



Disaster Resilient Pakistan



NATIONAL DISASTER MANAGEMENT AUTHORITY

Disclaimer

This report was compiled by an ADRC visiting researcher (VR) from ADRC member countries.

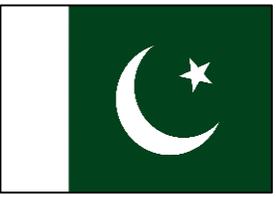
The views expressed in the report do not necessarily reflect the views of the ADRC. The boundaries and names shown and the designations used on the maps in the report also do not imply official endorsement or acceptance by the ADRC.

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

عجلها



Sequence



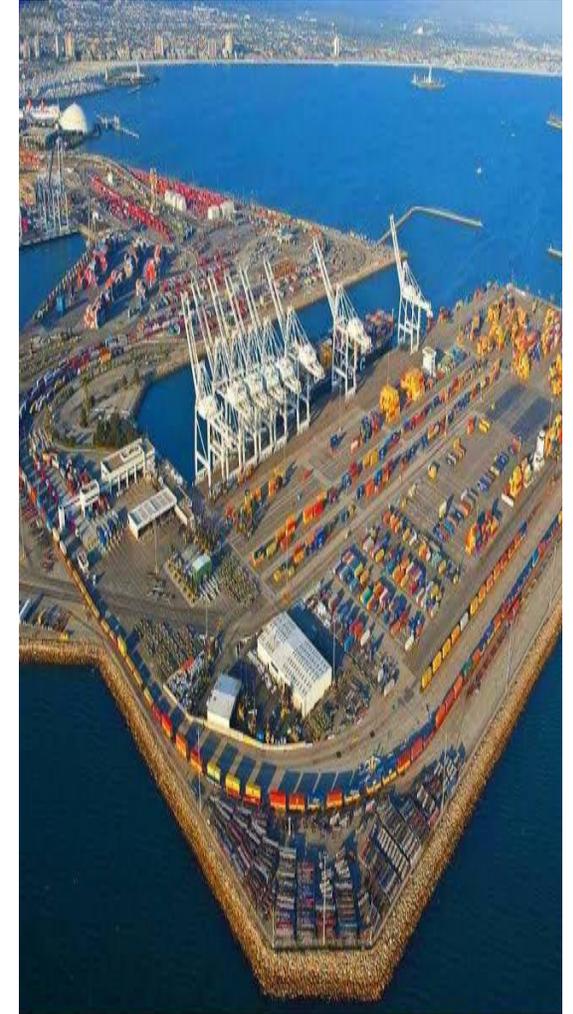
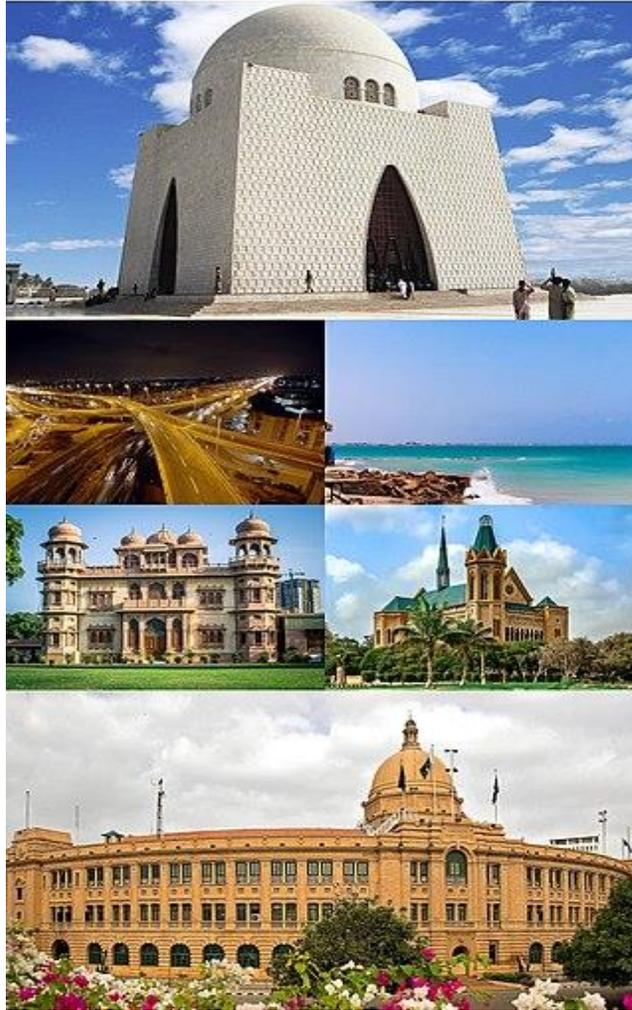
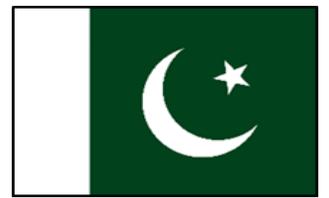
- **Country Profile/ Information**
- **Pakistan's Disaster Context**
- **National Disaster Management System**
- **Disaster Experiences**
- **Road to a Resilient Pakistan - Progress**
- **Impact of flooding 2022 on Balochistan**
- **NDMA stocking**
- **Achievement of Pakistan against Sendai Framework Targets**
- **Research Plan/Theme**



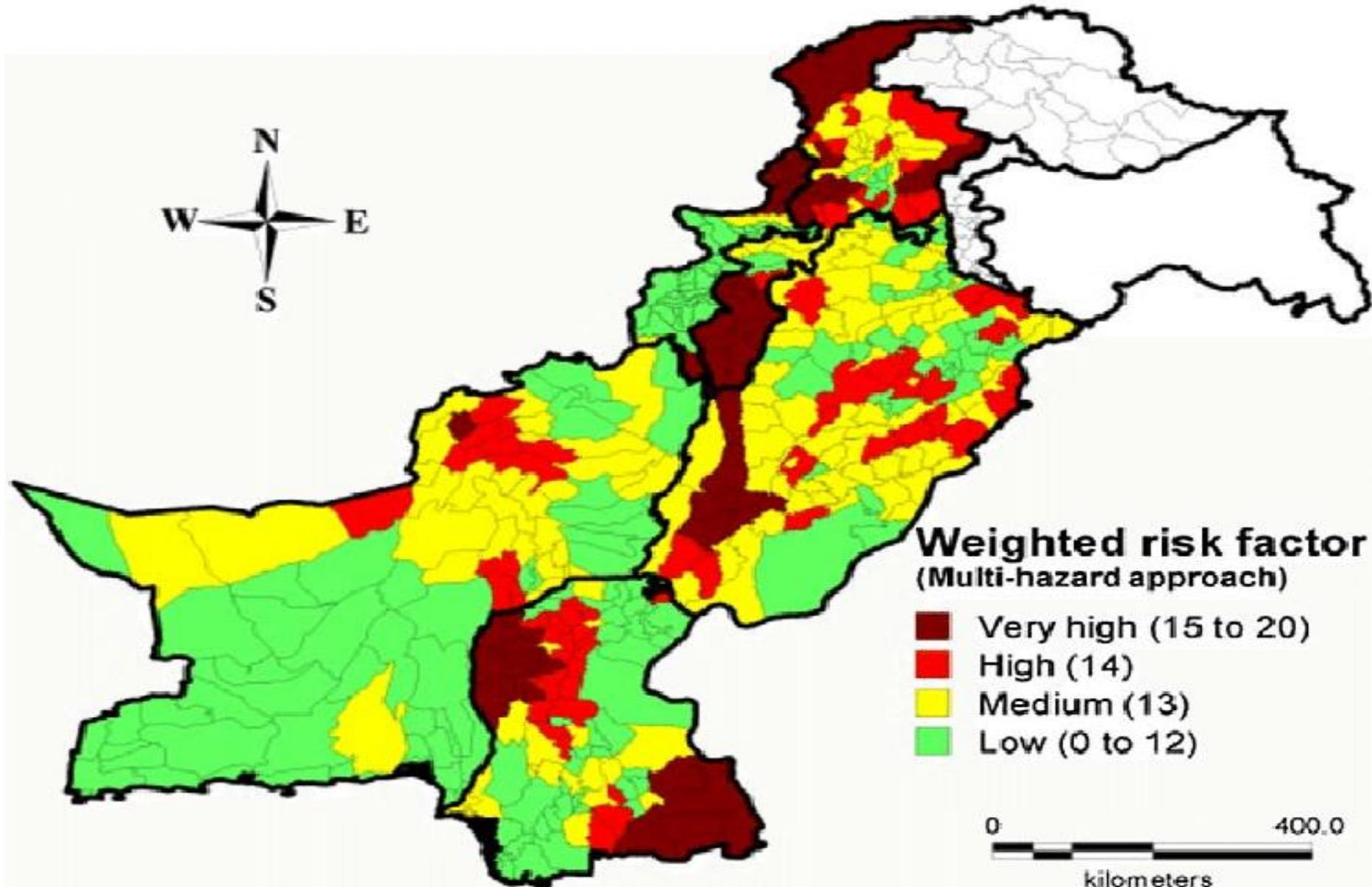
COUNTRY PROFILE



- Official Name Islamic Republic of Pakistan
- Independence Day 14th August, 1947.
- Founder Quide-E-Azam (Mohammad Ali Jinnah)
- Area 881,913 Km & 340509 Sq Mi
- Population 243.9 Millions
- Capital Islamabad.
- Province/State- 5 Provinces/ 1 State
- Currency Pak Rupees
- Languages- English/Urdu/Balochi/Sindhi/Punjabi/Pashto
- Life Expectancy 66 Male & Female 68
- GDP 346.49 Billions US
- Growth Rate 5%
- Age Structure 0-14 (20%), 15-65 (52%) , 65 & Above (28%)
- Literacy Rate 62.3 % , Male (71%) & Female (46%)



Multi-Hazard Map of Pakistan



Hydro-Meteorological Hazards



Flash Floods



Urban Floods



**Riverine
Floods**



GLOF



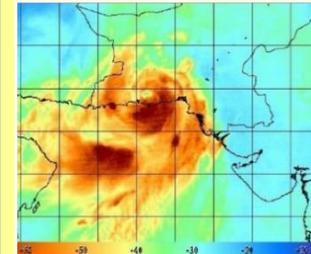
Avalanches



Land slides



Drought

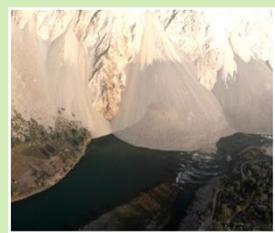


Cyclones

Geological Hazards



Earthquakes



Landslides



Tsunami

Manmade Hazards



**Industrial
Accidents**



Oil Spills



Fires



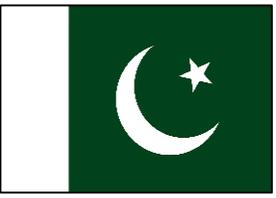
**Epidemics /
Pandemics**



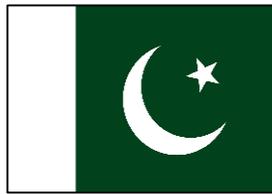
**Displacement
s**



**Air/Train
Crash**



Major Earthquakes in Pakistan



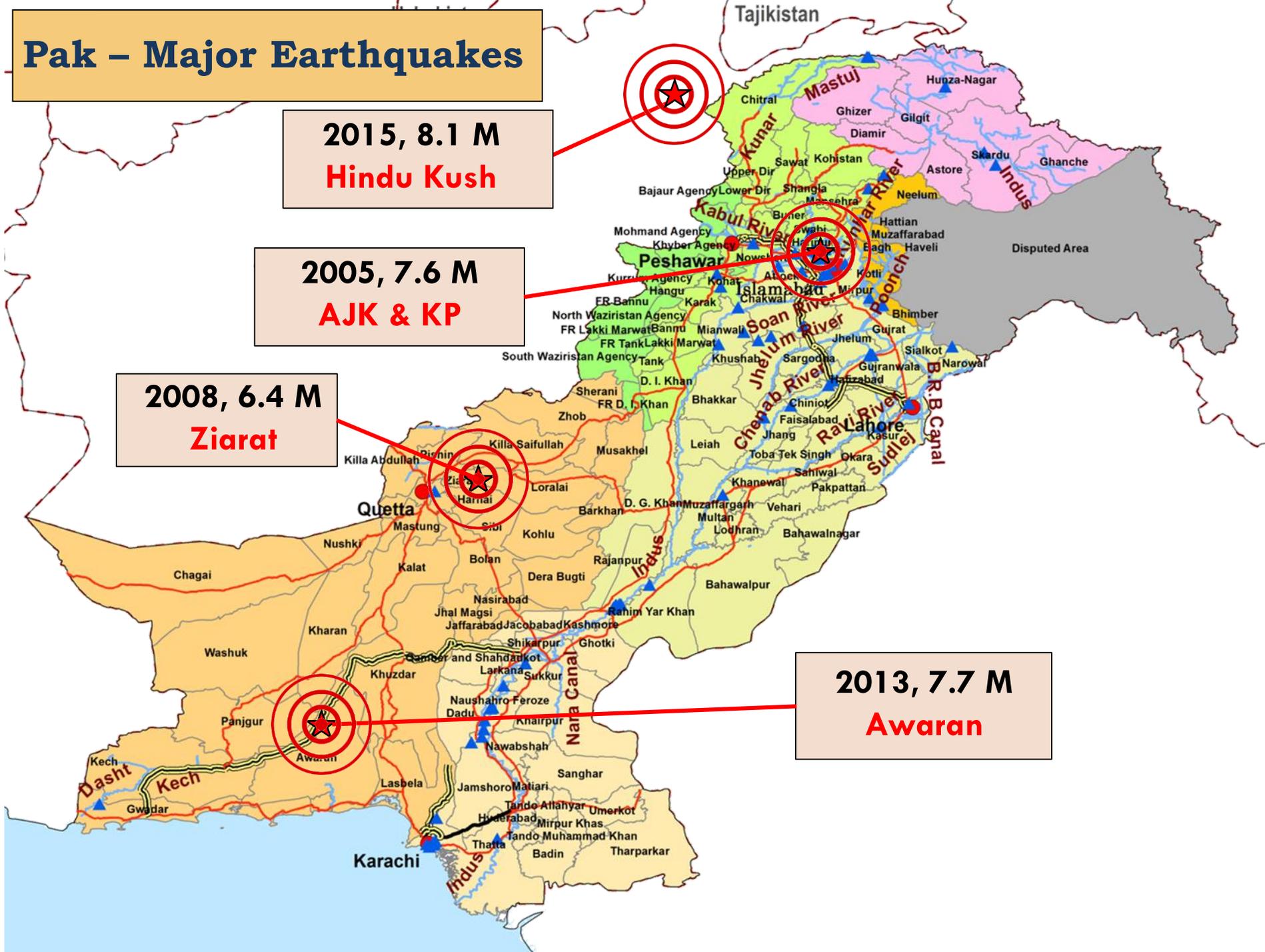
Pak – Major Earthquakes

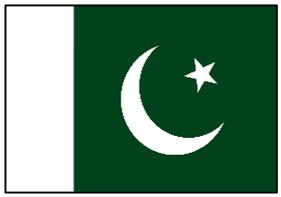
2015, 8.1 M
Hindu Kush

2005, 7.6 M
AJK & KP

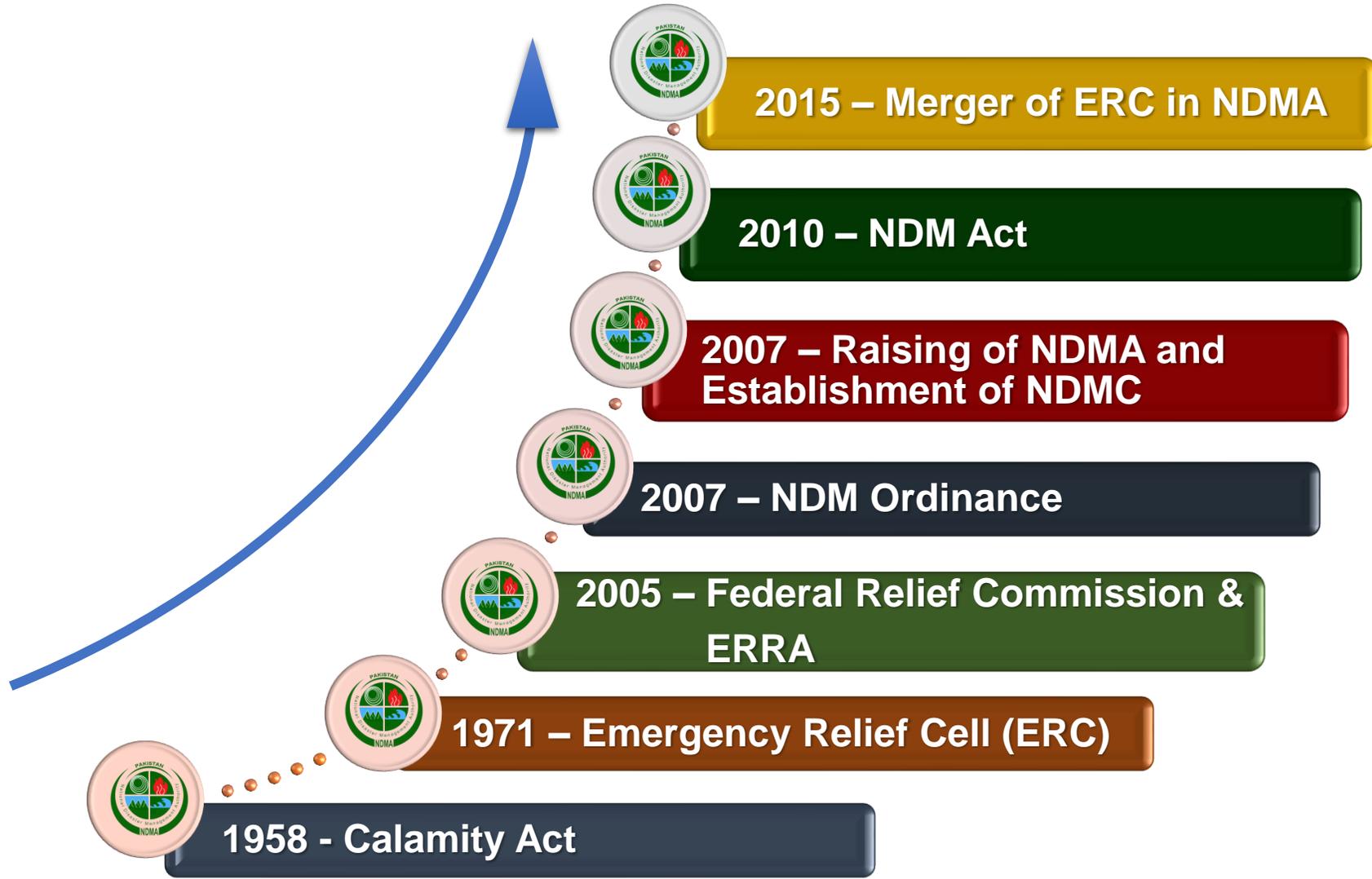
2008, 6.4 M
Ziarat

2013, 7.7 M
Awaran



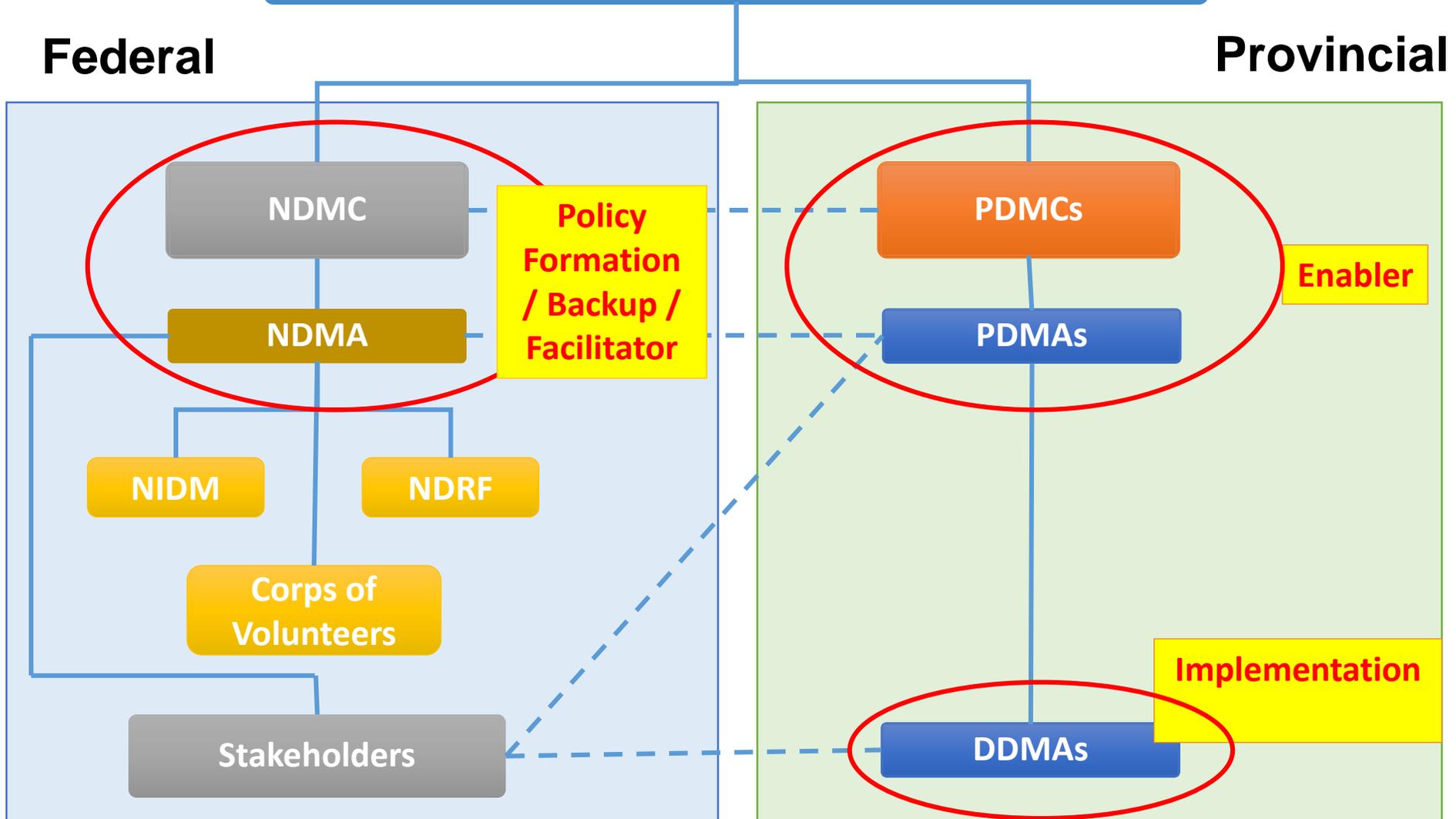


Evolution of Disaster Management System



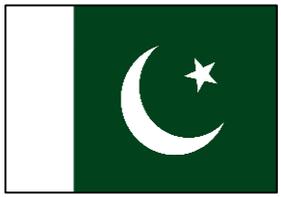
Disaster Management System

National Disaster Management Act





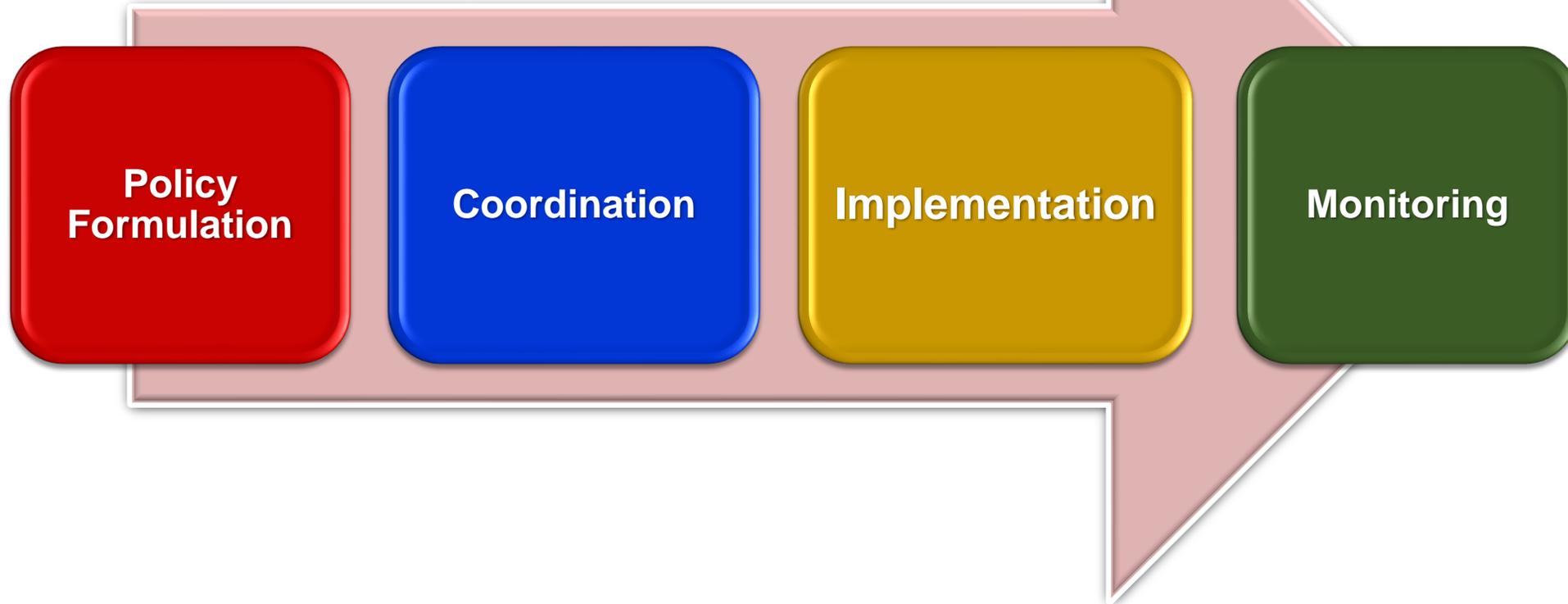
NDMC Composition



- **Prime Minister - Chair**
- **Leaders of Opposition
(Senate & NA)**
- **Federal Ministers
(Related Ministries)**
- **All Chief Ministers including
Chief Minister GB**
- **Governor KP (For FATA)**

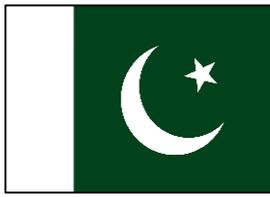
- **Prime Minister AJ&K**
- **Chairman JCSC**
- **Civil Society Members**
- **Co-opted Members**
- **Chairman NDMA- Secretary**

Entire Spectrum of Disaster Management





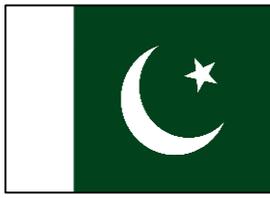
Impact of Disaster 2005 to 2022



• Casualties	84,615
• Injured	137,439
• Population affected	7.5 millions
• House Damaged	2.5 millions
• Educations/ Schools	292,30
• Health Facilities	848,6
• Agriculture	2274,000 Acre
• Livestock	241,086
• Roads/Communication	194,05
• Loss in USD	830.8 Billions

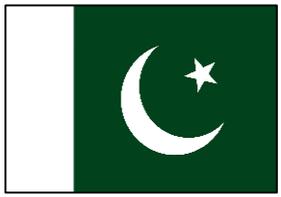


Overview of Balochistan 2022 Flooding



• Causalities :	326
• Injured :	186+ Plus
• IDPs/TDPs (Homeless)	200,380+ Plus.
• Loss of Livestock:	500,000+ Plus
• Houses completely Damaged	22,350+ Plus
• Houses partially Damaged	53,970+ Plus
• Agricultural Crops in acres	600,000+ Plus
• Highway/Main/Link roads damaged	1578 KM
• Bridges damaged	20
• Dam	25
• Solar Systems & Tube wells damaged	3500+ Plus
• Electric polls	60 + plus
• Tube wells	25 + Plus





Relief – Earthquake 2005 to 2022

Tents / Shelters	-	2,954,025 (number)
Blankets / Quilts	-	9,235,380 (number)
Food Items	-	10,290,512 Tons
Plastic Mats	-	590,805 (number)
Jackets	-	944,624 (number)
Mosquito Nets	-	2,954,025 (number)



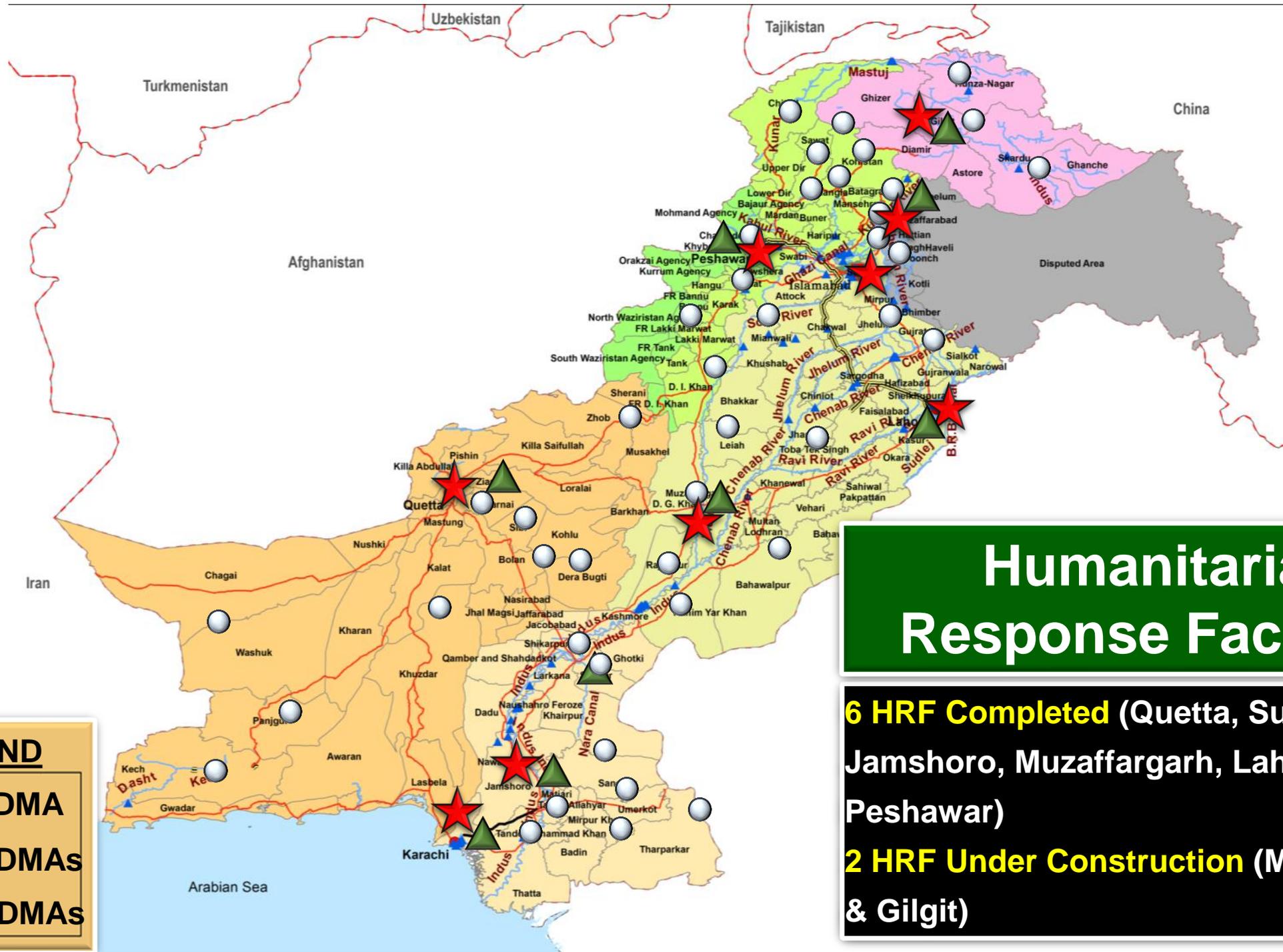
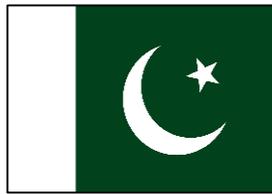
NDMA Relief Stocks



Items	Isb	Punjab	KP	Sindh	BIn	AJK	GB	Total
Tents	25,147	14,058	4,873	25,008	2,851	2,000	3,000	76,937
Shelter Tents	1,806	-	-	2,000	-	-	-	3,806
Tarpaulins	29,755	4,000	6,035	5,703	-	2,000	3,000	55,493
Blankets	25,796	11,820	7,600	15,000	-	4,000	6,000	83,912
Plastic Mats	62,859	6,000	10,005	15,000	10,055	2,000	3,000	103,919
Mosquito Nets	26,110	6,998	-	-	5,998	-	-	46,104
1 st Aid Kits	5,000	-	-	5,000	-	-	-	10,000
Boats / OBMs	06	-	-	-	-	-	-	06
D/W Pumps	-	-	-	46	-	-	-	90
Generators	-	-	-	279	-	-	-	926

NDMA can support 0.3 Million population at onset of any disaster

Net worth of stocks approx 1.5 Billion PKR



Humanitarian Response Facilities

6 HRF Completed (Quetta, Sukkur, Jamshoro, Muzaffargarh, Lahore, Peshawar)
2 HRF Under Construction (Muzaffarabad & Gilgit)

LEGEND

- NDMA
- PDMAs
- DDMAs

Targets;-

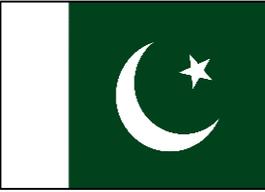
- Understanding Disaster risk
- Strengthening disaster risk governance
- Investing in disaster risk reduction
- Enhancing disaster preparedness for effective response.

In order to achieve the Sendai targets Pakistan has taken the following initiatives;

- Established NDMA to cater all kinds of disasters
- Improving early warning system to minimize the human/economic losses
- Initiated Community based disaster risk management program CBDRM
- Developed and implementation of building code
- Adoption of climate change measures to address the increase of frequent disasters at all level



Research Plan/Theme



- To Compare the Pakistan's DRR/DRM policies with Japan and try to apply it.
- To know about Japanese response mechanism during emergent situation/Disasters.
- To know about building structure for making resilient Pakistan.

Floods 2010 to 2016





Thank You