

## Disaster Loss Accounting in the Arab Region

**2009 = problem identified**

**2010 = solution rolled out**

**2011 = results in GAR2011**

**2012 – 2014 = scaling up**

**\* In the Arab Strategy for Disaster  
Risk Reduction 2020 (LAS)**

**\* In the Loss & Damage Work  
Programme under Cancun  
Adaptation Framework (UNFCCC)**



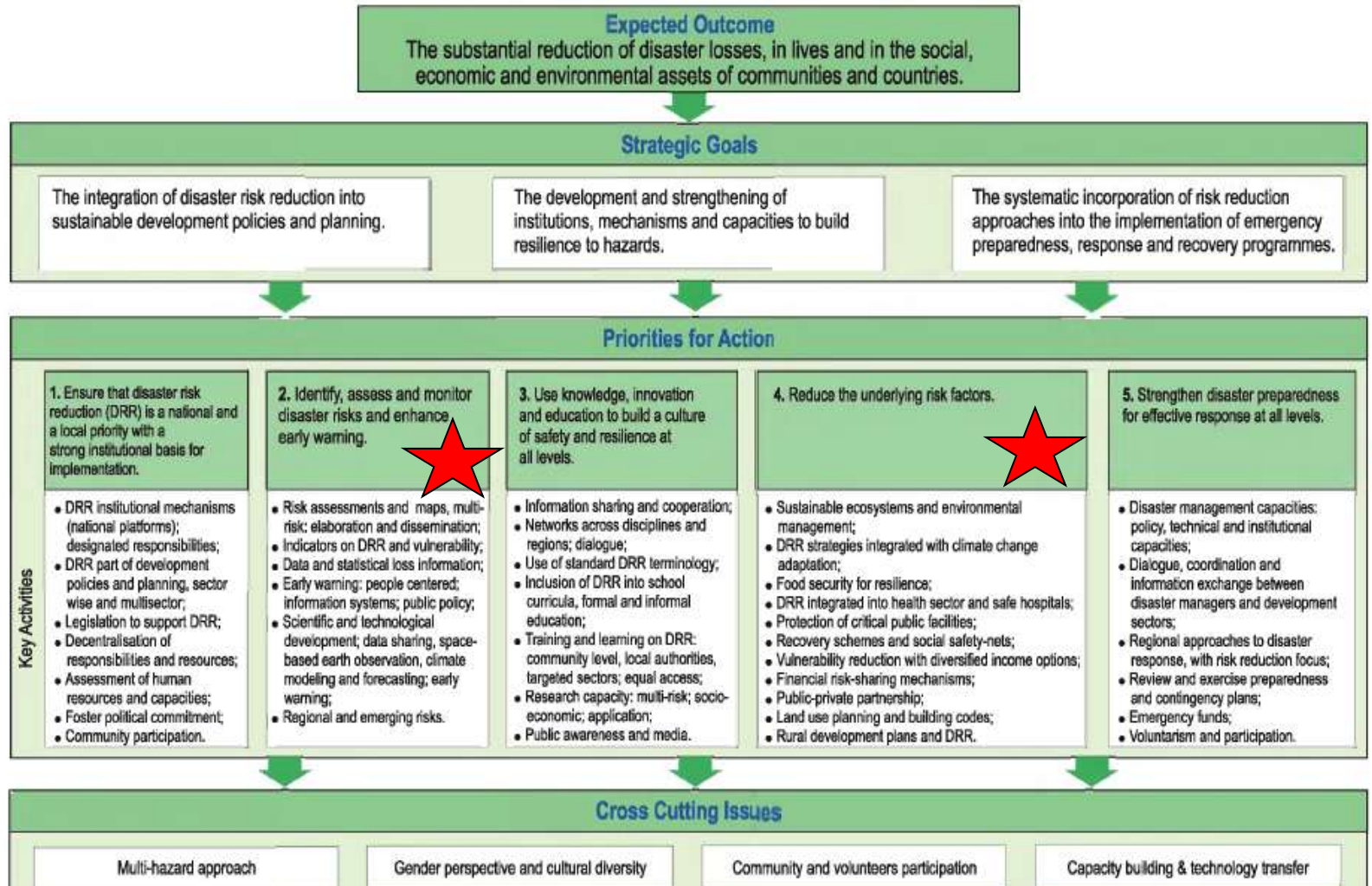


# UNISDR

مكتب الأمم المتحدة للحد من مخاطر الكوارث

## SUMMARY of the Hyogo Framework for Action 2005-2015: Building the Resilience of Nations and Communities to Disasters

### Expected outcome, strategic goals and priorities for action 2005-2015



Contributing to the achievements of the internationally agreed development goals (including the MDGs).

## Using disaster databases and risk models to assess loss and damage associated with climate change impacts

## Advancing DRR @ Country Level

### ① Information and Data

Lack of Systematic Accountable recording of disaster data

Lack of coordination between science, politics, disaster managers, the public

Lack of practical, accessible, standardized approach to assessment of disaster losses and damages

On Hazards, Risk, Disaster Events, Losses, Vulnerabilities, etc...

### ② Policies & Legislations

Informed by Data

### ③ Public Awareness

Informed by public policy

### ④ Investments Public & Private

Resulting from more awareness

### ⑤ Implementation/Integration of DRR Measures

Resulting from increased investments

# An incomplete picture of disaster losses and impacts

- **EM-DAT:** Public domain coverage of large-scale mortality. Weak coverage of smaller disasters. Inconsistent reporting of economic loss.
- **NAT-CAT** and **SIGMA:** Re-insurance industry databases. Insured losses in developed markets. Restricted access.
- **ECLAC methodology evaluations:** comprehensive data for selected large disasters
- **National data:** heterogeneous, dispersed and inaccessible data held by governments, NGOs, universities and others.



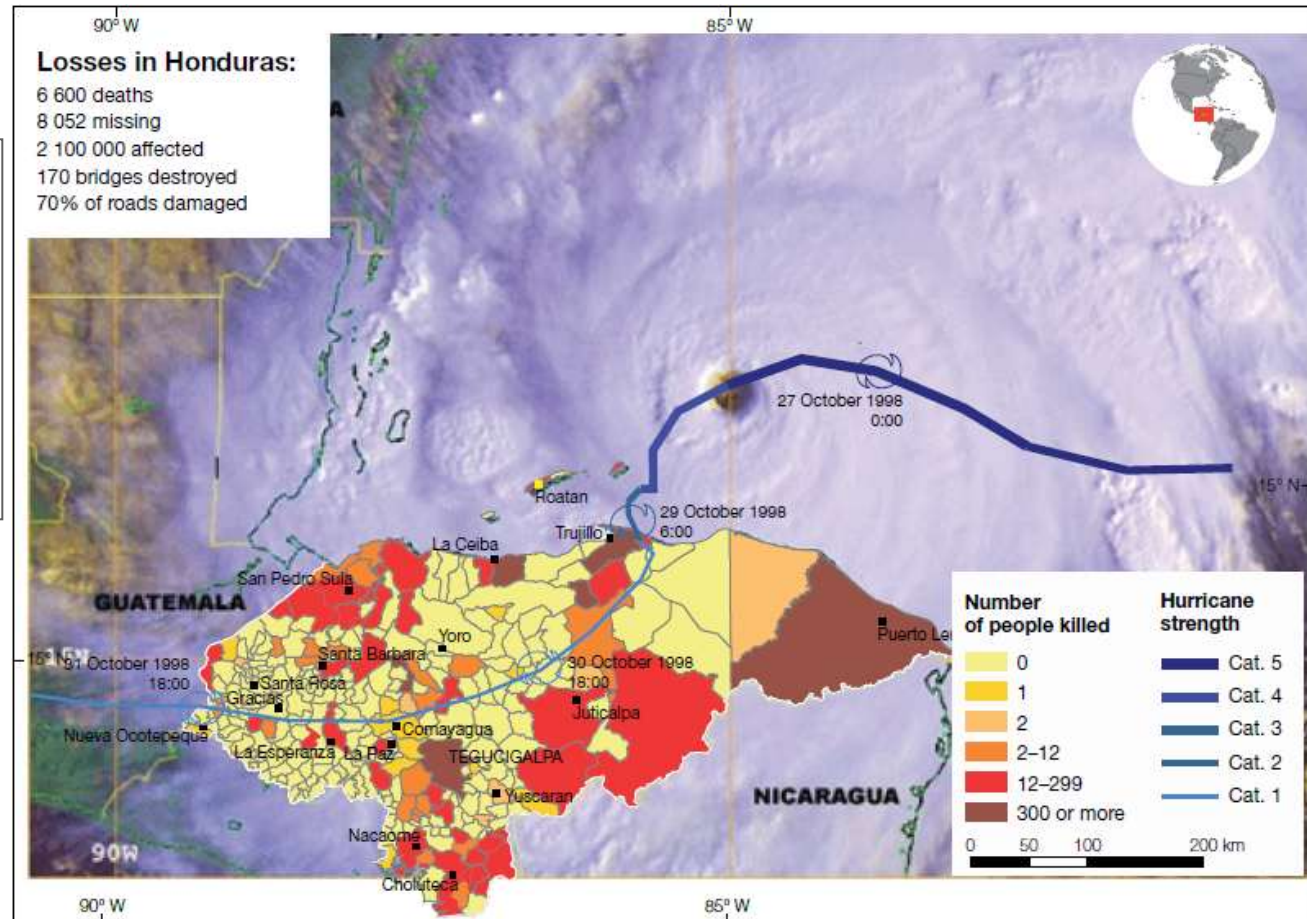
# National databases: Deconstructing disasters

5



**EM-DAT: Global level of Observation,  
National level resolution**

www.unisdr.org

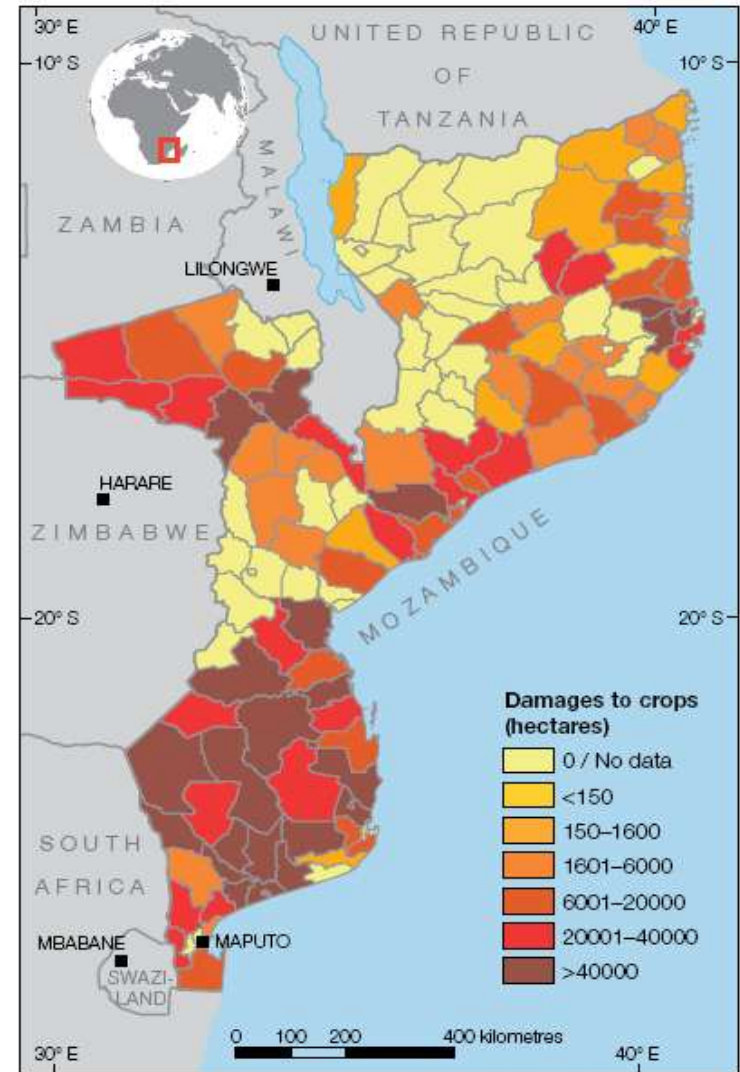
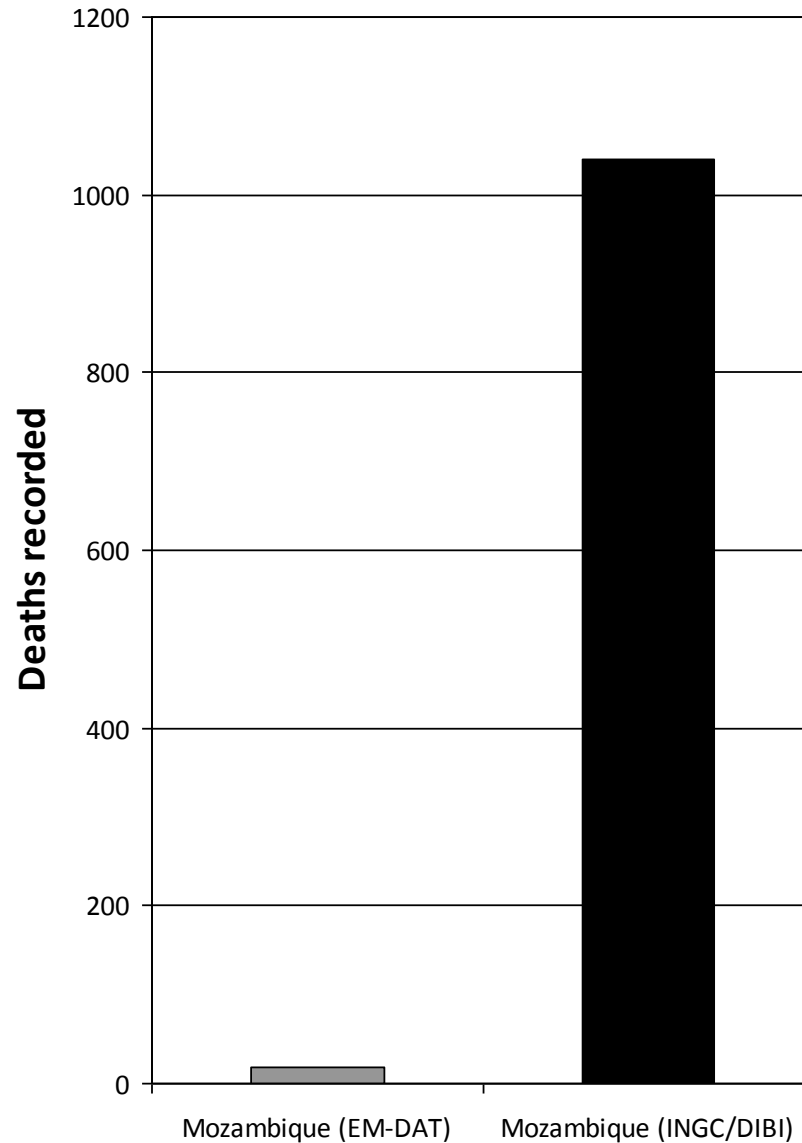


**National database: Local level of Observation, municipality level resolution**

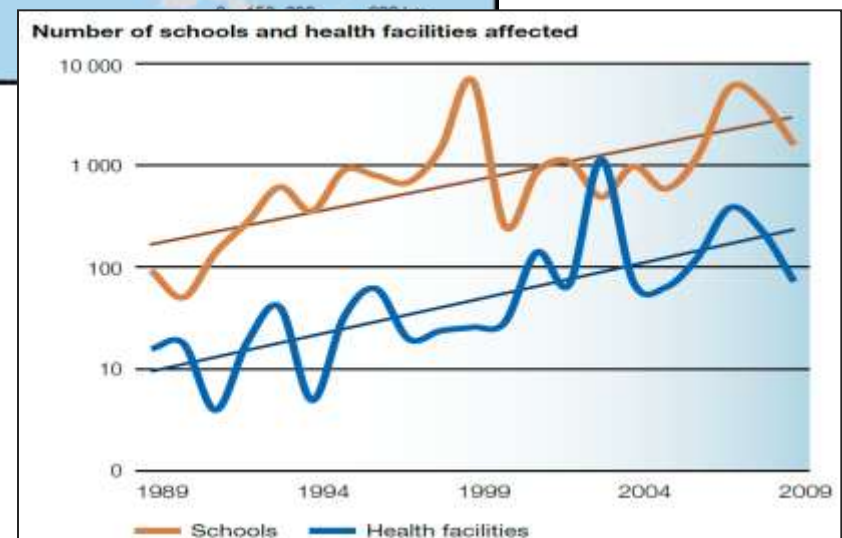
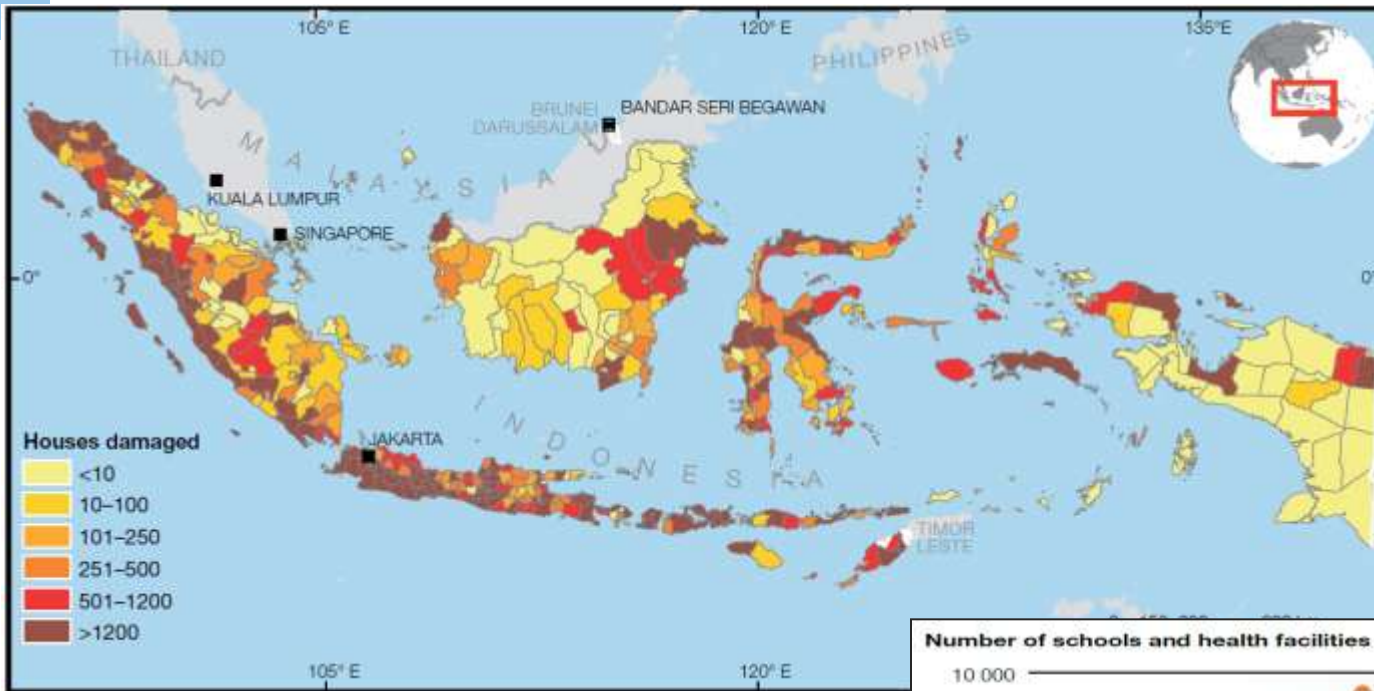
# A better picture of disaster losses and impacts <sup>6</sup>

- **Richer set of indicators**
- **Wider coverage of small and medium scale disasters.**
- **Disaggregation of data to usable units** (county/municipality)
- **Collected and validated locally within the country**

## Drought impacts in Mozambique (1990 – 2009)

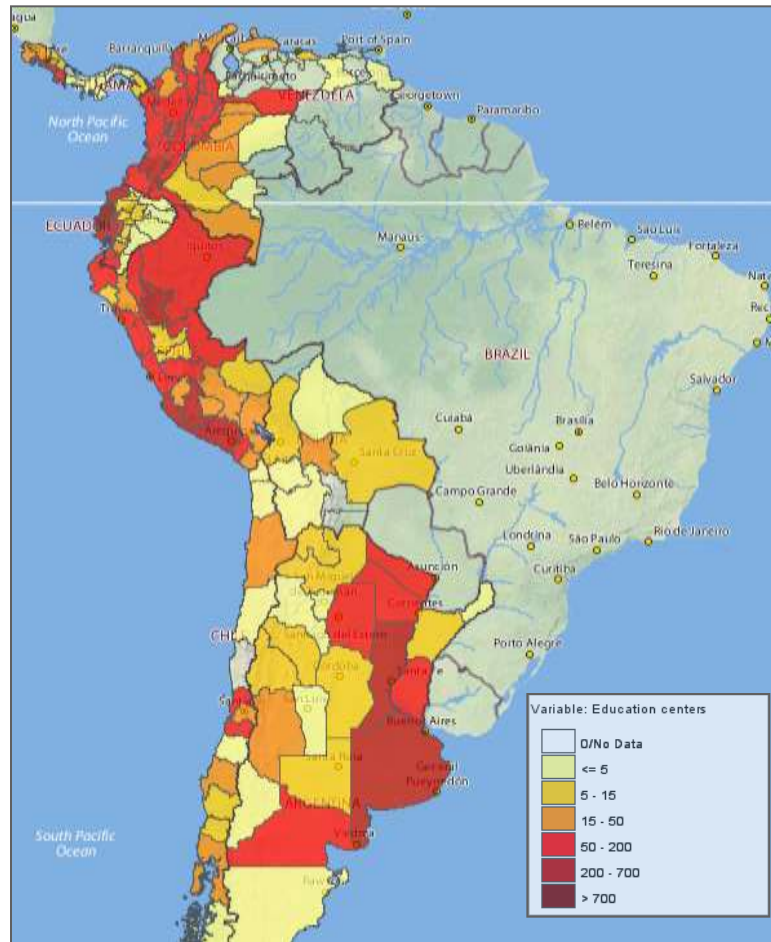


# National databases: Trends and patterns of realized risk

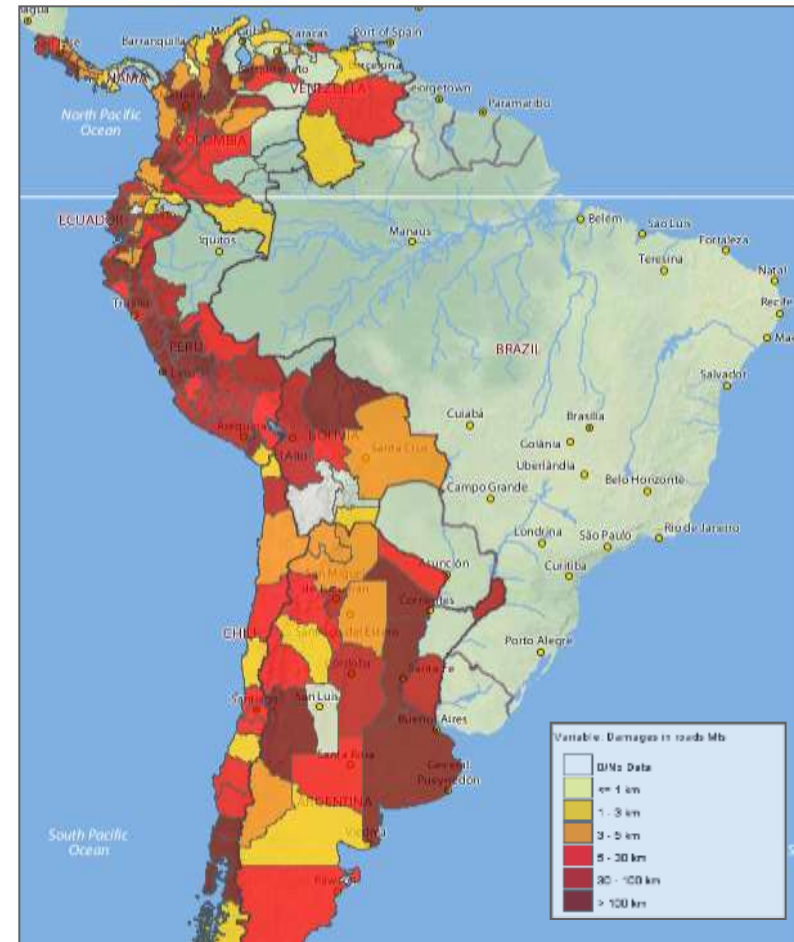




# Damages absorbed by local and national governments



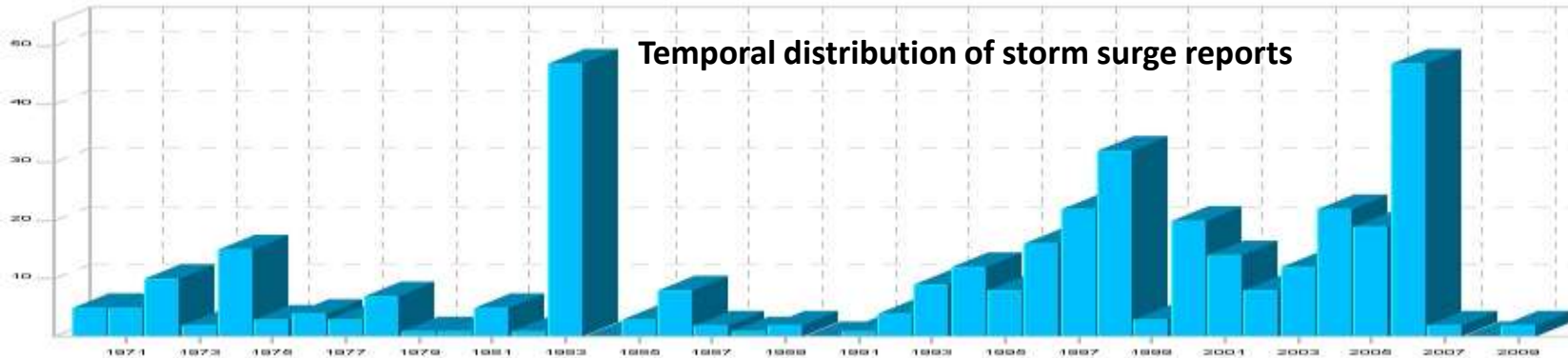
Number of education facilities damaged (1970 – 2009)



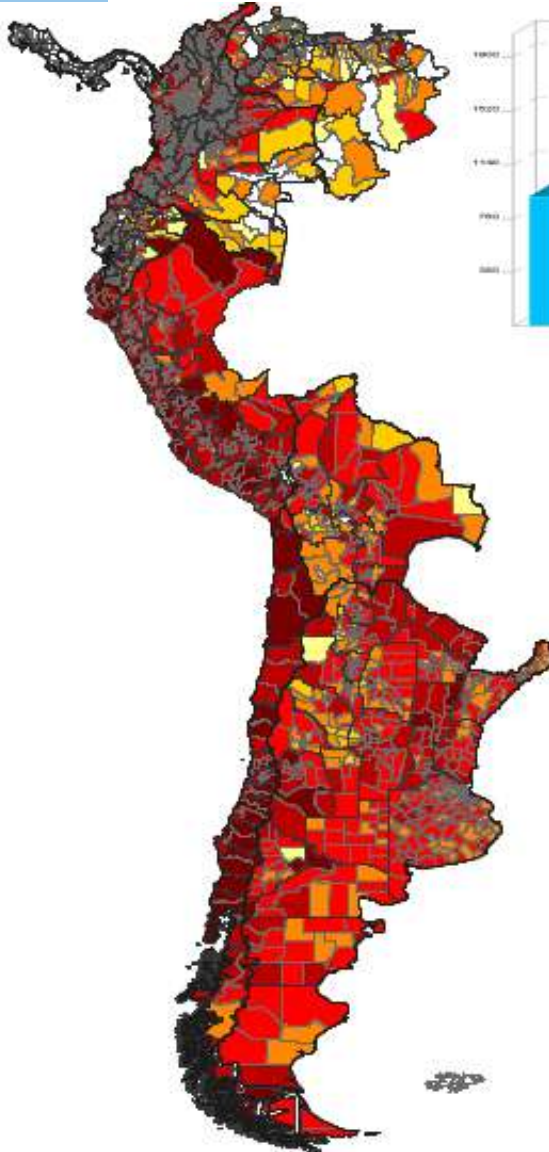
Kilometers of road damaged (1970 – 2009)

*(Argentina, Bolivia, Chile, Colombia, Costa Rica, Ecuador, Panama, Peru, Venezuela)*

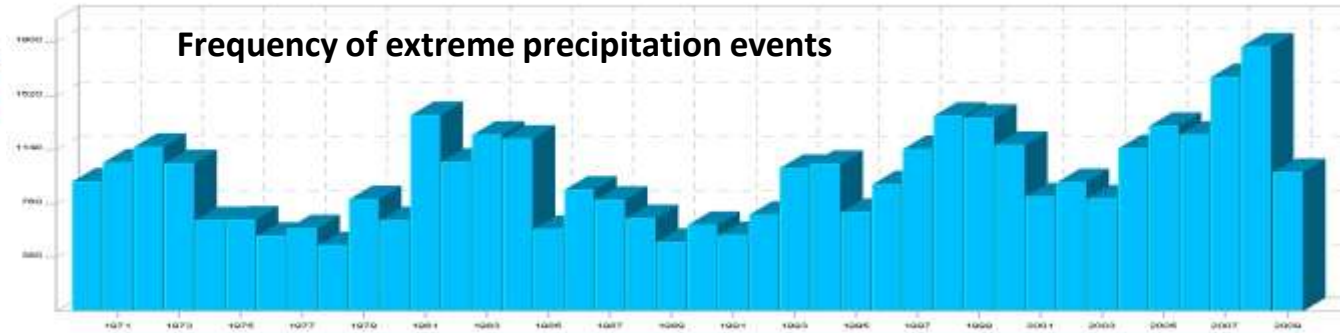
## Storm surges in Peru (1970 – 2009)



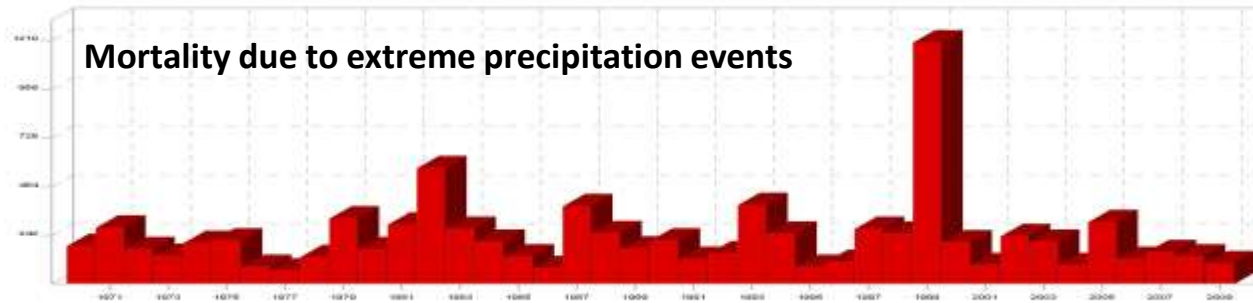
# Extreme weather events in S. America (1970 – 2009)



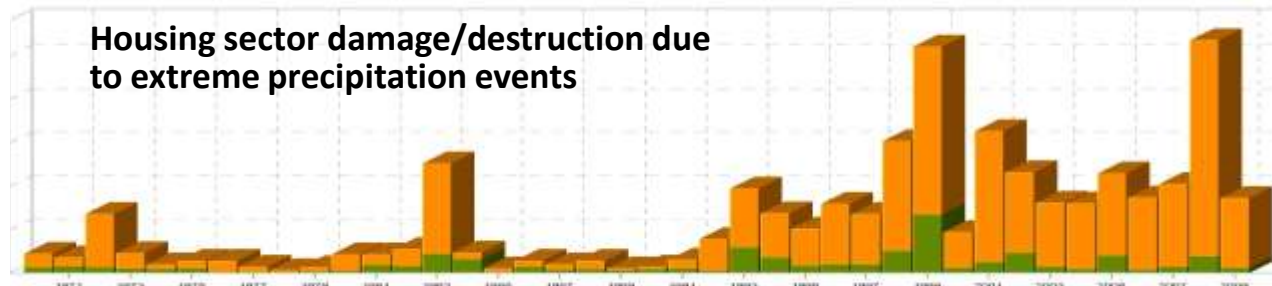
**Frequency of extreme precipitation events**



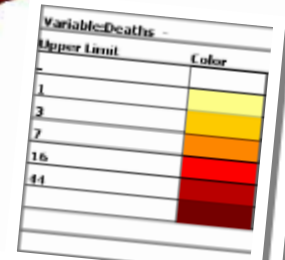
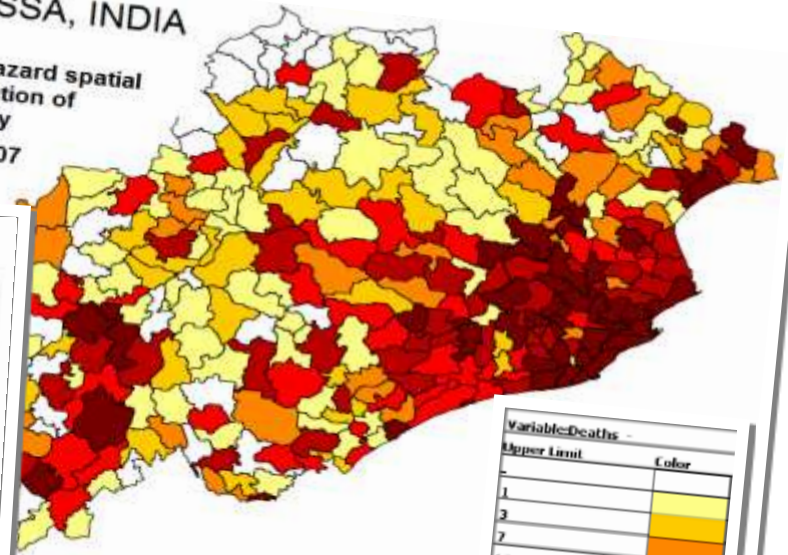
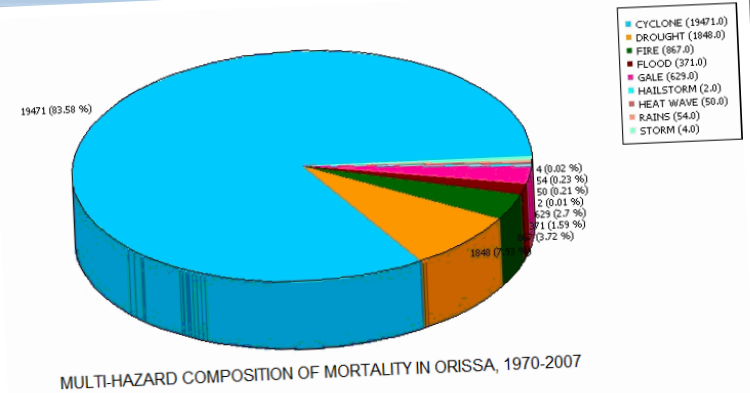
**Mortality due to extreme precipitation events**



**Housing sector damage/destruction due to extreme precipitation events**









- Disaster loss data informing risk assessment and investment in DRR
- Account for both intensive **and** extensive disaster losses
- National governments institutionalising disaster loss accounting systems
- Standardised criteria, definitions and identifiers to enable comparison
- A global picture built from the local level upwards
- From damages to losses to impacts

## The direct impact of systematic disaster loss accounting

1. Defining baselines.
2. Assessing countries' vulnerability (at national and local levels).
3. Understanding full spectrum of economic loss risk.
4. Assessing effectiveness of adaptation measures, building back better, development planning.
5. Using a multi-purpose, comprehensive tool for disaster risk reduction.

# JORDAN (1981-2010, 454 data cards)

## Key Findings:

1. Most **'deadly'**: flash floods, floods, snowstorms and cold waves.
2. Most **'destructive'**: Snowstorms and earthquakes
3. Most **'people affected'** by: Drought.
4. Most **'economic loss'**: Frost, epidemics, drought.
5. Most **impacts on health**: Forest fire, epidemics.
6. Most **impact on education**: Snowstorms, frost.

# SYRIA (1980-2009, 7326 data cards)

## Key findings:

1. Most **'deadly'**: Fires.
2. Most **'destructive'**: Rains, flash floods, fires.
3. Most **'affected'** by: Drought and frost.
4. Most **'economic loss'**: Forest fires, frost, flash floods.
5. Most **impacts on health**: Strong winds, floods, frost.
6. Most **impact on education**: Rains, snowstorms, floods.



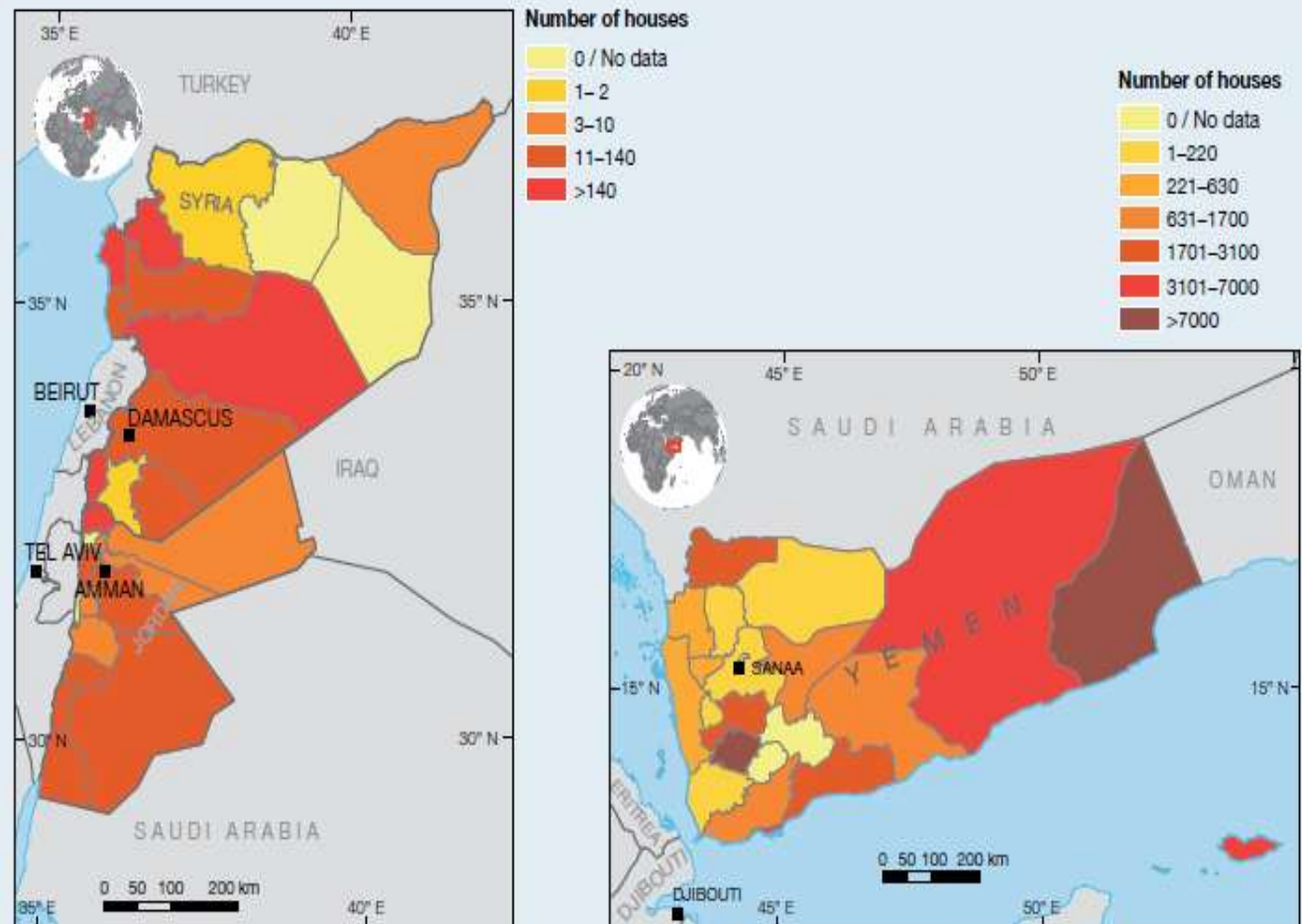
# YEMEN (1971-2011, 8945 data cards)

## Key Findings:

1. Most '**deadly**': epidemics, liquefaction, earthquakes, floods.
2. Most '**destructive**': Liquefaction, floods, earthquakes.
3. Most '**affected**' by: Floods, liquefaction.
4. Most '**economic loss**': Floods, liquefaction, fires.
5. Most **impacts on health**: Floods, epidemics.
6. Most **impact on education**: Epidemics, liquefaction, floods and rain.

level disaster loss data in the Arab states, where until then, the absence of systematic information on disaster impacts had been a major obstacle to strengthening capacities for disaster risk reduction. Jordan, the Syrian Arab Republic and Yemen (Figure 2.23) have recently published national disaster inventories, included in GAR11, and it is expected that the other two countries will soon follow. Mozambique and the Arab states also plan to include age- and gender-enabled indicators when such information is available.

Figure 2.23  
Housing damage by  
governorate in Jordan and the  
Syrian Arab Republic (left), and  
by province in Yemen (right),  
1989–2009



# Informing risk governance and population

19




## Disaster Information Management System - SRI LANKA



WELCOME to Disaster Information Management System in Sri Lanka

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### ABOUT US

- [What is Disaster Information Management System](#)
- [Data Sources](#)
- [Data Collection Process](#)
- [Data Validation](#)
- [Disaster Definitions](#)
- [Incident Reporting Formats](#)
- [User Manual](#)
- [Training and Awareness](#)

### DISTRICTS PROFILES



Colombo	Gampaha
Kandy	Puttalam
Kalutara	Galle
Matara	Hambantota
Ratnapura	Ampara
Trincomalee	Batticaloa
Kegalle	Monaragala
Kurunegala	Anuradhapura
Polonnaruwa	Matale
Nuwara Eliya	Mannar
Vavuniya	Mullaitivu
Kilinochchi	

### Lightning



Lightning is a disaster that has occurred throughout the period with a cyclical pattern. Seasonally, too, it has taken on a cyclical pattern. Although the number of people affected, damage to houses and agricultural loss are not very high, there have been relatively high levels of death due to lightning...

1 2 3 4 5

### Disaster Information Management System - Sri Lanka

Welcome to

The Disaster Management Centre (DMC) of the Ministry of Disaster Management with technical and financial support from the Disaster Risk Management (DRM) programme of the United Nations Development Programme (UNDP) and the UNDP Regional Centre in Bangkok (RCB) has initiated the development of a database on the past disaster incidents from 1974 to date. The Disaster Information Management System is a sustainable arrangement within an institution for the systematic collection, documentation and analysis of data about losses caused by natural and man made disasters.

[Read More](#)

**Please click on Following Link to Enter in to the Database:**

This querying system will provide you with basic data about the effects of many types of natural disasters occurred in the country.

Disaster Information Management System in Sri Lanka from 1974 to Upto Date...

### DISASTER PROFILE IN SRI LANKA

#### INTRODUCTION

2011 Jan 05

The disaster event profile of Sri Lanka presents how disaster events of different categories have been distributed chronologically, seasonally and spatially. Distribution wise, the overall disaster typology in Sri Lanka is not distributed evenly. In terms of annual time series distribution....

[Read More.....](#)

### PUBLICATIONS



**SRI LANKA NATIONAL REPORT ON DISASTER RISK, POVERTY AND HUMAN DEVELOPMENT RELATIONSHIP**

[Read More](#)

### LATEST DISASTER INCIDENT IN SRI LANKA

**Colombo, 11 January, Sri Lanka recent flooding causes Rs. 30 billion loss**

The most devastating floods that had battered the Eastern coast of Sri Lanka and wreaked havoc in most parts of the island had cost the emerging economy a staggering Rs. 30bn...

**11 JAN 2011** Over 200,000 acres of paddy land destroyed by floods in Sri Lanka

Heavy rains, landslides, and strong gusty winds continue to devastate several.....

**11 JAN 2011** Unfavorable weather to continue in Sri Lanka

From yesterday onwards, due to the influence of the atmospheric disturbances, the showery weather with strong winds at times will continue over most parts of the co.....

### DIFFERENT DISASTERS & THEIR IMPACTS

**Drought**  
People Affected, Losses to Agricultural Crops  
It is also important to note that major droughts occurred in 1992 and 2001,...

**Landslide**  
People Affected, Damaged and Destroyed Houses, Losses to Agricultural Crops  
Until the year 2002, the annual average number of landslide records did not exceed 50....

**Animal Attack**  
People Affected, Damaged and Destroyed Houses...  
However, unlike people affected, deaths appear to be fluctuating within the last....

### Partner Organisations





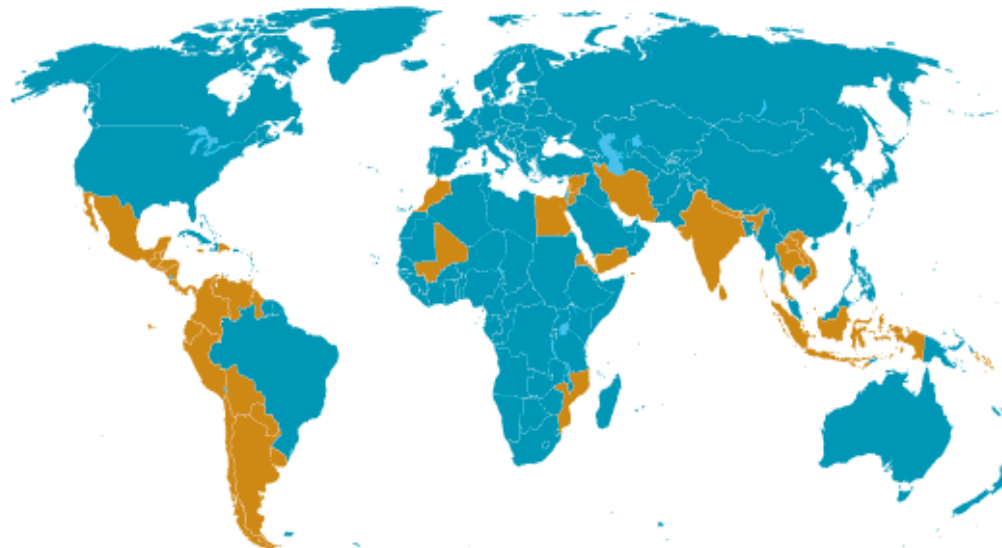
## OVERVIEW

What is DesInventar?  
Basic Methodology  
Definition of Effects  
Data Sources  
Disaster Reporting Format  
Want DesInventar in your country?

## Disaster type definitions

Cyclones  
Tornado  
Storm/Gale  
Extreme Rain  
Lightning/Electrical Storm  
Hailstorm  
Snowstorm  
Cold Wave  
Frost  
Flood  
Urban flood  
Flash flood  
Surge/Coastal flood  
Landslide  
Alluvion  
Avalanche  
Drought  
Heat Wave  
Sandstorm  
Urban or industrial fire  
Forest fire  
Volcano Eruption

## AVAILABLE DATASETS



### Americas

Argentina (GAR11)  
Bolivia  
Chile  
Colombia  
Costa Rica  
Ecuador  
El Salvador  
Guatemala  
Guyana  
Honduras  
Jamaica  
Mexico  
Nicaragua  
Trinidad & Tobago  
Panama  
Paraguay  
Peru  
Republica Dominicana  
Uruguay

### Asia Pacific

India (Orissa)  
India (Tamil Nadu)  
India (Uttaranchal)  
India (Uttar Pradesh)  
India (Mizoram)  
Indonesia  
Iran  
Jordan  
Laos  
Lebanon  
Maldives  
Nepal  
Solomon Islands  
Sri Lanka  
Syria (GAR11)  
Timor Leste  
Vietnam  
Yemen

### Africa

Djibouti  
Egypt  
Mali  
Morocco  
Mozambique

**NOTE:** we make our best effort to publish in this server the most recent data collected by partners and stakeholders listed below. They are the rightful owners of the respective information. It is requested that proper citation be made when quoting this data. Please refer to the list of servers at the right side of this screen. Note some countries maintain their data private.

## DOCUMENTATION

Executive Summary  
Tutorial  
Interactive Help  
Preliminary Analysis  
Analysis Module - User Manual  
Admin Module - User Manual  
Installation Guide  
  
Full list - Other languages

## Recent Publications



Global Assessment Report 2011



Global Assessment Report 2009



Sri Lanka National Report on Disaster Risk ....



Viet Nam Flood and Storm Analysis.



Impact of disasters on children



Extensive Risk Analysis GAR11

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 ☐ View map
 ☐ Charts
 ☐ Statistics
 ☐ Reports
 ☐ Thematic
 ☐ Crosstab

Region: **Sri Lanka** - [sl]
 DataCard: << < > >>
 Find serial: 
[Back to Search Results](#)

Serial: CY1978
 Date (YMD): 1978 11 23
 Duration (d): 0
 Source: District Office/ DI19781125P1/ DI1978112

Province: Eastern
 District: Batticaloa
 Division:

Event: CYCLONE
 Location: 
 GLIDNumber:

Cause: 
 Description of Cause:

**EFFECTS**

Deaths: 578 ☒ Missing: 0 ☐ Injured: 0 ☒ Magnitude:

Affected: 271000 ☒ Relocated: 0 ☐ Houses Damaged: 11980 ☒ Losses \$Local: 0

Evacuated: 0 ☐ Victims: 0 ☐ Houses Destroyed: 3430 ☒ Losses \$USD: 0

**AFFECTED SECTORS**

☐ Transportation
 ☐ Communications
 ☐ Relief
 ☐ Agriculture
 ☐ Water supply
 ☐ Sewerage
 ☐ Power and Energy
 ☐ Industries
 ☐ Education
 ☐ Other sectors
 ☐ Health sector

Damages in roads Mts: 0.0
 Damages in crops Ha.: 0
 Lost Cattle: 0
 Education centers: 0
 Hospitals: 0

OTHER LOSSES: 
 Latitude: 0
 Longitude: 0

**COMMENTS:**

DI19781123 DN19781216P1 20080806

By: SHANI
 Date: 2008-08-06

**Human Lives & General**
Buildings
 Agriculture & Livestock
 Relief
 Transportation
 Water Supply & Irrigation

No of Males Affected: 0
 No of Females Affected: 0
 No. of males dead: 0

Actual data capture screen.

Standard Effects (16 quantitative indicators, 12 qualitative).

Global databases: 3-5 indicators.

Extension (Sectorial detail information, unlimited additional indicators)

Region **Yemen** - [ym]

**Query Definition**

Keyword search (slow)

Select events and geographic units, and set the options that specify the disasters you want to query:

Disaster type	Governorate	District	Village	Cause
<input type="checkbox"/> EPIDEMIC <input type="checkbox"/> LIQUEFACTION <input type="checkbox"/> ACCIDENT <input type="checkbox"/> FIRE <input type="checkbox"/> LANDSLIDE <input type="checkbox"/> THUNDER STORM <input checked="" type="checkbox"/> FLOOD <input type="checkbox"/> RAINS <input type="checkbox"/> EARTHQUAKE <input type="checkbox"/> STRUCTURAL COLLAPSE	<input type="checkbox"/> Hadramaut <input type="checkbox"/> Dharmar <input type="checkbox"/> Raymah <input type="checkbox"/> Shabwah <input type="checkbox"/> Sa'adah <input type="checkbox"/> Sana'a <input type="checkbox"/> Aden <input type="checkbox"/> Amran <input type="checkbox"/> Lahj <input type="checkbox"/> Marib	<input type="checkbox"/> Rumah <input type="checkbox"/> Thamud <input type="checkbox"/> Al Qaf <input type="checkbox"/> Zamakh wa Manwakh <input type="checkbox"/> Hagr As Sai'ar <input type="checkbox"/> Al Abr <input type="checkbox"/> Al Qatn <input type="checkbox"/> Shibam <input type="checkbox"/> Sah <input type="checkbox"/> Sayun		<input type="checkbox"/> Accidental Drowning <input type="checkbox"/> Tetanus <input type="checkbox"/> Cholera <input type="checkbox"/> Leshmaniasis <input type="checkbox"/> Malaria <input type="checkbox"/> Mumps <input type="checkbox"/> Deforestation <input type="checkbox"/> Landslide <input type="checkbox"/> Lightning <input type="checkbox"/> Anopheles

Use Ctrl-Click and/or Shift-Click to deselect or for multiple selections. If no selections are made, all items will be selected.

NOTE: Selections of District have precedence over selections of Governorate

Select only events with:

<input type="checkbox"/> Deaths	<input type="text"/>	<input type="checkbox"/> Injured	<input type="text"/>
<input type="checkbox"/> Houses Destroyed	<input type="text"/>	<input type="checkbox"/> Houses Damaged	<input type="text"/>
<input type="checkbox"/> Victims	<input type="text"/>	<input type="checkbox"/> Affected	<input type="text"/>
<input type="checkbox"/> Evacuated	<input type="text"/>	<input type="checkbox"/> Relocated	<input type="text"/>
<input type="checkbox"/> Hospitals	<input type="text"/>	<input type="checkbox"/> Missing	<input type="text"/>
<input type="checkbox"/> Damages in roads Mts	<input type="text"/>	<input type="checkbox"/> Damages in crops Ha.	<input type="text"/>
<input type="checkbox"/> Lost Cattle	<input type="text"/>	<input type="checkbox"/> Education centers	<input type="text"/>

Select events that affected:

<input type="checkbox"/> Water supply	<input type="checkbox"/> Sewerage
<input type="checkbox"/> Health sector	<input type="checkbox"/> Education
<input type="checkbox"/> Industries	<input type="checkbox"/> Transportation
<input type="checkbox"/> Communications	<input type="checkbox"/> Power and Energy
<input type="checkbox"/> Relief	<input type="checkbox"/> Agriculture
<input type="checkbox"/> Other sectors	

Logic

☐ OR  
☒ AND

Date range: (YYYY MM DD)

 From:    To:    GLIDENumber 

 Expert Selection  

 Sort results by  Hits per page 

New Q

Save Q

Load Q



## Features

- Climate change and disaster risk reduction
- Global Assessment Report on Disaster Risk Reduction
- What is PreventionWeb?
- What is the Hyogo Framework for Action?

## Events Calendar

## Upcoming

- Understanding risk: Mapping global risk  
02-06 Jul 2012
- People centered, people led and people owned disaster risk reduction initiative  
02-07 Jul 2012
- Sea change: Evaluation of climate change interventions for excluded populations webinar  
06 Jul 2012

[View all](#)

## Popular Searches

disaster management framework in uk, what is humanitarian aid?

## Pakistan: Disaster risk - No possibility of floods in monsoon, says PMD

4 Jul 2012, Express Tribune, the

'We have requested the government to include disaster management as a subject in the syllabus till matriculation,' said DG National Disaster Management Authority at the 2-day Disaster-risk Reduction and Emergency Response event. 'Disasters, whether natural or technological occurrences, have an adverse effect on efforts aimed at sustainable development.'...



### • Climate change and cities

4 Jul 2012, AlertNet

With most of the world's population now urban and cities set to continue surging in size, climate change has become an urban problem. How will cities deal with the coming pressures? A Laurie Goering, AlertNet Climate editor package...

### • Is it time to reconsider appointing a humanitarian ombudsman?

4 Jul 2012, Guardian, the

The Guardian analyzes the finding of ALNAP's State of the Humanitarian System 2012, highlighting that indeed, disaster-risk reduction-related investments amount to only 1% of the \$150bn spent in 20 countries that received the most humanitarian aid in the past five years...

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GAR 2013

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## Post-HFA

**Post-HFA Consultation Paper** on substantive issues and the consultative process as the disaster risk reduction community heads toward the end date of the Hyogo Framework of Action 2005-2015,

[Read the consultation paper](#)

## Making Cities Resilient



**Sign up today to make your city resilient to disasters**

[Get involved in the campaign](#)

## Millennium Development Goals &amp; DRR



**Implementing a risk-sensitive approach** to ensure accelerated achievement and

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## Wild Fire

Disaster data, news and info to reduce risk



## DRR Publications

- The state of the humanitarian system (2012)

2012, ALNAP



## Climate Change

- News
- HFA Progress Reports
- Training & Events
- Academic Programmes
- Educational Materials
- Networks & Communities
- Organizations
- Documents & Publications
- Maps
- Multimedia
- Jobs

## Climate Change

Adaptation: The adjustment response to actual or expected climate change which moderates harm or

### Climate change and

4 Jul 2012, AlertNet  
 With most of the world's population continue surging in size, the problem. How will cities deal with it? Laurie Goering, AlertNet Contributor

### HFA Progress Report

Extracts of progress reports on implementation of the Hyogo Framework for Action

- Indicator 4.1 [PDF, 10 pages]  
 Disaster risk reduction in the context of related policies and plans, management and adaptation

### Training & Events on

- Understanding risk: Module 1  
 02-06 Jul 2012, South Africa
- People centered, people's risk reduction initiative  
 02-07 Jul 2012, India (Gurgaon)
- Integrated DRR/Community course  
 03 Jul 2012 - 25 Feb 2013

- Capacity Development
- Civil Society/NGOs
- Climate Change
- Community-based DRR
- Complex Emergency
- Critical Infrastructure
- Disaster Risk Management
- Early Warning
- Economics of DRR
- Education & School Safety
- Environment
- Food Security & Agriculture
- Gender
- GIS & Mapping
- Governance
- Health & Health Facilities
- Indigenous Knowledge
- Information Management
- Media
- Private-public Partnerships
- Recovery
- Risk Identification & Assessment
- Risk Transfer & Insurance
- Social Impacts & Resilience
- Space Technology
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- Vulnerable Populations

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**UNITED NATIONS**  
 CLIMATE CHANGE CONFERENCE 2011  
 DURBAN, SOUTH AFRICA