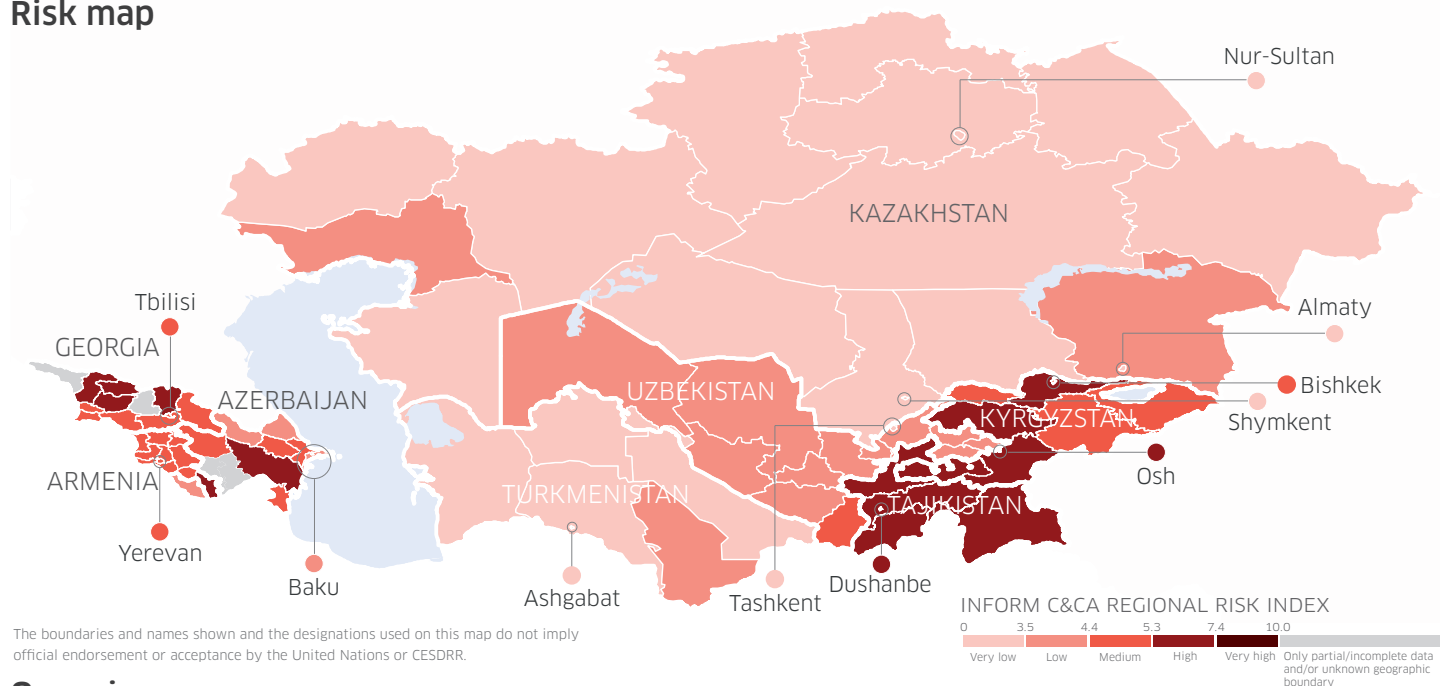


Risk map



The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations or CESDRR.

Overview

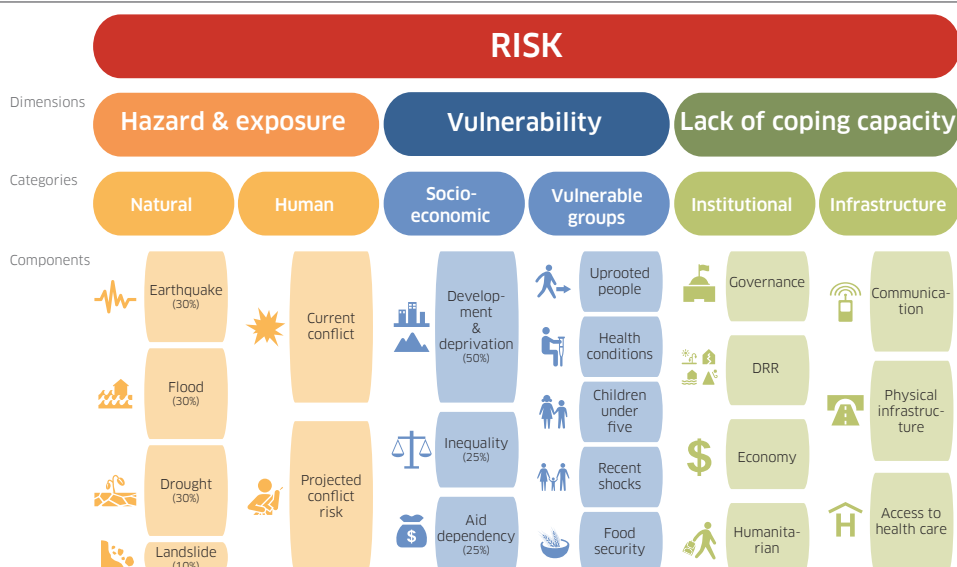
The subnational Index for Risk Management (INFORM) is a way to understand and measure the risk of disasters. It helps identify where and why humanitarian crises are likely to occur, and shows how risks differ **within** each country across its subnational units and **between** subnational units of different countries.

Data on 83 first admin levels

The first administrative level is the largest subdivision of a country. There are 85 such subdivisions in the Caucasus and Central Asia, and commonly include oblasts, regions and capital cities. The subnational INFORM includes data on 83 of these first administrative levels.

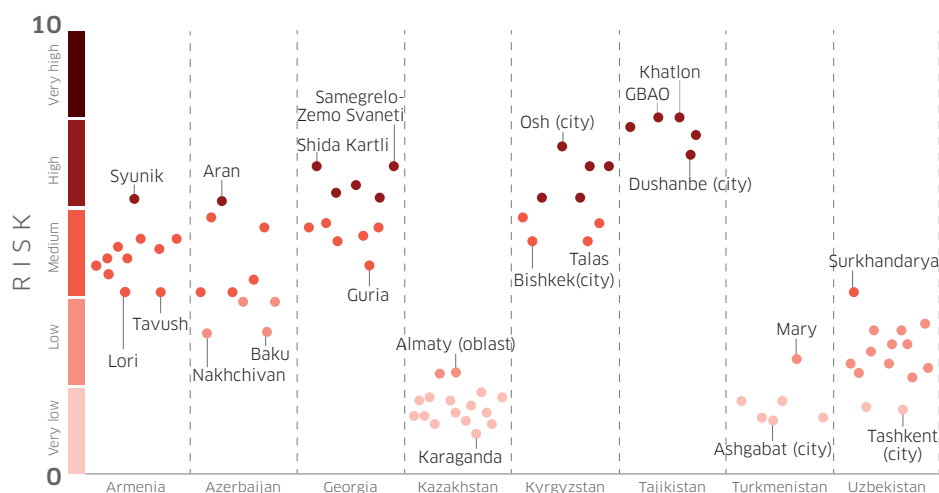
62 indicators

The model builds up a picture of risk by bringing together 62 different indicators that measure three **dimensions** of risk: hazard and exposure, vulnerability, and lack of coping capacity. Each dimension is made up from a number of risk **categories**, e.g. natural hazards, vulnerable groups, or infrastructure capacity. Categories comprise a number of **components**. Components are carefully chosen sets of indicators that capture a specific topic, e.g. earthquake, children under five, or physical infrastructure. **Indicators** are the individual datasets that make up INFORM, e.g. the physical exposure to earthquakes of a certain magnitude, child mortality rate, or road density.



Risk distribution

The graph below illustrates how risk levels are spread within a country and allows comparison across the region. All regions in Tajikistan are more prone to risk than any other country/region in the Caucasus and Central Asia.



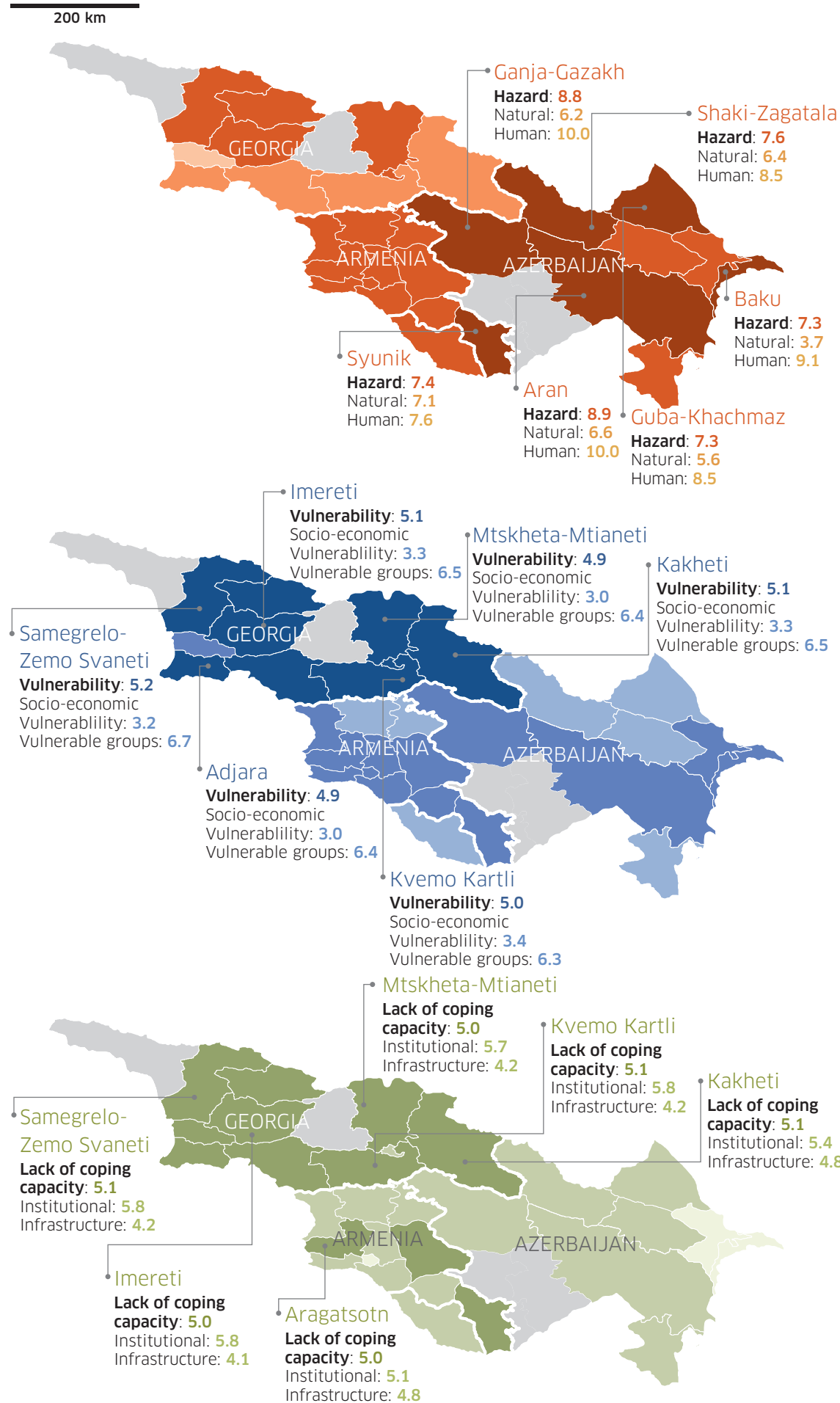
Data reliability

The model includes a **lack of reliability index**, which considers missing indicators, the recentness of the data, and the degree of subnational data that was included (national averages were used when subnational data was missing – a less desired practice). It scores data on a scale from 0 to 10, where 10 is least reliable. The lack of reliability index shows that results for all areas in Turkmenistan are deemed less reliable.

How to use the model

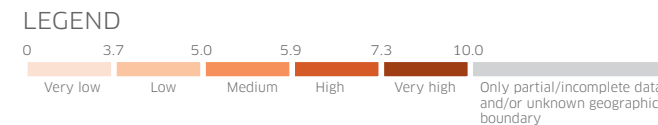
- National government or intergovernmental risk assessment and development planning can be updated to include INFORM results and components.
- By relying on shared risk analysis, government, donors, humanitarian & development actors can align their actions and funding decisions towards risk reduction and management.
- INFORM can help integrate disaster risk management into ongoing government, development, DRR, humanitarian, and preparedness planning processes.
- Validated to global standards, INFORM can support inter-agency processes: Common Country Assessment, UN Development Assistance Framework, Sendai Framework for DRR, etc.

Caucasus



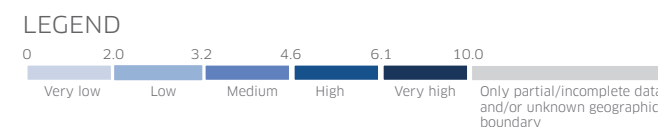
HAZARD AND EXPOSURE

This dimension of INFORM measures hazardous events that could occur and the people or assets potentially affected by them. It is made up of two categories – natural hazards and human hazards. These maps show details for the six subnational units in each sub-region with the highest values in the hazard & exposure dimension.



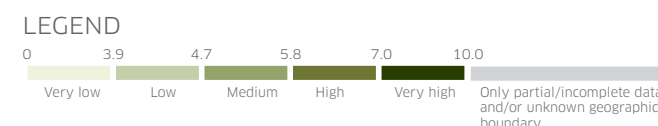
VULNERABILITY

This dimension of INFORM measures the susceptibility of people to potential hazards. It is made up of two categories – socio-economic vulnerability and vulnerable groups. These maps show details for the six subnational units in each sub-region with the highest values in the vulnerability dimension.

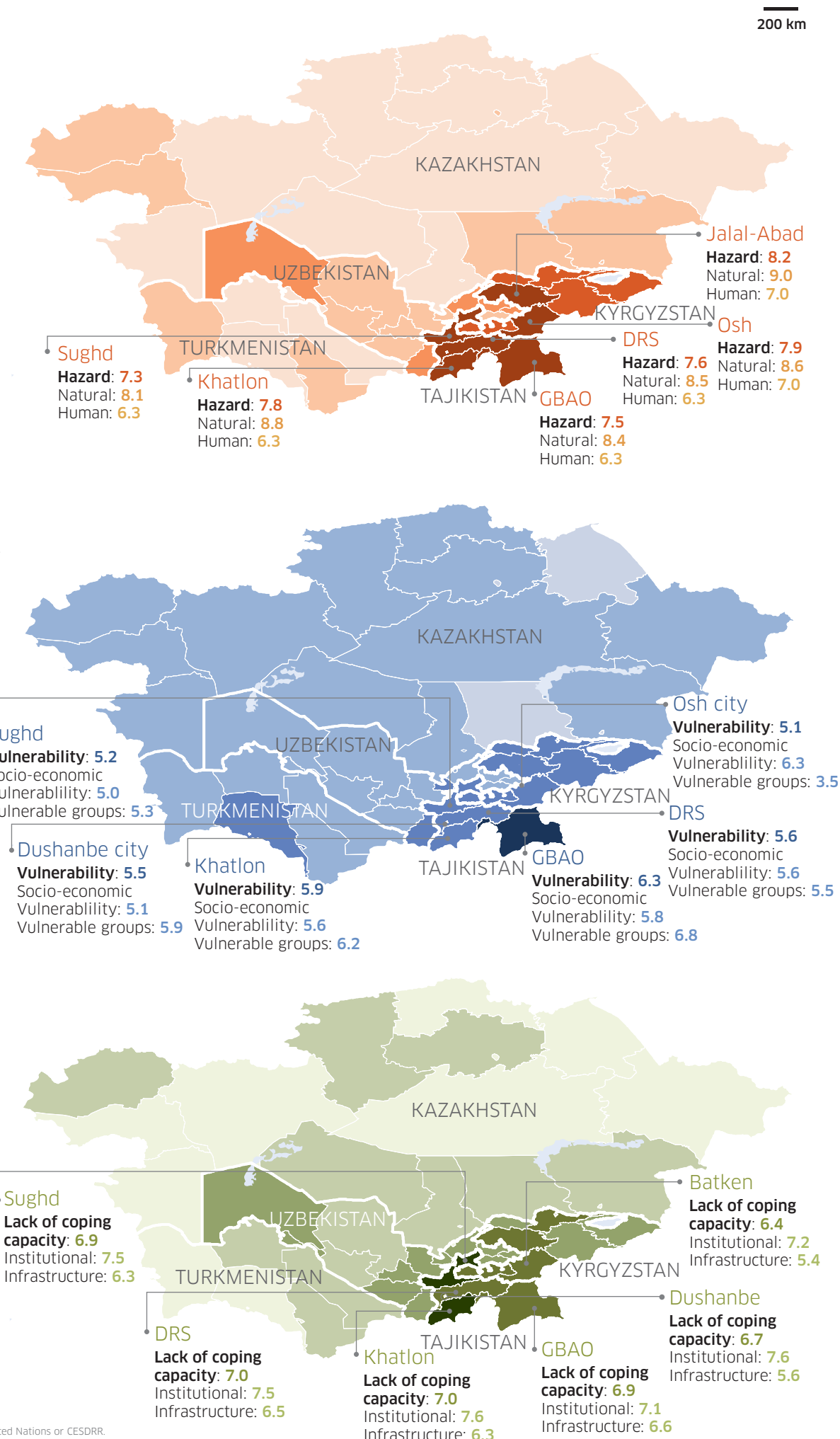


LACK OF COPING CAPACITY

This dimension of INFORM measures the lack of resources available that can help people cope with hazardous events. It is made up of two categories – institutions and infrastructure. These maps show details for the six subnational units in each sub-region with the highest values in the lack of coping capacity dimension.



Central Asia



Detailed results

COUNTRY	FIRST ADMINISTRATIVE LEVEL	Rank (1-37)	Natural (0-10)	Human (0-10)	HAZARD & EXPOSURE (0-10)	Socio-Economic Vulnerability (0-10)	Vulnerable Groups (0-10)	VULNERABILITY (0-10)	Institutional (0-10)	Infrastructure (0-10)	LACK OF COPING CAPACITY (0-10)	INFORM RISK (0-10)	RISK CLASS (V.Low-V.High)	Lack of reliability Index ¹ (0-10)
Armenia	Aragatsotn	14	4.0	7.6	6.1	3.2	4.2	3.7	5.1	4.8	5.0	4.8	Medium	6.0
	Ararat	15	5.6	7.6	6.7	3.0	3.5	3.3	4.8	4.3	4.6	4.7	Medium	6.0
	Armavir	15	5.7	7.6	6.8	3.5	3.5	3.5	4.8	4.2	4.5	4.7	Medium	6.0
	Gegharkunik	16	5.0	7.6	6.5	3.5	2.9	3.2	4.8	4.6	4.7	4.6	Medium	6.0
	Kotayk	13	5.7	7.6	6.8	2.9	4.7	3.9	4.9	3.8	4.4	4.9	Medium	6.0
	Lori	18	5.3	7.6	6.6	3.3	2.9	3.1	4.5	4.0	4.3	4.4	Medium	6.0
	Shirak	12	5.0	7.6	6.5	3.1	5.6	4.5	4.5	4.0	4.3	5.0	Medium	6.0
	Syunik	8	7.1	7.6	7.4	3.1	5.7	4.5	4.5	4.9	4.7	5.4	High	6.0
	Tavush	18	5.7	7.6	6.8	3.0	2.9	3.0	3.9	4.5	4.2	4.4	Medium	6.0
Azerbaijan	Vayots Dzor	12	6.4	7.6	7.0	3.5	4.7	4.1	3.9	4.9	4.4	5.0	Medium	6.2
	Yerevan (city)	16	3.8	9.0	7.2	2.5	4.7	3.7	3.9	3.5	3.7	4.6	Medium	6.0
	Absheron	17	3.8	8.5	6.7	3.2	4.2	3.7	3.7	3.6	3.7	4.5	Medium	6.7
	Aran	9	6.6	10.0	8.9	3.4	5.1	4.3	3.7	4.2	4.0	5.3	High	6.7
	Baku (city)	22	3.7	9.1	7.3	2.6	4.2	3.4	2.2	2.5	2.4	3.9	Low	6.8
	Ganja-Gazakh	10	6.2	10.0	8.8	3.0	4.5	3.8	3.7	4.5	4.1	5.2	Medium	6.7
	Guba-Khachmaz	19	5.6	8.5	7.3	3.1	2.0	2.6	3.7	4.4	4.1	4.3	Low	6.7
	Lankaran	18	4.5	8.5	7.0	3.5	2.0	2.8	3.7	4.6	4.2	4.4	Medium	6.7
	Mountainous Shirvan	18	4.6	8.5	7.0	3.4	2.6	3.0	3.7	4.2	4.0	4.4	Medium	6.7
Georgia	Nakhchivan	22	3.9	8.5	6.8	2.1	2.0	2.1	3.9	4.0	4.0	3.9	Low	6.9
	Shaki-Zagatala	19	6.4	8.5	7.6	2.9	2.4	2.7	3.7	4.3	4.0	4.3	Low	6.7
	Upper Garabagh ²	11	4.1	10.0	8.3	2.8	5.1	4.0	3.7	4.2	4.0	5.1	Medium	6.7
	Autonomous Republic of Adjara	10	6.4	5.0	5.7	3.0	6.4	4.9	5.9	3.6	4.9	5.2	Medium	3.0
	Guria	16	3.4	5.0	4.2	3.0	5.8	4.5	5.7	4.2	5.0	4.6	Medium	3.0
	Imereti	8	5.6	6.5	6.1	3.3	6.5	5.1	5.8	4.1	5.0	5.4	High	3.0
	Kakheti	11	5.3	5.0	5.2	3.3	6.5	5.1	5.4	4.8	5.1	5.1	Medium	3.0
	Kvemo Kartli	12	5.0	5.0	5.0	3.4	6.3	5.0	5.8	4.2	5.1	5.0	Medium	3.0
	Mtskheta-Mtianeti	7	7.2	6.5	6.9	3.0	6.4	4.9	5.7	4.2	5.0	5.5	High	3.0
Kyrgyzstan	Racha-Lechkhumi and Kvemo Svaneti	9	6.9	6.5	6.7	2.8	6.1	4.7	5.1	4.3	4.7	5.3	High	3.0
	Samegrelo-Zemo Svaneti	6	6.9	6.5	6.7	3.2	6.7	5.2	5.8	4.2	5.1	5.6	High	3.0
	Samtskhe-Javakheti	11	6.3	5.0	5.7	2.9	6.3	4.8	5.4	4.3	4.9	5.1	Medium	3.0
	Shida Kartli ²	6	5.8	6.5	6.2	3.4	6.5	5.1	6.2	4.8	5.5	5.6	High	3.0
	Tbilisi (city)	13	5.5	6.5	6.0	3.2	6.1	4.8	4.6	3.6	4.1	4.9	Medium	3.0
	Batken	9	6.5	5.5	6.0	4.7	2.8	3.8	7.2	5.4	6.4	5.3	High	3.7
	Bishkek (city)	13	3.9	7.0	5.7	3.8	4.5	4.2	6.3	3.3	5.0	4.9	Medium	3.7
	Chui	9	6.2	5.5	5.9	4.2	4.0	4.1	7.3	4.5	6.1	5.3	High	3.7
	Issyk-Kul	10	6.9	7.0	7.0	4.4	2.7	3.6	6.6	4.6	5.7	5.2	Medium	3.7
Kazakhstan	Jalal-Abad	6	9.0	7.0	8.2	4.7	2.4	3.6	7.0	5.1	6.1	5.6	High	3.7
	Naryn	11	6.2	5.5	5.9	4.3	3.4	3.9	6.8	4.4	5.7	5.1	Medium	3.7
	Osh	6	8.6	7.0	7.9	4.5	2.7	3.7	7.1	4.8	6.1	5.6	High	3.7
	Osh (city)	4	7.4	7.0	7.2	6.3	3.5	5.1	7.8	3.0	5.9	6.0	High	4.3
	Talas	13	5.3	7.0	6.2	4.6	2.1	3.5	6.5	4.3	5.5	4.9	Medium	3.7
	Akmola	33	2.7	0.2	1.5	3.6	1.1	2.4	4.2	3.8	4.0	2.4	Very Low	4.7
	Aktobe	34	2.4	1.0	1.7	2.5	1.4	2.0	3.7	3.6	3.7	2.3	Very Low	4.7
	Almaty	25	6.0	1.0	3.9	3.2	2.2	2.7	4.4	3.8	4.1	3.5	Low	4.7
	Almaty (city)	30	5.5	3.6	4.6	1.8	1.2	1.5	3.8	2.7	3.3	2.8	Very Low	5.0
Tajikistan	Atyrau	25	7.1	1.0	4.7	2.5	2.3	2.4	3.5	3.9	3.7	3.5	Low	4.7
	East Kazakhstan	30	3.7	0.2	2.1	2.6	2.5	2.6	4.1	3.9	4.0	2.8	Very Low	4.7
	Karaganda	37	1.7	0.2	1.0	2.7	1.3	2.0	3.1	4.3	3.7	1.9	Very Low	4.7
	Kostanai	34	2.4	0.2	1.4	3.2	1.1	2.2	4.1	3.9	4.0	2.3	Very Low	4.7
	Kyzylorda	30	3.6	0.2	2.1	3.3	1.8	2.6	4.4	3.7	4.1	2.8	Very Low	4.7
	Mangistau	35	2.4	0.2	1.4	2.5	1.8	2.2	3.3	3.6	3.5	2.2	Very Low	4.7
	North Kazakhstan	35	2.1	0.2	1.2	3.6	1.3	2.5	4.0	3.4	3.7	2.2	Very Low	4.7
	Nur-Sultan (city)	32	3.8	3.6	3.7	1.1	1.4	1.3	3.7	2.4	3.1	2.5	Very Low	5.0
	Pavlodar	36	3.2	0.2	1.8	1.9	1.2	1.6	3.2	3.4	3.3	2.1	Very Low	4.7
Turkmenistan	Shymkent (city)	34	3.2	0.2	1.8	2.4	1.1	1.8	4.5	2.6	3.6	2.3	Very Low	6.1
	Turkestan	26	6.0	0.2	3.6	3.4	1.6	2.5	5.1	3.5	4.3	3.4	Very Low	4.7
	West Kazakhstan	29	6.4	0.2	3.9	2.3	1.6	2.0	3.5	3.7	3.6	3.0	Very Low	4.7
	Zhambyl	28	5.9	1.0	3.9	2.4	1.2	1.8	4.5	3.7	4.1	3.1	Very Low	4.7
	Districts of Republican Subordination	2	8.5	6.3	7.6	5.6	5.5	5.6	7.5	6.5	7.0	6.7	High	7.6
	Dushanbe (city)	5	5.0	6.3	5.7	5.1	5.9	5.5	7.6	5.6	6.7	5.9	High	7.7
	Mountain Badakhshon Autonomous Region (GBAO)	1	8.4	6.3	7.5	5.8	6.8	6.3	7.1	6.6	6.9	6.9	High	7.6
	Khatlon	1	8.8	6.3	7.8	5.6	6.2	5.9	7.6	6.3	7.0	6.9	High	7.6
	Sughd	3	8.1	6.3	7.3	5.0	5.3	5.2	7.5	6.3	6.9	6.4	High	7.6
Uzbekistan	Ahal	28	4.2	0.2	2.4	3.5	2.8	3.2	3.7	3.9	3.8	3.1	Very Low	9.3
	Ashgabat (city)	34	2.7	0.2	1.5	3.4	1.7	2.6	3.7	2.8	3.3	2.3	Very Low	9.7
	Balkan	26	6.3	0.2	3.9	3.5	2.2	2.9	3.3	3.9	3.6	3.4	Very Low	9.3
	Daşoguz	31	3.0	0.2	1.7	3.6	1.9	2.8	4.1	3.9	4.0	2.7	Very Low	9.3
	Lebap	26	5.8	0.2	3.5	3.8	1.8	2.9	4.1	3.9	4.0	3.4	Very Low	9.3
	Mary	23	7.0	0.2	4.4	3.3	2.9	3.1	4.2	3.9	4.1	3.8	Low	9.3
	Andizhan	21	6.6	4.4	5.6	3.3	2.0	2.7	4.0	4.4	4.2	4.0	Low	2.8
	Bukhara	24	4.7	4.4	4.6	2.7	2.0	2.4	3.9	5.3	4.6	3.7	Low	2.8
	Fergana	24	5.0	4.4	4.7	3.0	1.9	2.5	4.1	4.4	4.3	3.7	Low	2.8
Uzbekistan	Jizzakh	23	5.0	4.4	4.7	2.8	2.0	2.4	4.4	5.5	5.0	3.8	Low	2.8
	Kashkadarya	20	5.1	4.4	4.8	3.5	2.0	2.8	5.3	5.3	5.3	4.1	Low	2.8
	Khorezm	26	2.0	4.4	3.3	2.8	2.0	2.4	5.2	4.9	5.1	3.4	Very Low	2.8
	Namangan	21	6.6	4.4	5.6	3.1	2.1	2.6	4.1	4.4	4.3	4.0	Low	2.8
	Navoi	25	4.4	4.4	4.4	2.8	2.0	2.4	3.2	5.0	4.2	3.5	Low	2.8
	Republic of Karakalpakstan	20	5.7	4.4	5.1	3.1	2.4	2.8	4.4	5.6	5.0	4.1	Low	2.8
	Samarkand	23	5.2	4.4	4.8	2.9	2.1	2.5	4.1	5.2	4.7	3.8	Low	2.8
	Surkhandarya	18	6.8	4.4	5.7	3.5	2.9	3.2	4.1	5.5	4.8	4.4	Medium	2.8
	Syrdarya	19	4.9	4.4	4.7	2.6	5.2	4.0	4.1	4.4	4.3	4.3	Low	2.8
Uzbekistan	Tashkent	22	6.0	4.4	5.3	2.4	2.1	2.3	5.2	4.8	5.0	3.9	Low	2.8
	Tashkent (city)	27	4.0	4.4	4.2	2.5	2.1	2.3	4.7	2.4	3.6	3.3	Very Low	2.8

¹First administrative areas with a lower Reliability Index have risk scores that are based on more reliable data.

²There were no accurate geographic boundaries available to visualize results of these areas on maps.