

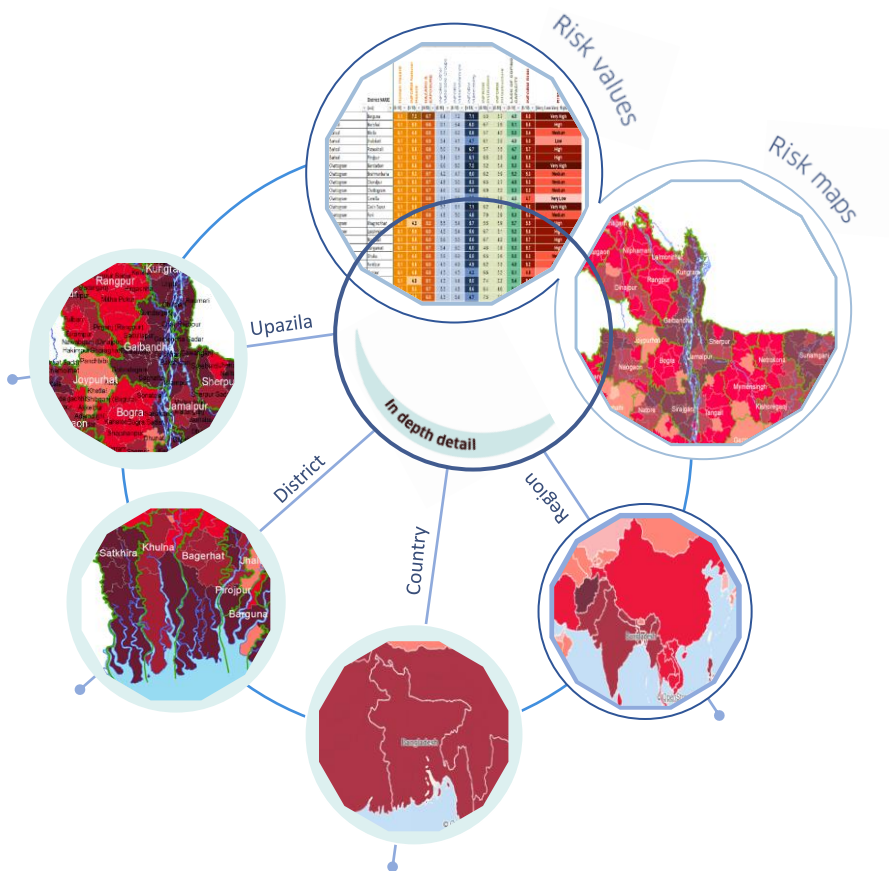


Ministry of Disaster Management and Relief



# INFORM RISK

## Bangladesh INFORM Sub-National Risk Index 2022





# Bangladesh

## INFORM Subnational Risk Index 2022

### Foreword



**Gwyn Lewis**  
United Nations  
Resident Coordinator  
United Nations in  
Bangladesh



**Kamrul Hasan, ndc**  
Ministry of Disaster  
Management and  
Relief, Government  
of the People's  
Republic of  
Bangladesh

Bangladesh is recognized as one of the worst affected countries when it comes to the impacts of climate change. The Bangladesh geographical location makes it highly prone to natural hazards such as cyclones, floods, landslides, thunderstorms, and earthquakes. Having witnessed the devastating impact of the 2022 northeastern flash flood on over 7.2 million people, reminded us of the continued and intensifying threat of climate disruption, which disproportionately affects the poor and vulnerable, women and children. These hazards can also undermine the rapid development gains made by Bangladesh and hinder the country's trajectory of achieving the 2030 Sustainable Development Goals. Addressing the climate vulnerability calls upon us to continuously apprise localized information on who and where are those most affected. The government of Bangladesh and development partners are thus looking at how institutional capacity can be strengthened, particularly given the predicted increases in both the occurrences and intensity of climate-related disasters.

To provide a solid baseline for risk monitoring in Bangladesh, a localized, sub-national Index For Risk Management (INFORM) was developed by the United Nations Resident Coordinator's Office (UNRCO) in collaboration with the Ministry of Disaster Management and Relief (MoDMR) with technical support from the Network for Information, Response and Preparedness Activities on Disaster (NIRAPAD) and the Bangladesh Bureau of Statistics. Adapting this global, open-source risk assessment tool to monitor and measure risks in each of Bangladesh's 64 districts and 553 Upazilas and/or Thanas will allow for much more targeted interventions. The technical and financial support extended by the United Nations Disaster Risk Reduction (UNDRR), the United Kingdom's Foreign Commonwealth & Development Office (FCDO), the European Civil Protection and Humanitarian Aid Operations (ECHO), and the United States Agency for International Development (USAID).

By relying on shared risk analysis, government, donors, humanitarian and development actors can align our actions and funding decisions towards risk reduction and management. INFORM will help us integrate disaster risk management into our ongoing work in Disaster Risk Reduction (DRR), Anticipatory Actions, and in humanitarian planning processes. This monitoring also identifies clear areas of improvement in areas such as the National Disaster Statistics gathering, which will support efforts such as the Sendai Framework Monitoring. With INFORM being an ever-adaptive tool, the efforts we invest now in making the Index as precise as possible will bear fruits in years to come.



# Bangladesh

## INFORM Subnational Risk Index 2022

### Technical Expert Group- Led by MoDMR

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**Ms. Subhra Bhattacharjee**, Strategic Planner and Head of United Nations Resident Coordinator's Office in Bangladesh (UNRCO)

**Mr. Mohammad Mahabubul Alam**, Vulnerability Analysis and Mapping (VAM) Officer, World Food Programme (WFP)



# Bangladesh

## INFORM Subnational Risk Index 2022

### INFORM Sub-National Index: Bangladesh Team

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**Galiya Ibragimova**, INFORM Data Management Regional Coordinator, UNDRR

**Iria Touzon Calle**, Risk knowledge and analysis Programme Officer, UNDRR

### Technical Support by

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### Developed by

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Developed by UNDRR and UNRC office in collaboration with Ministry of Disaster Management and Relief, INFORM team of JRC EU and financial support from UNDRR- USAID BHA and support through the Office of the United National Resident Coordinator in Bangladesh through FCDO and ECHO.

## About INFORM

INFORM is a multi-stakeholder forum for developing shared, quantitative analysis relevant to humanitarian crises and disasters. INFORM includes organizations from across the multilateral system, including the humanitarian and development sector, donors, and technical partners. The Joint Research Center of European Commission is the scientific and technical lead for INFORM. INFORM follow four principles- global, open, reliable and flexible

INFORM is developing a suite of quantitative, analytical products to support decision-making on humanitarian crises and disasters. The model can support decisions on crisis and disaster response, preparedness, and resilience, as well as sustainable development. INFORM develops methodologies and tools for use at the global level and supports their application at subnational level.

## INFORM Principles

### Global

INFORM Global products cover 191 countries and Subnational products include all parts of the region or country they cover.

### Open

All INFORM products are freely available and the methodology and sources are open and transparent.

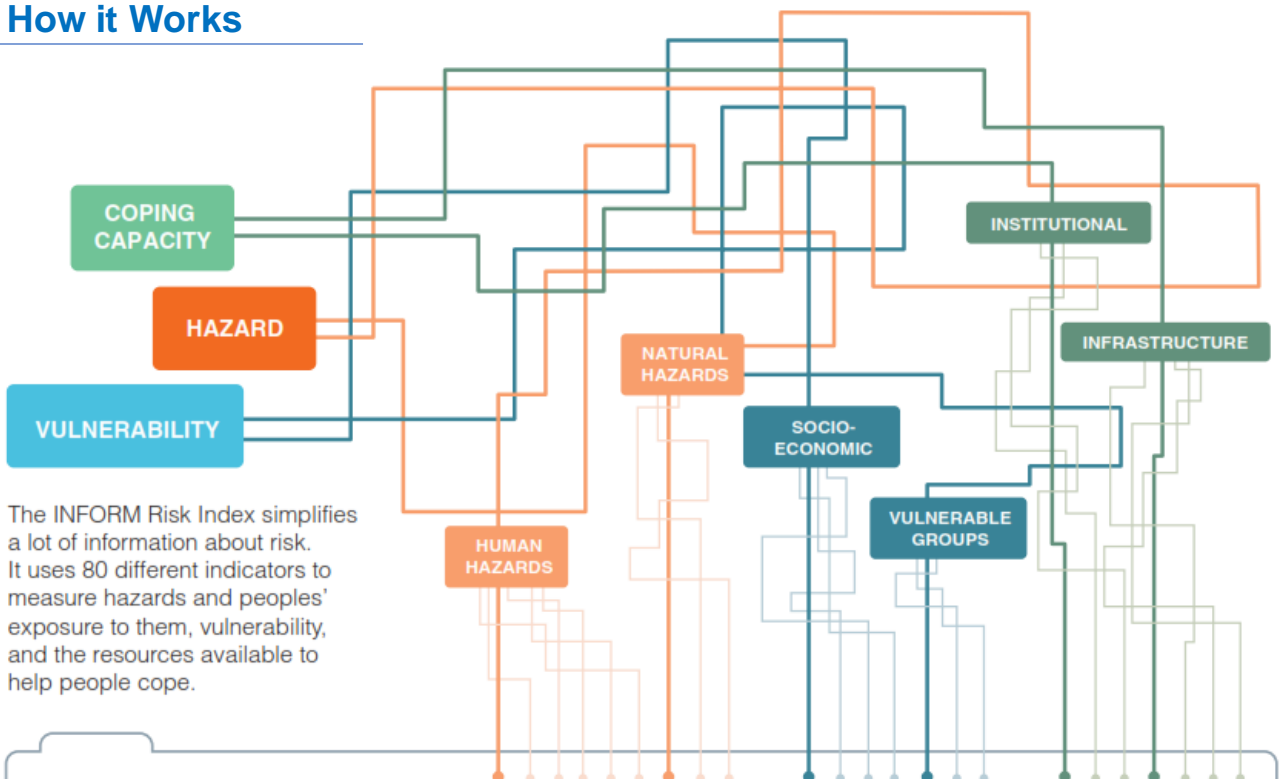
### Reliable

INFORM products use the best available methods and data. INFORM partners have committed to make them available into the future.

### Flexible

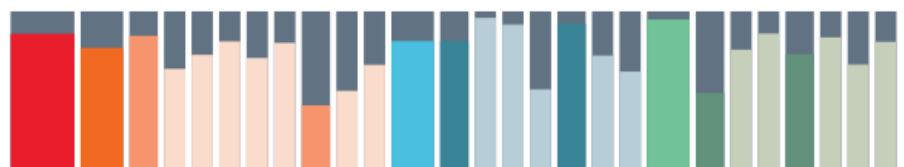
INFORM products can be easily adapted and included into the decision-making processes of users.

## How it Works



The INFORM Risk Index simplifies a lot of information about risk. It uses 80 different indicators to measure hazards and peoples' exposure to them, vulnerability, and the resources available to help people cope.

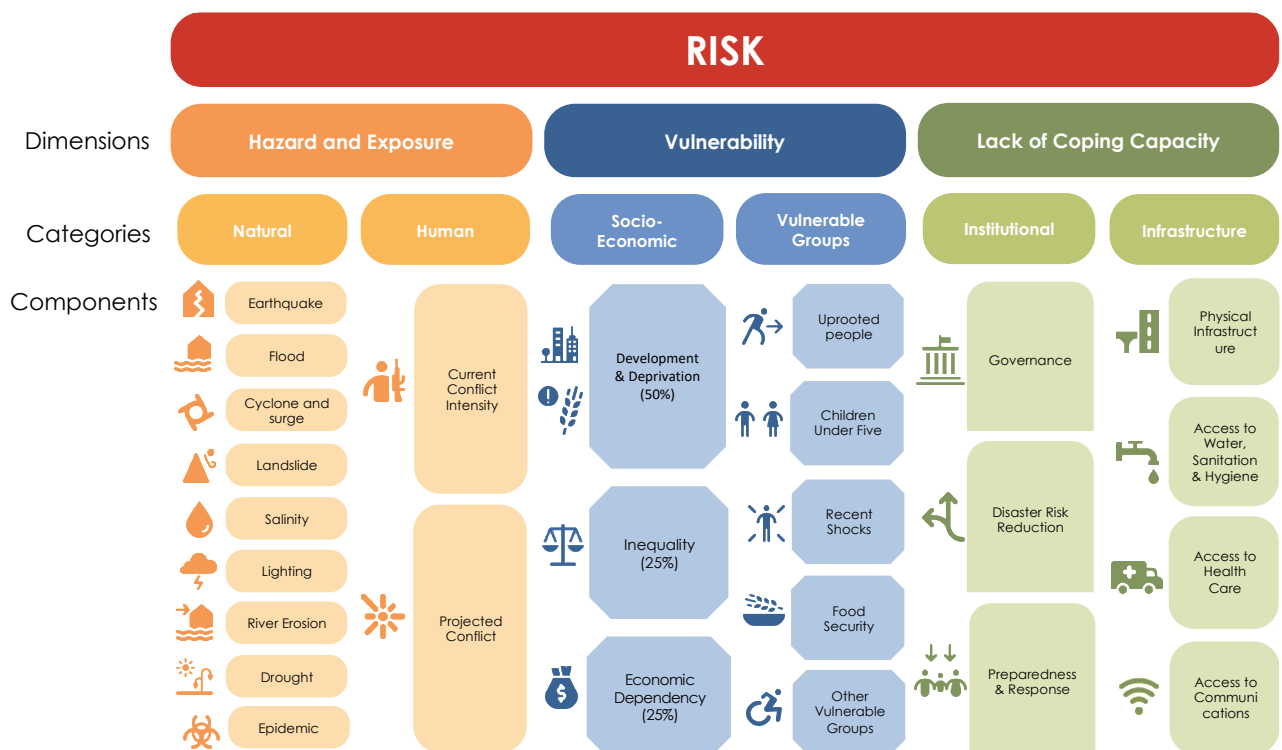
The INFORM Risk Index creates a risk profile for every country. Each has a rating between **0** and **10** for risk and all of its components, so it's easy to compare.



## INFORM Sub-National Risk Index

INFORM is an open-source risk assessment methodology for humanitarian crises and disasters. An INFORM Subnational risk index shows a detailed picture of risk and its components that is comparable across a single region or country. It can be used by decision-makers to analyse and visualise risk. The model can support decisions on crisis and disaster response, preparedness, and resilience, as well as sustainable development.

**The model** are measured in three risk dimensions: hazard and exposure, vulnerability, and lack of coping capacity. Each dimension consists of 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, inequality, or access to health care. Indicators are the individual datasets that make up INFORM, e.g. the physical exposure to earthquakes of a certain magnitude, gender inequality index, or density of nurses.



## Indicators Overview

### Hazard and Exposure

**31** Indicators

**Hazard and Exposure** comprise 09 major components of natural hazards and exposures along with 02 human-made hazard components. In absence of localized earthquake exposure information and human hazard-related data, national-level data has been used from the global INFORM index.

### Vulnerability

**32** Indicators

**Vulnerability** dimensions are built up on the 03 components of socio-economic categories and 05 components of vulnerable groups. In absence of localized economic dependency-related specific indicator data, national-level indicators data has been used from the global INFORM index.

### Lack of Coping Capacity

**26** Indicators

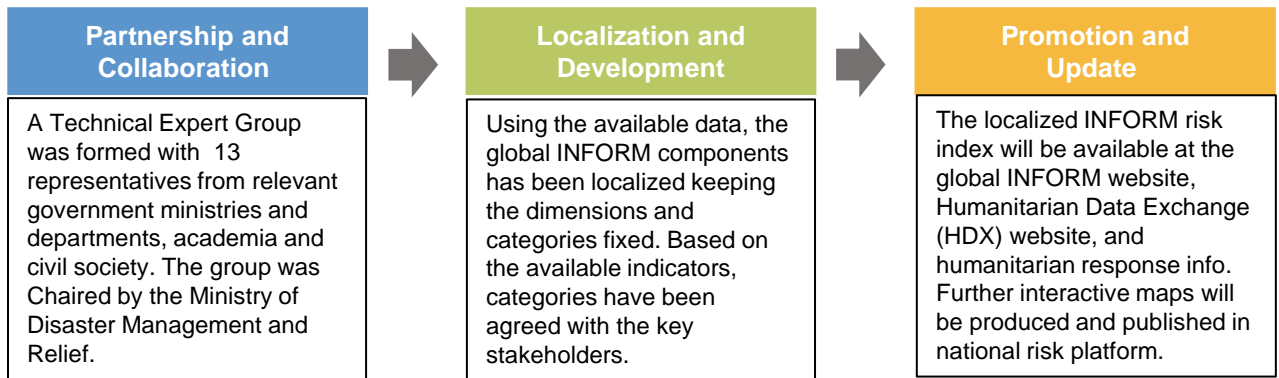
**Lack of Coping Capacity** dimensions built up on the 03 components of Institutional categories and 04 components of Infrastructure categories. In absence of localized governance-related indicators data, national-level indicators data has been used from the global INFORM index.

**03 Common Indicator has been used for analyzing and constructing the INFORM Sub-National Index**



## INFORM Localised Approach

The subnational INFORM risk index 2022 for Bangladesh gathered data from **64 Districts and 553 Upazilas and/or Thanas** across the country. A total of 89 indicators have been collected and indexed by following the INFORM sub-national risk index guideline. The process of development in collaboration with the Ministry of Disaster Management and Relief and the Bangladesh Bureau of Statistics. The following three steps are used to produce the INFORM Risk Index.



## Use of INFORM Risk Index



The sub-national INFORM risk index development process can help the government entities, humanitarian and development organisations and donors for a shared analysis of disaster risk to ensure their collective actions are better aligned to reduce and manage risk.



The INFORM sub-national risk index can be used to analyse and compare risk and its components across the Districts and Upazilas in Bangladesh. This can help to identify at-risk areas and determine the major driving factors of risk, which can help to decide how to manage it.



The INFORM sub-national risk index contributes to the national government or intergovernmental risk assessment and development planning process by integrating disaster risk information into existing prevention, preparedness, anticipatory action, response and recovery interventions.

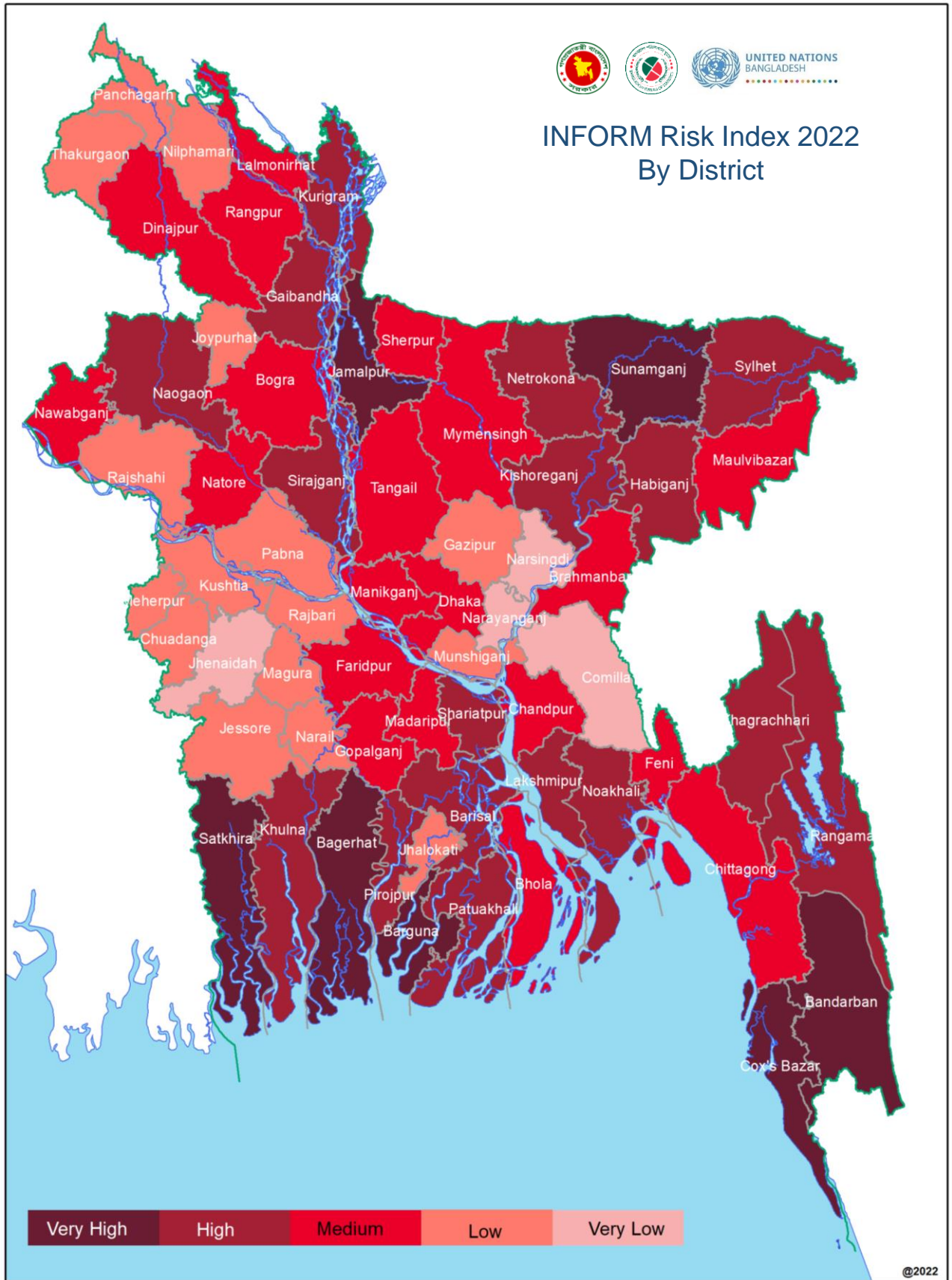


The INFORM sub-national risk index provides quantitative analysis that can support the Common Country Assessment, United Nations Development Assistance Framework, Humanitarian Program Cycle, implementation of the Sendai Framework for Disaster Risk Reduction, Strategic Preparedness and Response for Resilience to Disaster (SPEED) etc.

## Data Reliability

The INFORM risk index calculates a lack of reliability index, which is composed of three indicators: the number of missing and imputed datasets, the recentness of the data, and the degree of subnational data that was included (national values were used when subnational data was missing – a less desired practice). The lack of reliability index scores data on a 0 to 10 scale, where 10 is the least reliable. The lack of reliability index shows that results for Districts are more reliable than the Upazila.

**INFORM Risk: District Map**

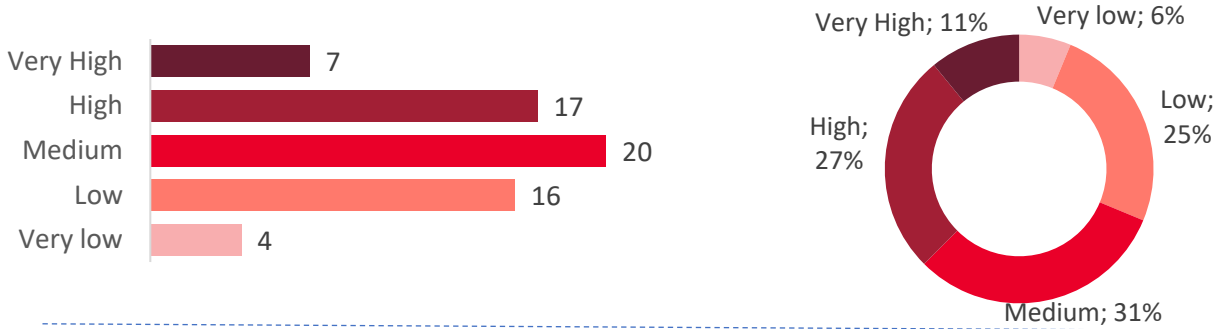


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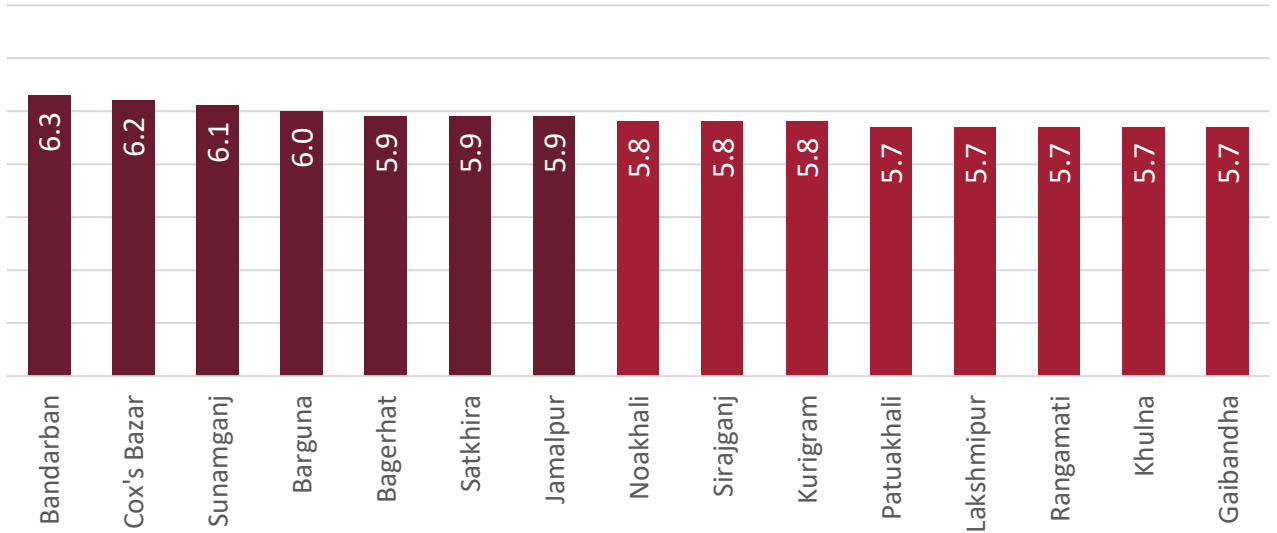


## INFORM Risk Distribution 2022: District

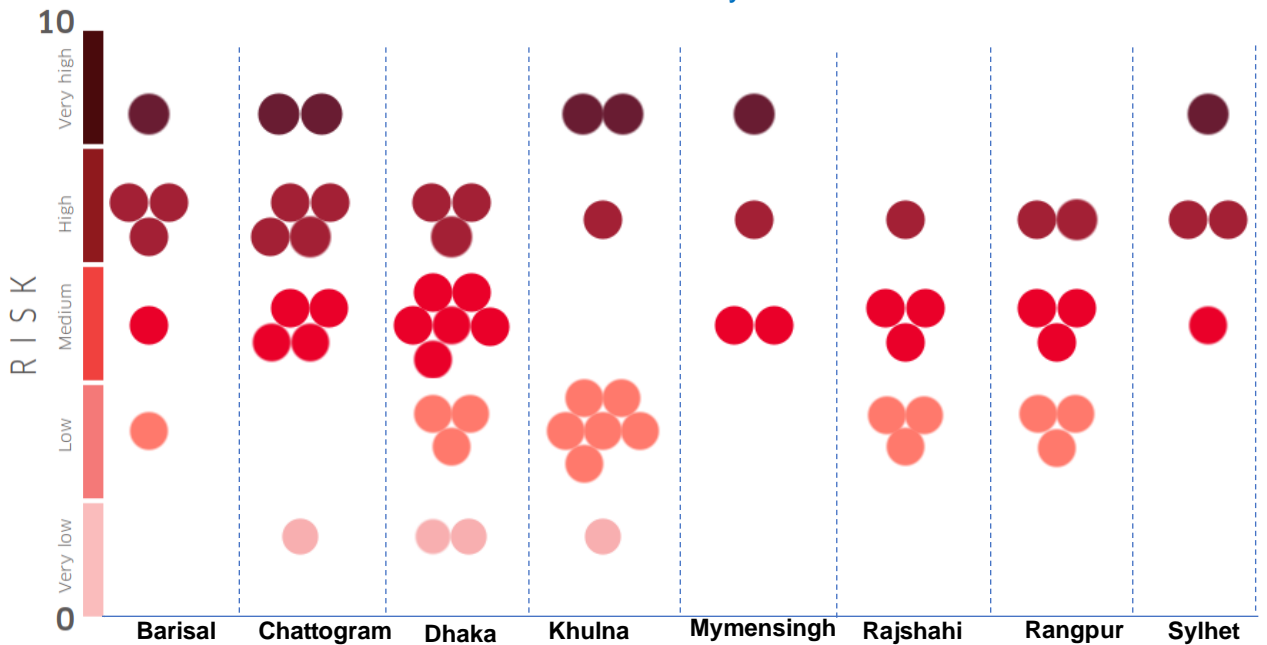
Number and Percentage of Districts in Different Risk Levels



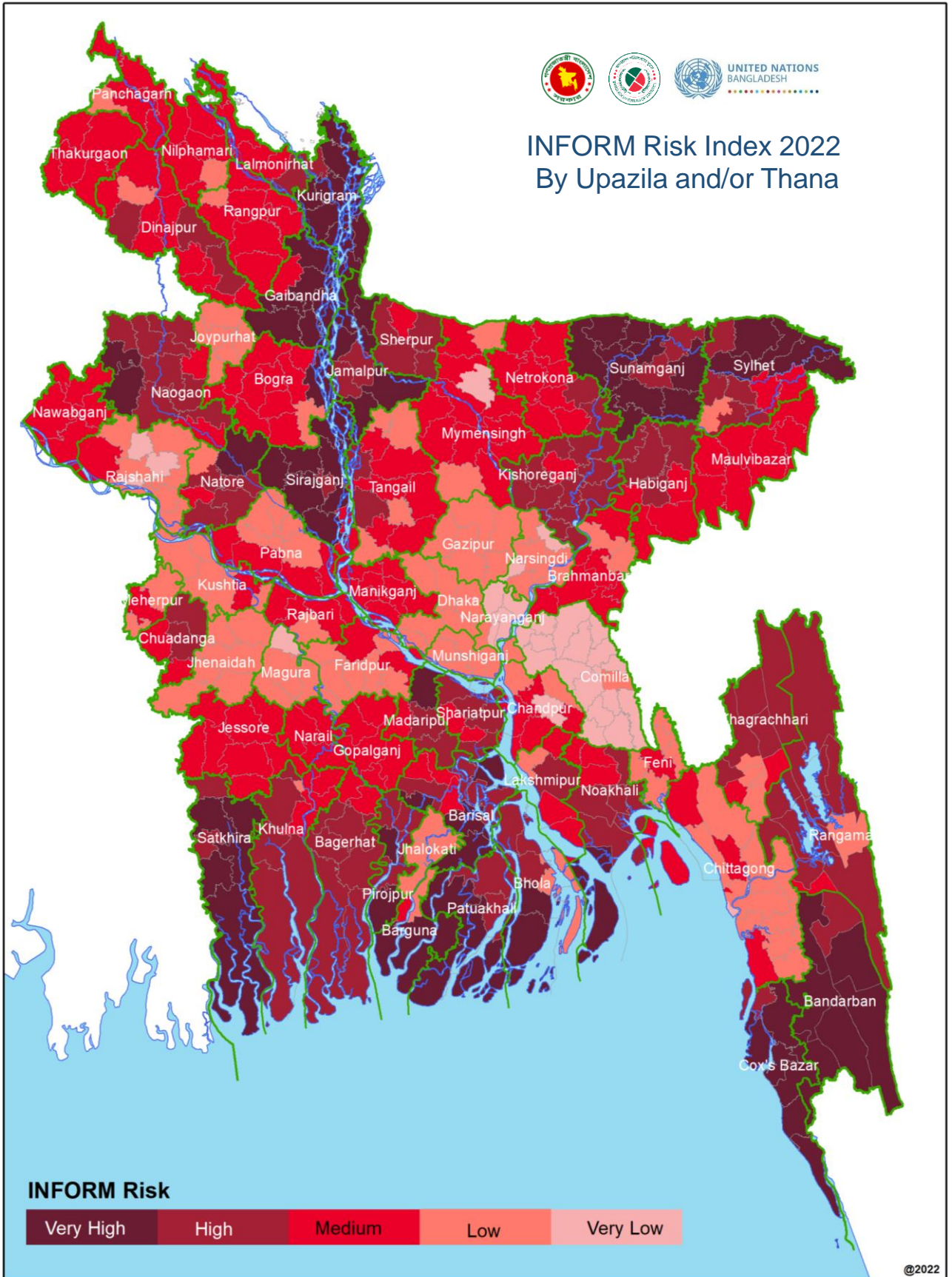
15 Top Risk Prone Districts



District Risk Distribution by Divisions



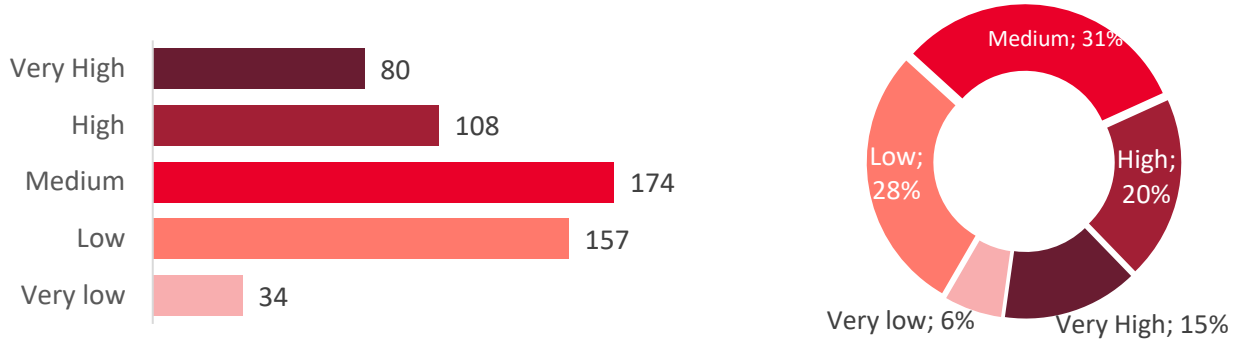
**INFORM Risk: Upazila and/or Thana Map**



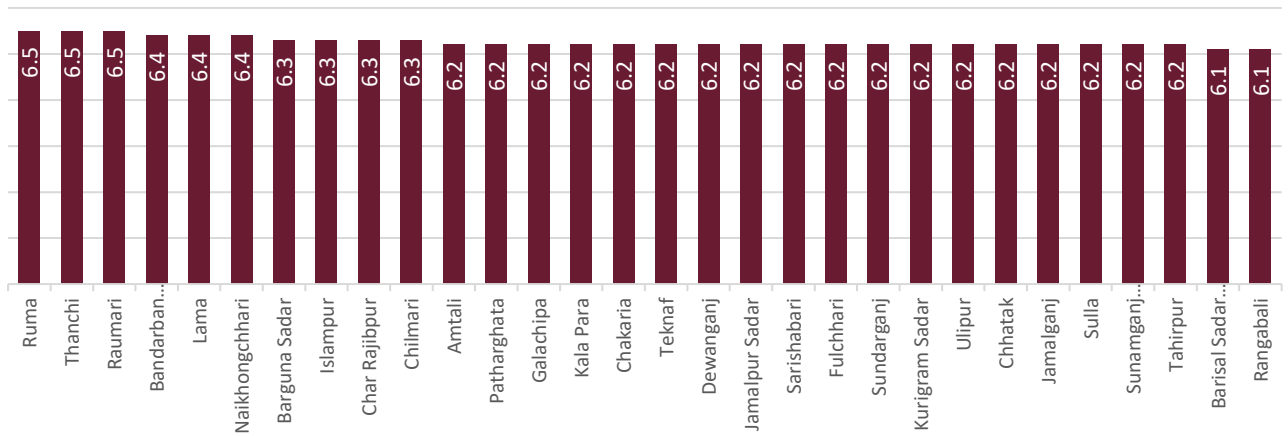
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## INFORM Risk Distribution 2022: Upazila and/or Thana

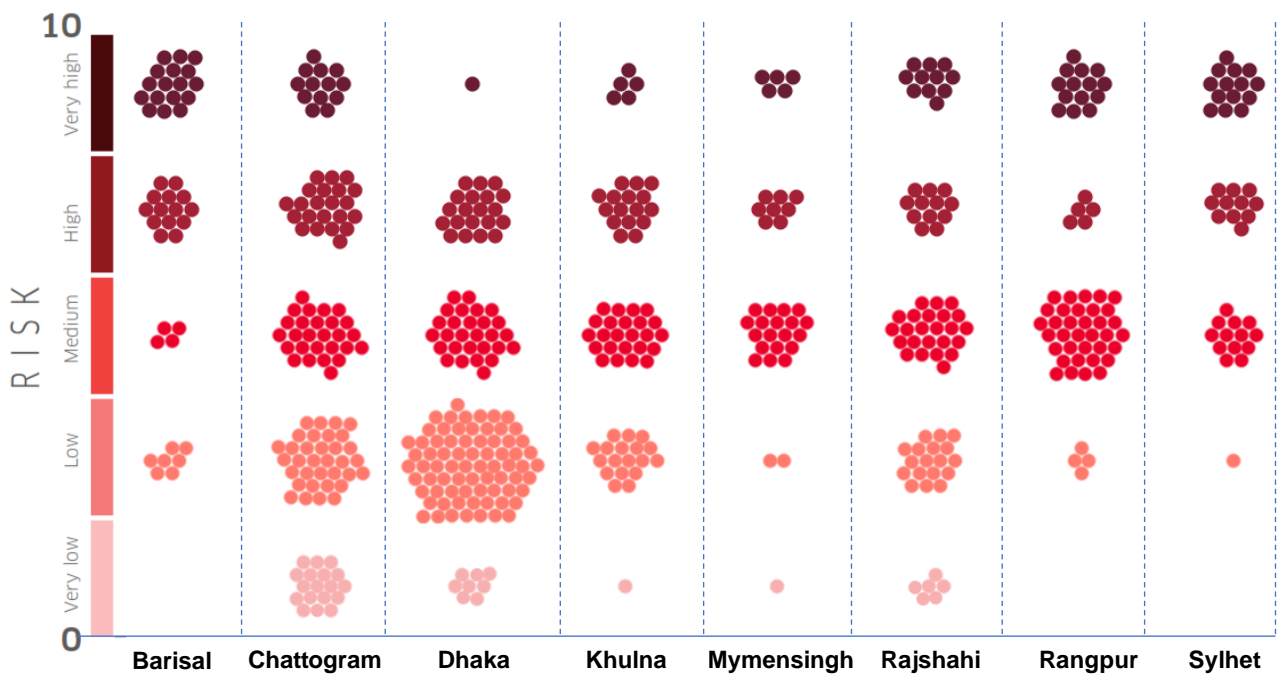
Number and Percentage of Upazila and/or Thana in Different Risk Levels



30 Top Risk Prone Upazilas and/or Thanas

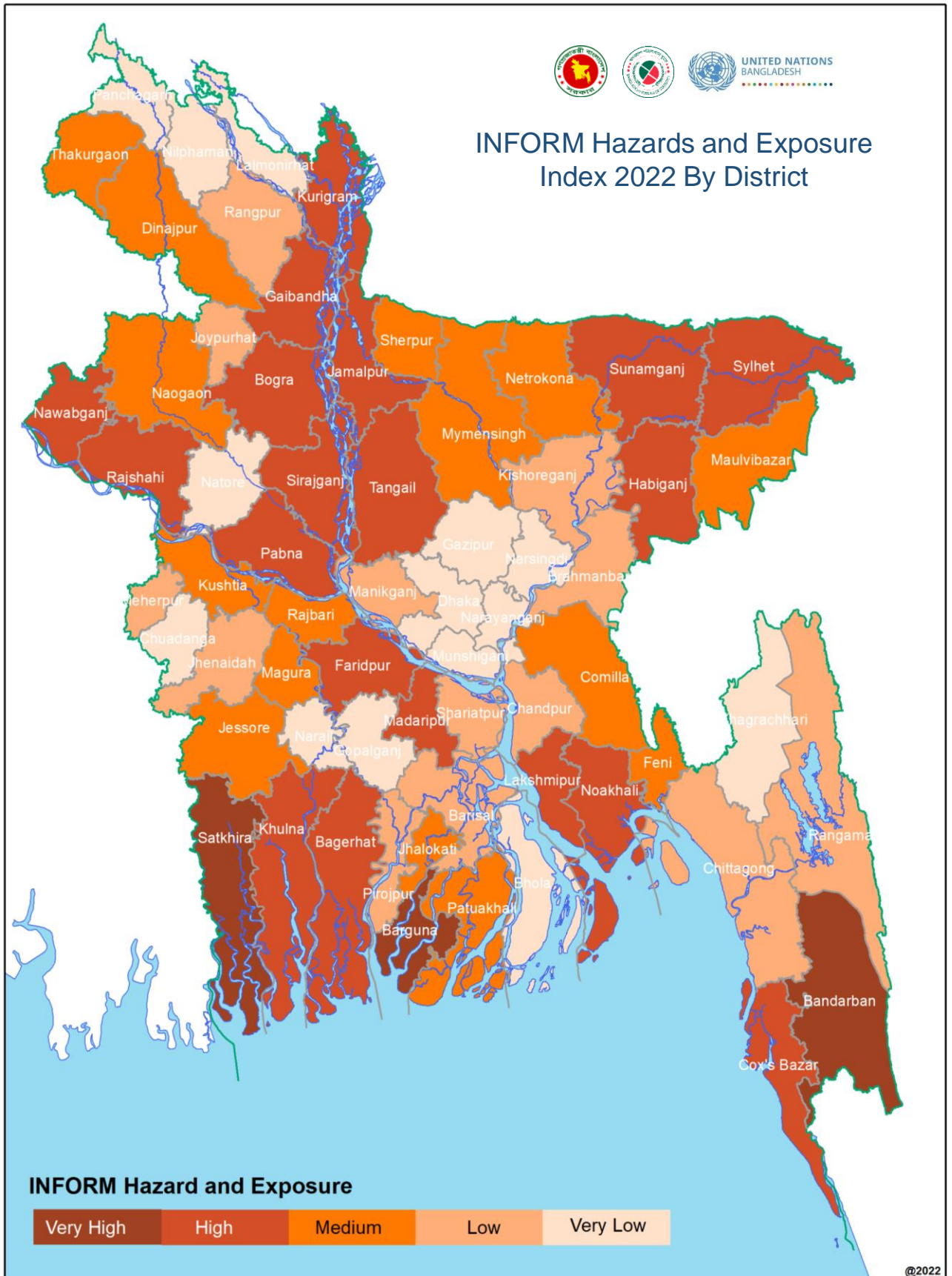


Upazila and/or Thana Risk Distribution by Division



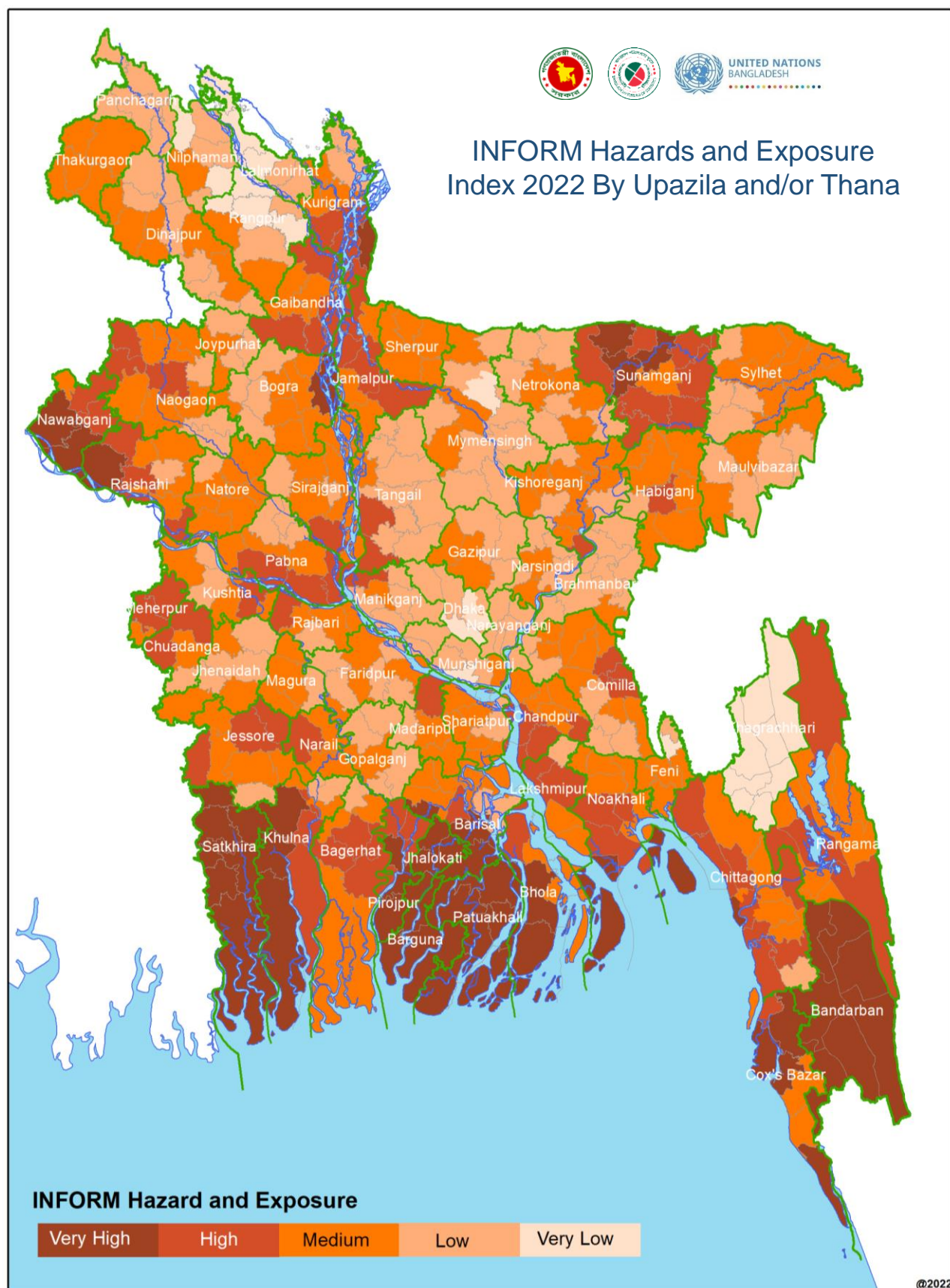


## INFORM Hazards and Exposure: District Map














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## INFORM Hazards and Exposure: Upazila and/or Thana Map

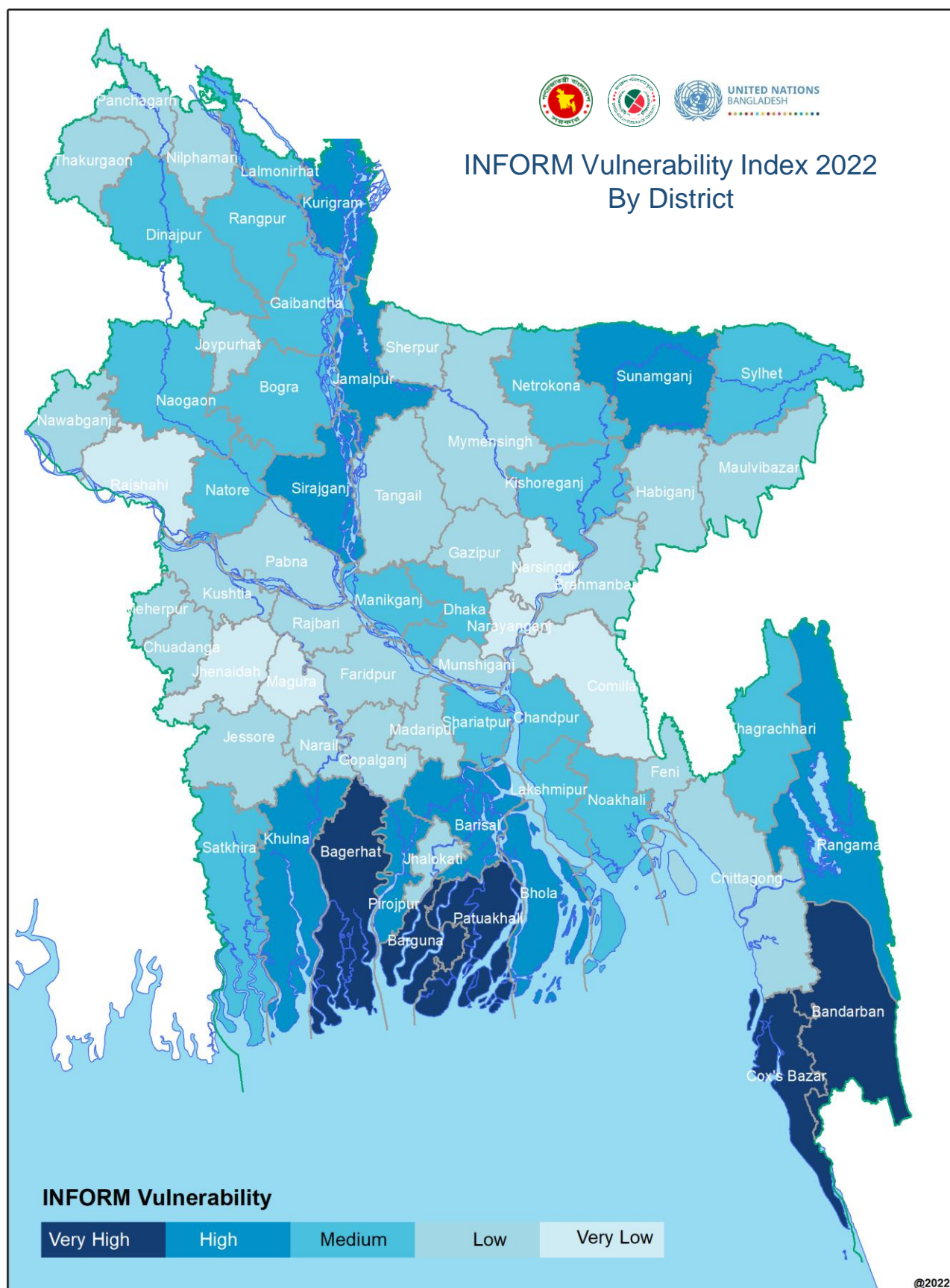




## Hazard and Exposure: Indicators (31)

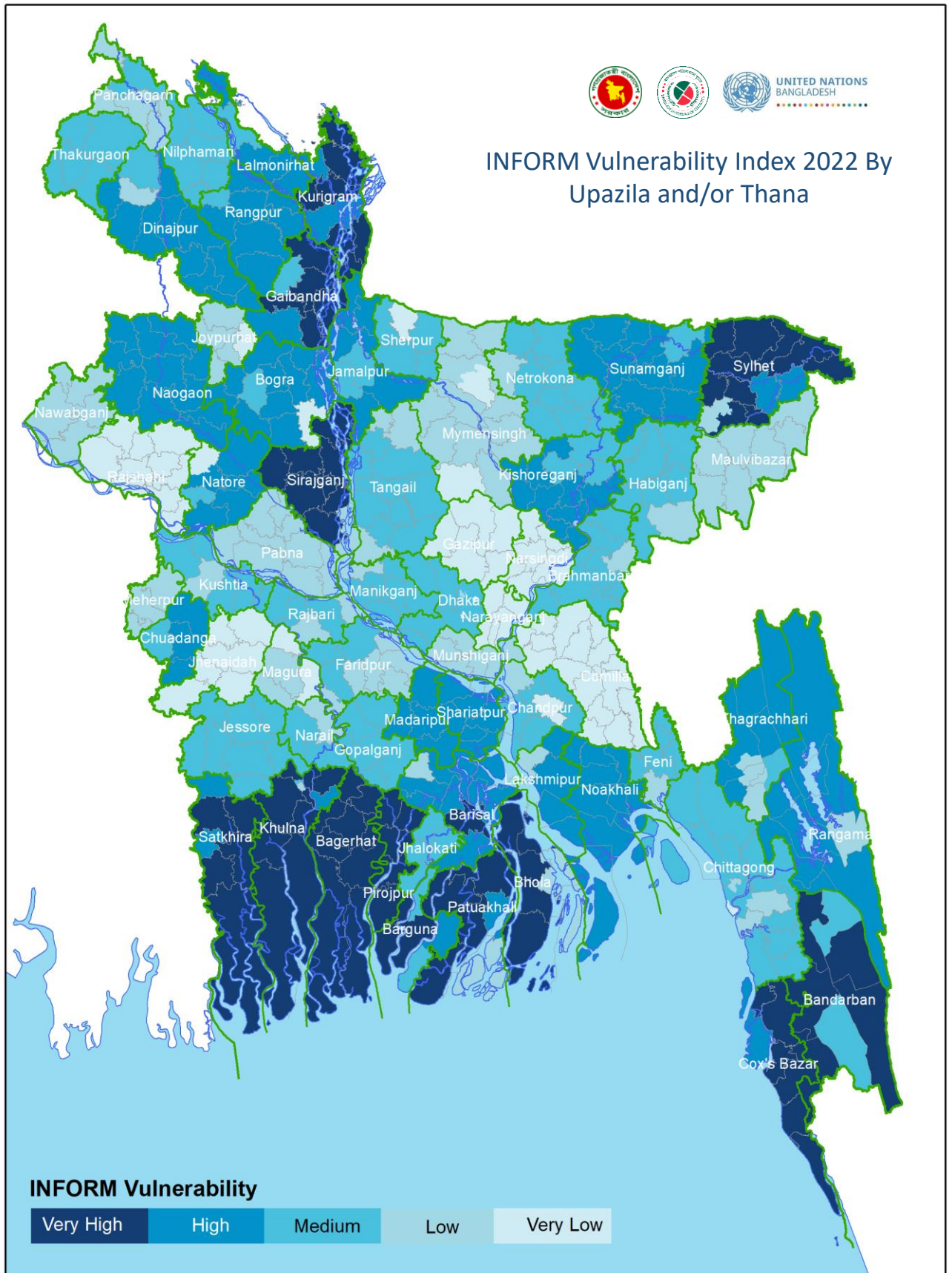
Categories	Component	Indicators	Source
Natural	 <b>Earthquake (4)</b>	<ul style="list-style-type: none"> <li>• Number of population physically exposed to earthquake MMI VI per year</li> <li>• Percentage of area physically exposed to earthquake MMI VI per year</li> <li>• Number of population physically exposed to earthquake MMI VIII</li> <li>• Percentage of area physically exposed to earthquake MMI VIII per year</li> </ul>	GEM, JRC
	 <b>Flood (4)</b>	<ul style="list-style-type: none"> <li>• Percentage of area physically exposed to intensive river flood in 2016-2020</li> <li>• Percentage of area physically inundated by extensive flood in 2022</li> <li>• Percentage of area physically exposed to extensive flash flood in 2022</li> <li>• Percentage of area extensive inundated with depths greater than 3 meters in 2022</li> </ul>	MRVAM, BARC
	 <b>Drought (2)</b>	<ul style="list-style-type: none"> <li>• Percentage of area physically exposed to extensive drought Kharip in 2022</li> <li>• Percentage of area physically exposed to extensive Rabi in 2022</li> </ul>	BARC
	 <b>Cyclone and Storm Surge (2)</b>	<ul style="list-style-type: none"> <li>• Percentage of physical extent to extensive storm surge area in 2022</li> <li>• Percentage of area physically exposed to intensive storm surge during 2016-2020</li> </ul>	NDRCC, BARC
	 <b>Salinity (1)</b>	<ul style="list-style-type: none"> <li>• Percentage of area physically exposed to extensive salinity in 2022</li> </ul>	BARC, SRDI
	 <b>Riverbank Erosion (1)</b>	<ul style="list-style-type: none"> <li>• Percentage of area physically exposed to intensive riverbank erosion during 2018-2020</li> </ul>	BARC, CEGIS
	 <b>Landslide (2)</b>	<ul style="list-style-type: none"> <li>• Percentage of area physically exposed to intensive landslide during 2014-2020</li> <li>• Percentage of area physically exposed to extensive landslide during 2014-2020</li> </ul>	SFB
	 <b>Lightning (1)</b>	<ul style="list-style-type: none"> <li>• Percentage of area physically exposed intensively to lightning during 2019-2021</li> </ul>	DDM
Man Made	 <b>Epidemic (10)</b>	<ul style="list-style-type: none"> <li>• Number of incident per 100,000 population at risk of Covid 19 till February 2022</li> <li>• Number of population per 100,000 affected by dengue during 2019-2021</li> <li>• Number of population living in per square kilometer in 2021</li> <li>• Average number of people in each household in 2021</li> <li>• Percentage of population growth annually in urban area in 2021</li> <li>• Percentage of population living in urban areas in 2021</li> <li>• Percentage of population living in slums in 2021</li> <li>• Number of population per 100,000 defecate in open space in 2021</li> <li>• Percentage of population under 5 in 2021</li> <li>• Capacity score of International Health Regulations (IHR) for food safety in 2018</li> </ul>	DGHS, BBS
	 <b>Current Conflict Intensity (2)</b>	<ul style="list-style-type: none"> <li>• Score in national highly violent power conflict intensity index in 2021</li> <li>• Score in sub-national highly violent power conflict intensity index in 2021</li> </ul>	PVA
	 <b>Projected Conflict (2)</b>	<ul style="list-style-type: none"> <li>• Percentage of probable violent conflict in 2021</li> <li>• Percentage of probable high violent conflict in 2021</li> </ul>	PVA

## INFORM Vulnerability: District Map











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## INFORM Vulnerability: Upazila and/or Thana Map

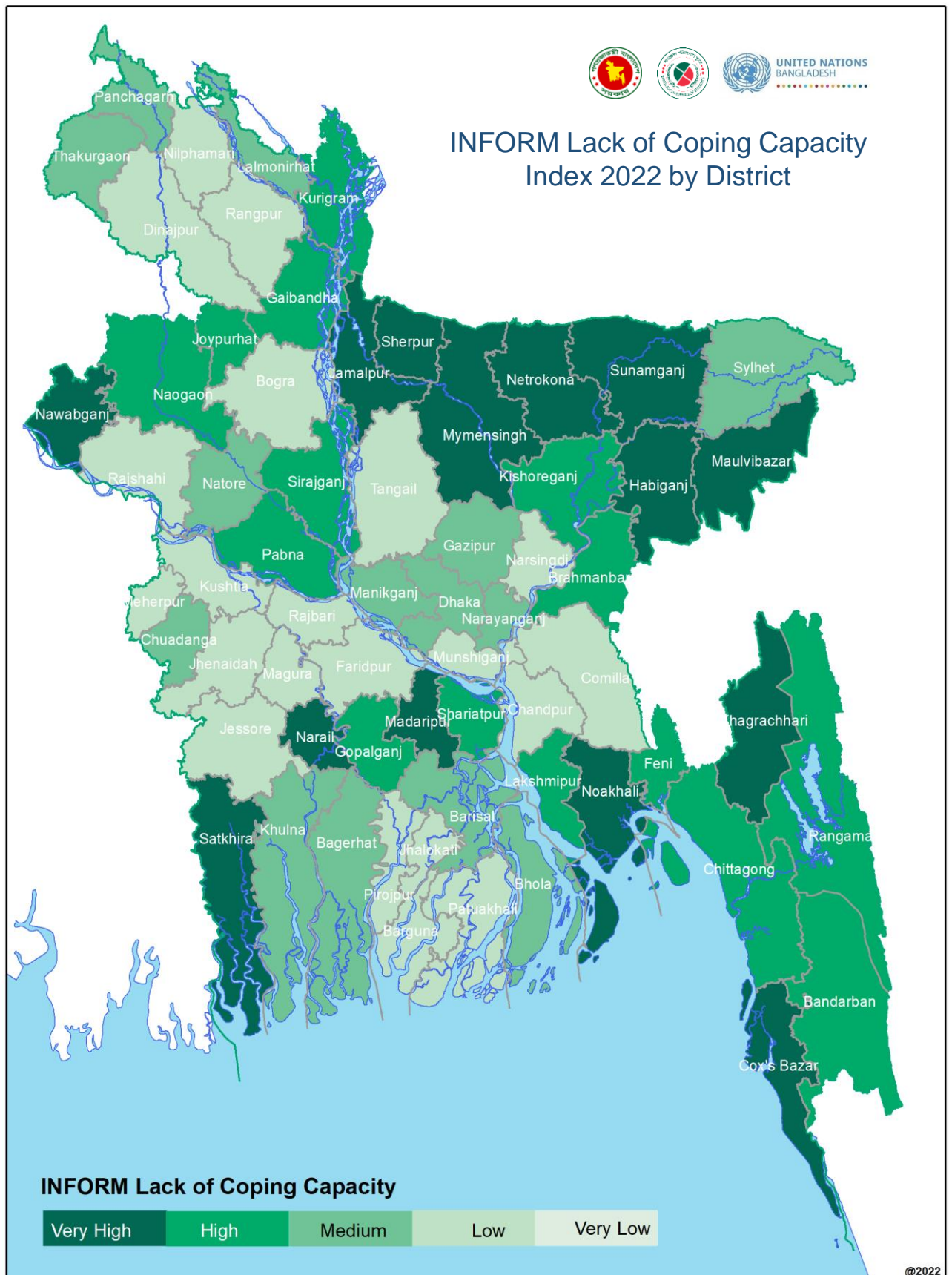




## Vulnerability: Indicators (32)

Categories	Component	Indicators	Source
Socio-Economic	 <b>Poverty and Development (4)</b>	<ul style="list-style-type: none"> <li>Score in Human Development Index (HDI) in 2016</li> <li>Percentage of poor households in 2017</li> <li>Percentage of extreme poor households in 2017</li> <li>Percentage of households are dependent on daily wage labour (unsustainable livelihoods)</li> </ul>	BBS, WB
	 <b>Economic Dependence (5)</b>	<ul style="list-style-type: none"> <li>Percentage of unemployed people in 2017</li> <li>Percentage of EGPP coverage among the poor in 2020</li> <li>Per capita public aid (in USD) in 2019</li> <li>Net ODA received as a percentage of GNI in 2020</li> <li>Volume of remittances (in USD) as a proportion of total GDP</li> </ul>	MoDMR, BARC
	 <b>Inequality (4)</b>	<ul style="list-style-type: none"> <li>Ratio of Gini coefficient from income distribution in 2020</li> <li>Gender parity index (GPI) for primary school adjusted net attendance ratio (NAR) in 2019</li> <li>Gender parity index (GPI) for lower secondary school adjusted net attendance ratio (NAR) in 2019</li> <li>Gender parity index (GPI) for upper secondary school adjusted net attendance ratio (NAR) in 2019</li> </ul>	BBS, BARC
Vulnerable Group	 <b>Uprooted People (3)</b>	<ul style="list-style-type: none"> <li>Percentage of floating population in 2020</li> <li>Number of annual average disaster induced Internal Displaced Population (IDP) per 100,000 during 2014-2020</li> <li>Number of asylum seeker/refugee in 2021</li> </ul>	BBS, NDRCC, RRRCC
	 <b>Recent Shocks (3)</b>	<ul style="list-style-type: none"> <li>Annual average affected population (per 10,000) by flood and cyclone during 2014-2020</li> <li>Number of fully damaged houses by cyclone and flood during 2014-2020</li> <li>Number of partially damaged houses by cyclone and flood during 2014-2020</li> </ul>	NDRCC
	 <b>Food Security (2)</b>	<ul style="list-style-type: none"> <li>Percentage of households with poor dietary diversity (Food group &lt;=4) in 2021</li> <li>Percentage of population in IPC level 4 (Food scarcity on terms of quality) in 2022</li> </ul>	IPC-FAO and FPMU
	 <b>Other Vulnerable Group (7)</b>	<ul style="list-style-type: none"> <li>Percentage of child labour (children age 5- 17) in 2019</li> <li>Percentage of women (age 15-49 years) reported domestic violence by male partner in 2017</li> <li>Percentage of women headed households in 2019</li> <li>Percentage of population with disability in 2020</li> <li>Percentage of elderly population (age &gt;65) in 2020</li> <li>Percentage of tribal population in 2020</li> <li>Percentage of households living in jhupri and kutcha house in 2020</li> </ul>	BBS
	 <b>Children Under 5 (2)</b>	<ul style="list-style-type: none"> <li>Under 5 children mortality rate per 1,000 in 2020</li> <li>Underweight prevalence (severe) &lt;-3 SD in 2019</li> <li>Stunting prevalence (severe)&lt;-3 SD in 2019</li> <li>Insufficient early child development index (% of 36-59 months child) in 2019</li> </ul>	BBS

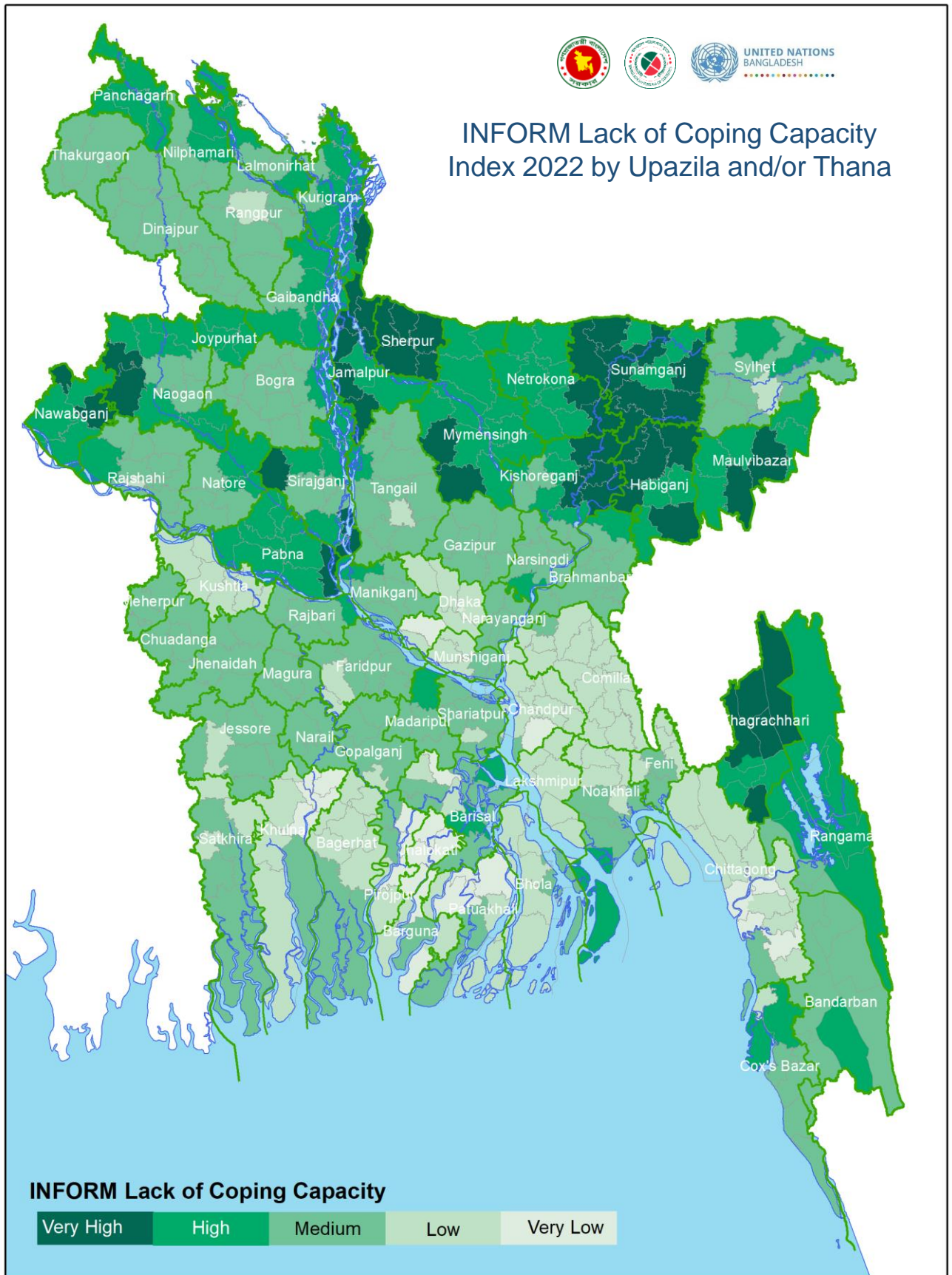
## INFORM Lack of Coping Capacity: District Map



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## INFORM Lack of Coping Capacity: Upazila and/or Thana Map



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## Lack of Coping Capacity: Indicators (26)

Categories	Component	Indicator	Source
Institutional	 <b>Governance (2)</b>	<ul style="list-style-type: none"> <li>Government effectiveness index in 2020</li> <li>Corruption perception index in 2020</li> </ul>	World Bank, TI
	 <b>DRR (3)</b>	<ul style="list-style-type: none"> <li>HFA Scores in 2015</li> <li>Number of cyclone shelter per 100,000 population in 2022</li> </ul>	MRVAM, UNISDR
	 <b>Preparedness and Response (4)</b>	<ul style="list-style-type: none"> <li>Percentage of disaster affected population received financial support during 2009-2014</li> <li>Percentages of HH received early warning during 2009-2014</li> <li>Percentages of households have disaster preparedness during 2009-2014</li> <li>Number of RCRC volunteers per 100,000 population in 2022</li> <li>Number of CPP volunteers per 100,000 population in 2022</li> </ul>	MRVAM, IFRC, DDM
Infrastructure	 <b>Physical Infrastructure (2)</b>	<ul style="list-style-type: none"> <li>Length of road per square kilometer in 2022</li> <li>Percentage of Union with effective road communication in 2022</li> </ul>	LGED, WB
	 <b>Access to Water Sanitation and Hygiene (4)</b>	<ul style="list-style-type: none"> <li>Percentage of households with basic sanitation services in 2019</li> <li>Percentage of people using at least basic drinking water services in 2019</li> <li>Percentage of people with basic handwashing facilities including soap and water in 2019</li> <li>Percentage of women practice menstrual hygiene management in 2019</li> </ul>	BBS
	 <b>Access to Health Care (7)</b>	<ul style="list-style-type: none"> <li>Percentage of skilled attendant at delivery in 2019</li> <li>Percentage of women (age 15-49) received antenatal care (ANC-4) in 2019</li> <li>Percentage of women (age 15-49) received post-natal care (PNC) in 2019</li> <li>Percentage of children under measles-rubella vaccination coverage in 2020</li> <li>Number of physician density per 100,000 people in 2022</li> <li>Number of community clinics per 100,000 people in 2022</li> <li>Number of health centers per 100,000 people in 2022</li> </ul>	BBS, DGHS
	 <b>Access to Communication (4)</b>	<ul style="list-style-type: none"> <li>Adult literacy rate in 2020</li> <li>Percentage of internet users in 2020</li> <li>Percentage of mobile phone user in 2020</li> <li>Percentage of Union connected with fiber optic network in 2022</li> </ul>	BBS

## Result and Ranking of Districts 2022

Division	District	Risk Level	Rank	Division	District	Risk Level	Rank
Barisal	Barguna	6.0	4	Khulna	Jashore	5.1	52
	Barishal	5.6	16		Jhenaidah	4.8	61
	Bhola	5.5	25		Khulna	5.7	11
	Jhalokati	5.1	52		Kushtia	5.0	56
	Patuakhali	5.7	11		Magura	5.0	56
	Pirojpur	5.6	16		Meherpur	5.0	56
Chattogram	Bandarban	6.3	1	Narail	5.2	45	
	Brahmanbaria	5.4	31	Satkhira	5.9	5	
	Chandpur	5.4	31	Mymensingh	Jamalpur	5.9	5
	Chattogram	5.3	40		Mymensingh	5.4	31
	Cox's Bazar	6.2	62		Netrakona	5.6	16
	Cumilla	4.7	2		Sherpur	5.5	25
	Feni	5.3	40	Rajshahi	Bogura	5.5	25
	Khagrachhari	5.6	16		Joypurhat	5.1	52
	Lakshmipur	5.7	11		Naogaon	5.6	16
	Noakhali	5.8	8		Natore	5.4	31
Rangamati	5.7	11	Nawabganj		5.4	31	
Dhaka	5.4	31	Pabna		5.2	45	
Faridpur	5.3	40	Rajshahi	5.0	56		
Gazipur	5.0	56	Sirajganj	5.8	8		
Gopalganj	5.3	40	Rangpur	Dinajpur	5.5	25	
Kishoreganj	5.6	16		Gaibandha	5.7	11	
Madaripur	5.5	25		Kurigram	5.8	8	
Manikganj	5.5	25		Lalmonirhat	5.4	31	
Munshiganj	5.1	52		Nilphamari	5.2	45	
Narayanganj	4.4	64		Panchagarh	5.2	45	
Narsingdi	4.7	62	Rangpur	5.4	31		
Rajbari	5.2	45	Thakurgaon	5.2	45		
Shariatpur	5.6	16	Sylhet	Habiganj	5.6	16	
Tangail	5.4	31		Maulvibazar	5.3	40	
Bagerhat	5.9	5		Sunamganj	6.1	3	
Chuadanga	5.2	45		Sylhet	5.6	16	

## Result and Ranking of Upazila and/or Thana 2022

District	Upazila	Risk Level	Rank	District	Upazila	Risk Level	Rank
Barguna	Amtali	6.2	11	Patuakhali	Mirzaganj	6.0	52
	Bamna	5.5	313		Patuakhali Sadar	6.0	52
	Barguna Sadar	6.3	7		Rangabali	6.1	29
	Betagi	5.4	363	Pirojpur	Bhandaria	5.9	81
	Patharghata	6.2	11		Kawkhali	5.8	134
	Taltali	6.0	52		Mathbaria	6.0	52
Barisal	Agailjhara	5.7	189		Nazirpur	5.9	81
	Babuganj	5.7	189		Nesarabad (swaru..)	5.8	52
	Bakerganj	6.0	52		Pirojpur Sadar	6.0	134
	Banari Para	6.0	52	Zianagar	5.9	81	
	Barisal Sadar	6.1	243	Bandarban	Alikadam	6.0	52
	Gaurnadi	5.6	52		Bandarban Sadar	6.4	4
	Hizla	6.0	29		Lama	6.4	4
	Mehendiganj	5.8	134		Naikhongchhari	6.4	4
	Muladi	5.9	81		Rowangchhari	5.9	81
	Wazirpur	5.9	81		Ruma	6.5	1
Bhola	Bhola Sadar	5.9	81	Thanchi	6.5	1	
	Burhanuddin	5.9	81	Brahmanbaria	Akhaura	5.6	243
	Char Fasson	6.0	52		Ashuganj	5.5	243
	Daulat Khan	5.9	81		Banchharampur	5.6	363
	Lalmohan	6.0	52		Bijoyagar	5.4	243
	Manpura	5.4	363		Brahmanbaria Sadar	5.6	313
	Tazumuddin	5.4	363		Kasba	5.6	243
	Jhalokati	Jhalokati Sadar	5.4		363	Nabinagar	5.6
Kanthalia		5.3	415		Nasirnagar	5.6	243
Nalchity		5.4	363		Sarail	5.4	363
Rajapur		5.3	415		Chandpur	Chandpur Sadar	5.6
Patuakhali	Bauphal	5.9	81	Faridganj		5.5	313
	Dashmina	5.8	134	Haim Char		5.7	189
	Dumki	5.9	81	Hajiganj		5.0	520
	Galachipa	6.2	11	Kachua (Chandpur)		5.4	363
	Kala Para	6.2	11	Matlab Dakshin		5.5	313



## Result and Ranking of Upazila and/or Thana 2022

District	Upazila	Risk Level	Rank	District	Upazila	Risk Level	Rank	
Chandpur	Shahrasti	5.5	457	Cox's Bazar	Pekua	5.9	81	
	Uttar Matlab	5.2	313		Ramu	6.0	52	
	Anowara	5.2	457		Teknaf	6.2	11	
	Bakalia	5.3	457		Ukhia	6.0	52	
	Banshkhali	5.6	243		Barura	4.9	536	
	Bayejid Bostami	5.2	415		Brahman Para	5.0	520	
	Boalkhali	5.3	415		Burichang	5.0	520	
	Chandanaish	5.4	363		Chandina	4.7	547	
	Chandgaon	5.4	363		Chauddagram	5.0	520	
	Chittagong Port	5.4	363		Comilla Adarsha S..	5.0	501	
	Double Mooring	5.4	363		Comilla Sadar Dak..	5.1	536	
	Fatikchhari	5.4	363		Daudkandi	4.9	536	
	Halishahar	5.4	363		Debidwar	4.9	520	
	Hathazari	5.5	313		Homna	5.0	520	
	Karnafuli	5.3	415		Laksam	4.9	536	
	Chattogram	Khulshi	5.2		415	Lalmal	4.9	536
		Kotwali	5.3		457	Manoharganj	4.9	536
Lohagara		5.3	415	Meghna	4.5	552		
Mirsharai		5.5	313	Muradnagar	5.0	520		
Pahartali		5.5	313	Nangalkot	4.9	536		
Panchlaish		5.3	415	Titas	4.9	536		
Patenga		4.9	457	Chhagalnaiya	5.4	363		
Patiya		5.2	536	Daganbhuiyan	5.4	363		
Rangunia		5.4	363	Feni Sadar	5.5	313		
Raozan		5.3	415	Fulgazi	5.2	457		
Sandwip		5.6	243	Parshuram	5.3	415		
Satkania		5.4	363	Sonagazi	5.4	363		
Sitakunda		5.4	363	Dighinala	5.8	134		
Chakaria		6.2	11	Guimara	5.2	457		
Cox's Bazar Sadar		6.1	29	Khagrachhari Sadar	5.8	134		
Kutubdia		5.8	134	Lakshmichhari	5.4	363		
Cox's Bazar		Maheshkhali	6.0	52	Khagrachhari	Mahalchhari	5.7	189



## Result and Ranking of Upazila and/or Thana 2022

District	Upazila	Risk Level	Rank	District	Upazila	Risk Level	Rank
<b>Khagrachhari</b>	Manikchhari	5.7	189	<b>Dhaka</b>	Biman Bandar Tha..	5.2	457
	Matiranga	5.8	134		Cantonment	5.2	457
	Panchhari	5.8	134		Chalk Bazar	5.3	415
	Ramgarh	5.8	134		Dakshinkhan	5.4	363
<b>Lakshmipur</b>	Kamalnagar	5.7	189		Darus Salam	5.2	457
	Lakshmipur Sadar	5.8	134		Demra	5.3	415
	Ramganj	5.6	457		Dhamrai	5.2	457
	Ramgati	5.7	243		Dhanmondi	5.3	415
	Roypur	5.2	189		Dohar	5.4	363
<b>Noakhali</b>	Begumganj	5.7	189		Gendaria	5.2	457
	Chatkhil	5.6	243		Gulshan	5.2	457
	Companiganj	5.8	134		Hazaribagh	5.3	415
	Hatiya	6.1	29		Jatrabari	5.3	415
	Kabirhat	5.8	134		Kadamtali	5.3	457
	Noakhali Sadar (su..	5.8	134		Kafrul	5.2	415
	Senbagh	5.8	243		Kalabagan	5.2	457
	Sonaimuri	5.6	134		Kamrangir Char	4.5	552
	Subarnachar	5.8	134		Keraniganj	5.2	415
	<b>Rangamati</b>	Baghai Chhari	5.9		81	Khilgaon	5.3
Barkal		5.9	81		Khilkhet	5.3	457
Belai Chhari		5.9	81		Kotwali (Dhaka)	5.2	457
Jurai Chhari		5.4	81		Lalbagh	5.2	457
Kaptai		5.8	134		Mirpur (Dhaka)	5.2	457
Kawkhali (betbunia)		5.9	363		Mohammadpur (Dh..	5.2	457
Langadu		5.9	81		Motijheel	5.1	501
Naniarchar		5.9	81		Nawabganj	5.1	501
Rajasthali		5.7	189		New Market	5.3	415
Rangamati Sadar		5.9	81		Pallabi	5.1	501
<b>Dhaka</b>	Adabor	5.3	415	Paltan	5.2	457	
	Badda	5.3	415	Ramna	5.2	457	
	Bangshal	5.2	457	Rampura	5.2	457	
	Bhatara	4.6	551	Sabujbagh	5.2	457	

## Result and Ranking of Upazila and/or Thana 2022

District	Upazila	Risk Level	Rank	District	Upazila	Risk Level	Rank
<b>Dhaka</b>	Savar	5.4	363	<b>Kishoreganj</b>	Bhairab	5.8	134
	Shah Ali	5.3	415		Hossainpur	5.8	134
	Shahbagh	5.3	415		Itna	5.9	81
	Sher-E-Bangla Nag..	5.2	457		Karimganj	5.7	189
	Shyampur	5.2	457		Katiadi	5.8	134
	Sutrapur	5.2	457		Kishoreganj Sadar	5.8	134
	Tejgaon	5.1	501		Kuliar Char	5.8	134
	Tejgaon Ind. Area	5.2	457		Mithamain	5.9	81
	Turag	5.3	415		Nikli	5.9	81
	Uttar Khan	5.3	457		Pakundia	5.8	134
	Uttara	5.2	415		Tarail	5.9	81
<b>Faridpur</b>	Alfadanga	5.4	363	<b>Madaripur</b>	Kalkini	5.8	134
	Bhanga	5.3	415		Madaripur Sadar	5.8	134
	Boalmari	5.4	363		Rajoir	5.7	189
	Char Bhadrasan	5.4	363		Shib Char	6.0	52
<b>Gazipur</b>	Faridpur Sadar	5.5	313	<b>Manikganj</b>	Daulatpur(Manikga..	5.5	313
	Madhukhali	5.4	363		Ghior	5.6	243
	Nagarkanda	5.4	363		Harirampur	5.6	243
	Sadarpur	5.5	313		Manikganj Sadar	5.6	243
	Saltha	5.4	363		Saturia	5.6	243
<b>Gopalganj</b>	Gazipur Sadar	5.3	415	<b>Munshiganj</b>	Shibalaya	5.6	243
	Kaliakair	5.3	415		Singair	5.6	243
	Kaliganj (Gazipur)	5.1	501		Gazaria	5.2	457
	Kapasia	5.2	457		Lohajang	5.2	457
	Sreepur (Gazipur)	5.1	501		Munshiganj Sadar	5.4	363
<b>Kishoreganj</b>	Gopalganj Sadar	5.7	189	<b>Narayanganj</b>	Serajdikhan	5.2	457
	Kashiani	5.6	243		Sreenagar	5.2	457
	Kotalipara	5.5	313		Tongibari	5.3	415
	Muksudpur	5.5	313		Araihazar	5.0	520
<b>Narayanganj</b>	Tungipara	5.5	313	<b>Narayanganj</b>	Bandar	5.0	520
	Austagram	5.9	81		Narayanganj Sadar	5.1	501
<b>Narayanganj</b>	Bajitpur	5.9	81	<b>Narayanganj</b>	Rupganj	5.0	520

## Result and Ranking of Upazila and/or Thana 2022

District	Upazila	Risk Level	Rank	District	Upazila	Risk Level	Rank
<b>Narayanganj</b>	Sonargaon	5.0	520		Fakirhat	5.8	134
	Belabo	5.0	520		Kachua (Bagerhat)	5.9	81
	Manohardi	5.1	501	<b>Bagerhat</b>	Mollahat	5.7	189
<b>Narsingdi</b>	Narsingdi Sadar	5.2	457		Mongla	5.9	81
	Palash	4.9	536		Morrelganj	5.9	81
	Roypura	5.1	501		Rampal	5.8	134
	Shibpur	5.1	501		Sarankhola	5.9	81
	Baliakandi	5.4	363		Alamdanga	5.8	134
<b>Rajbari</b>	Goalanda	5.6	243	<b>Chuadanga</b>	Chuadanga Sadar	5.8	134
	Kalukhali	5.5	313		Damurhuda	5.7	189
	Pangsha	5.6	243		Jiban Nagar	5.7	189
	Rajbari Sadar	5.5	313		Abhaynagar	5.5	313
	Bhedarganj	5.8	134		Bagher Para	5.6	243
	Damudya	5.7	189		Chaugachha	5.6	243
<b>Shariatpur</b>	Gosairhat	5.8	134	<b>Jashore</b>	Jhikargachha	5.5	313
	Naria	5.9	81		Keshabpur	5.5	313
	Shariatpur Sadar	5.7	189		Kotwali (Jessore)	5.6	243
	Zanjira	5.8	134		Manirampur	5.6	243
	Basail	5.4	363		Sharsha	5.6	243
	Bhuapur	5.8	134		Harinakunda	5.2	457
	Delduar	5.5	313		Jhenaidaha Sadar	5.1	501
	Dhanbari	5.2	457	<b>Jhenaidah</b>	Kaliganj (Jhenaidah)	5.1	501
	Ghatail	5.6	243		Kotchandpur	5.1	501
<b>Tangail</b>	Gopalpur	5.5	313		Maheshpur	5.2	457
	Kalihati	5.6	243		Shailkupa	5.1	501
	Madhupur	5.4	363		Batiaghata	5.7	189
	Mirzapur	5.6	243		Dacope	5.9	81
	Nagarpur	5.4	363		Daulatpur (Khulna)	5.1	501
	Sakhipur (Tangail)	5.6	243		Dighalia	5.5	81
	Tangail Sadar	5.8	134		Dumuria	5.9	313
	Bagerhat Sadar	5.9	81		Khalishpur	5.6	243
<b>Bagerhat</b>	Chitalmari	5.7	189	<b>Khulna</b>	Khan Jahan Ali	5.3	415

## Result and Ranking of Upazila and/or Thana 2022

District	Upazila	Risk Level	Rank	District	Upazila	Risk Level	Rank
<b>Khulna</b>	Khulna Sadar	5.6	243	<b>Jamalpur</b>	Islampur	6.3	·
	Koyra	5.9	81		Jamalpur Sadar	6.2	11
	Paikgachha	5.9	81		Madarganj	5.8	134
	Phultala	5.8	134		Melandaha	5.9	81
	Rupsa	5.5	313		Sarishabari	6.2	11
	Sonadanga	5.7	189		Bhaluka	5.3	415
	Terokhada	5.6	243		Dhobaura	5.4	363
	Bheramara	5.3	415		Fulbaria	5.7	189
<b>Kushtia</b>	Daulatpur (Kushtia)	5.4	363	Gaffargaon	5.5	313	
	Khoksa	5.4	363	Gauripur	5.5	313	
	Kumarkhali	5.5	313	Haluaghat	5.6	243	
	Kushtia Sadar	5.4	363	Ishwarganj	5.5	313	
	Mirpur (Kushtia)	5.3	415	Muktagachha	5.6	243	
	Magura Sadar	5.4	363	Mymensingh Sadar	5.6	243	
	Mohammadpur (M..)	5.2	457	Nandail	5.5	313	
<b>Magura</b>	Shalikha	5.3	415	Phulpur	5.6	243	
	Sreepur (Magura)	4.9	536	Tarakanda	5.0	520	
	Gangni	5.4	363	Trishal	5.5	313	
	Meherpur Sadar	5.6	243	Atpara	5.6	243	
<b>Meherpur</b>	Mujib Nagar	5.4	363	Barhatta	5.7	189	
	Kalia	5.5	313	Durgapur (Netroko..)	5.6	243	
<b>Narail</b>	Lohagara (Narail)	5.5	313	Kalmakanda	5.7	134	
	Narail Sadar	5.6	243	Kendua	5.6	189	
<b>Satkhira</b>	Assasuni	6.1	29	Khaliajuri	5.8	243	
	Debhata	5.9	81	Madan	5.7	189	
	Kalaroa	5.8	134	Mohanganj Thana	5.8	134	
	Kaliganj (Satkhira)	6.1	29	Netrokona Sadar	5.7	189	
	Satkhira Sadar	6.1	29	Purbadhala	5.5	313	
	Shyamnagar	6.1	29	Jhenaigati	5.6	243	
	Tala	6.0	52	Nakla	5.8	134	
<b>Jamalpur</b>	Bakshiganj	6.1	29	Nalitabari	5.9	81	
	Dewanganj	6.2	11	Sherpur Sadar	5.9	81	

## Result and Ranking of Upazila and/or Thana 2022

District	Upazila	Risk Level	Rank	District	Upazila	Risk Level	Rank	
<b>Sherpur</b>	Sreebardi	5.9	81	<b>Natore</b>	Lalpur	5.9	81	
	Adamdighi	5.7	189		Naldanga	5.3	415	
	Bogra Sadar	5.7	189		Natore Sadar	5.8	134	
	Dhunat	5.3	415		Singra	6.0	52	
	Dhupchanchia	5.6	243		<b>Nawabganj</b>	Bholahat	5.5	313
<b>Bogura</b>	Gabтали	5.7	189	Chapai Nawabganj..		5.7	243	
	Kahaloo	5.5	313	Gomastapur		5.6	243	
	Nandigram	5.7	189	Nachole		5.6	189	
	Sariakandi	6.0	52	Shibganj (Nawabg..		5.7	189	
	Shajahanpur	5.7	189	<b>Pabna</b>	Atgharia	5.4	363	
	Sherpur	5.7	189		Bera	5.6	243	
	Shibganj (Bagura)	5.6	243		Bhangura	5.4	363	
	Sonatola	5.7	189		Chatmohar	5.4	363	
	<b>Joypurhat</b>	Akkelpur	5.3		415	Faridpur	5.3	415
		Joypurhat Sadar	5.4		363	Ishwardi	5.5	313
Kalai		5.2	457		Pabna Sadar	5.6	243	
Khettlal		5.3	415		Santhia	5.4	363	
Panchbibi		5.4	363		Sujanagar	5.5	313	
<b>Naogaon</b>	Atrai	5.7	189		<b>Rajshahi</b>	Bagha	5.1	501
	Badalgachhi	5.7	189	Baghmara		5.1	501	
	Dhamoirhat	5.9	81	Boalia		5.0	520	
	Mahadebpur	5.9	81	Charghat		5.2	457	
	Manda	5.9	81	Durgapur (Rajshahi)		5.0	520	
	Naogaon Sadar	5.8	134	Godagari		5.5	313	
	Niamatpur	6.0	52	Matihar		4.7	547	
	Patnitala	5.9	81	Mohanpur		4.7	547	
	Porsha	6.1	29	Paba		5.2	457	
	Raninagar	5.8	134	Puthia		5.1	501	
<b>Natore</b>	Sapahar	5.9	81	Rajpara	5.0	520		
	Bagati Para	5.6	243	Shah Makhdum	4.7	547		
	Baraigram	5.8	134	Tanore	5.3	415		
	Gurudaspur	5.9	81	<b>Sirajganj</b>	Belkuchi	6.0	52	



## Result and Ranking of Upazila and/or Thana 2022

District	Upazila	Risk Level	Rank	District	Upazila	Risk Level	Rank	
Sirajganj	Chauhali	5.7	189	Kurigram	Nageshwari	6.1	29	
	Kamarkhanda	5.9	81		Phulbari	5.8	134	
	Kazipur	6.1	29		Rajarhat	6.0	52	
	Royganj	6.1	29		Raumari	6.5	1	
	Shahjadpur	6.1	29		Ulipur	6.2	11	
	Sirajganj Sadar	6.1	29	Lalmonirhat	Aditmari	5.6	243	
	Tarash	6.1	29		Hatibandha	5.6	243	
	Ullah Para	6.0	52		Kaliganj (Lalmonirh..	5.5	313	
			Lalmonirhat Sadar		5.8	134		
Dinajpur	Biral	5.8	189	Patgram	5.7	189		
	Birampur	5.7	243	Nilphamari	Dimla	5.6	243	
	Birganj	5.6	134		Domar	5.5	313	
	Bochaganj	5.7	189		Jaldhaka	5.6	243	
	Chirirbandar	5.7	189		Kishoreganj	5.4	363	
	Dinajpur Sadar	5.7	189		Nilphamari Sadar	5.6	243	
	Fulbari	5.7	189		Saidpur	5.5	313	
	Ghoraghat	5.7	189		Panchagarh	Atwari	5.4	363
	Hakimpur	5.7	415			Boda	5.5	313
	Kaharole	5.3	243	Debiganj		5.5	313	
	Khansama	5.6	189	Panchagarh Sadar		5.5	313	
	Nawabganj (Dinajp..	5.8	134	Tentulia	5.5	313		
	Parbatipur	5.8	134	Rangpur	Badarganj	5.7	189	
	Gaibandha	Fulchhari	6.2		11	Gangachara	5.6	243
		Gaibandha Sadar	6.1		29	Kaunia	5.6	243
Gobindaganj		6.0	52		Mitha Pukur	5.7	313	
Palashbari		6.0	52		Pirgachha	5.6	189	
Sadullapur		5.7	189		Pirganj (Rangpur)	5.7	243	
Saghatta		6.1	29		Rangpur Sadar	5.5	189	
Sundarganj		6.2	11	Taraganj	5.4	363		
Kurigram	Bhurungamari	6.1	29	Thakurgaon	Baliadangi	5.5	313	
	Char Rajibpur	6.3	7		Haripur	5.6	243	
	Chilmari	6.3	7		Pirganj (Thakurgao..	5.5	313	
	Kurigram Sadar	6.2	11					

## Result and Ranking of Upazila and/or Thana 2022

District	Upazila	Risk Level	Rank	District	Upazila	Risk Level	Rank		
<b>Thakurgaon</b>	Ranisankail	5.6	243	<b>Sylhet</b>	Dakshin Surma	5.8	134		
	Thakurgaon Sadar	5.6	243		Fenchuganj	5.9	81		
<b>Habiganj</b>	Ajmiriganj	5.8	134		Golabganj	5.7	189		
	Bahubal	5.7	189		Gowainghat	6.0	52		
	Baniachong	5.8	134		Jaintiapur	6.0	52		
	Chunarughat	5.7	189		Kanaighat	6.1	29		
	Habiganj Sadar	5.8	134		Osmaninagar	5.3	415		
	Lakhai	5.7	189		Sylhet Sadar	6.0	52		
	Madhabpur	5.7	189		Zakiganj	6.0	52		
	Nabiganj	5.8	134						
	<b>Maulvibazar</b>	Barlekha	5.6		243				
		Juri	5.5		313				
Kamalganj		5.6	243						
Kulaura		5.6	243						
Maulvi Bazar Sadar		5.5	313						
Rajnagar		5.6	243						
Sreemangal		5.6	243						
<b>Sunamganj</b>		Bishwambarpur	6.0	52					
		Chhatak	6.2	11					
		Dakshin Sunamganj	5.9	81					
	Derai	6.1	29						
	Dharampasha	6.1	29						
	Dowarabazar	5.9	81						
	Jagannathpur	6.1	29						
	Jamalganj	6.2	11						
	Sulla	6.2	11						
	Sunamganj Sadar	6.2	11						
<b>Sylhet</b>	Tahirpur	6.2	11						
	Balaganj	5.9	81						
	Beani Bazar	5.6	243						
	Bishwanath	5.8	134						
	Companiganj (Sylh..)	5.9	81						

## Abbreviation

<b>Terms</b>	<b>Descriptions</b>
BARC	Bangladesh Agricultural Research Council
BBS	Bangladesh Bureau of Statistics
BIDS	Bangladesh Institute of Development Studies
CEGIS	Centre for Environmental and Geographic Information Services
DDM	Department of Disaster Management
DRMKC	Disaster Risk Management Knowledge Centre
DGHS	Directorate General of Health Services
DRR	Disaster Risk Reduction
ECHO	European Civil Protection and Humanitarian Aid Operations
FCDO	United Kingdom's Foreign Commonwealth & Development Office
GEM	Global Earthquake Mapping
HDX	Humanitarian Data Exchange
INFORM	Index for Risk Management
JRC	European Commission, Joint Research Centre (JRC)
LGED	Local Government Engineering Department
MoDMR	Ministry of Disaster Management and Relief
MRVAM	Multi Hazard Risk and Vulnerability Assessment, Modeling and Mapping
NDRCC	National Disaster Response Coordination Center
NIRAPAD	Network for Information, Response and Preparedness Activities on Disaster
SFB	Start Fund Bangladesh
SPEED	Strategic Preparedness and Response for Resilience to Disaster
SRDI	Soil Resource Development Institute
TI	Transparency International
UNDRR	United Nations Disaster Risk Reduction
UNRCO	United Nations Resident Coordinator's Office
USAID	United States Agency for International Development
WB	World Bank

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