

INDEX FOR RISK MANAGEMENT

RESULTS 2016

WELCOME

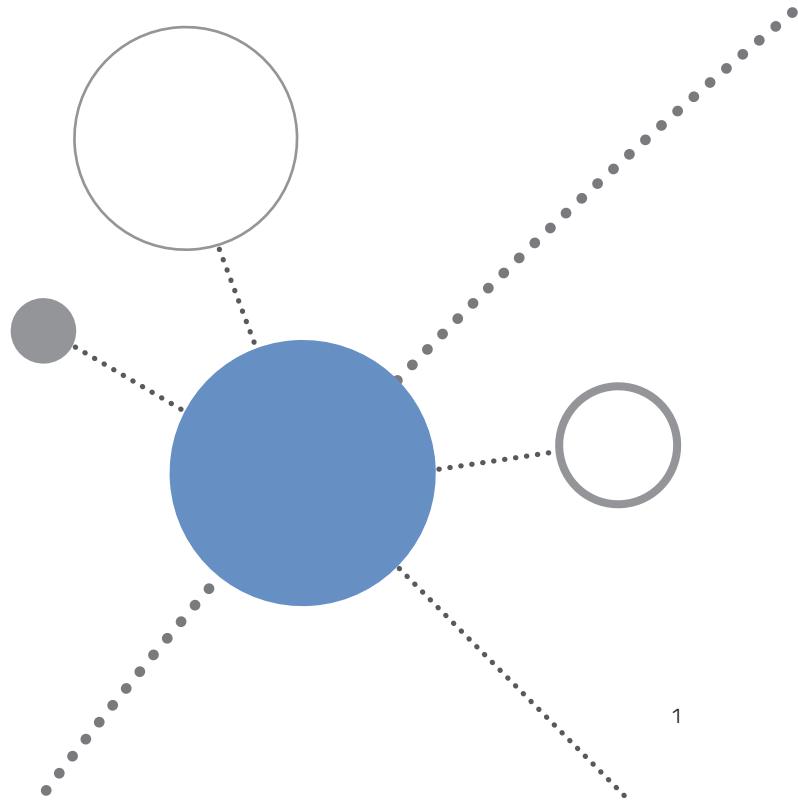
Welcome to the INFORM (Index for Risk Management) 2016 global results report. INFORM is a way to understand and measure the risk of humanitarian crises and disasters, and how the conditions that lead to them affect sustainable development.

This is the second annual report of INFORM. Since last year, we have made some changes to the INFORM methodology. We have improved the way that conflict risk is measured and the model now includes new probabilistic assessments of most natural hazards.

We have also changed the way countries are categorised. Previous versions of INFORM simply placed an equal number of countries into four risk categories (very high, high, medium and low). Now, we use a technique called cluster analysis to place countries into categories based on their mutual similarities and we have added a fifth risk category (very low). These changes also apply at the dimension and category level and will help us track risk better from year to year.

Any changes in the INFORM methodology are always applied to at least five previous years of data, so trend analysis is still valid. In this way we can continue to improve the model, while maintaining continuity. You can find more details about these changes in the User Guide and Methodology documents, which are available on the INFORM website.

During 2015, we made significant progress in applying the INFORM methodology at subnational scale. This has involved working with partners to develop INFORM models tailored to specific regions and countries. From 2016, we will be supporting local lead organisations and their partners to develop INFORM Subnational models and validate them to global standards. Some examples of the models are shown in this report and you can find new guidance about the process on the INFORM website.



INFORM MEASURES THE RISK OF HUMANITARIAN CRISES AND DISASTERS IN 191 COUNTRIES

COUNTRY	RISK	3 YR TREND
Afghanistan	7.9	↗
Albania	2.9	↗
Algeria	4.8	↗
Angola	4.2	↗
Antigua and Barbuda	2.3	↗
Argentina	2.4	↗
Armenia	3.2	↗
Australia	2.3	↗
Austria	1.7	↗
Azerbaijan	3.8	↘
Bahamas	2.0	↗
Bahrain	0.8	↗
Bangladesh	5.9	↗
Barbados	1.6	↗
Belarus	1.9	↗
Belgium	1.2	↗
Belize	3.1	↗
Benin	3.5	↗
Bhutan	2.9	↗
Bolivia	3.2	↗
Bosnia and Herzegovina	4.0	↗
Botswana	3.1	↗
Brazil	3.4	↗
Brunei Darussalam	1.1	↗
Bulgaria	2.5	↗
Burkina Faso	4.8	↗
Burundi	4.6	↗
Cabo Verde	2.7	↗
Cambodia	4.0	↗
Cameroon	4.6	↗
Canada	2.7	↗
Central African Republic	8.3	↗
Chad	6.0	↗
Chile	3.1	↗

COUNTRY	RISK	3 YR TREND
China	4.3	↗
Colombia	5.6	↗
Comoros	2.7	↗
Congo	3.5	↘
Congo DR	6.9	↘
Costa Rica	3.3	↗
Côte d'Ivoire	4.6	↗
Croatia	2.4	↗
Cuba	2.5	↗
Cyprus	2.8	↗
Czech Republic	1.6	↗
Denmark	0.9	↗
Djibouti	4.4	↗
Dominica	2.6	↗
Dominican Republic	3.6	↗
Ecuador	4.3	↗
Egypt	4.6	↘
El Salvador	3.5	↗
Equatorial Guinea	2.7	↗
Eritrea	4.8	↗
Estonia	1.1	↗
Ethiopia	6.4	↗
Fiji	3.2	↗
Finland	0.6	↗
France	2.7	↗
Gabon	2.6	↗
Gambia	2.9	↗
Georgia	3.9	↗
Germany	1.9	↗
Ghana	3.0	↗
Greece	2.6	↗
Grenada	1.9	↗
Guatemala	5.1	↗
Guinea	5.1	↗

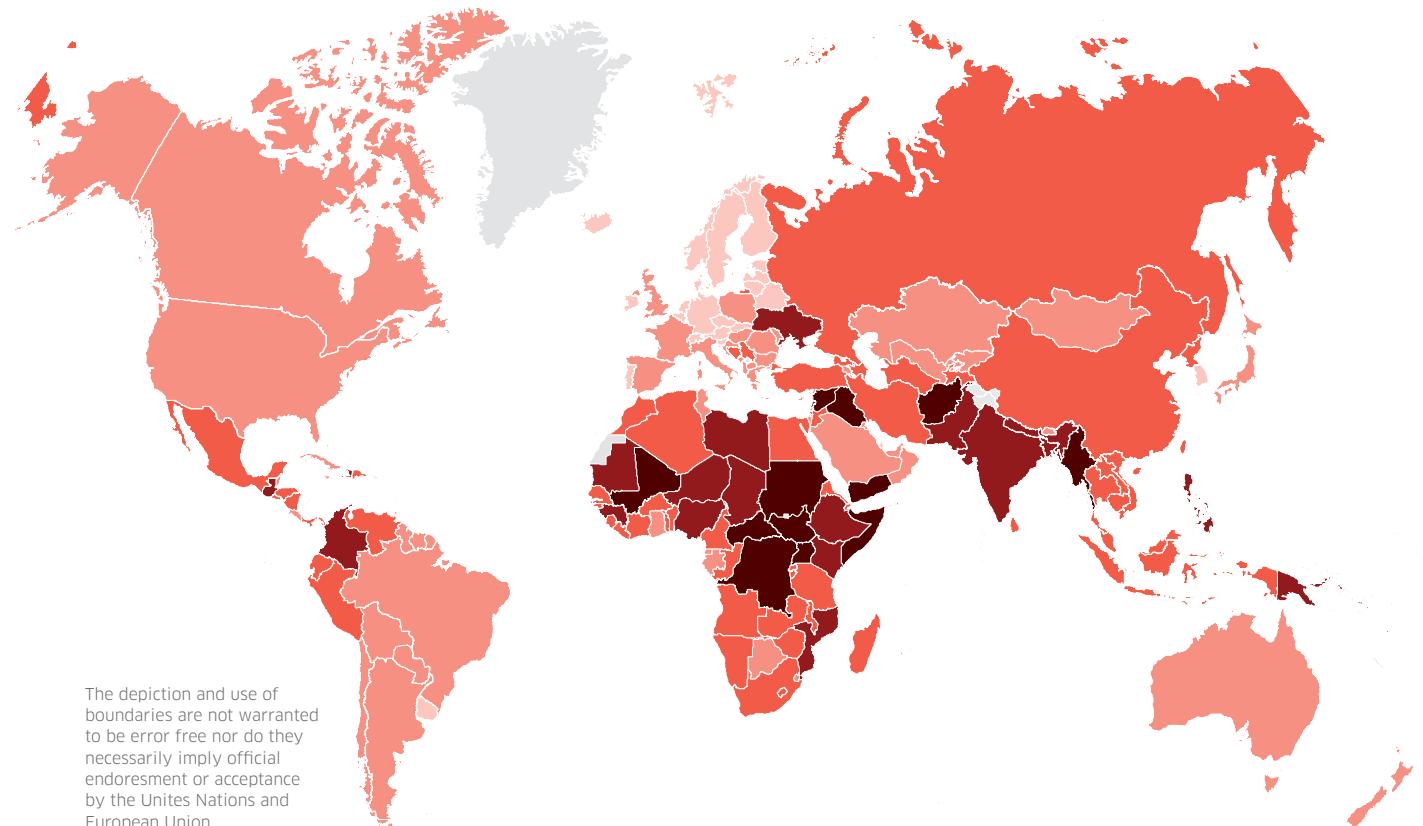
COUNTRY	RISK	3 YR TREND
Guinea-Bissau	4.0	↗
Guyana	2.8	↗
Haiti	6.0	↘
Honduras	4.5	↗
Hungary	2.0	↗
Iceland	1.2	↗
India	5.6	↗
Indonesia	4.6	↗
Iran	4.6	↗
Iraq	7.2	↗
Ireland	1.5	↗
Israel	2.5	↗
Italy	2.9	↗
Jamaica	2.8	↗
Japan	2.1	↗
Jordan	3.8	↗
Kazakhstan	2.1	↗
Kenya	6.2	↗
Kiribati	4.5	↗
Korea DPR	4.4	↗
Korea Republic of	1.7	↗
Kuwait	2.0	↗
Kyrgyzstan	3.3	↗
Lao PDR	4.2	↗
Latvia	1.6	↗
Lebanon	5.1	↗
Lesotho	3.9	↗
Liberia	4.0	↗
Libya	5.9	↗
Liechtenstein	1.1	↗
Lithuania	1.4	↗
Luxembourg	0.7	↗
Macedonia FYR	2.8	↗
Madagascar	4.9	↗

INFORM RISK INDEX



KEY

- ↗ Stable
- ↗ Increasing risk
- ↘ Decreasing risk



COUNTRY	RISK	3 YR TREND
Malawi	4.2	↗
Malaysia	3.5	↗
Maldives	2.4	→
Mali	6.6	↘
Malta	1.7	→
Marshall Islands	4.2	↗
Mauritania	5.1	↘
Mauritius	2.2	→
Mexico	4.9	→
Micronesia	4.0	→
Moldova Republic of	3.3	→
Mongolia	3.1	→
Montenegro	2.7	→
Morocco	3.5	↗
Mozambique	5.9	→
Myanmar	6.8	↗
Namibia	3.7	→
Nauru	2.6	↗
Nepal	5.1	↗
Netherlands	1.4	→
New Zealand	2.0	→
Nicaragua	4.1	→
Niger	5.7	→
Nigeria	6.3	→
Norway	1.0	→
Oman	2.9	→
Pakistan	6.4	→
Palau	2.7	→
Palestine	6.1	↗
Panama	3.7	→

COUNTRY	RISK	3 YR TREND
Papua New Guinea	5.1	→
Paraguay	2.5	→
Peru	4.4	→
Philippines	5.2	→
Poland	2.1	→
Portugal	1.9	→
Qatar	1.3	→
Romania	2.9	→
Russian Federation	4.7	↗
Rwanda	4.4	→
Saint Kitts and Nevis	2.4	→
Saint Lucia	2.4	→
Saint Vincent and the Grenadines	2.1	→
Samoa	2.3	→
Sao Tome and Principe	1.3	↗
Saudi Arabia	2.4	↘
Senegal	4.3	→
Serbia	4.0	→
Seychelles	2.3	→
Sierra Leone	4.3	→
Singapore	0.4	↗
Slovakia	1.9	→
Slovenia	1.4	→
Solomon Islands	5.6	↗
Somalia	8.7	↘
South Africa	3.8	→
South Sudan	7.9	↗
Spain	2.1	→
Sri Lanka	4.3	↗

COUNTRY	RISK	3 YR TREND
Sudan	7.2	→
Suriname	2.6	→
Swaziland	3.1	↗
Sweden	1.1	→
Switzerland	1.4	→
Syria	6.6	↗
Tajikistan	4.0	→
Tanzania	4.6	→
Thailand	4.3	→
Timor-Leste	4.1	→
Togo	3.9	→
Tonga	3.3	→
Trinidad and Tobago	2.0	→
Tunisia	2.8	↘
Turkey	4.7	→
Turkmenistan	3.6	↗
Tuvalu	3.1	↗
Uganda	6.5	→
Ukraine	5.4	↗
United Arab Emirates	2.0	→
United Kingdom	2.0	→
United States of America	3.2	→
Uruguay	1.8	→
Uzbekistan	3.3	→
Vanuatu	4.6	↗
Venezuela	3.8	→
Viet Nam	3.7	→
Yemen	7.5	↗
Zambia	4.2	→
Zimbabwe	4.2	-



INFORM is the first global, objective and transparent tool for understanding the risk of humanitarian crises and disasters. It can help identify where and why a crisis might occur, which means we can reduce the risk, build peoples' resilience and prepare better for when crises do happen.

INFORM is...

Available for 191 countries



Free and open to all

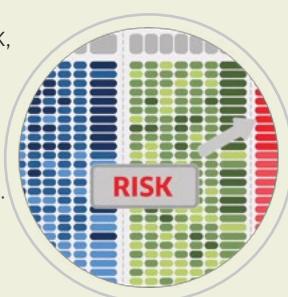


Based on the best methods and regularly updated



You can use INFORM to....

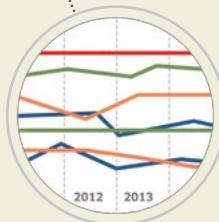
Prioritise countries by risk, or any of its components



Decide how best to reduce risk

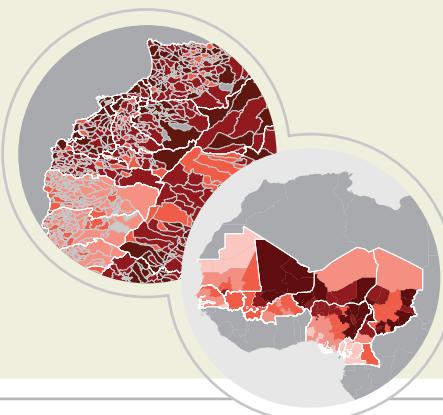


Monitor risk trends



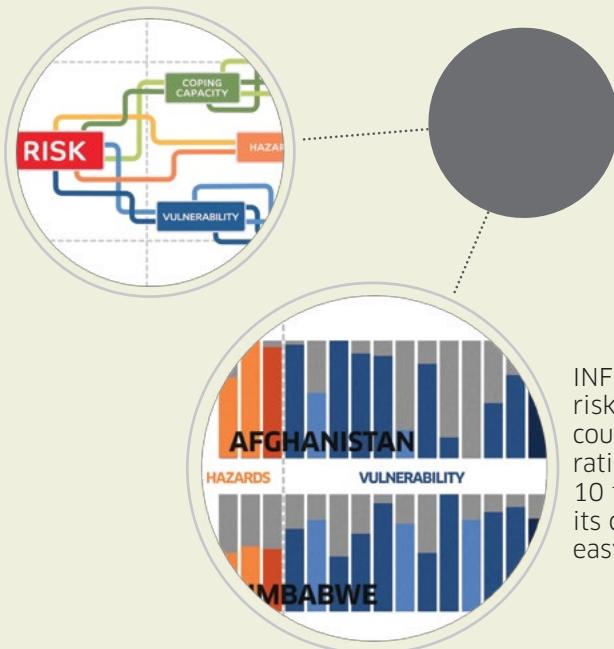
INFORM can be adapted...

...for your organisation or region and the same methodology can be used for national and regional risk assessment.



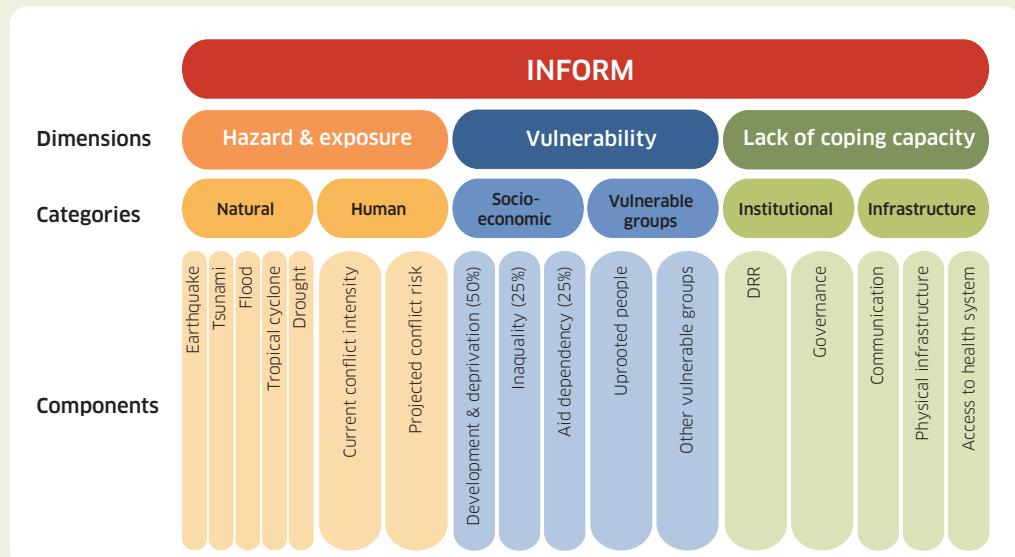
HOW IT WORKS

INFORM simplifies a lot of information about risk. It uses 50 different indicators to measure hazards and peoples' exposure to them, vulnerability, and the resources available to help people cope.



INFORM creates a risk profile for every country. Each has a rating between 0 and 10 for risk and all of its components, so it's easy to compare.

Components of risk covered by INFORM



Get the results...

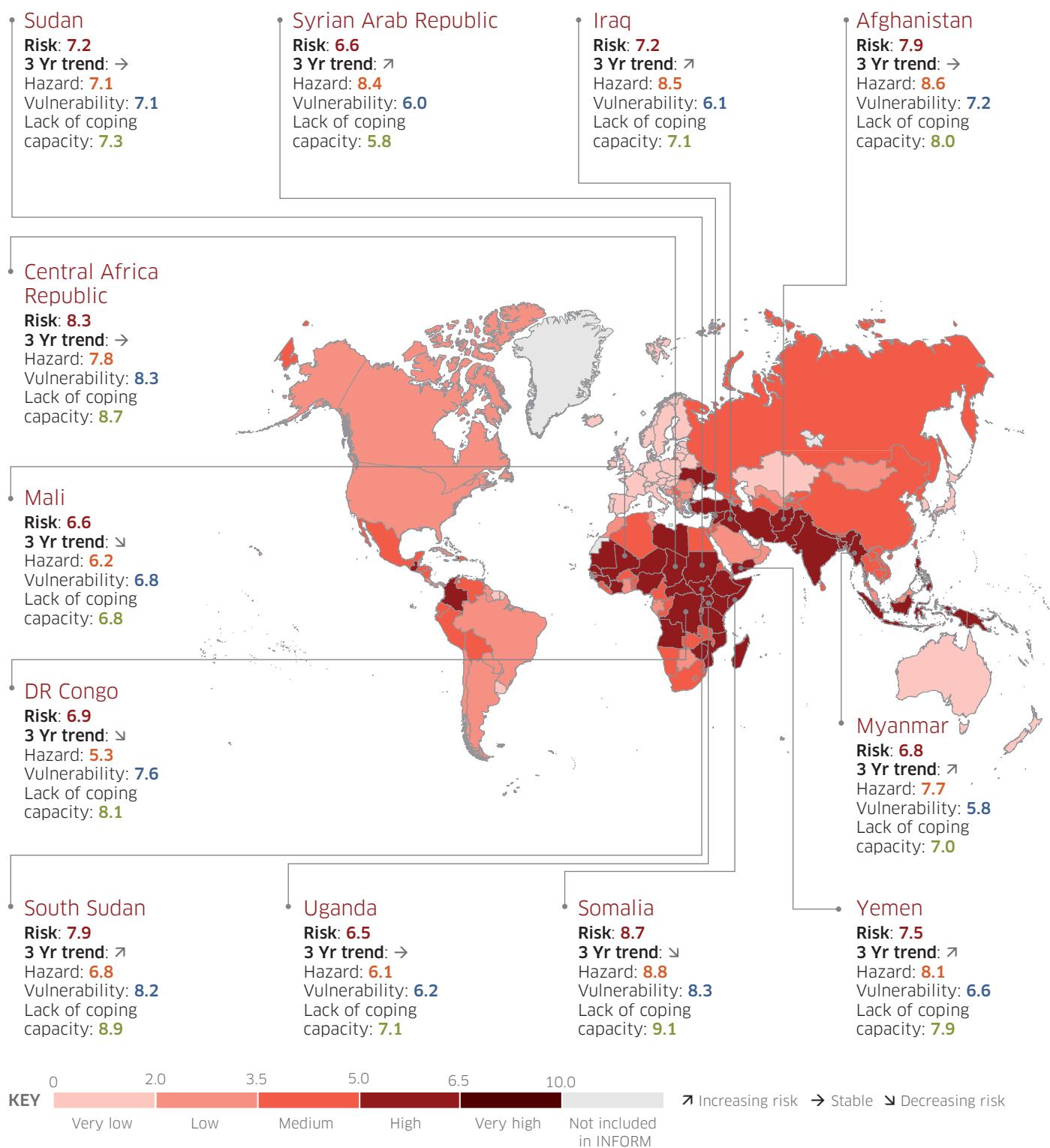
INFORM results are available at www.inform-index.org, where you can: download a spreadsheet with all the results, calculations and source data; view and print country profiles; explore the data interactively; and find out more about how INFORM works and how you can use it.



www.inform-index.org

RISK OF HUMANITARIAN CRISES AND DISASTERS

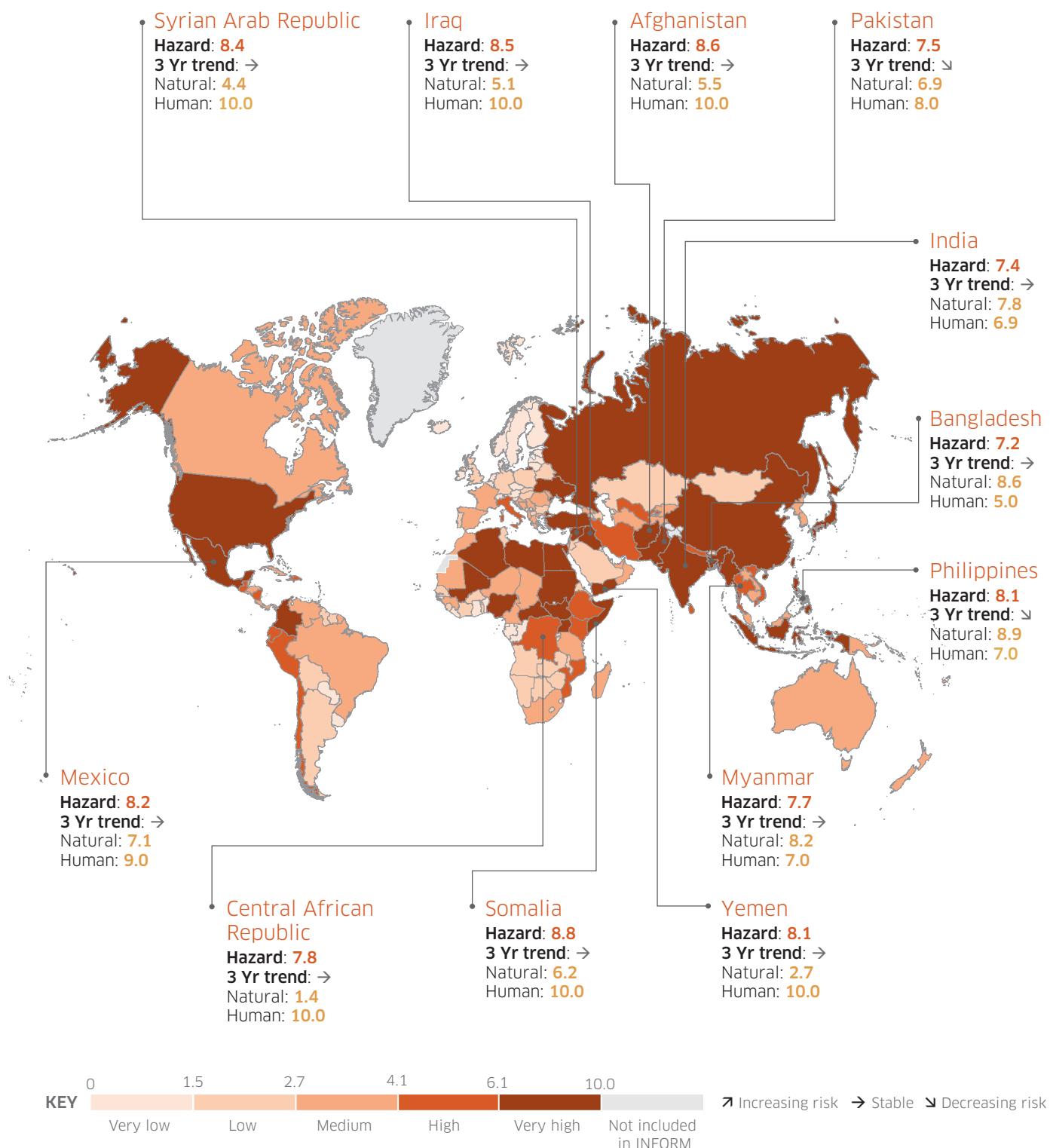
INFORM 2016 RISK INDEX



HAZARDS & 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. This map shows details for the 12 countries with the highest values in the hazard & exposure dimension.

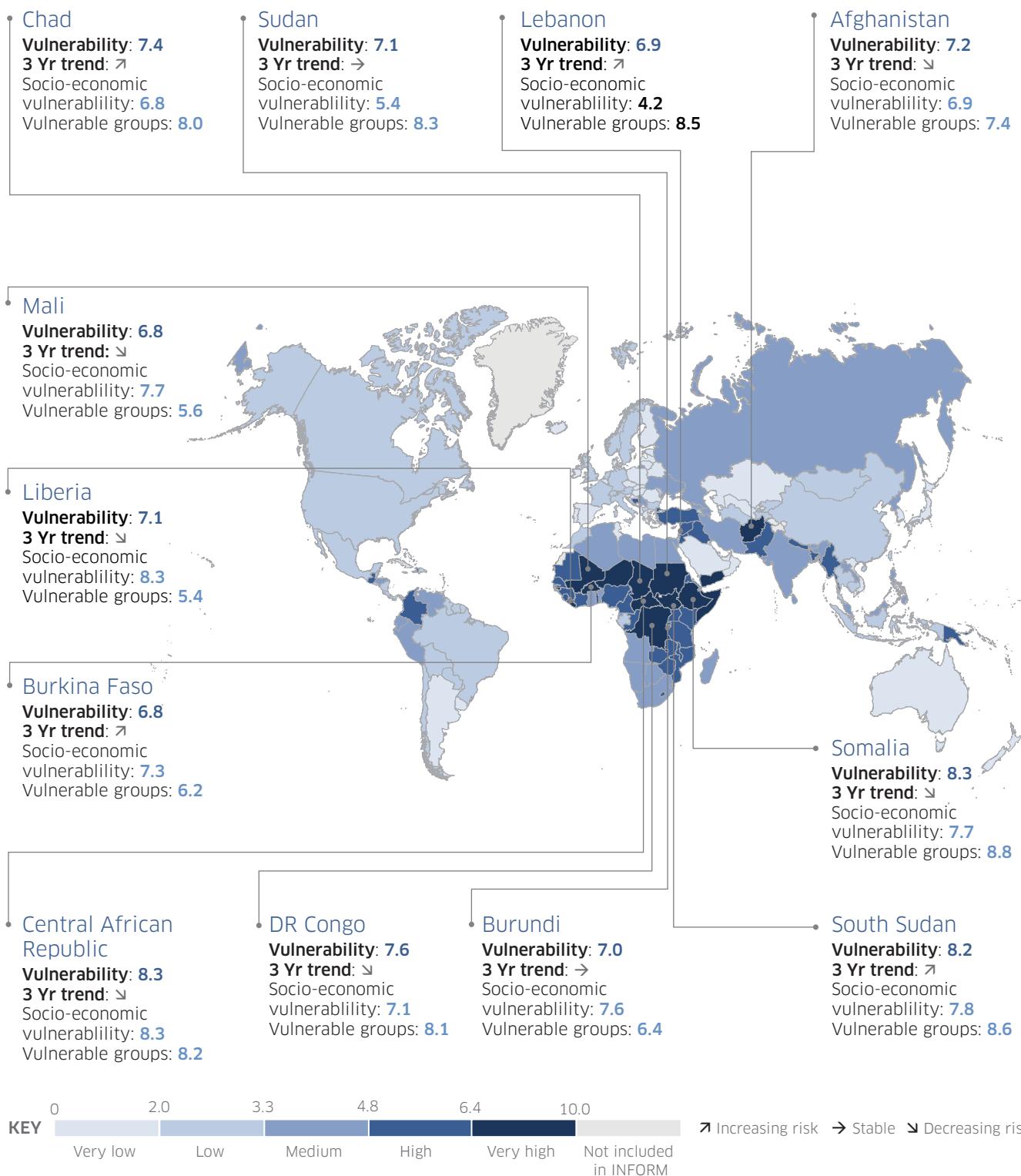
INFORM 2016 HAZARD & EXPOSURE DIMENSION



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. This map shows details for the 12 countries with the highest values in the vulnerability dimension.

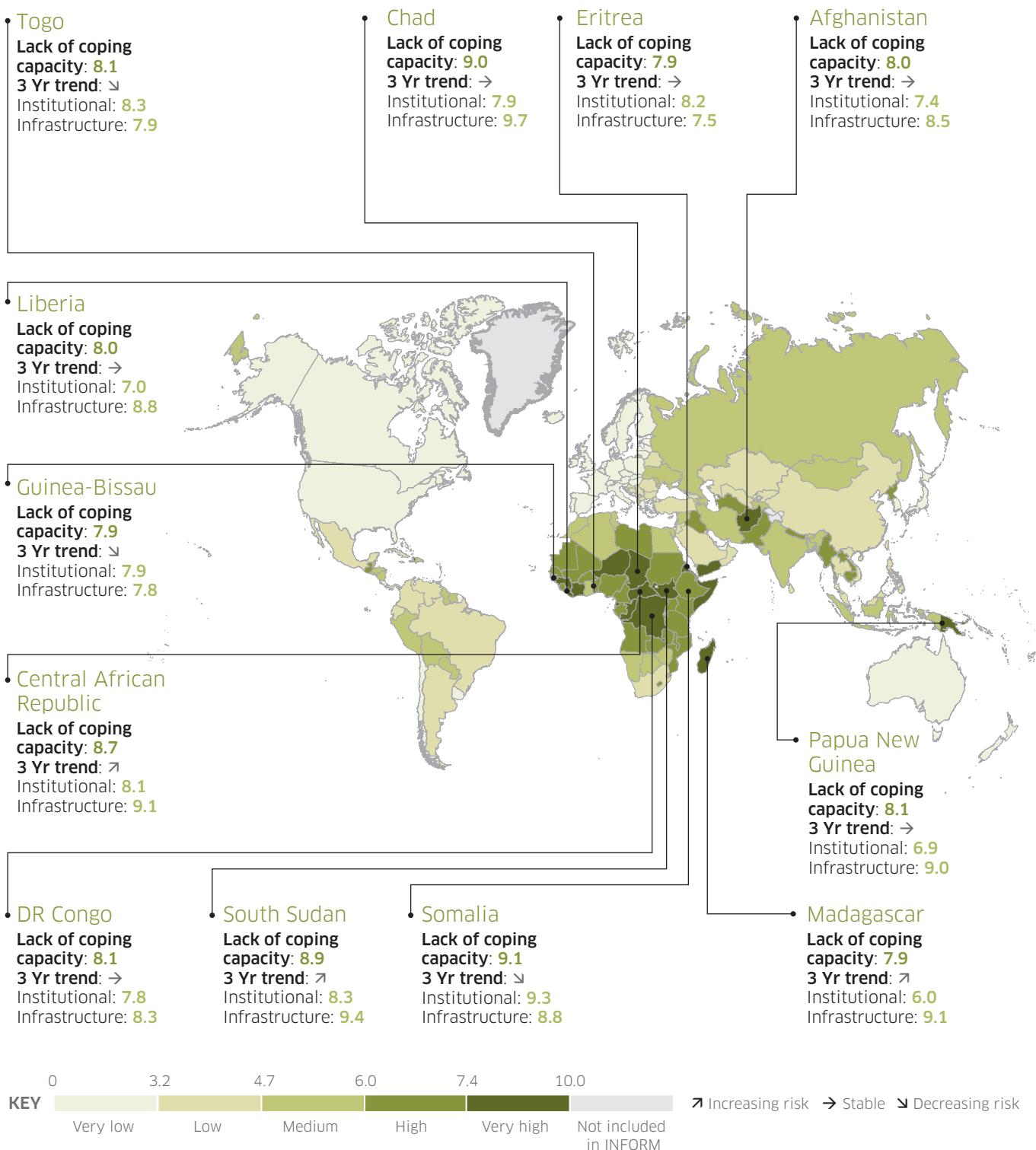
INFORM 2015 VULNERABILITY DIMENSION



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. This map shows details for the 12 countries with the highest values in the lack of coping capacity dimension.

INFORM 2015 LACK OF COPING DIMENSION

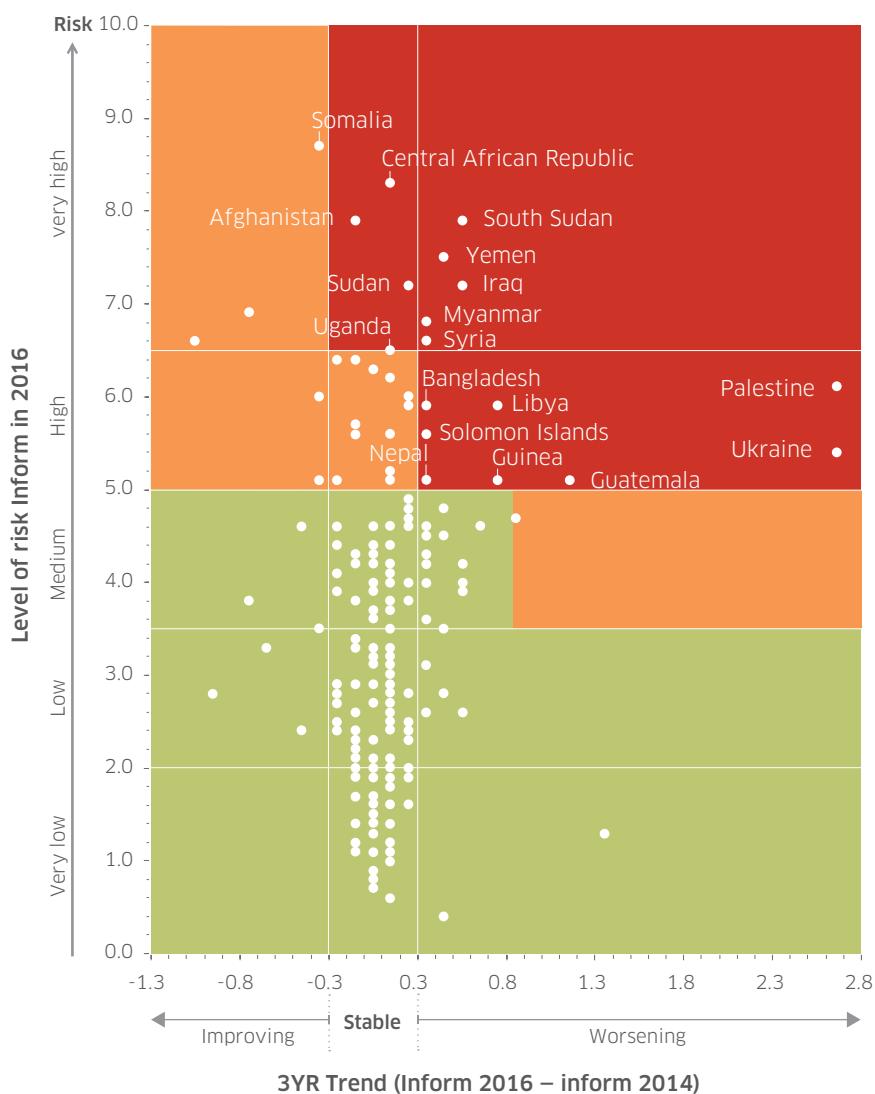


PRIORITISING USING RISK LEVEL AND TRENDS

INFORM can be used to group countries based on their current level of risk and the trend over previous years. For example, large increases in countries already with high levels of risk could be used to prioritise them for increased crisis and disaster prevention, preparedness and response.

The risk trend categories shown are determined by the risk level (very high, high, medium, low, very low) and the three year trend in INFORM (2014-2016).

- Risk is considered to be increasing if the 2016 value is 0.3 or more higher than the 2014 value.
- Risk is considered to be decreasing if it is 0.3 or more lower.



Very high and decreasing

Congo DR
Mali
Somalia

Very high and stable

Afghanistan
Central African Republic
Sudan
Uganda

Very high and increasing

Iraq
Myanmar
South Sudan
Syria
Yemen

High and decreasing

Haiti
Mauritania

High and stable

Chad
Colombia
Ethiopia
India
Kenya
Lebanon
Mozambique
Niger
Nigeria
Pakistan
Papua New Guinea
Philippines

High and increasing

Bangladesh
Guatemala
Guinea
Libya
Nepal
Palestine
Solomon Islands
Ukraine

Medium and decreasing

Azerbaijan
Congo
Egypt

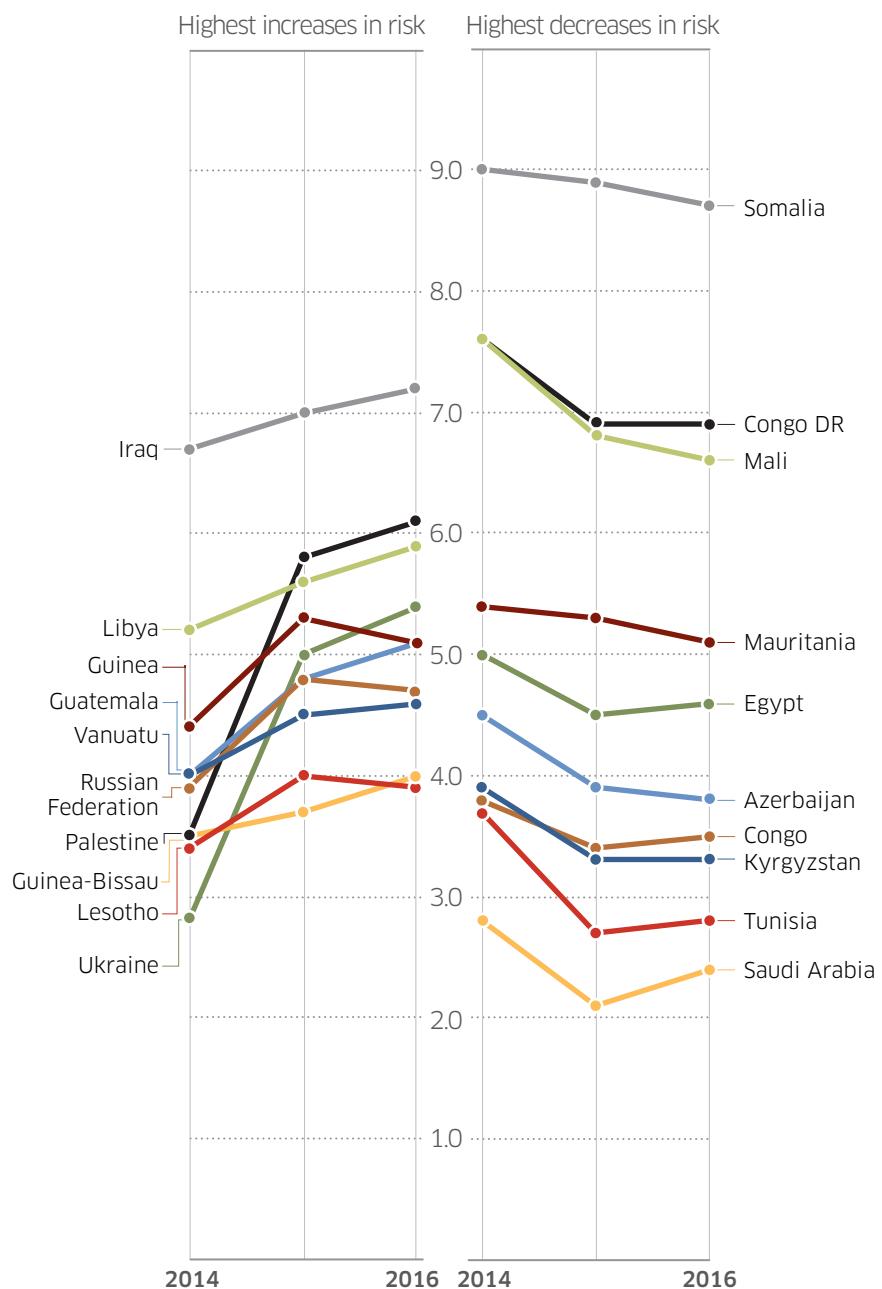
Medium and stable

Algeria	Micronesia
Angola	Namibia
Benin	Nicaragua
Burundi	Panama
Cambodia	Peru
China	Rwanda
Côte d'Ivoire	Senegal
Djibouti	Serbia
Dominican Republic	Sierra Leone
El Salvador	South Africa
Georgia	Tajikistan
Indonesia	Tanzania
Iran	Thailand
Jordan	Timor-Leste
Korea DPR	Togo
Lao PDR	Turkey
Liberia	Venezuela
Madagascar	Viet Nam
Mexico	Zambia
Micronesia	Zimbabwe

Medium and increasing

Bosnia and Herzegovina
Burkina Faso
Cameroon
Ecuador
Eritrea
Guinea-Bissau
Honduras
Kiribati
Lesotho
Malawi
Malaysia
Marshall Islands
Morocco
Russian Federation
Sri Lanka
Turkmenistan
Vanuatu

WHERE HAS RISK INCREASED AND DECREASED MOST?



Note: INFORM trends are not proportional to the level of risk in a country. Therefore, the increases and decreases are more likely to occur in high-risk countries. We hope to introduce proportional trends in coming years. INFORM trends may not reflect the most recent (<1yr) developments in a country.

3 YEAR INFORM RISK TRENDS BY REGION 2014–2016

	Africa (54)	Americas (35)	Asia (48)	Europe (40)	Oceania (14)	World (191)
Significant increase (≥ 0.3)	11	3	10	5	6	35
Stable ($\leq 0.3 / \geq -0.3$)	36	31	35	35	8	145
Significant decrease (≤ -0.3)	7	1	3	0	0	11

INFORM AND HUMANITARIAN AND DEVELOPMENT FINANCE

One of the purposes of INFORM is to improve the evidence for making decisions about allocating resources for crisis and disaster prevention and preparedness, as well as investments in sustainable development.

Understanding how resource allocation aligns with risk is complex, given the lack of useful data and difficulty in making meaningful comparisons. This chart shows how allocations of international humanitarian and development finance compare to risk levels, according to INFORM. While

humanitarian financing is quite well aligned with risk by this measure, development finance is less so. Some countries with high levels of risk are not among the highest recipients of either humanitarian or development assistance.

We hope to be able to improve the sophistication of this type of analysis in future years using a longer time series of INFORM data. This will help us understand the accuracy of INFORM better, as well as the relation of financing and risk.

Top 20 recipients of international humanitarian response from government donors and private contributors 2013*
(total amount)

	INFORM	
	Rank	Risk**
Syria	10	6.6
Palestine*	17	6.1
Sudan	6	7.2
South Sudan	3	7.9
Jordan	80	3.8
Lebanon	29	5.1
Somalia	1	8.7
Ethiopia	13	6.4
Afghanistan	3	7.9
Congo DR	8	6.9
Philippines	28	5.2
Pakistan	13	6.4
Yemen	5	7.5
Kenya	16	6.2
Mali	10	6.6
Myanmar	9	6.8
Haiti	18	6.0
Niger	23	5.7
Iraq	6	7.2
Chad	18	6.0

Top 20 recipients of official development assistance (ODA) 2013
(total amount)

	INFORM	
	Rank	Risk**
Afghanistan	3	7.9
Viet Nam	84	3.7
Ethiopia	13	6.4
Tanzania	42	4.6
Kenya	16	6.2
Turkey	40	4.7
Bangladesh	20	5.9
Nigeria	15	6.3
Palestine***	17	6.1
India	24	5.6
Congo DR	8	6.9
Mozambique	20	5.9
Pakistan	13	6.4
Syria	10	6.6
Morocco	89	3.5
Uganda	12	6.5
Iraq	6	7.2
South Sudan	3	7.9
Mali	10	6.6
Ghana	110	3.0

20 countries with highest INFORM rank that are not among the top 20 recipients of humanitarian response or ODA

	INFORM	
	Rank	Risk**
Central African Republic	2	8.3
Libya	20	5.9
Solomon Islands	24	5.6
Colombia	24	5.6
Ukraine	27	5.4
Guinea	29	5.1
Mauritania	29	5.1
Guatemala	29	5.1
Papua New Guinea	29	5.1
Nepal	29	5.1
Madagascar	35	4.9
Mexico	35	4.9
Burkina Faso	37	4.8
Eritrea	37	4.8
Algeria	37	4.8
Russian Federation	40	4.7
Cameroon	42	4.6
Egypt	42	4.6
Iran	42	4.6
Vanuatu	42	4.6

* 2013 is the latest year for which financial data is available

** INFORM data is from 2016

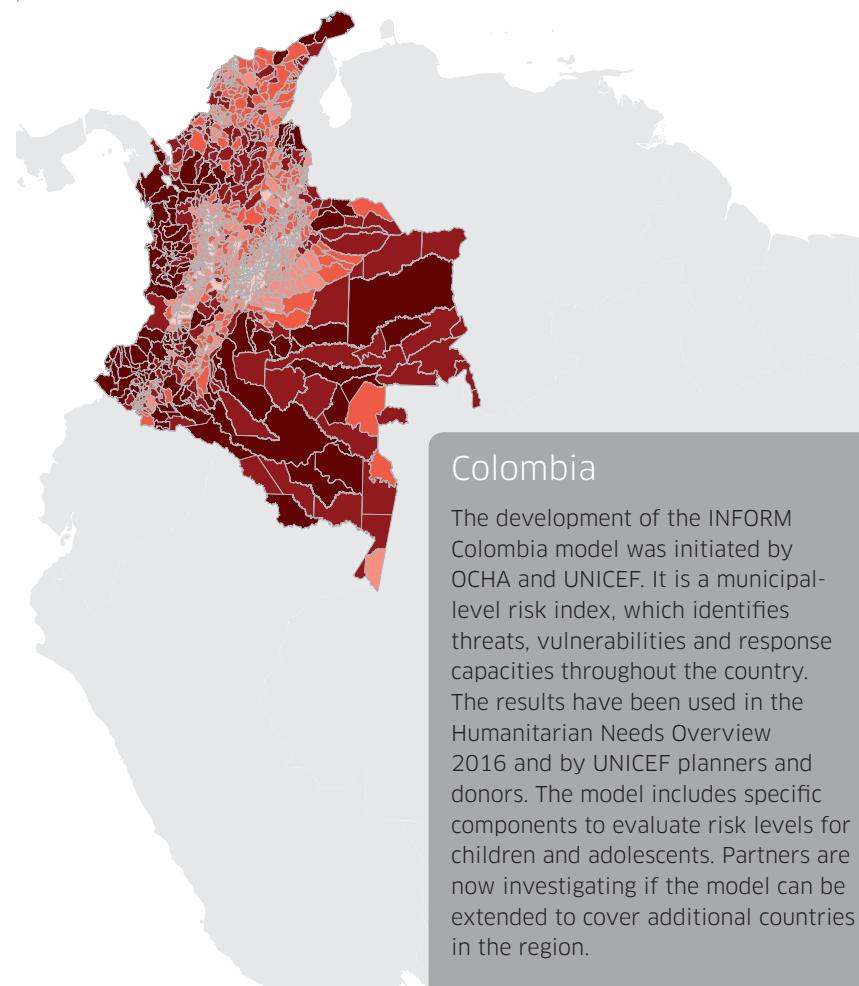
*** Palestine is referred to as oPT in humanitarian response data and West Bank and Gaza Strip in ODA data
Source of humanitarian response and ODA data: Global Humanitarian Assistance Report 2015,
<http://www.globalhumanitarianassistance.org>

INFORM SUBNATIONAL

During 2015, the INFORM methodology and process was used to develop individual risk models for Colombia, Lebanon, the Sahel and the Greater Horn of Africa. These have the same features and benefits as the global model, but are subnational in scale and are tailored to each country or region. Examples of this work are shown below.

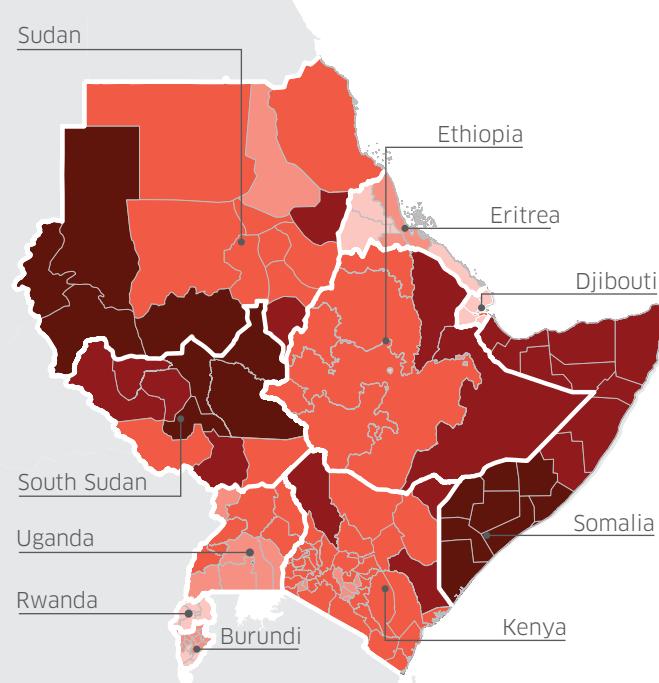
From 2016, INFORM will support the implementation of more Subnational models in other countries or regions. Developing an INFORM Subnational model is a locally owned and managed, cost-effective process that is supported by the global INFORM initiative. This ensures that each model has local buy-in and is adapted to local risks and uses, but draws on global resources and expertise and is validated according to global standards.

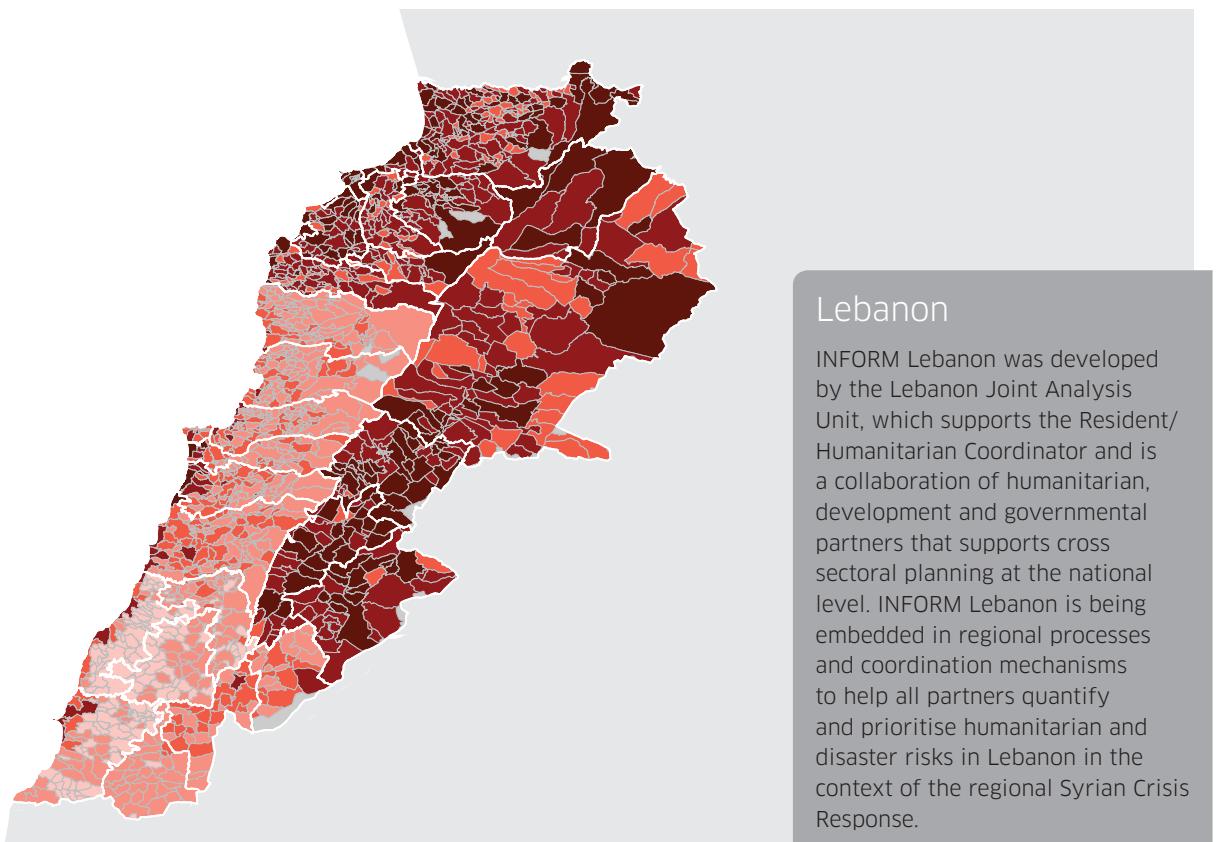
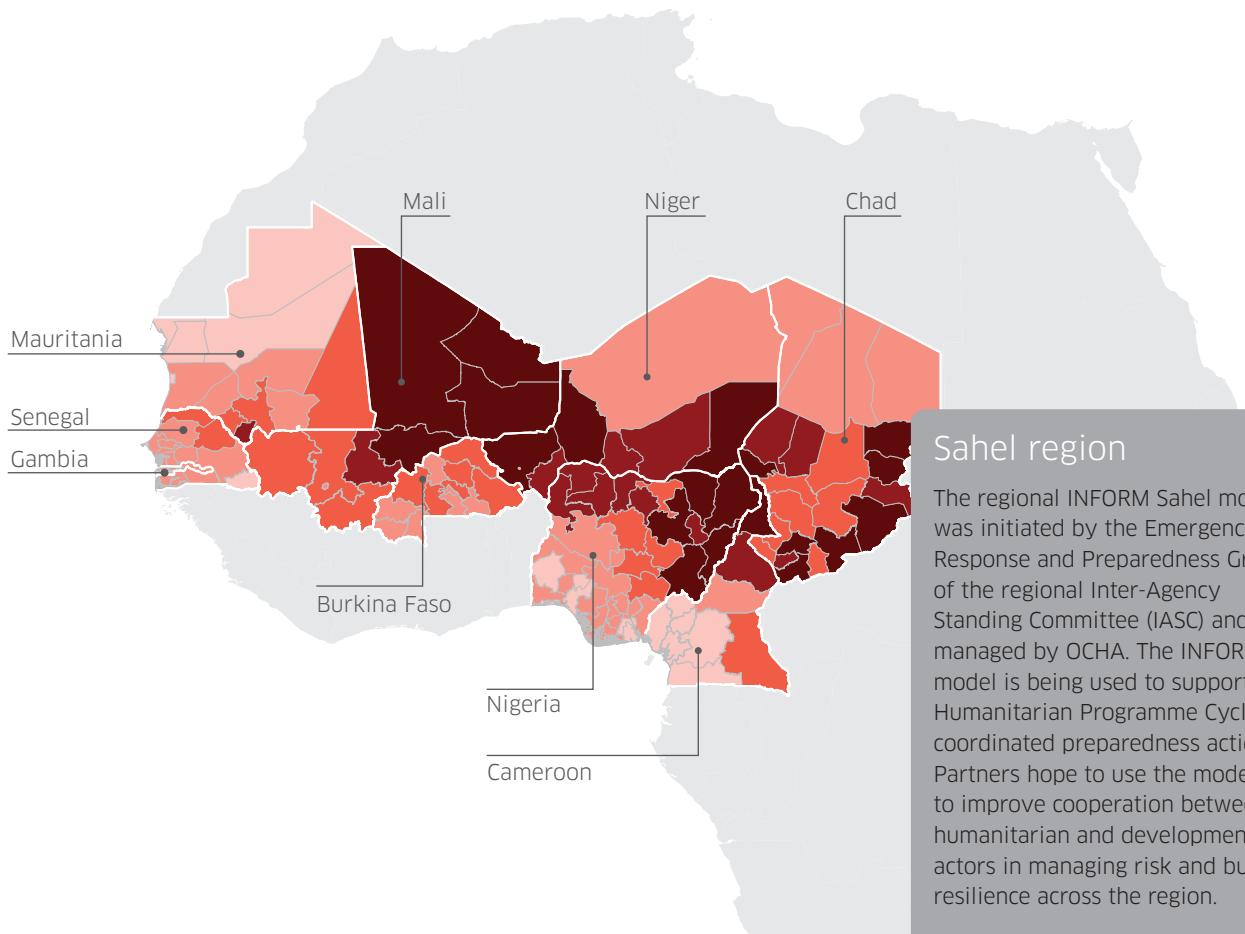
Further information and guidance on developing INFORM Subnational models is now available on the INFORM website.



Greater Horn of Africa region

The INFORM Greater Horn of Africa model is part of an initiative of Intergovernmental Authority on Development (IGAD) and OCHA to improve IGAD's ability to analyse, visualise and disseminate information to support the prevention, preparedness and response to humanitarian crises in the region. The model will be updated regularly to support regional coordination and prioritise humanitarian, development, risk management and resilience investments.







INFORM 2016 FULL RESULTS

These tables show the results of INFORM to the category level for 2016. For the latest results, including component level, indicators and source data, visit the INFORM website: www.inform-index.org.

COUNTRY	RANK	INFORM RISK	3 YR TREND	HAZARD & EXPOSURE	3 YR TREND	Natural	Human	VULNERABILITY	3 YR TREND	Socio-Economic Vulnerability	Vulnerable Groups	LACK OF COPING CAPACITY	3 YR TREND	Institutional	Infrastructure
Afghanistan	3	7.9	→	8.6	→	5.5	10.0	7.2	↓	6.9	7.4	8.0	→	7.4	8.5
Albania	111	2.9	→	3.0	→	5.1	0.3	1.7	→	2.3	1.0	4.8	→	6.2	3.1
Algeria	37	4.8	→	6.3	→	3.6	8.0	3.5	→	3.3	3.6	4.9	↗	4.9	4.9
Angola	62	4.2	→	2.3	→	2.0	2.6	4.6	↓	4.5	4.7	7.1	↗	6.6	7.5
Antigua and Barbuda	144	2.3	→	2.0	→	3.7	0.0	1.7	↓	2.0	1.3	3.5	→	4.7	2.1
Argentina	138	2.4	→	2.4	→	3.1	1.7	1.5	→	1.9	1.1	3.7	→	5.0	2.1
Armenia	100	3.2	→	2.1	→	3.8	0.1	3.0	→	2.4	3.6	5.0	→	6.6	2.7
Australia	144	2.3	→	3.4	→	5.7	0.1	1.7	→	0.6	2.7	2.1	→	2.2	1.9
Austria	167	1.7	→	1.3	→	2.3	0.1	2.2	→	0.8	3.4	1.7	→	2.2	1.2
Azerbaijan	80	3.8	↘	2.3	↘	3.8	0.5	4.6	→	1.8	6.5	5.0	↘	6.5	2.9
Bahamas	154	2.0	→	1.7	→	3.2	0.0	1.6	→	2.3	0.9	3.0	→	3.1	2.8
Bahrain	188	0.8	→	0.1	→	0.1	0.1	1.6	→	1.9	1.2	3.0	→	4.2	1.6
Bangladesh	20	5.9	↗	7.2	→	8.6	5.0	4.9	↗	3.9	5.7	5.7	→	5.1	6.3
Barbados	170	1.6	→	0.9	→	1.7	0.0	1.7	↗	2.6	0.8	2.6	↗	2.7	2.4
Belarus	161	1.9	→	1.6	→	1.8	1.3	1.2	→	1.0	1.3	3.4	↘	4.9	1.5
Belgium	180	1.2	→	0.7	→	1.4	0.0	1.8	→	0.8	2.7	1.5	↘	2.1	0.8
Belize	104	3.1	→	2.7	→	4.8	0.0	2.2	→	3.2	1.0	4.9	↘	5.4	4.4
Benin	89	3.5	→	1.3	→	1.2	1.3	4.6	→	6.4	2.2	7.2	→	5.8	8.3
Bhutan	111	2.9	→	1.5	→	2.8	0.1	3.3	→	4.9	1.2	5.0	↘	4.2	5.7
Bolivia	100	3.2	→	2.2	→	3.4	0.7	2.8	→	3.4	2.2	5.5	→	5.9	5.1
Bosnia and Herzegovina	70	4.0	↗	2.9	→	3.8	1.8	4.8	↗	2.6	6.5	4.6	→	6.0	2.8
Botswana	104	3.1	→	1.5	→	2.6	0.3	4.0	→	4.3	3.6	4.9	↗	4.9	4.9
Brazil	94	3.4	→	3.7	↘	3.7	3.6	2.5	↗	2.5	2.5	4.1	→	4.9	3.3
Brunei Darussalam	182	1.1	→	0.3	→	0.6	0.0	0.9	→	1.0	0.8	4.7	→	4.9	4.5
Bulgaria	134	2.5	→	2.2	→	3.1	1.1	2.3	↗	2.0	2.6	3.2	↘	4.2	2.0
Burkina Faso	37	4.8	↗	2.6	↗	2.4	2.7	6.8	↗	7.3	6.2	6.4	↘	4.7	7.7
Burundi	42	4.6	→	2.2	→	2.5	1.8	7.0	→	7.6	6.4	6.3	↘	6.1	6.5
Cabo Verde	122	2.7	→	1.1	→	2.0	0.1	4.0	↘	6.0	1.2	4.3	→	4.0	4.5
Cambodia	70	4.0	→	2.9	→	4.4	1.1	3.2	→	4.1	2.2	6.8	→	7.1	6.4
Cameroon	42	4.6	↗	2.9	↗	2.1	3.7	5.6	↗	4.9	6.2	6.0	→	4.8	7.0
Canada	122	2.7	→	3.3	→	4.9	1.4	2.4	→	0.9	3.7	2.4	→	2.3	2.4
Central African Republic	2	8.3	→	7.8	→	1.4	10.0	8.3	↘	8.3	8.2	8.7	↗	8.1	9.1
Chad	18	6.0	→	3.2	→	2.8	3.6	7.4	↗	6.8	8.0	9.0	→	7.9	9.7
Chile	104	3.1	→	5.0	→	7.4	0.9	2.1	→	2.4	1.7	2.9	→	2.9	2.9
China	56	4.3	→	6.9	→	8.2	5.1	2.9	→	1.7	4.0	4.0	→	4.2	3.8
Colombia	24	5.6	→	6.9	→	6.7	7.0	5.9	→	2.8	7.9	4.2	→	4.3	4.1
Comoros	122	2.7	→	0.5	→	0.8	0.1	5.6	→	7.6	2.4	7.1	↘	7.8	6.3
Congo	89	3.5	↘	1.1	→	1.9	0.2	5.1	↘	4.1	6.0	7.5	→	7.6	7.3
Congo DR	8	6.9	↘	5.3	↘	2.9	7.0	7.6	↘	7.1	8.1	8.1	→	7.8	8.3
Costa Rica	95	3.3	→	4.0	→	6.5	0.1	3.0	→	2.8	3.1	3.0	→	3.0	3.0
Côte d'Ivoire	42	4.6	→	2.1	→	1.5	2.7	6.0	↗	5.9	6.0	7.6	→	7.4	7.8
Croatia	138	2.4	→	3.1	→	5.3	0.1	1.4	↗	1.6	1.2	3.2	→	4.4	1.7
Cuba	134	2.5	→	3.8	→	5.1	2.3	1.3	→	2.3	0.2	3.3	↘	4.1	2.4
Cyprus	117	2.8	→	2.0	→	3.6	0.1	4.4	→	1.3	6.5	2.5	→	3.0	1.9
Czech Republic	170	1.6	→	1.2	→	2.0	0.4	1.5	↗	0.9	2.0	2.3	↘	3.3	1.1

COUNTRY	RANK	INFORM RISK	3 YR TREND	HAZARD & EXPOSURE	3 YR TREND	Natural	Human	VULNERABILITY	3 YR TREND	Socio-Economic Vulnerability	Vulnerable Groups	LACK OF COPING CAPACITY	3 YR TREND	Institutional	Infrastructure
Denmark	187	0.9	→	0.3	→	0.5	0.1	1.7	→	0.6	2.6	1.4	→	1.9	0.9
Djibouti	52	4.4	→	2.7	→	4.5	0.5	4.7	→	4.9	4.4	6.8	↗	6.3	7.2
Dominica	129	2.6	→	1.8	→	3.3	0.0	2.9	↗	4.5	0.9	3.4	↗	3.9	2.9
Dominican Republic	87	3.6	→	4.4	→	6.6	1.0	2.2	↗	2.7	1.6	4.8	→	5.5	4.0
Ecuador	56	4.3	↗	4.5	→	7.1	0.2	3.9	↗	3.3	4.5	4.5	↗	4.7	4.2
Egypt	42	4.6	↘	6.1	↘	5.0	7.0	3.4	↗	2.7	4.0	4.7	↗	5.4	3.9
El Salvador	89	3.5	→	3.5	→	5.8	0.3	2.6	→	3.7	1.3	4.7	→	5.5	3.8
Equatorial Guinea	122	2.7	→	0.8	→	1.3	0.2	3.3	↘	4.2	2.3	7.5	↗	8.2	6.7
Eritrea	37	4.8	↗	2.5	↗	2.9	2.0	5.6	↘	6.3	4.9	7.9	↗	8.2	7.5
Estonia	182	1.1	→	0.5	↗	0.9	0.1	1.3	↗	1.4	1.2	2.2	↘	3.1	1.3
Ethiopia	13	6.4	→	5.4	→	3.8	6.7	6.7	↗	6.7	6.6	7.3	↘	4.7	8.8
Fiji	100	3.2	→	3.4	→	5.7	0.1	2.4	→	3.7	0.9	4.2	↗	3.5	4.9
Finland	190	0.6	→	0.1	→	0.1	0.1	1.6	→	0.8	2.4	1.3	↗	1.6	1.0
France	122	2.7	→	3.6	→	3.8	3.3	2.6	→	0.9	4.0	2.0	→	2.8	1.2
Gabon	129	2.6	→	0.9	→	1.5	0.2	3.0	↘	3.0	3.0	6.3	→	6.6	6.0
Gambia	111	2.9	→	0.8	→	1.4	0.1	5.5	→	6.7	3.9	5.4	→	4.9	5.9
Georgia	77	3.9	→	3.8	→	3.9	3.7	4.5	↘	3.0	5.7	3.5	↘	4.6	2.2
Germany	161	1.9	→	1.8	→	2.1	1.4	2.3	→	0.6	3.8	1.6	→	2.4	0.7
Ghana	110	3.0	→	1.3	→	1.3	1.2	3.7	→	4.1	3.3	5.4	→	4.3	6.4
Greece	129	2.6	↗	3.7	→	5.3	1.7	1.9	↗	1.3	2.4	2.4	→	3.6	1.0
Grenada	161	1.9	→	0.9	→	1.8	0.0	2.1	↗	2.9	1.3	3.8	→	4.6	2.8
Guatemala	29	5.1	↗	4.3	→	6.5	1.1	5.1	↗	4.4	5.7	6.0	↗	6.1	5.8
Guinea	29	5.1	↗	3.5	↗	3.1	3.9	5.1	↗	6.2	3.8	7.6	↗	6.3	8.6
Guinea-Bissau	70	4.0	↗	1.2	↗	1.7	0.6	6.6	↗	7.8	4.9	7.9	↘	7.9	7.8
Guyana	117	2.8	→	1.5	→	2.8	0.1	2.7	↗	4.1	1.0	5.6	→	6.2	4.9
Haiti	18	6.0	↘	4.6	→	6.1	2.7	6.3	↘	6.9	5.6	7.6	→	7.4	7.8
Honduras	50	4.5	↗	3.9	→	5.9	1.0	4.2	↗	4.2	4.2	5.4	↗	6.0	4.8
Hungary	154	2.0	↗	2.1	→	3.5	0.4	1.7	↗	1.6	1.8	2.1	↗	2.8	1.3
Iceland	180	1.2	→	0.9	→	1.7	0.0	0.9	→	0.7	1.0	2.0	→	2.1	1.8
India	24	5.6	→	7.4	→	7.8	6.9	4.7	→	4.0	5.3	5.1	↗	3.8	6.1
Indonesia	42	4.6	→	6.5	→	7.4	5.5	2.8	↘	2.4	3.1	5.2	↗	4.7	5.6
Iran	42	4.6	→	4.6	→	6.7	1.4	4.4	→	2.9	5.6	4.9	↗	5.7	4.0
Iraq	6	7.2	↗	8.5	→	5.1	10.0	6.1	↗	2.8	8.1	7.1	↗	8.1	5.9
Ireland	173	1.5	↗	1.3	→	2.4	0.1	1.3	↗	0.8	1.8	2.0	→	2.4	1.5
Israel	134	2.5	→	2.9	↘	3.3	2.4	2.3	→	1.2	3.2	2.3	→	3.3	1.1
Italy	111	2.9	→	4.4	→	5.1	3.6	2.2	→	1.1	3.2	2.5	→	3.7	1.0
Jamaica	117	2.8	→	2.2	→	3.9	0.2	2.4	↗	3.3	1.3	4.3	↗	4.5	4.0
Japan	149	2.1	→	6.2	→	8.5	1.8	0.9	↗	0.9	0.9	1.6	↗	2.0	1.1
Jordan	80	3.8	→	2.1	→	2.8	1.3	6.1	↗	3.6	7.8	4.4	→	5.7	2.8
Kazakhstan	149	2.1	→	2.2	→	3.5	0.6	1.0	↗	1.5	0.5	4.0	→	5.2	2.6
Kenya	16	6.2	→	5.8	→	4.2	7.0	6.1	↘	5.1	7.0	6.6	↗	5.4	7.5
Kiribati	50	4.5	↗	2.7	→	4.7	0.1	5.2	↗	6.9	2.7	6.5	↗	6.7	6.3
Korea DPR	52	4.4	↗	3.0	→	4.1	1.8	4.0	↗	5.0	2.9	7.2	→	9.1	3.6
Korea, Republic of	167	1.7	→	3.6	→	5.9	0.4	0.7	→	0.8	0.5	2.0	→	2.6	1.4
Kuwait	154	2.0	→	1.4	→	2.2	0.5	1.6	→	2.0	1.2	3.7	→	5.4	1.6



COUNTRY	RANK	INFORM RISK	3 YR TREND	HAZARD & EXPOSURE	3 YR TREND	Natural	Human	VULNERABILITY	3 YR TREND	Socio-Economic Vulnerability	Vulnerable Groups	LACK OF COPING CAPACITY	3 YR TREND	Institutional	Infrastructure
Kyrgyzstan	95	3.3	↘	3.5	↗	5.4	1.1	2.3	↘	3.4	1.0	4.6	→	5.3	3.8
Lao PDR	62	4.2	↗	2.9	↗	4.4	1.1	3.8	→	4.2	3.3	6.5	→	6.6	6.4
Latvia	170	1.6	→	1.0	→	1.8	0.1	1.5	↗	1.8	1.2	2.9	↘	3.9	1.7
Lebanon	29	5.1	↗	4.5	↗	4.1	4.8	6.9	↗	4.2	8.5	4.3	→	5.7	2.6
Lesotho	77	3.9	↗	1.7	↗	2.0	1.3	5.3	↗	6.4	4.0	6.6	↘	7.0	6.2
Liberia	70	4.0	→	1.1	→	1.6	0.6	7.1	↘	8.3	5.4	8.0	→	7.0	8.8
Libya	20	5.9	↗	6.5	↗	4.2	8.0	4.7	↗	2.1	6.6	6.8	↗	8.1	4.8
Liechtenstein	182	1.1	→	0.7	→	1.3	0.0	1.6	↗	0.6	2.5	1.2	↘	1.5	0.9
Lithuania	174	1.4	→	0.8	→	1.5	0.1	1.3	→	1.3	1.2	2.6	↘	3.8	1.3
Luxembourg	189	0.7	→	0.2	→	0.3	0.1	1.2	↘	1.1	1.3	1.3	→	1.8	0.7
Macedonia FYR	117	2.8	↗	2.1	→	2.8	1.3	2.7	↗	2.5	2.9	3.7	→	4.6	2.7
Madagascar	35	4.9	→	3.6	→	5.7	0.7	4.2	→	5.3	3.0	7.9	↗	6.0	9.1
Malawi	62	4.2	↗	2.0	→	3.3	0.5	5.8	↗	7.0	4.2	6.4	↗	5.2	7.3
Malaysia	89	3.5	↗	3.8	↗	4.3	3.2	3.4	↗	2.4	4.2	3.3	→	3.2	3.3
Maldives	138	2.4	→	1.9	→	3.4	0.0	1.8	↘	2.6	1.0	4.1	→	5.7	1.9
Mali	10	6.6	↘	6.2	↘	3.2	8.0	6.8	↘	7.7	5.6	6.8	↘	5.9	7.6
Malta	167	1.7	→	0.9	→	1.6	0.1	2.4	→	1.7	3.0	2.3	↘	3.5	1.0
Marshall Islands	62	4.2	↗	2.0	→	3.6	0.0	5.5	↗	7.5	2.4	6.7	↗	7.8	5.2
Mauritania	29	5.1	↘	3.4	→	4.5	2.0	5.7	↘	6.2	5.1	7.0	↘	5.9	7.9
Mauritius	148	2.2	→	1.7	→	3.2	0.0	2.1	→	3.1	0.9	3.0	→	3.6	2.3
Mexico	35	4.9	→	8.2	→	7.1	9.0	3.2	↗	2.2	4.1	4.5	→	5.3	3.6
Micronesia	70	4.0	→	2.2	→	3.9	0.0	4.8	→	6.6	2.3	6.0	↗	6.1	5.8
Moldova, Republic of	95	3.3	→	3.5	→	3.8	3.2	2.2	→	2.9	1.5	4.8	→	6.2	2.9
Mongolia	104	3.1	→	2.4	→	2.7	2.0	2.4	→	3.2	1.6	5.2	→	5.6	4.8
Montenegro	122	2.7	→	2.2	→	3.9	0.1	2.5	↗	2.2	2.8	3.6	→	4.7	2.4
Morocco	89	3.5	↗	2.9	→	4.3	1.1	2.8	↗	4.3	0.9	5.1	→	5.6	4.5
Mozambique	20	5.9	→	4.7	↗	6.0	3.0	6.3	↘	7.5	4.6	6.8	↘	4.4	8.4
Myanmar	9	6.8	↗	7.7	→	8.2	7.0	5.8	↗	5.5	6.0	7.0	↗	7.6	6.2
Namibia	84	3.7	→	2.0	→	3.2	0.6	4.7	→	4.8	4.5	5.5	↗	4.6	6.3
Nauru	129	2.6	↗	0.7	→	1.3	0.0	4.2	↗	5.3	3.0	5.9	→	7.2	4.2
Nepal	29	5.1	↗	4.2	→	5.5	2.5	5.1	↗	4.1	6.0	6.1	→	6.2	5.9
Netherlands	174	1.4	→	0.9	→	1.7	0.1	2.1	→	0.5	3.5	1.4	↗	1.7	1.0
New Zealand	154	2.0	→	3.5	→	5.8	0.1	1.1	→	0.9	1.3	2.1	→	1.9	2.2
Nicaragua	68	4.1	→	4.3	→	6.6	0.9	2.9	→	3.9	1.8	5.5	→	5.8	5.1
Niger	23	5.7	→	3.4	→	3.0	3.8	6.8	↘	7.4	6.0	7.9	→	5.9	9.1
Nigeria	15	6.3	→	6.8	→	2.3	9.0	5.6	↘	4.1	6.8	6.6	↗	5.0	7.8
Norway	186	1.0	→	0.3	→	0.2	0.3	2.0	→	0.2	3.5	1.6	→	1.9	1.3
Oman	111	2.9	→	3.5	→	5.8	0.3	1.7	→	2.5	0.8	4.2	↗	5.1	3.1
Pakistan	13	6.4	→	7.5	↘	6.9	8.0	5.6	→	4.0	6.9	6.1	↗	5.5	6.6
Palau	122	2.7	→	1.2	→	2.2	0.0	3.2	→	5.1	0.8	5.1	→	6.1	4.0
Palestine	17	6.1	↗	6.8	↗	2.4	9.0	6.8	↗	4.3	8.4	4.8	→	6.2	2.9
Panama	84	3.7	→	3.7	→	5.5	1.2	3.2	→	3.1	3.2	4.4	↗	4.9	3.9
Papua New Guinea	29	5.1	→	3.1	↘	5.2	0.2	5.2	→	6.4	3.7	8.1	→	6.9	9.0
Paraguay	134	2.5	→	1.2	→	2.1	0.1	2.6	↗	3.7	1.3	4.8	→	5.5	4.0
Peru	52	4.4	→	5.2	→	7.6	1.3	3.4	→	2.3	4.3	4.7	↗	4.7	4.7
Philippines	28	5.2	→	8.1	↘	8.9	7.0	4.0	↗	2.5	5.2	4.4	→	4.6	4.1
Poland	149	2.1	→	1.7	→	2.1	1.3	1.9	→	1.4	2.3	2.9	→	4.1	1.6
Portugal	161	1.9	→	2.6	→	4.6	0.1	1.3	→	1.4	1.1	2.0	→	2.9	1.0
Qatar	178	1.3	→	0.5	→	0.9	0.1	1.7	→	2.5	0.9	2.4	↗	3.9	0.5
Romania	111	2.9	→	3.8	→	4.4	3.2	1.7	→	1.9	1.5	3.7	↗	4.6	2.7
Russian Federation	40	4.7	↗	6.6	→	6.1	7.0	3.3	↗	2.3	4.1	4.8	→	6.5	2.4

COUNTRY	RANK	INFORM RISK	3 YR TREND	HAZARD & EXPOSURE	3 YR TREND	Natural	Human	VULNERABILITY	3 YR TREND	Socio-Economic Vulnerability	Vulnerable Groups	LACK OF COPING CAPACITY	3 YR TREND	Institutional	Infrastructure
Rwanda	52	4.4	↗	2.6	↘	2.9	2.2	5.9	↗	6.6	5.1	5.4	→	4.1	6.5
Saint Kitts and Nevis	138	2.4	↗	1.7	↘	3.1	0.0	2.7	↗	4.2	0.8	2.9	→	3.6	2.2
Saint Lucia	138	2.4	↗	1.7	↗	3.2	0.0	2.3	↘	3.5	0.8	3.7	→	4.1	3.3
Saint Vincent and the Grenadines	149	2.1	→	1.3	↗	2.4	0.0	2.1	↗	3.1	0.9	3.4	→	3.3	3.5
Samoa	144	2.3	→	0.7	↗	1.3	0.0	3.9	↗	6.2	0.4	4.4	↗	4.7	4.1
Sao Tome and Principe	178	1.3	→	0.1	↗	0.1	0.0	3.8	↘	5.6	1.4	5.7	↗	6.2	5.2
Saudi Arabia	138	2.4	↘	2.5	↗	2.1	2.8	1.4	↘	2.0	0.7	3.9	↘	5.0	2.6
Senegal	56	4.3	→	2.4	↗	2.4	2.4	5.4	→	6.0	4.7	6.2	→	5.3	7.0
Serbia	70	4.0	→	3.3	↗	4.6	1.7	4.6	↗	2.0	6.4	4.1	→	5.3	2.7
Seychelles	144	2.3	→	1.3	↗	2.4	0.0	2.7	↘	3.9	1.2	3.6	→	4.4	2.6
Sierra Leone	56	4.3	→	2.0	↗	1.2	2.7	5.6	↘	7.0	3.6	7.1	→	5.3	8.3
Singapore	191	0.4	→	0.1	↗	0.1	0.0	0.5	↗	0.7	0.3	1.2	→	1.3	1.1
Slovakia	161	1.9	→	2.0	↗	3.2	0.6	1.3	↗	1.2	1.3	2.6	↘	3.8	1.3
Slovenia	174	1.4	→	1.4	↗	2.6	0.1	1.0	→	0.7	1.2	1.9	→	2.3	1.4
Solomon Islands	24	5.6	↗	3.9	↗	6.4	0.0	6.4	↗	8.1	3.6	7.0	→	6.7	7.3
Somalia	1	8.7	↘	8.8	→	6.2	10.0	8.3	↘	7.7	8.8	9.1	↘	9.3	8.8
South Africa	80	3.8	→	2.9	↗	3.5	2.2	4.0	→	3.4	4.5	4.6	↗	4.4	4.7
South Sudan	3	7.9	↗	6.8	→	2.4	9.0	8.2	↗	7.8	8.6	8.9	↗	8.3	9.4
Spain	149	2.1	→	3.5	↗	4.4	2.4	1.4	→	1.1	1.7	1.9	→	2.8	0.8
Sri Lanka	56	4.3	↗	4.4	→	5.3	3.4	4.0	↗	2.7	5.1	4.4	↗	4.8	4.0
Sudan	6	7.2	→	7.1	↗	3.5	9.0	7.1	→	5.4	8.3	7.3	↗	6.7	7.8
Suriname	129	2.6	→	1.6	↗	3.0	0.0	2.1	↘	3.0	1.1	5.0	→	5.7	4.2
Swaziland	104	3.1	↗	1.3	↗	1.8	0.8	4.0	→	4.6	3.4	5.6	→	5.1	6.1
Sweden	182	1.1	→	0.4	→	0.7	0.1	2.6	→	0.5	4.3	1.4	→	1.9	0.9
Switzerland	174	1.4	→	1.4	↗	1.8	0.9	2.1	→	0.5	3.5	0.9	↘	1.2	0.6
Syria	10	6.6	↗	8.4	→	4.4	10.0	6.0	→	3.6	7.7	5.8	↗	6.3	5.3
Tajikistan	70	4.0	→	3.9	↗	5.6	1.8	3.0	→	3.0	2.9	5.4	→	6.1	4.5
Tanzania	42	4.6	→	2.7	→	4.0	1.1	5.5	→	5.7	5.2	6.6	→	5.1	7.8
Thailand	56	4.3	→	5.8	↘	6.3	5.2	3.2	→	2.0	4.2	4.3	→	5.1	3.5
Timor-Leste	68	4.1	→	2.0	→	3.5	0.3	4.6	↘	4.7	4.5	7.3	→	6.9	7.7
Togo	77	3.9	→	1.5	→	1.3	1.6	4.9	↘	5.4	4.3	8.1	↘	8.3	7.9
Tonga	95	3.3	→	1.9	→	3.5	0.0	3.9	→	5.9	1.0	4.9	↗	5.6	4.2
Trinidad and Tobago	154	2.0	→	1.4	→	2.5	0.1	1.7	↗	1.8	1.5	3.6	→	4.9	2.1
Tunisia	117	2.8	↘	2.6	↘	4.3	0.4	1.7	→	2.3	1.0	4.9	→	6.0	3.6
Turkey	40	4.7	→	6.3	→	5.9	6.7	4.9	↗	2.8	6.5	3.3	→	3.5	3.1
Turkmenistan	87	3.6	↗	3.1	→	4.5	1.3	2.4	↗	2.7	2.1	6.5	↘	8.0	4.2
Tuvalu	104	3.1	↗	1.0	→	2.0	0.0	5.2	↗	7.5	1.3	5.6	↗	6.3	4.7
Uganda	12	6.5	→	6.1	→	3.1	8.0	6.2	→	5.9	6.5	7.1	→	6.8	7.4
Ukraine	27	5.4	↗	6.9	↗	2.8	9.0	4.4	↗	1.6	6.4	5.2	↘	6.9	2.7
United Arab Emirates	154	2.0	→	3.3	→	5.4	0.4	1.1	→	1.8	0.3	2.2	↘	2.5	1.8
United Kingdom	154	2.0	→	2.1	→	2.2	2.0	2.3	→	1.2	3.3	1.6	→	2.2	1.0
United States of America	100	3.2	→	6.4	→	7.4	5.1	2.4	→	1.3	3.4	2.2	→	2.7	1.7
Uruguay	166	1.8	→	1.0	→	1.1	0.8	1.9	↗	2.4	1.3	2.9	→	3.8	2.0
Uzbekistan	95	3.3	→	4.5	→	5.9	2.8	1.8	→	2.0	1.6	4.4	→	5.1	3.7
Vanuatu	42	4.6	↗	3.4	→	5.8	0.0	4.4	↗	5.5	3.2	6.3	↗	5.4	7.1
Venezuela	80	3.8	→	3.4	→	5.7	0.2	3.7	→	3.0	4.3	4.5	→	5.1	3.9
Viet Nam	84	3.7	→	5.6	→	7.3	3.0	1.9	→	2.7	1.0	4.6	→	5.3	3.8
Yemen	5	7.5	↗	8.1	→	2.7	10.0	6.6	↗	4.8	7.9	7.9	↗	8.2	7.6
Zambia	62	4.2	→	2.0	→	2.1	1.8	5.7	→	5.8	5.6	6.3	→	4.8	7.5
Zimbabwe	62	4.2	→	2.4	→	2.5	2.2	5.4	↘	5.3	5.4	5.7	↗	5.1	6.2



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