COUNTRY REPORT ISLAMIC REPUBLIC OF PAKISTAN



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ABOUT PAKISTAN

Islamic Republic of Pakistan. Islamic-I-

Also Known as Jamahiriva-e- Pakistan.

Prime MinisterShehbaz SharifHead of GovernmentDr. Arif Alvi

Capital Islamabad

Population (2023 est.) 232,690,000

Currenty Exchange Rate 1 USD equals 231.161 Pakistani Rupee

Official Religion Islam

Official Name Islamic Republic of Pakistan

 Total Area (Sq Km)
 796,096

 Total Area (Sq Mi)
 307,374

Monetary Unit Pakistani rupee (PKR)

Population Rank (2022) 5

Population Projection 2030 242,564,000

Density: Persons Per Sq Mi (2022) 765.9

Density: Persons Per Sq Km (2022) 295.7

Urban-Rural Population Urban: (2017) 36.4% • Rural: (2017) 63.6%

Male: (2020) 67.7 years • Female: (2020) 68.7

Life Expectancy At Birth
years

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Literacy: Percentage Of Population Age 15 And

Over Literate

Male: (2019) 69% • Female: (2019) 46%

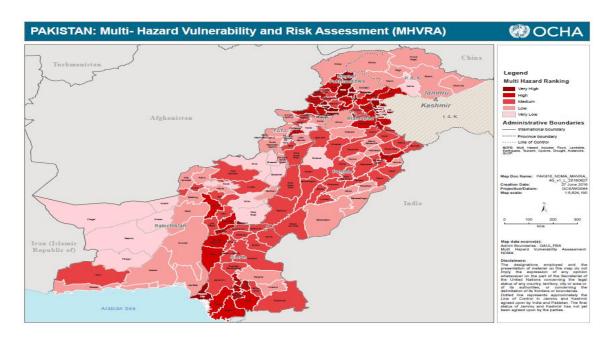
GNI (U.S.\$ '000,000) (2020) 282,910

GNI Per Capita (U.S.\$) (2020) 1,280

PAKISTAN IN DISASTER CONTEXT

1. <u>BACKGROUND</u>

In the last few decades, Pakistan has faced natural hazards such as flooding, earthquakes and landslides that have escalated into humanitarian disasters, with the loss of lives, homes and livelihood. Apart from this, general risks such as drowning, fire, snake/insect bite, road accidents and electrocution are some of the common causes of child suffering and deaths in the country.

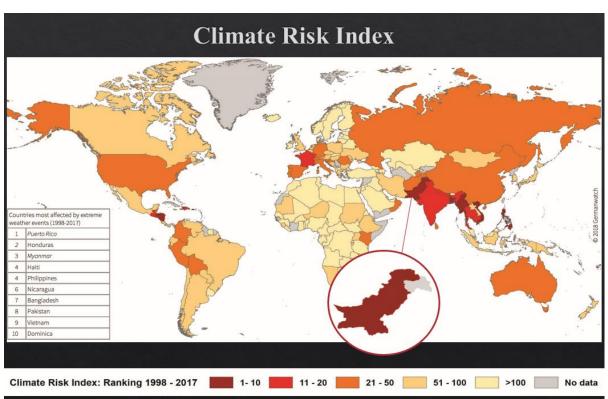


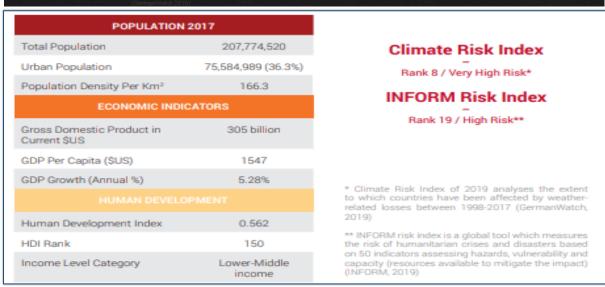
Multi-Hazard Map of Pakistan

A community's ability to prepare for and cope with natural hazards can prevent disasters and save lives. But an unprepared community is unable to cope, resulting in massive loss of life and the undermining of decades of social and economic progress, especially for children.

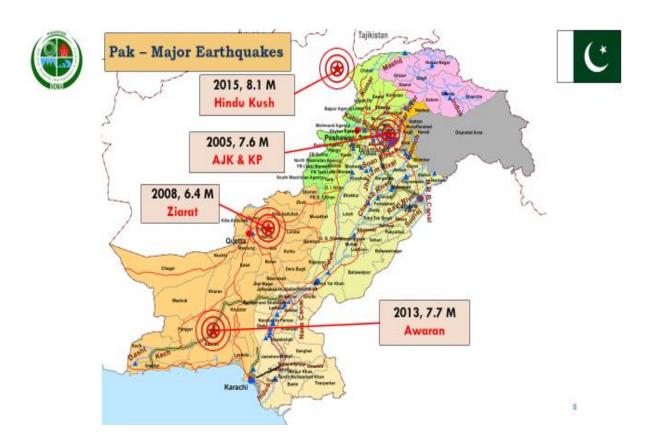
Natural hazards in Pakistan are likely to increase as a result of climate change and environmental degradation. More extreme weather events, coupled with poor preparedness in communities, can only increase the risks of humanitarian disasters.

2. CLIMATE RISK INDEX OF PAKISTAN





3. <u>MAJOR EARTHQUAKES IN PAKISTAN</u>



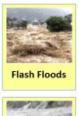
However, different parts of the country are exposed to varying extent of disasters.



Pakistan's Disaster Context



Hydro-Meteorological Hazards



















Pakistan's Disaster Context



Geological Hazards









Manmade Hazards













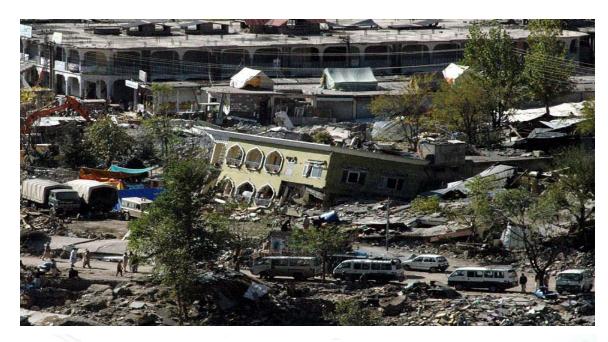
Coastal areas are prone to swell waves and cyclones, the low-lying plains of Indus river are increasingly prone to flooding, and the northern regions are highly vulnerable to landslides, snowstorms, avalanches and earthquakes.



Makran Coastal Highway Gwader, Balochistan

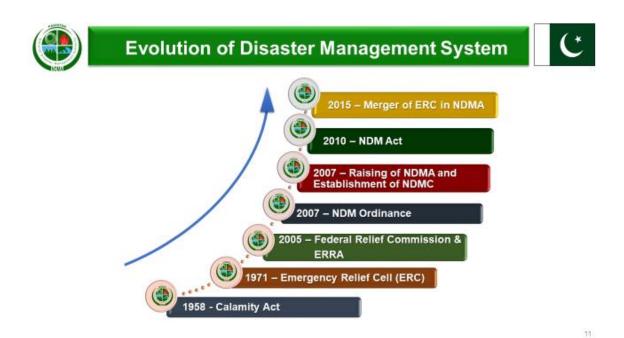
These events occur regularly and at all scales, thus increasing vulnerabilities and creating cycles of poverty as they erode the resilience of the most vulnerable inhabiting highly exposed areas. Most damaging events in the past have been cyclones, droughts, floods, and landslides; 75% of all disasters between 1980 and 2013 have been the result of hydro meteorological hazards. However, seismic events are still a particular concern due to the vicinity of the Himalayan orogenic zone, activity of which has triggered severe large-scale earthquakes. For example, the past earthquake measured 7.2 on the moment magnitude scale resulted in catastrophic losses in Kashmir in 2005.

The Kashmir earthquake killed nearly 75,000 people and destroyed 3 million homes partly due to massive-scale landslides (Naranjo, 2008). Furthermore, the tectonic activity of the main plates may trigger the other complex fault zones which have the potential for severe failures. For example, the earthquake of 2008 in Balochistan, where the strike-slip failure of the Chaman fault (driven by the collision of the Indian and Eurasian plates which further interact with the Afghan block) caused a main shock of Mw 6.4 which further cascaded into 1185 total recorded shocks.





Kashmir Earthquake, 2005



4. <u>National Disaster Management Authority (NDMA)</u>

National Disaster Management Authority (NDMA) is the lead agency at the Federal level to deal with the whole spectrum of Disaster Management activities. It is the executive arm of the National Disaster Management Commission (NDMC) which has been established under the Chairmanship of the Prime Minister as the apex policy making body in the field of Disaster Management. In the event of a disaster, all stakeholders including Government Ministries/Departments/Organizations, Forces, INGOs, NGOs, UN Agencies work through and form part of the NDMA to conduct one window operations. It is established under the National Disaster Management Act - 2010 and functions under the supervision of National Disaster Management Commission (NDMC) which is headed by the Prime Minister of Islamic Republic of Pakistan. NDMA manages the whole Disaster Management Cycle (DMC) which includes Preparedness, Mitigation, Risk Reduction, Relief and Rehabilitation. A National Disaster Management Plan (NDMP) is prepared and is followed towards provision of better services to the affected ones.



IMPACTS OF DISASTER IN PAKISTAN

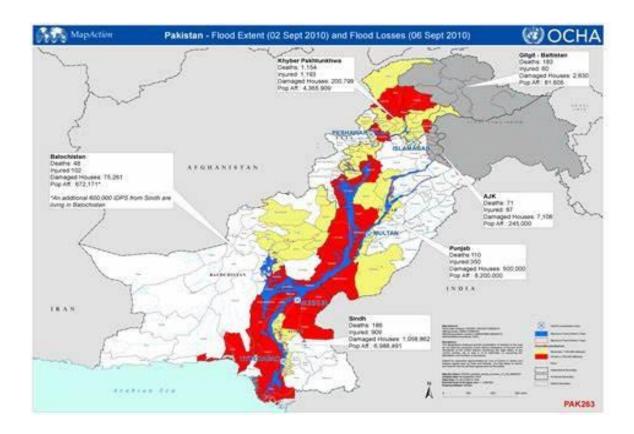
5. <u>ECONOMIC IMPACT OF DISASTER</u>

Several large-scale disasters have affected Pakistan and the development of the country's economy. As a disaster-prone country, with a high exposure to hydro meteorological, and geophysical hazards with reoccurring and seasonal characteristics, damages caused by earthquakes, flooding, droughts, landslides and storms are not uncommon (ADRC, 2016). Disasters have been found to have a profound impact on economic growth, harming not only human capital but also infrastructure and assets in a manner which has been established to have negative effects on the annual GDP.

In 1998-2001, a severe period of drought reduced the GDP growth by 50% (LEAD, 2015). This was followed by the Kashmir earthquake of 2005, the flooding of 2010, earthquake in 2011, and another severe flooding in 2012. On average, these reoccurring disasters have led to 1.16 percent reduction of the national GDP annually, and have forced households to divert resources from productive sectors towards rebuilding and recovery activities.

6. SOCIAL IMPACT OF DISASTER.

Disasters have also had adverse impacts on human life. The flooding of 2010 affected an estimated of 18 million people, caused 1984 casualties, displaced 150,000 families and damaged or destroyed approximately 1.8 million houses across the 78 impacted districts (WHO, 2011). Out of the 9,721 health facilities in the country, 515 were reported damaged or destroyed. However, most severe impacts were caused by the disruption on the delivery of health services as the lack of medical equipment, medication and displaced staff were restricting the effectiveness of relief efforts. Also, displacement persisted several months after the flood depending on the area.



2010 floods hit map of Pakistan



2010 Flooding in Pakistan

By August 2010, almost half a million cases of dysentery and other diseases had been reported as a result of the flooding, and approximately 3.5 million children were estimated to be at risk of contracting diarrhea, cholera, and other water-borne diseases (Looney, 2012). During the months following the flooding, cases of Crimean-Congo hemorrhagic fever, dengue, cholera, malaria, measles, polio and diphtheria started unfolding 2011. Such health impacts and losses of livelihoods following cascading disasters affect households due to the forced need to redirect resources to recovery activities, and also the children of low-income backgrounds are forced to drop out of education to seek employment opportunities to support their families (LEAD, 2015).

7. <u>DISASTER RISK REDUCTION AND CLIMATE ACTION</u>

While the Indian Ocean Tsunami 2004 is thought to have promoted DRM advancement in affected countries such as Sri Lanka, Maldives and Thailand, the Kashmir Earthquake in October, 2005, created a sense of urgency for establishing a proactive and comprehensive DRR system in Pakistan. The major flood event in 2010 has expedited further actions to drive DRR momentum into full implementation. The following chapters capture highlights of the legacy of past attempts and current status in DRR, as well as looks into the implementation challenges and priorities for the future.

8. <u>GOVERNMENT INTERVENTIONS</u>

IMPLEMENTATION	LEGISLATION/POLICY	SCOPE	PURPOSE
GOVERNMENT OF PAKISTAN	The Calamities Act (1958)	National	To guide the state's action during emergencies with a focus on response and relief
EARTHQUAKE RECONSTRUCTION AND REHABILITATION AUTHORITY (ERRA)	ERRA Act 2011 (enforced as an ex-post facto law from July 1st, 2007)	National	To rehabilitate the affected regions and to establish an institutional framework for undertaking reconstruction and development work after the 2005 earthquake.
NATIONAL DISASTER MANAGEMENT AUTHORITY	National Disaster Management Act (2010)	National, Provincial, Districts	To lay down a comprehensive framework for DRM, covering all phases of the disaster management cycle (replacing the DM ordinance of 2009)
NATIONAL DISASTER MANAGEMENT AUTHORITY	National Disaster Risk Management Framework (2007- 2012)	National, Provincial, Districts	Intended to identify guiding principles and priorities for disaster risk reduction
NATIONAL DISASTER MANAGEMENT COMMISSION	National Disaster Management Plan (2012-2022)	National, Provincial, Districts	To guide and mainstream institutional and technical DRM priorities, in recognition of the needs of pre-disaster phases.
NATIONAL DISASTER MANAGEMENT AUTHORITY	National Disaster Risk Reduction Policy (2013)	National, Provincial, Districts	To outline priorities and directions for risk reduction from a proactive perspective, with a special emphasis on prevention, mitigation and preparedness
NATIONAL DISASTER MANAGEMENT AUTHORITY	National Disaster Management Plan Implementation Road Map (2016-2030)	National, Provincial, Districts	Sets up priority activities for the period of 2016-2030, with a focus on multi-hazard risk assessments, capacity building, community resilience and raising awareness.
NATIONAL DISASTER MANAGEMENT AUTHORITY	The national Disaster Response Plan (2019)	National, Provincial, Districts	Outlines the framework for disaster response based on identified roles and responsibilities of various stakeholders
Table 1. National disaster and climate risk reduction policies, plans and legislation in Pakistan			

9. <u>ISSUES IN IMPLEMENTATION OF DRR AND CLIMATE POLICY.</u>

With increased frequency and intensity of disaster events, emergency response capacity and more amplified preparedness interventions have to be strengthened, especially for floods as recurrent hazards. Moreover, for disaster risk reduction, actions should be emphasized by establishing coherent plans, with the division of functions and roles between multi-tiered DRM structures and concerned agencies at different levels. DRM institutional arrangements and mandates at all levels should be prioritized to clarify the division of tasks and chain of incident command. While each district has formulated a District Disaster Risk Mitigation (DRM) Plan, putting the plan into action has been hampered in part by lack of resources. Thus, addressing financial challenges is another critical area. Direct allocation from federal level for provincial and district DRR activities is not in tune with the current budget system, and PDMAs and DDMAs themselves have faced serious impediment in mobilizing locally-generated funds for DRR, amidst various competing demands. Alignment of donor priorities with national strategies and more effective resource allocation from donor-funded schemes should be explored to channel financial resource, and thus realizing planning into materialized actions. Disaster risk finance strategy is compulsory for Pakistan to address the significant financial and fiscal costs arising from disasters and climate change.

10. FUTURE CHALLENGES AND PRIORITY ISSUES.

Challenges related to water security have reached their critical threshold. Various factors are acknowledged to be contributing to the situation; poor water data and information for water resource monitoring and management, weak processes for water resources planning and allocation, absence of environmentally sustainable water utilization, widespread pollution, and low water productivity in agriculture (World Bank, 2019). Coupled with increasing flood and drought risks, sustainable water management by adopting multi-disciplinary solutions, with basin-scale

multi-stakeholder water planning, will be crucial. Risk-sensitive spatial planning is still hindered by the lack of technical capacity, comprehensive disaster and climate risk information, and due to complex governance and urban development systems. However, the plethora of government agencies involved in DRM and DRR at federal, provincial and district level as well as non-state actors provided both, opportunities as well as challenges. From DRR perspective, Pakistan has achieved under the four priorities of the Sendai Framework. It also highlights some of the key issues/challenges of creating coherence among the key global frameworks at the country level 7 makes recommendations for strengthing the overall institutions and other Disaster Risk Management (DRM) governance by Government institutions and other stakeholders at national, sub-national, and local levels in Pakistan also there is a lack of long-term planning for flood risk reduction and activities remain extremely centralized.