

Georgia Risk Spotlight for Common Country Analysis (CCA)



1. RISK RELATED GLOBAL INDICES

Index	Data Highlights	Sources
INFORM Risk Index	Overall Risk: 3.5 (Medium – rank 91 of 191)	DRMKC INFORM Risk Index, 2023
	Hazard & Exposure: 2.6 (rank 85 of 191)	<u>Dataset</u>
	Natural Hazard: 4.5	Country Risk Profile
	Human Hazard: 0.1	
	Vulnerability: 5 (rank 51 of 191)	
	Socio-Economic Vulnerability: 2.9	
	Vulnerable Groups: 6.6	
	Lack of Coping Capacity: 3.2 (rank 133 of	
	191)	
	Institutional: 4.4	
	Infrastructure: 1.7	
World Risk Index	Overall Risk: 3.79 (rank 104 of 192)	World Risk Report, 2022
(WRI)	Exposure: 0.73	Statistical Table
	Vulnerability: 19.67	
	Susceptibility: 19.29	
	Lack of Coping Capacities: 8.78	
	Lack of Adaptive Capacities: 44.96	
Human Development	HDI Value: 0.802 (Very High Human	Human Development Index, 2021
Index (HDI)	Development)	(UNDP)
	Rank: 64 of 191	
Gender Inequality	GII value: 0.280	Human Development Index, 2021
Index (GII)	Rank: 66 of 191	(UNDP)
		<u>Statistical Table</u>
Global Health Security	GHS Index Score: 52.6	GHS Full Report, 2021
Index (GHS)	Rank: 40 of 195	GHS Excel Model

2. RISK COMPONENTS: HAZARD – EXPOSURE – VULNERABILIY

Hazard		Risk Level	Data Highlights	Sources
Cluster	Specific			
Meteorologic	al and Hyd	Irological		
Flood	Fluvial MH0007	High	Potentially damaging and life-threatening river floods are expected to occur at least once in the next 10 years. The present hazard level may increase in the future due to the effects of climate change. As of 2010, assuming standards of protection up to a 1 in 25-year event, the population annually affected by riverine flooding in	Think Hazard WB Climate Change

			Coording is postioned at 15 000 and the supported annual demands	Manual adam
			Georgia is estimated at 15,000 and the expected annual damages at \$73 million. Socio-economic development and climate change are	Knowledge Portal
			both expected to increase these figures. River flooding is also likely	Fortal
			to increase sediment and affect dam management.	
Flood	Urban	High	Urban flood hazard is classified as high based on modeled flood	Think Hazard
	Flood		information currently available. This means that potentially	
			damaging and life-threatening urban floods are expected to occur at	
Temperature-	Heatwa	High	least once in the next 10 years. Extreme heat hazard is classified as high based on modeled heat	Think Hazard
Related	ve	iligii	information currently available. This means that prolonged exposure	TITITK TIAZATU
Related	MH0047		to extreme heat, resulting in heat stress, is expected to occur at	
			least once in the next five years.	
			Since the 1960s, Georgia has experienced increased temperatures of	WB Climate
			0.3°C in western areas and 0.4–0.5°C in eastern areas. A marked	<u>Change</u>
			increase in hot days has been observed, particularly in the lowlands,	<u>Knowledge</u>
			and in Tbilisi the number of days per year when the heat index	<u>Portal</u>
			reached dangerous levels increased by 14 in the period 1986–2010,	
		_	relative to its 1961–19 85 baseline.	
Precipitation-	Water	Low	Water scarcity is classified as low according to the information that	Think Hazard
Related	Scarcity		is currently available. This means that there is a 1% chance drought will occur in the coming 10 years.	
Terrestrial	Landslid	High	Landslide susceptibility is classified as high. This area has rainfall	Think Hazard
refrestrial	e	High	patterns, terrain slope, geology, soil, land cover and (potentially)	TITITIK TIAZATU
	MH0051		earthquakes that make localized landslides a frequent hazard	
			phenomenon.	
Geohazard				
Seismic	Earthqu	High	Earthquake hazard is classified as high according to the information	Think Hazard
	ake		that is currently available. This means that there is more than a 20%	
			chance of potentially damaging earthquake shaking in your project	
			area in the next 50 years. The Global Earthquake Model (GEM)	<u>OpenQuake</u>
			Global Seismic Hazard Map (version 2018.1) depicts the geographic	Map Viewer
			distribution of the Peak Ground Acceleration (PGA) with a 10% probability of being exceeded in 50 years, computed for reference	
			rock conditions (shear wave velocity, VS30, of 760-800 m/s).	
Volcanic	Lava	High	Volcanic hazard is classified as high according to the information	Think Hazard
Voicariic	Flows	6	that is currently available. This area is located at less than 50 km	THINK TIGZGI G
	GH0009		from a volcano for which a potentially damaging eruption has been	
			recorded in the past 2,000 years and that future damaging eruptions	
			are possible.	
Environmenta				
Environmental	Wildfire	High	Wildfire hazard is classified as high according to the information that	Think Hazard
Degradation	S		is currently available to this tool. This means that there is greater	
	EN0013		than a 50% chance of encountering weather that could support a	
			significant wildfire that is likely to result in both life and property	
			loss in any given year.	
			Note that damage can not only occur due to direct flame and radiation exposure but may also include ember storm and low-level	
			surface fire. In extreme fire weather events, strong winds and winds	
			born debris may weaken the integrity of infrastructure.	
			Modeled projections of future climate identify a likely increase in	
			the frequency of fire weather occurrence in this region, including an	
			increase in temperature and greater variance in rainfall. In areas	
			already affected by wildfire hazard, the fire season is likely to	
			increase in duration, and include a greater number of days with	
			weather that could support fire spread because of longer periods	
			without rain during fire seasons. Climate projections indicate that	
			there could also be an increase in the severity of fire.	

Deforestation	Primary Forest Loss	 From 2001 to 2022, Georgia lost 11.1 kha of tree cover, equivalent to a 0.35% decrease in tree cover since 2000. In Georgia from 2001 to 2022, 0.89% of tree cover loss occurred in areas where the dominant drivers of loss resulted in deforestation.	Global Forest Watch
Biological			
Infectious Diseases	COVID- 19 (SARS- CoV-2)	 In Georgia, from January 2020 to January 2024, there have been ,1855,289 confirmed cases of COVID-19 with 17,132 deaths, reported to WHO. As of 26 November 2023, a total of 2.74m vaccine doses have been administered.	WHO

EXPOSURE		
	Data Highlights	Source
Population + Communities	 Population: 3,980,000 (2021) Pop. density (per km2): 53.3 (2021) Population growth rate (average annual %): - 0.2% (2021) Urban population (% of total population): 59% (2021) Urban population growth rate (average annual %): - 0.7% (2015) Life expectancy at birth (females/males, years): 77.9 / 69.1 (2021) Population age distribution (0-14/60+ years old, %): 20.3% / 21.9% (2021) International migrant stock (total/% of total pop.): 79.4 / 2.0% (2021) Refugees and others of concern to UNHCR: 291 (2021) 	UN data
Basic services, institutions, infrastructure	Population living in slums (% of urban population): 7% (2020)	World Bank Data
Natural Resources	 Surface area (km2): 69,700 km2 Threatened species (number): 124 (2021) Forested area (% of land area): 40.6% (2021) Important sites for terrestrial biodiversity protected (%): 40.3% (2021) 	UN data
Economy + livelihoods	GDP (2021) GDP (billion current US\$): 17,743 growth rate (annual %, const. 2015 prices): 5.1% per capita (current US\$): 4,439.3 Economy (2021): Agriculture (% of Gross Value Added): 7.2% Industry (% of GVA): 23% Services and other activity (% of GVA): 69.8% Health (2021) Current expenditure (% of GDP): 7% (2019)	UN data WHO

VULNERABILITY					
	Data Highlights	Sources			
Communities +	Prevalence of disability: 3%	IDFI, 2015			
groups	• Employment: Employment-to-Population Ratio: 57%, Unemployment rate:	WB/ILO, 2023			
	11.3%	<u>IDMC, 2022</u>			

	 Internally Displaced People (IDPs): 308,000 Gender Inequality: GII value: 0.280 Literacy (15 years and older): Adult Literacy: 100%, Female Literacy Rate: 100%, Male Literacy Rate: 100% 	UNDP, 2021 WB, 2017
Robustness of basic services + institutions + infrastructure	 Corruption Perceptions Index: Score: 53/100, Rank: 49 of 180 Access to electricity (% of population): 100.0% Individuals using the Internet (% of population): 79% Water, sanitation and hygiene (WASH) 69% of population has access to safely managed drinking water 24% of population has access to at safely managed sanitation services 	Transparency International, 2022 World Bank, 2021 UN Water, 2022

CLIMATE CH	ANGE									
	Data Highlights				So	urces				
ND-GAIN Country Index	 58.5 ND-GAIN score, ranked 38 of 185 (upper middle) 0.400 vulnerability score 0.569 readiness score 				ND-Gain, 2021 Country Profile					
Mean Projections (CMIP6) 2020- 2039	Mean annual temperature: Increase Maximum of daily max-temperature:	Increase			<u>WE</u>		iate Cl	nange K	nowledg	<u>e</u>
Change in Distribution 0.8	of Average Mean Surface Air Temperature; 1951-2020; Georgia	≡								
0.7			Projec Georgia;	ted Averag (Ref. Period	ge Mean Su d: 1995-201	rface Air Te 4), SSP5-8.	mperatur 5, Multi-M	e Anomaly odel Ensemi	ole	≡
0.5		Jan Feb Mar Apr May Jun Jul Aug Sep								
0.1	I I I I I 7 7 8 9 10 Average Mean Surface Air Temperature (°C)	Oct Nov Dec	1971-1980 1981-1980	380 200 200	2011-2020	11.7238 2031.724	1641.2050 1651.	206 2070 2071.	1280 1280 1281 12 K	8
	= 1951-1980 = 1971-2000 = 1991-2020					4°C 6°C 8				

3. CCA STANDARD ANALYSIS SECTIONS

CCA SECTION	RISK FOCUS	Possible RiX Datasets
Economic Transform ation Analysis	 Structure of economy Agriculture is the major contributor to GDP followed by industries and services. Top exports copper ores and concentrates, ferro-silico-manganese, wine, automobiles and mineral waters and aerated waters. 	WBG Climate Change Knowledge Portal WB WITS

	 Top products imported include petroleum oils, copper ores and concentrates, automobiles, other medicaments of mixed or unmixed products and natural gas in gaseous state. Key socio-economic sectors and risks affected by climate change and disasters Georgia has a high degree of risk to physical hazard such as earthquakes, droughts, and floods. The most vulnerable sectors are agriculture, water, tourism, and forestry. Climate change is expected to impact food production via direct and indirect effects on crop growth processes. 	WB Country Overview Georgia
	 Georgia's domestic electricity generation is heavily reliant on hydropower, which accounted for 78% of electricity generated in the country in 2015. River flows are expected to fall in the future during the summer months, which would reduce potential power generation during the months of peak demand. An increased frequency of severe storms along the coastal zones are likely to further washout beaches and flood banks along the seashore. An increased risk of flash floods and mudflows in coastal zone, as a result of abundance of rainfall in summer, is especially dangerous for tourism sites located in mountain zone or settled along the riverbanks. 	WB Climate Risk Country Profile
Social developm ent & exclusion analysis	 Georgia has been growing faster than other upper middle-income countries, and GNI per capita increased from \$3,048 in 2010 to \$5,073 in 2022 (constant 2015 USD). The poverty rate (measured by the national poverty line) was more than halved over the same period. Two projects were approved on March 24, 2023: the first in a programmatic Development Policy Operation (DPO) series focused on Green, Resilient, and Inclusive Development (\$50 million); and the Georgia Resilient Agriculture, Irrigation, and Land Project (\$75 million). These two projects indicate a more pronounced focus on supporting Georgia's efforts to address the country's climate-related development challenges. Due to the war between Russia and Ukraine a faster reduction in money inflows, a decline in tourism inflows, further monetary tightening in advanced economies, or an increase in global commodity prices, could hinder growth, put pressure on the currency, and increase debt levels and financing needs. The data show that violence against women (VAW) and domestic violence (DV) remain a prevalent problem in Georgia. Adoption of the Law on the Rights of Persons with Disabilities in 2020 was a 	WB Country Overview Georgia UN Women
	positive step towards protecting and ensuring the rights of PWDs and their well-being and inclusion into public life. Georgia also established inclusive education and provided social assistance and healthcare programmes for those in need.	
	 Climate Risk Projections Temperature changes in Georgia are projected to increase significantly by the 	WB Climate
Environme nt and climate change	 end of the 21st century under all four emissions pathways. These increases are expected to be greater than the global averages projected by the IPCC. Projections do indicate that western and northern areas of the country, especially areas along the Black Sea, are likely to experience a slight increase in days with rainfall greater than 20 mm, while eastern and southern areas are likely to experience a reduction in these days. 	Risk Country Profile The World Bank

- Climate change will further exacerbate environmental degradation, particularly in Georgia's coastal zones.
- Georgia is at risk of hydrometeorological hazards and natural disasters.
 Frequent natural disasters include landslides, floods, flash-flooding, mudflows, droughts, avalanches, heavy winds and storms. These risks are in part due to the country's complex mountainous relief but are expected to be exacerbated and heightened through expected climate changes. The projected impacts from climate change make Georgia increasingly vulnerable to heavy precipitation, landslides, earthquakes, and floods.
- Climate change is also expected to increase risks and severity of natural disasters in Georgia. In recent years, the number of natural disasters has increased nearly three times and, in many cases, have been considered as catastrophic, causing fatalities and leading to significant economic losses.
- The Government of Georgia unveiled its first-ever Long-Term Low Emission
 Development Strategy (Lt-LEDS) 2050, which was officially adopted on 24 April
 2023. The Lt-LEDS sets the stage for Georgia's carbon-neutral future and will be
 instrumental in updating the national Climate Action Plan 2023-2025, outlining
 a clear roadmap towards sustainable, low-emission growth.

WBG Climate Change Knowledge Portal

UNDP Georgia The Ministry of Environmental Protection and Natural Resources of Georgia is responsible for climate change, environmental protection and sustainable use of natural resources. The Service for Climate Change within the Ministry is responsible for the assessment of impacts and risks of climate change and coordinates the preparation of adaptation strategies and action plans and their implementation. The role of departmental ministries (Energy, Agriculture, Labor, Health and Social Affairs) is key for the assessment of various sectors' vulnerability to climate change for the process of preparation of adaptation measures.

WB Country
Overview
Georgia

Georgia's national strategies and plans:

USAID Climate Risk Profile

- Georgia's Third National Communication to the UN Framework Convention on Climate Change.
- National Climate Vulnerability Assessment produced with EU assistance, provides recommendations to civil society and decision makers on possible approaches to take toward climate change adaptation.
- Strategy for Agriculture Development for 2015-2020.

Governanc e and Political Analysis

The development of a disaster risk information system is underway, aiming to provide critical information about existing threats and risks to various government agencies and the population. At this stage, the system is in testing mode. Its implementation will be carried out together with the Emergency Management Service.

<u>UNDP</u>

Based on hazard maps and the socio-economic vulnerability assessment, the most vulnerable communities to the hazards are being identified and relevant measures are being developed and implemented. The programme will identify the 100 most vulnerable communities. At this stage, 15 vulnerable communities have already been identified in the Supsa, Natanebi, and Kintrishi river basins, where developing risk management plans and implementing priority measures are planned, including purchase and installation of sirens, implementation of non-structural bio-engineering measures, such as afforestation and riverbed cleaning.

EU4Climate Programme

In 2020, Georgia updated its National Determined Contribution (NDC) with an increased ambition compared to the INDC 2015. According to the updated NDC, Georgia unconditionally commits to reduce its GHG emissions by 35% below the reference year of 1990.

In addition to an updated NDC, Georgia has developed a 2030 Climate Change Strategy and 2021-2023 Action Plan (CSAP). CSAP serves as an underlying strategy and short-term action plan for implementing the updated NDC. In addition, Georgia is finalizing its Long-term Low Emission Development Strategy, currently undergoing consultations within the Government of Georgia. In 2021 Georgia developed documents on climate mainstreaming in the energy, agriculture and health sectors.

4. SDG-BASED RISK AREAS

4. SDG-BASED F		
SDG Risk Area	Risk Factors	Source + Comments
Displacement and		UN data
migration	Internally displaced persons, new displacement associated with	World Bank
16/17	disasters (number of cases): 430	data
	International migrant stock (000/% of total pop.): 79.4/2.0	
Economic Stability	• GDP per capita (current US\$): 6,675.0 in 2022	World Bank
8/17	 Inflation, consumer prices (annual %): 11.9 in 2022 	<u>data</u>
	Country growth indicator: 15.72 in 2020	WB WITS
	• Ease of Doing Business Rank: 7	WB WITS
	 Trading Across Borders Rank: 45 	
Environment and	Environmental Performance Index: Score 39.10 (Rank 103)	Environmental
climate	• Deforestation : In 2010, Georgia had 2.99 Mha of tree cover, extending	<u>Performance</u>
12/13/14/15/17	over 43% of its land area. In 2022, it lost 291 ha of tree cover.	
	Biodiversity: Between 2000 and 2013, the average Human Footprint	Global Forest
	score of Georgia increased.	Watch map
	Water Ecosystem: 44% is the degree of implementation of integrated	
	water resources management (SDG indicator 6.5.1, 2020)	UN Water
	Percentage of domestic wastewater safely treated: 49% (2022)	
	Annual Water stress: 5% of renewable water resources withdrawn	UN Biodiversity
	Annual Water Stress. 570 of Tellewable Water resources withdrawn	
Gender equality	GII: Rank 66 out of 191 (very high human development), 0.280 GII	GII
1/2/4/5/6	(2021)	
	Total literacy rate (%) 15 years and older: 100 (2022)	
	Male literacy rate (%) 15 years and older: 100	
	Female literacy rate (%) 15 years and older: 100	
Infrastructure social	Access to electricity (% of population): 100.0 in 2021	World Bank
services	 Individuals using the Internet (per 100 inhabitants): 79 in 2022 	data
4/5/7/9/11/17	individuals using the internet (per 100 initialitants). 75 in 2022	
Public health	Global Health Security Index: 52.6 GHSI (2021), Rank 40 out of 195	<u>Full report</u>
3/17	 See Part 1- Basic Risk Data > Hazards > Biological 	<u>Data set</u>
Risk areas not	Displacement & migration Democratic space SDG 16, 17 SDG 16, 17	
covered by UNDRR:	SDG 16, 17 SDG 16, 17	
Democratic	Internal security Political stability	
space 16/17	SDG 16, 17	
• Internal		4.6.774
security 16/17	Regional & global influences Economic SDG 8,	
Justice and rule	SDG 16, 17	5000.
of law 16/17	Social cohesion. 13 Risk Areas	
Political Stability 16/17	equality & non-	
Stability 16/17	discrimination SDG 1, 5, 10, 17	918.6
Reg & global influences	555 1, 5, 10, 11	
influences	Infrastructure & access to	th
16/17 • Social cohesion	social services	
• Social conesion 1/5/10/17	SDG 4, 6, 7, 9, 11, 17 Gender equality	
• Food Security,	SDG 1, 2, 4, 5 16	
agriculture &	Environment & climate Food security & agriculture SDG 12, 13, 14, 15, 17 SDG 2, 17	
land 2/17	300 2, 11	
iaiiu Z/1/		