



Source: NASA (2002)

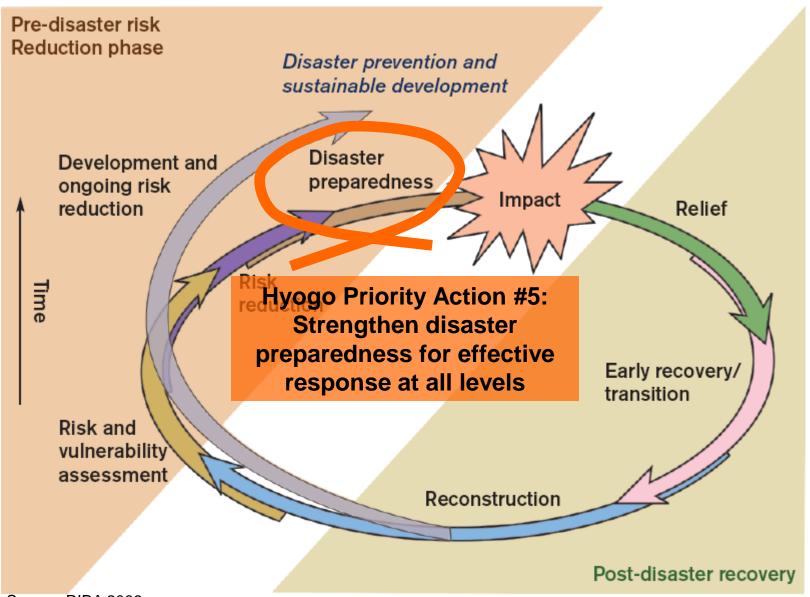








Don't forget disaster preparedness



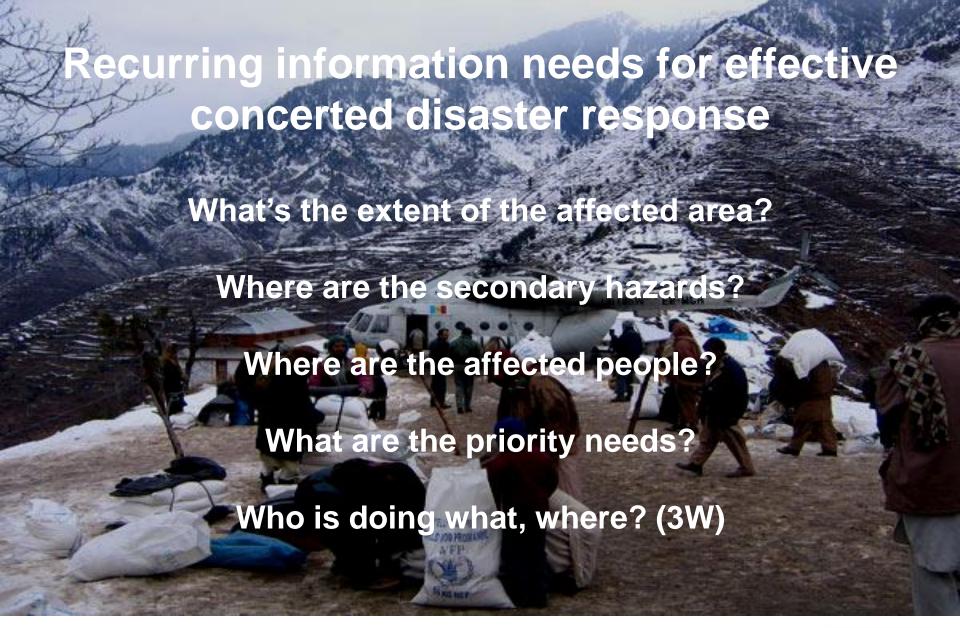
Source: RIBA 2009

Assertions...and a question



- Disaster preparedness still vital within the DRR cycle
- (Spatial) information readiness is essential for effective concerted response at all levels
- But: institutional complexities make this hard to deliver
- Question: could info readiness be better integrated into other DRR programmes?







What are the minimum data we need to be ready for a disaster event?

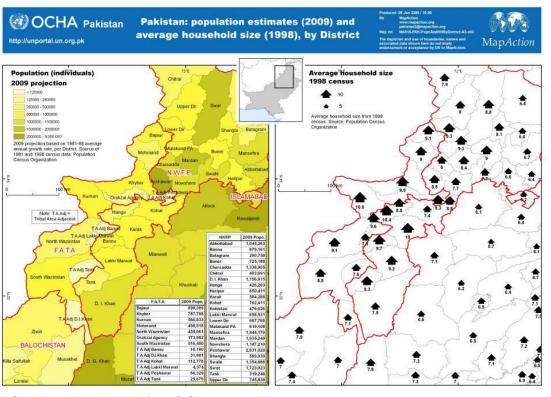


 Physical geography (base maps, archived images, GIS data layers)

Source: OpenStreetMap



What are the minimum data we need to be ready for a disaster event?

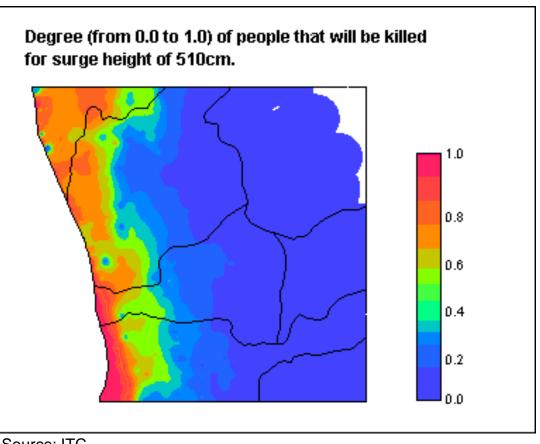


- Physical geography (base maps, archived images, GIS data layers)
- Population baselines

Source: MapAction/UNOCHA



What are the minimum data we need to be ready for a disaster event?



- Physical geography (base maps, archived images, GIS data layers)
- **Population baselines**
- Assessed vulnerabilities

Source: ITC



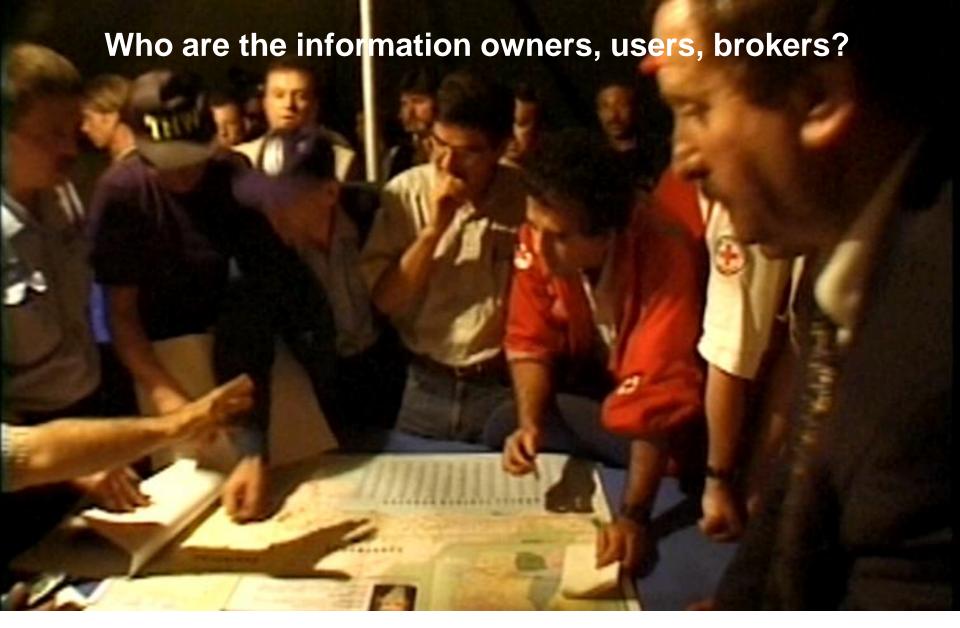
What are the minimum data we need to be ready for a disaster event?



- Physical geography (base maps, archived images, GIS data layers)
- Population baselines
- Assessed vulnerabilities
- Administrative geography

Source: MapAction







Who are the information owners, users, brokers? (an incomplete picture)

INTERNATIONAL RESPONDERS

Bilateral donors (disaster relief)
International agencies
International Red Cross movement
INGOs (disaster relief)
International SAR teams
Satellite/RS platforms

Humanitarian Clusters x9

NATIONAL GOVERNMENT

Military and civil defence
National government ministries
Info agencies (NMA, NSO)
Public utilities
NDMA
LEMA
District and provincial government

IN-SITU NON-GOVERNMENTAL

International funders (dev & DRR)
Regional institutions
National academic institutions
INGOs (development & DRR progs)
Businesses
National Red Cross society
Local and national NGOs

Vulnerable/affected communities

Recurring challenges

- Absence of prescribed data assets in preparedness plans
- Vulnerability data, when available, is fragmentary and/or not linked to baseline data sets
- Problems of data discovery and sharing between diversity of actors 'on the day'
- Remote sensing: overemphasis on technical virtuosity





Recent example (1): Philippines

- Maps as tools for situational information exchange
- Defence ministry had (initially) sole access to critical data
- 'Crowd sourced' street map data: 'best on the day'
- Google versus institutional mechanisms
- National mapping agency: partnerships, but no rehearsed procedures



Picture: ECHO/Maria Olsen



Recent example (2): Sumatra EQ



Picture: Reuters Alertnet

- Large demand for mapped information from all actors
- Google to the rescue (again)
- Administrative geography: good work by UNOCHA but still problems with baseline data sets
- Inconsistent procedures for collecting/collating damage data
- Humanitarian clusters lacked IM readiness



Some initiatives

- Minimum country data sets (IASC/OCHA)
- Standardisation programmes (eg UNGIWG)
- Open-source projects
- But...most DRR projects remain disconnected, and don't address institutional information linkages





Tentative conclusions

- Data readiness is a simple concept but hard to implement
- Institutional/system barriers
- Problems of data standards (but 'planet Earth' is a good framework)
- Can data preparedness be linked to other domains in DRR?









nwoof@mapaction.org

