

Republic Of Yemen  
Presidency Of Council Of Ministers  
Reconstruction Fund  
For Hadramout & AL-Mahara




الجمهورية اليمنية  
رئاسة مجلس الوزراء  
صندوق إعادة إعمار المناطق المتضررة  
لمحافظة حضرموت و المهرة

# Experience of the Fund of Reconstruction for Hadhramout and Al-Mahrah After the Rain and Flood Disaster of October 2008

Republic of Yemen

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# Agenda

- ▶ Natural Hazard and Risk in Yemen
  - ▶ Short Clip on 2008 Flood Disaster
  - ▶ Why this cyclone became a Disaster?
  - ▶ Successful Experience of the Reconstruction Fund
  - ▶ Yemen Probabilistic Multi Hazard Risk Assessment
  - ▶ Next Steps for the Government
  - ▶ Concluding Points
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# Natural Hazard and Risk in Yemen

**One disaster Per year** in past  
20yrs

An estimate annual loss averaging  
**US\$70 million**

# Natural Hazard and Risk in Yemen

The 2008 floods in Hadramout and Al-Mahara alone cost **US\$1.6 billion**

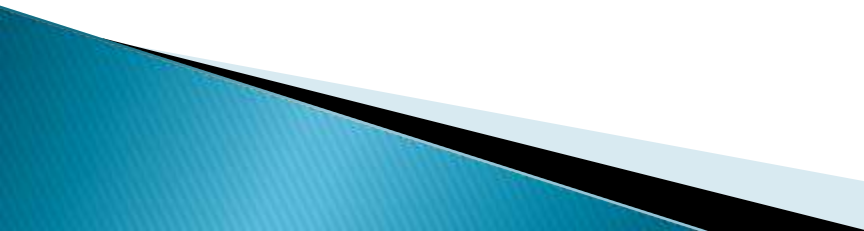
The equivalent of **6 percent** of the country's **GDP**.



# Short Clip on 2008 Flood Disaster



# Why this cyclone became a Disaster?

- ▶ **Extreme Event** but there was a **historical record**
  - ▶ **Negligence of clearing** of natural course of flood from debris, and trees
  - ▶ **Failure** in applying strict **regulations**
  - ▶ **Lack of maintenance** of detour courses
  - ▶ The low or the **inexistence of the basic stone foundation** structure of the mud houses
  - ▶ **Lack of Early Warning System**
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- ▶ Inexistence of proper protection for the mud houses such as the roof insulation and walls being naked of any plastering




# Why this cyclone became a Disaster?

- ▶ **The Mesquite Trees**





# Successful Experience of the Reconstruction Fund

- ▶ \$200Million
  - ▶ Spent %75 of the funds since March 2009
  - ▶ Strategies to fight corruption
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# Yemen Probabilistic Multi Hazard Risk Assessment

Task 5– Hadramout & Al Mahra Probabilistic Risk Assessment (& Establishing Flood Resistance Design Criteria for Infrastructure Investments ); and

Task 6– Feasibility Study for Flood Mitigation through Water Management Alternatives for Hadramout & Al Mahra Governorates

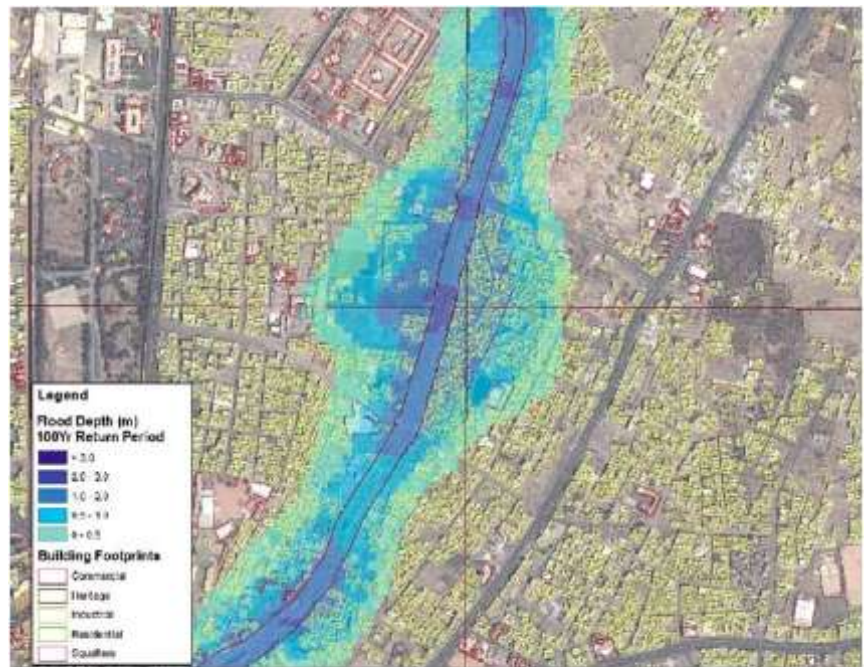



Figure 2: Close-up View of Flood Hazard Map Depicting 100-year Flood Event Affecting Sana'a Buildings

# Next Steps for the Government

- ▶ Government is going to take some measures learned from historical practice and also some modern practice .
  - ▶ To design and construct many of these measures, more accurate studies based on better quality data is required. And Funds from GFDRR and donor countries
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# Concluding Points

- ▶ Government needs funding, and transfer of technical expertise
- ▶ Unique characteristics (heritage, mud houses, mesquite trees) need special studies
- ▶ Capacity building:
  - in using the risk data and assessments ,
  - design and implemnetaiton of early warning system,
  - disaster managemnet practice ,
  - and GIS

TO MAKE the impact of all these efforts **SUSTAINABLE**