Final score	а		а	а	aa	аа	baa	baa
Initial score	а		а	а	aa	аа	а	baa
Ease of access to funding	а	а	а	а	aa	aa	а	baa
Gross borrowing requirements (% of GDP)	8.1	8.0	5.8	11.8	12.2	11.0	10.6	1.0

Sources: National authorities, IMF, Moody's Investors Service

- » Our "a" assessment of government liquidity risk reflects its typically moderate gross borrowing requirements, low borrowing costs and ability to issue debt in a reserve currency.
- » Peers with a similar government liquidity assessment include Lithuania (A2 stable) and Romania (Baa3 stable).

Banking sector risk: "a" Peer Comparison

Peer comparison table factor 4c: Bankin	g sector risk							
	Latvia	a Median	Lithuania	Poland	Slovakia	Slovenia	Hungary	Mexico
	A3/STA		A2/STA	A2/STA	A2/NEG	A3/STA	Baa2/STA	Baa2/STA
Final score	а		а	а	а	baa	baa	aa
Initial score	а		а	а	а	baa	baa	aa
BCA[1]	ba1	baa2	baa3	baa3	baa2	ba1	ba1	baa2
BSCE[2]	ba1-ba2	baa2	baa3	baa3	baa2	ba1-ba2	ba1-ba2	baa2
Total domestic bank assets (% of GDP)	70.7	170.6	85.4	92.4	104.0	87.9	93.1	44.0

[1] BCA is an average of Baseline Credit Assessments (BCAs) for rated domestic banks, weighted by bank assets

[2] Where we have no or small rating coverage in a system, we estimate the risk of Banking Sector Credit Event (BSCE) based on available data for aggregate banking system Sources: National authorities, IMF, Moody's Investors Service

- » Latvia's score for banking sector risk is "a", in line with that of Lithuania (A2 stable) and Poland (A2 stable).
- » As the weighted average Baseline Credit Assessment (BCA) of ba1 is based on limited rating coverage of the country's banking sector, the score also reflects the significant presence of foreign-owned banks, which have historically shown a high propensity to support their Latvian subsidiaries.

External vulnerability risk: "a" Peer Comparison

	Latvia	a Median	Estonia	Slovenia	Slovakia	Lithuania	Finland	Chile
	A3/STA		A1/STA	A3/STA	A2/NEG	A2/STA	Aa1/STA	A2/STA
Final score	а		а	а	а	aa	аа	baa
Initial score	а		а	а	а	aa	аа	baa
Current account balance (% of GDP)	-6.4	-2.6	-2.2	-0.4	- 8.2	-5.1	-3.6	- 9.0
Net IIP (% of GDP)[1]	-27.0	-34.5	- 20.5	- 0.6	-61.0	-6.6	- 3.5	- 18.4
External debt (% of current account receipts)	128.9	95.2	91.5	92.3		71.9	94.8	191.5
External vulnerability indicator (EVI)[2]		59.9						194.4

[1] Net international investment position (% of GDP)

[2] (Short-term external debt + currently maturing long-term debt + total nonresident deposits over one year)/official foreign exchange reserves

Sources: National authorities, IM F, Moody's Investors Service

- » Our "a" assessment of Latvia's external vulnerability risk reflects its pre-pandemic track record of broadly balanced current account position, moderately negative net international investment position (NIIP) and euro area membership.
- » Other sovereigns with an "a" assessment for external vulnerability include Estonia (A1 stable), Slovenia (A3 stable) and Slovakia (A2 negative).

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