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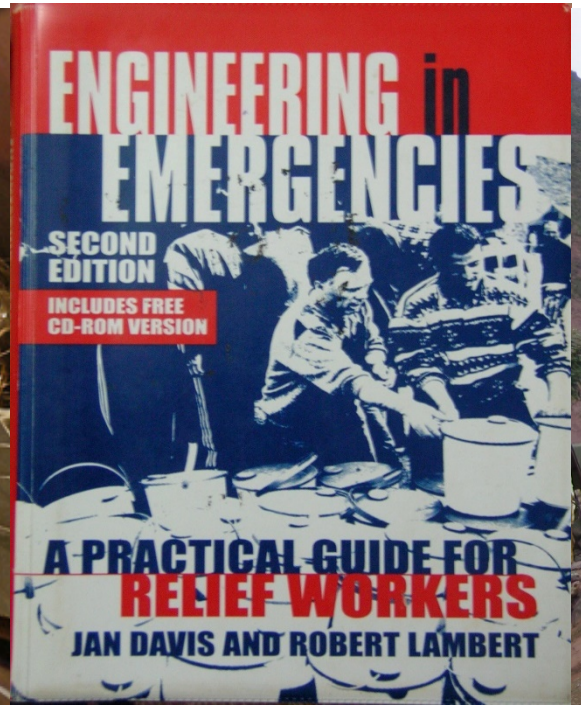
Disasters, Emergencies and Our Work



What is a Hazard? What is a Disaster?

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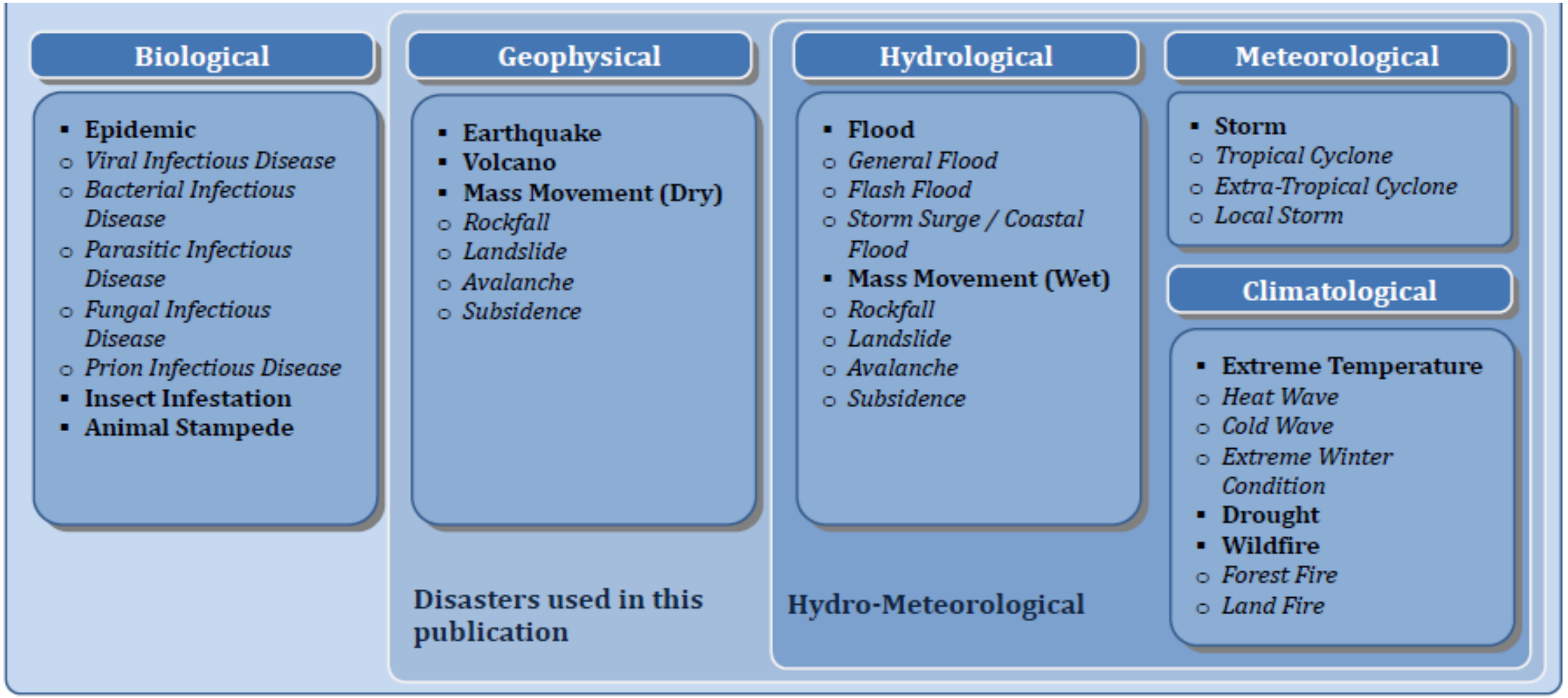
- A hazard is a physical or human-made event that can potentially trigger a disaster.
- Disaster is a serious disruption of the functioning of society causing widespread human, material, economic or environmental losses
- A hazard becomes a disaster only when it affects human settlements and causes loss of life and damage to property.

Types of Disasters



An Emergency Situation…

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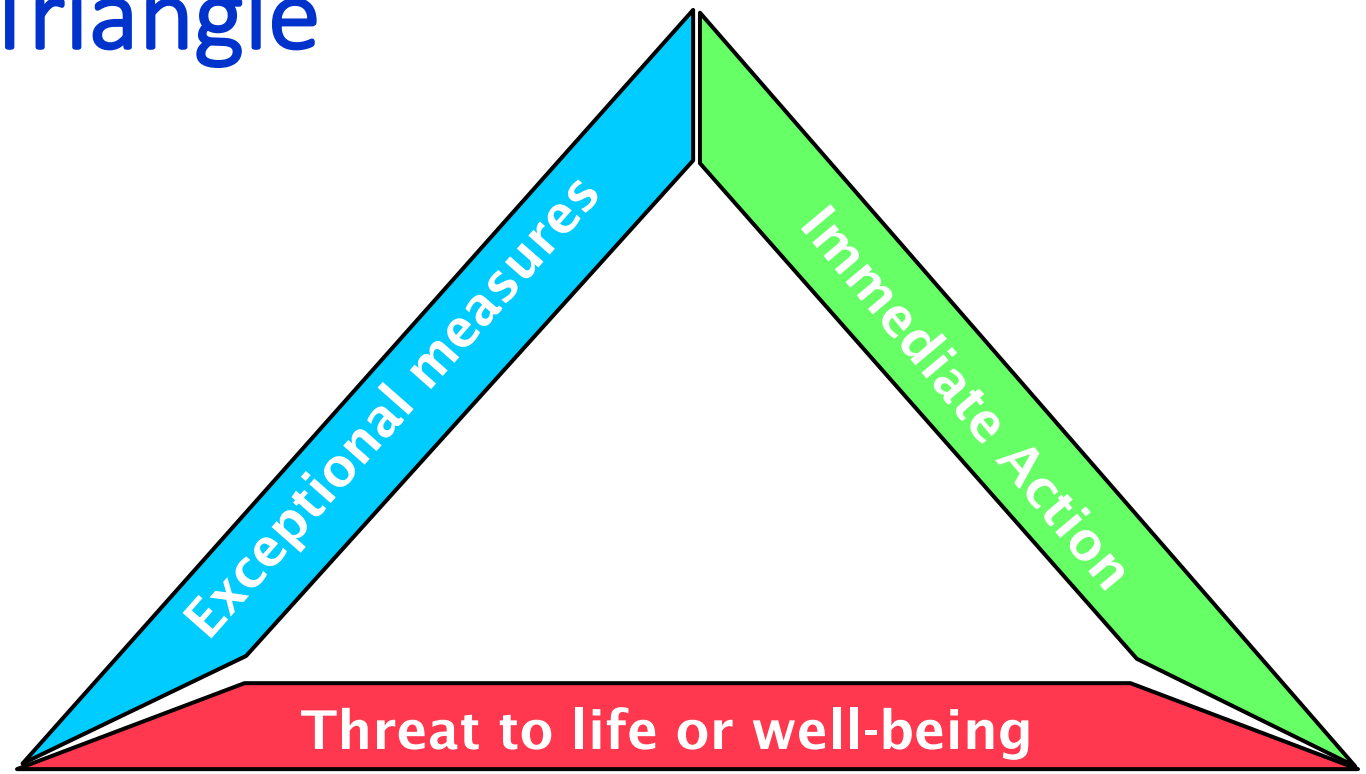
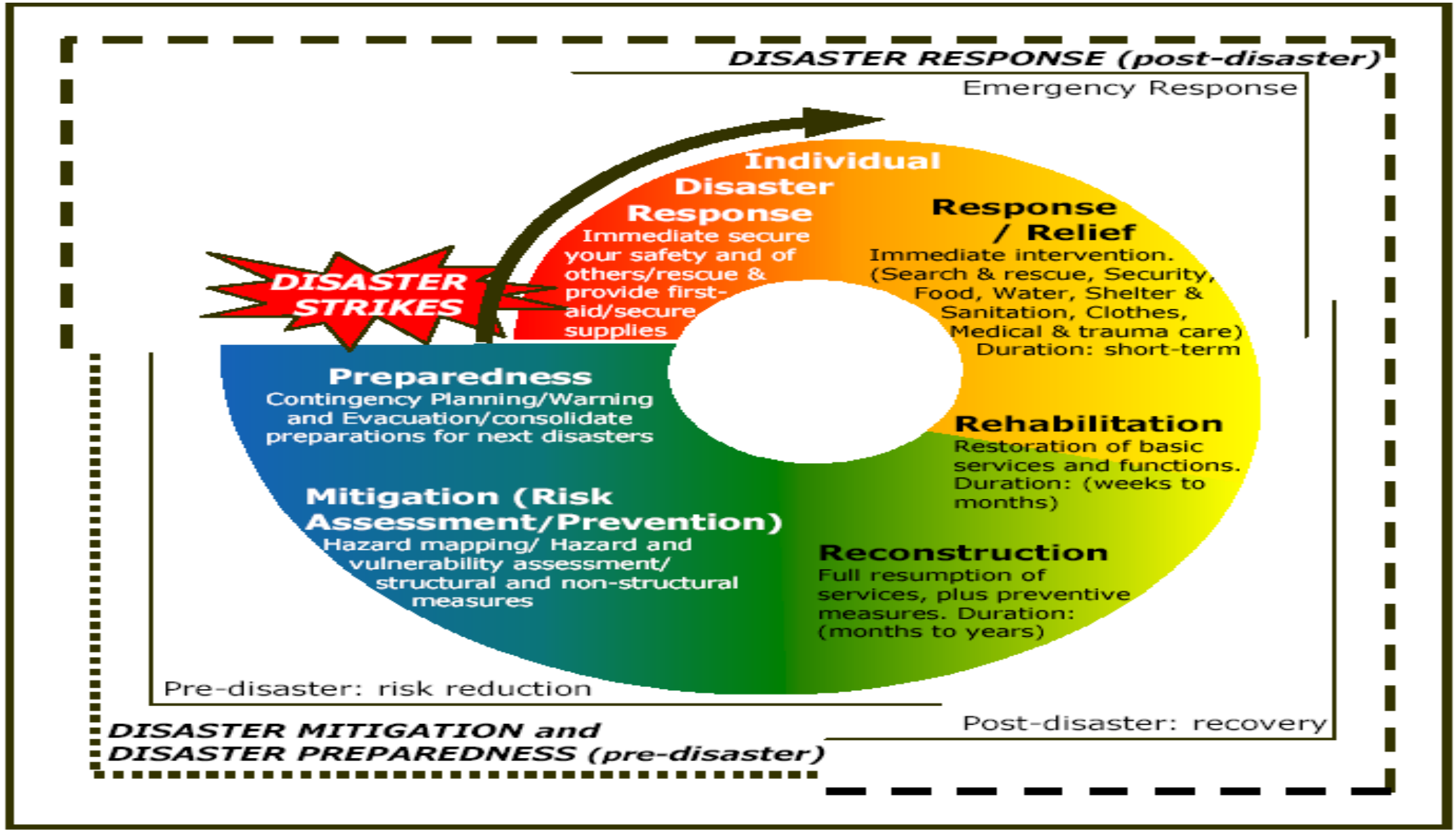
Follows from a disaster, and

- Puts large no. of lives at risk
- Demands immediate action
- Calls for exceptional measures

Emergency Triangle



A humanitarian emergency is a serious situation or event that demands ***immediate action*** and ***exceptional measures*** to protect the ***lives of a large number of people***.


DISASTER RESPONSE (post-disaster)
Emergency Response
Individual Disaster Response
Immediate secure your safety and of others/rescue & provide first-aid/secure supplies
DISASTER STRIKES
Response / Relief
Immediate intervention. (Search & rescue, Security, Food, Water, Shelter & Sanitation, Clothes, Medical & trauma care) Duration: short-term
Rehabilitation
Restoration of basic services and functions. Duration: (weeks to months)
Reconstruction
Full resumption of services, plus preventive measures. Duration: (months to years)
Preparedness
Contingency Planning/Warning and Evacuation/consolidate preparations for next disasters
Mitigation (Risk Assessment/Prevention)
Hazard mapping/ Hazard and vulnerability assessment/ structural and non-structural measures
Pre-disaster: risk reduction
Post-disaster: recovery
DISASTER MITIGATION and DISASTER PREPAREDNESS (pre-disaster)

Disasters- Global Trends

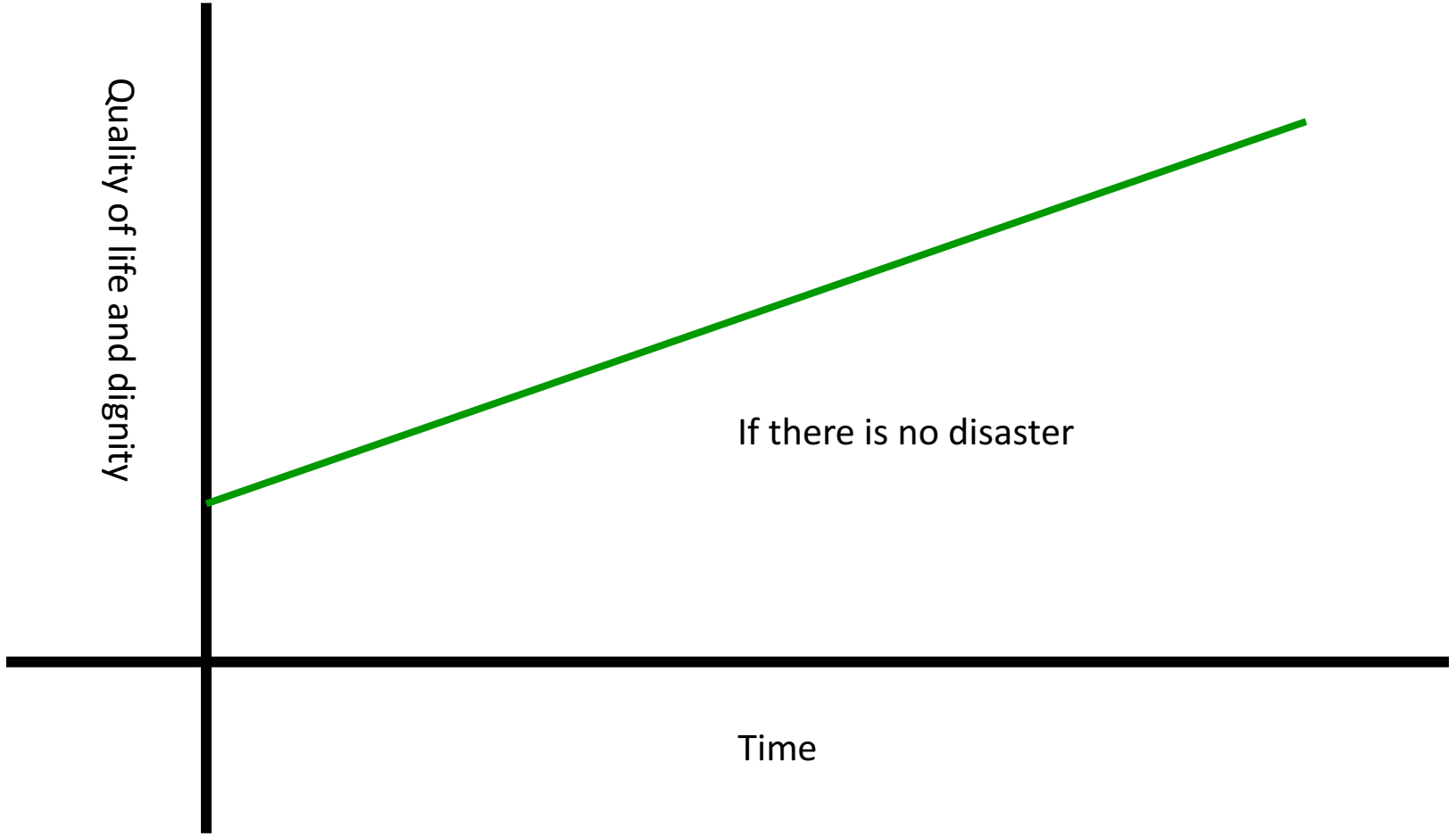
Disaster are increasing, globally, in terms of:

- Number
- Intensity
- Distribution
- Frequency

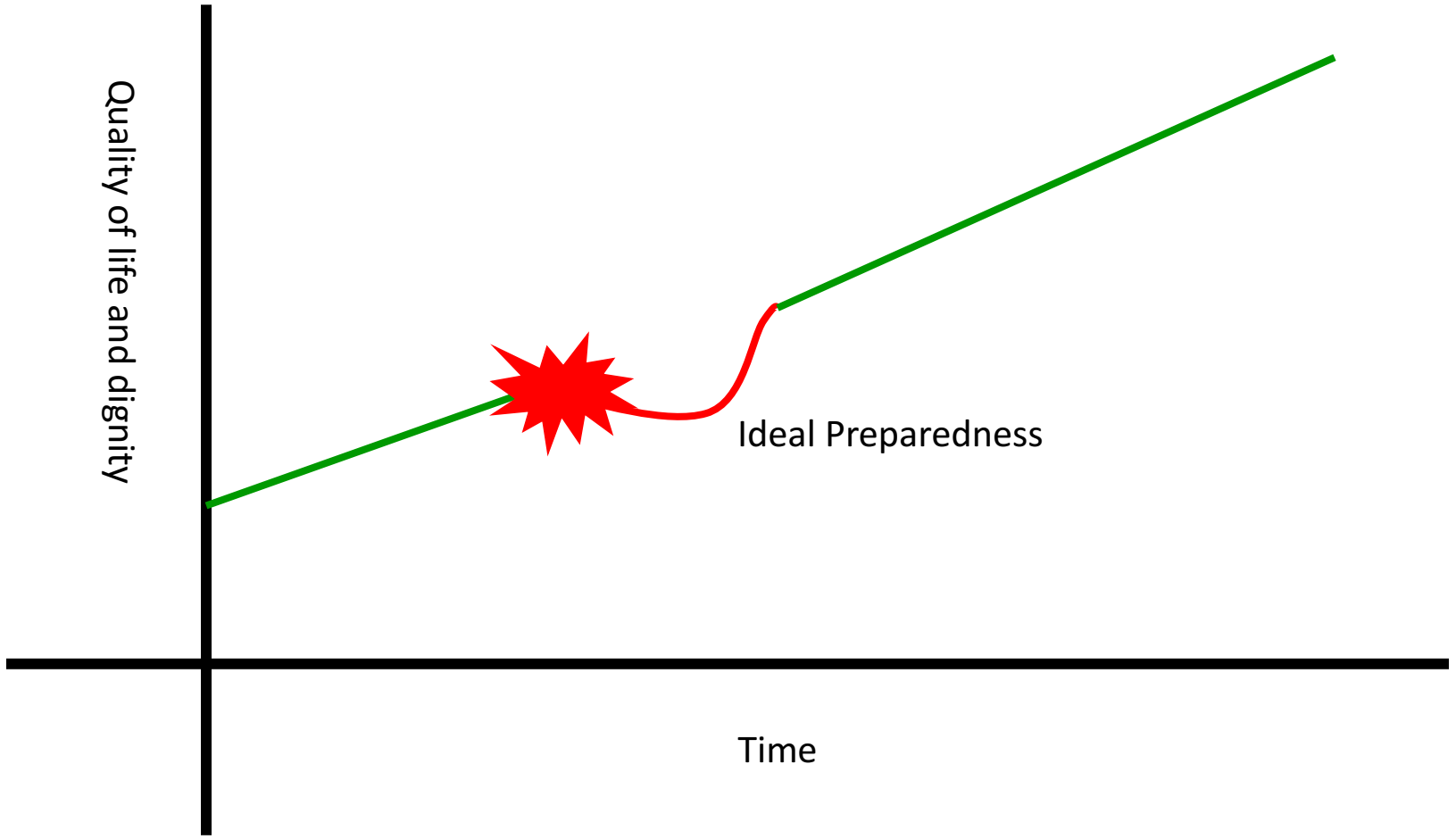
✓Over a period of time, the impact of disasters have increased significantly.

✓Climate change induced disasters are also on the rising trend!

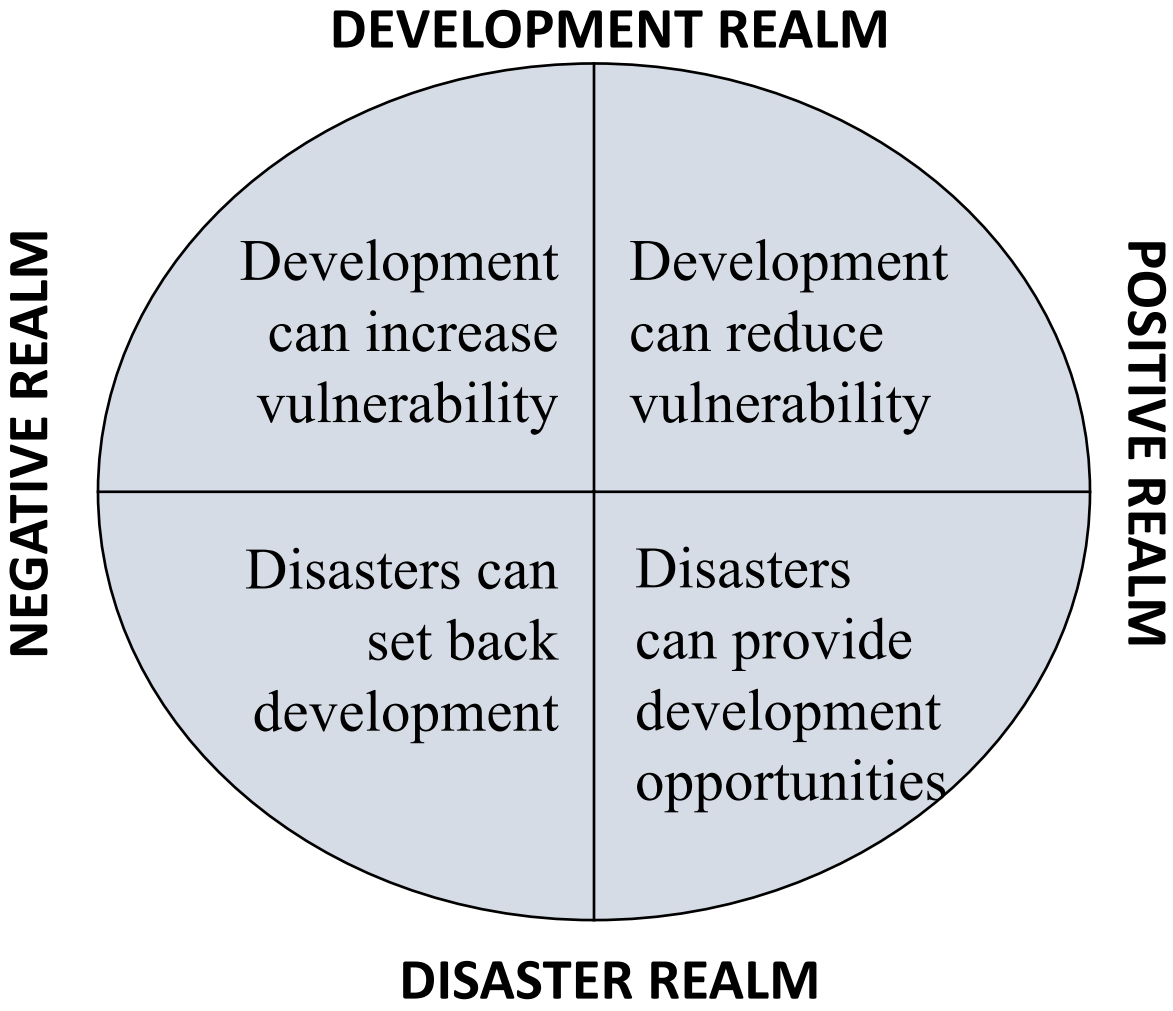
Let us look at what happens to the hard won development due to disaster




Quality of life and dignity
Time
Who is most vulnerable?


Quality of life and dignity
Ideal Preparedness
Time

Disasters and Development



Global Trends (risk)- Disasters are NOT natural

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Disasters are socio-natural events.

Socio-economic: poverty, unplanned urban growth, lack of awareness and institutional capacities...

Physical: insufficient land use planning, housing, infrastructure located in hazard prone areas...

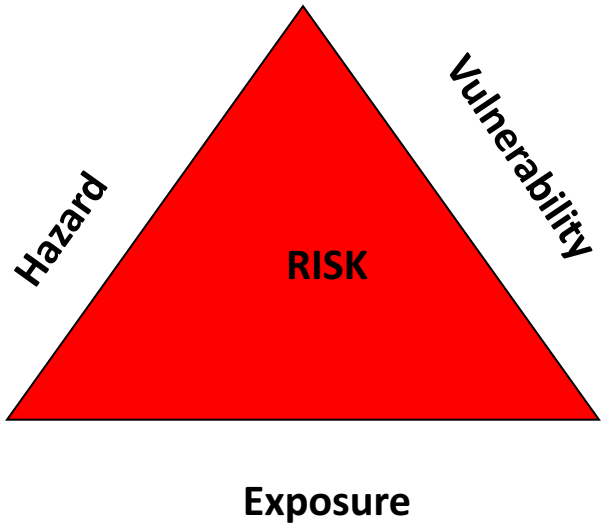
Environmental degradation: ecosystem degradation; coastal, watershed, marshland…), etc.

Anatomy of "natural" disasters

Natural hazard X Vulnerability / Capacity = Disaster Risk

Issue of Exposure

The Risk Triangle:

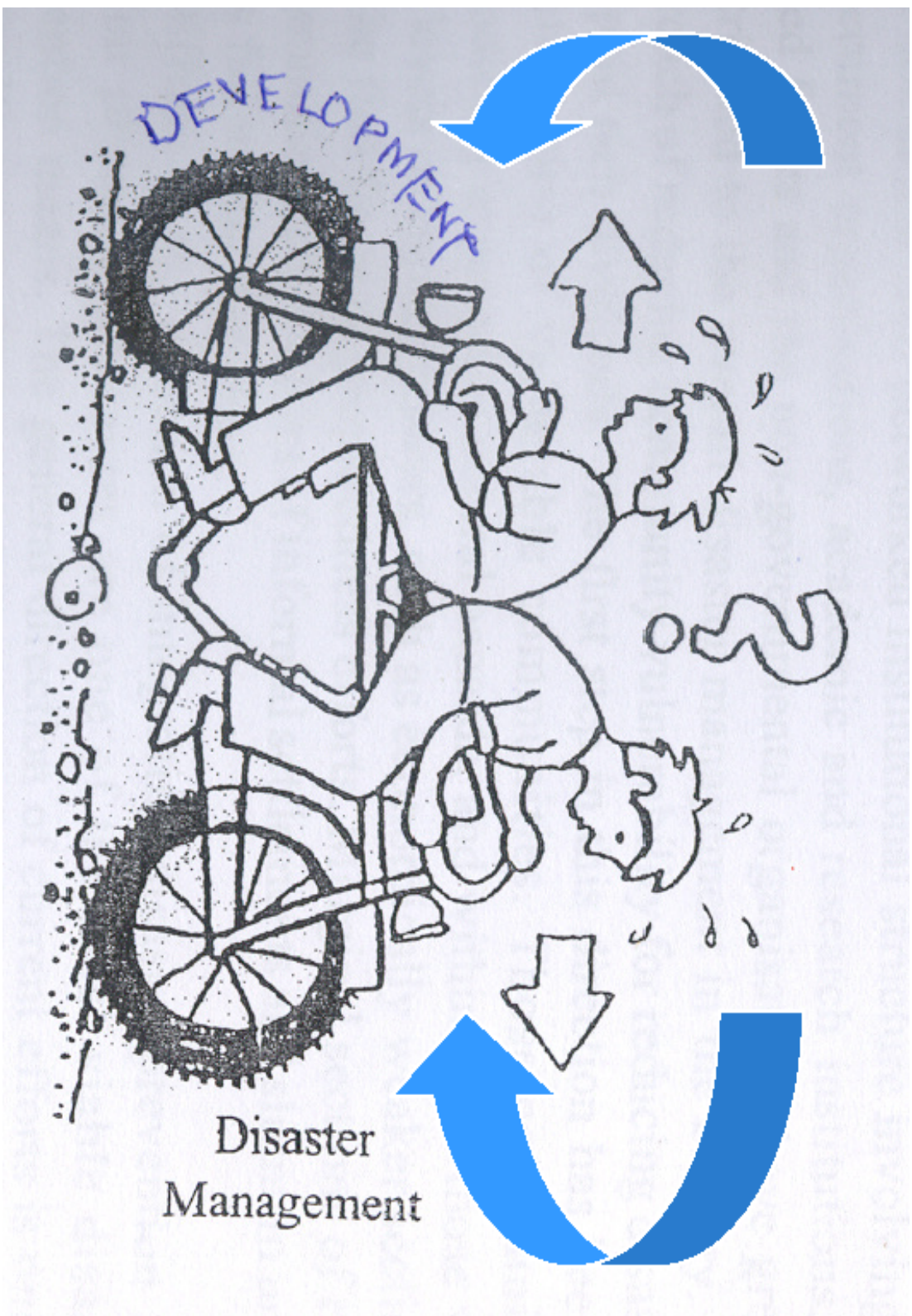


Risk is a combination of the interaction of hazard, exposure, and vulnerability, which can be represented by the three sides of a triangle.

If any one of these sides increases, the area of the triangle increases, hence the amount of risk also increases.

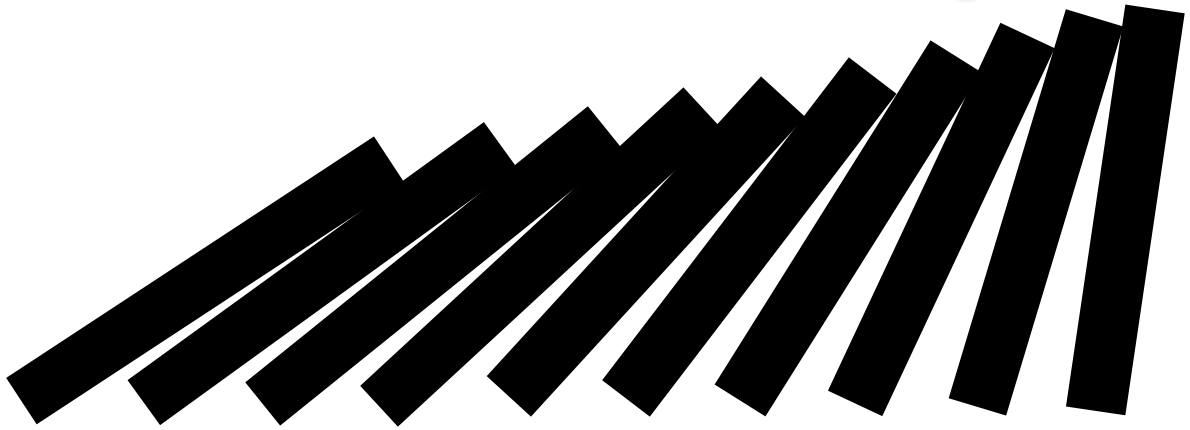
If any one of the sides reduces, the risk reduces.

If we can eliminate one side there is no risk.

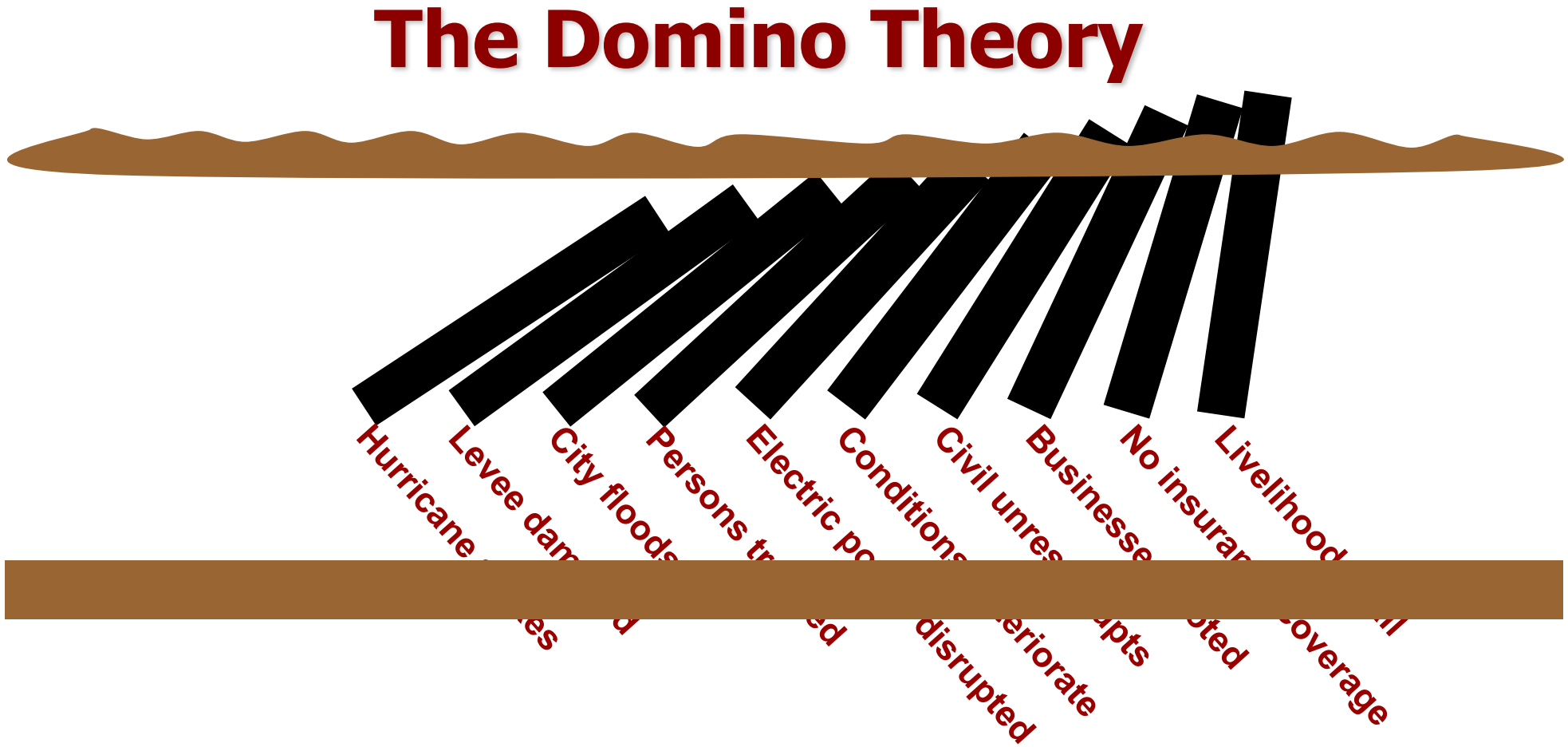


Consequences of emergency can be far reaching

The Domino Theory



The “Worst Case” scenario



Coordination at all the levels

Community participation in vulnerability reduction

Development

Disaster Management

RIDPS Alwar

Risk Informed Development Planning System

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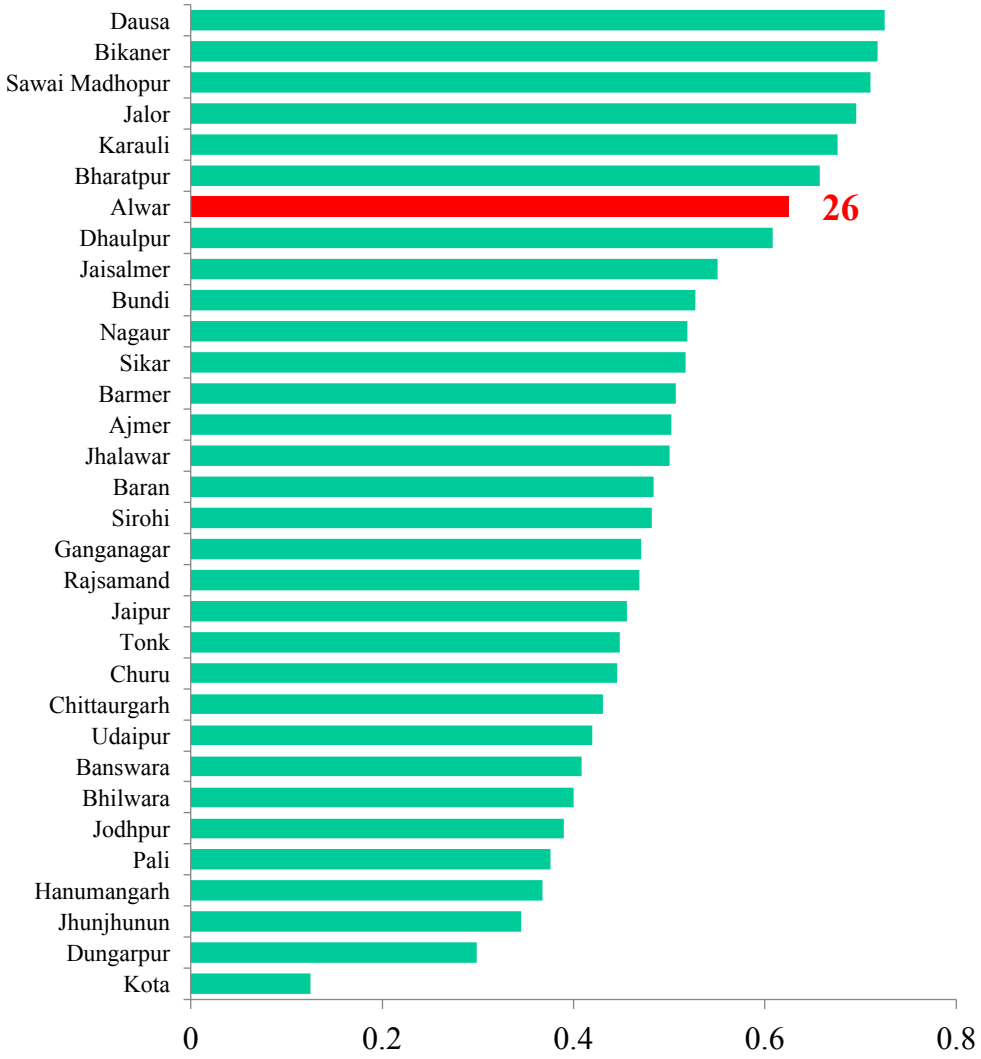
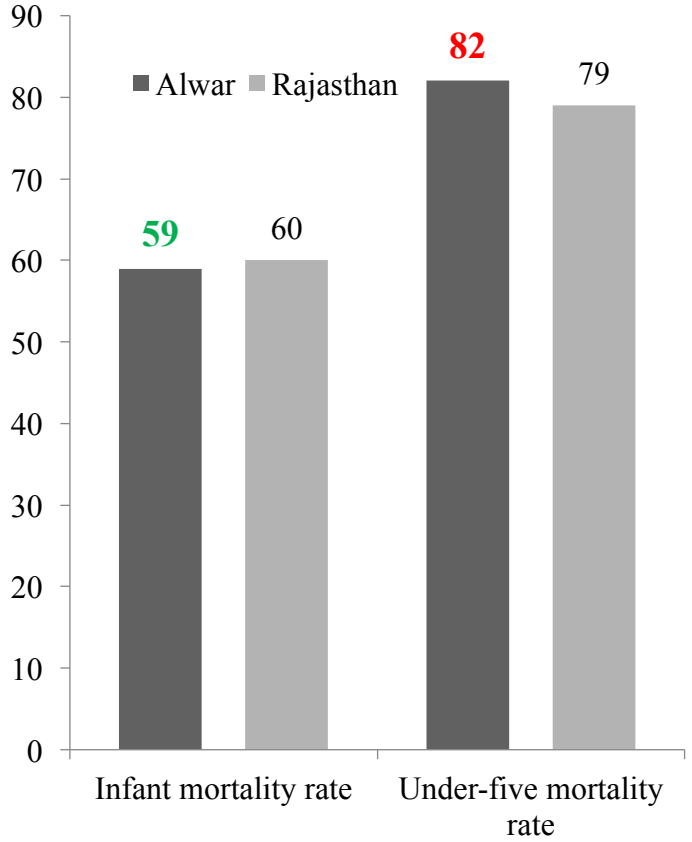
Ranking of District based on Health Index



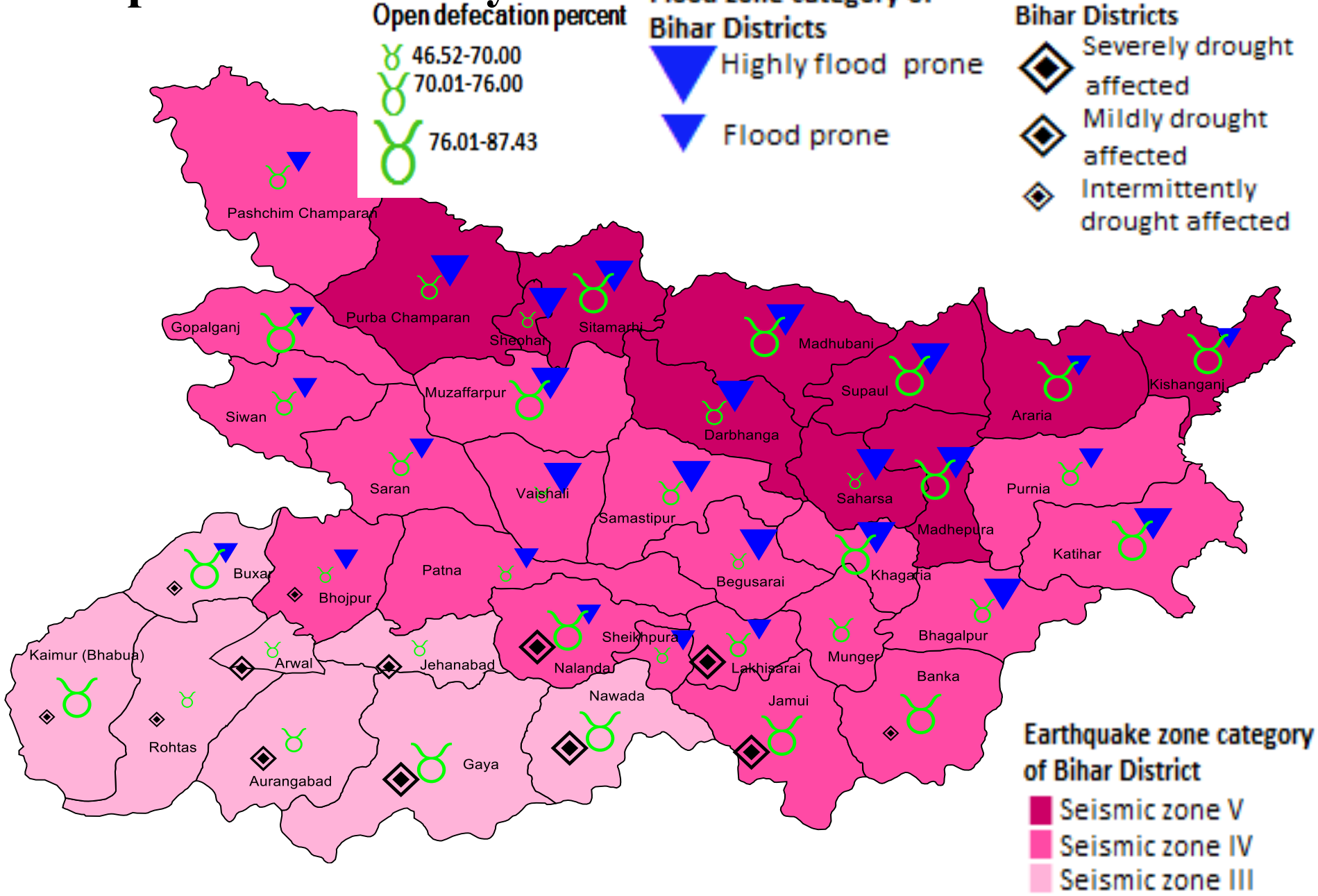
Infant mortality rate & Under five Mortality rate



May be there is a relationship?

But…..

Outputs of risk analysis



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Child population and sectoral performance

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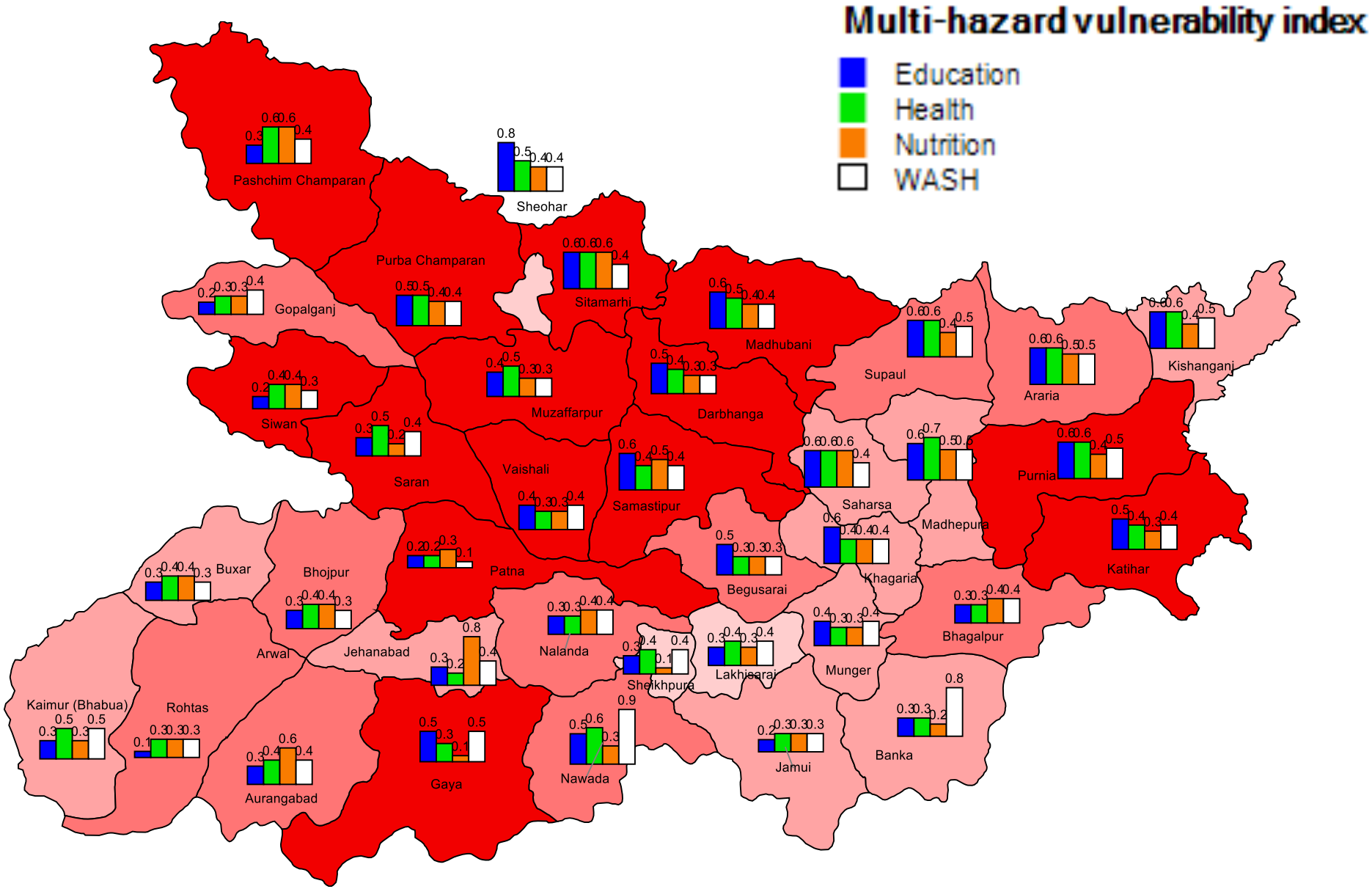

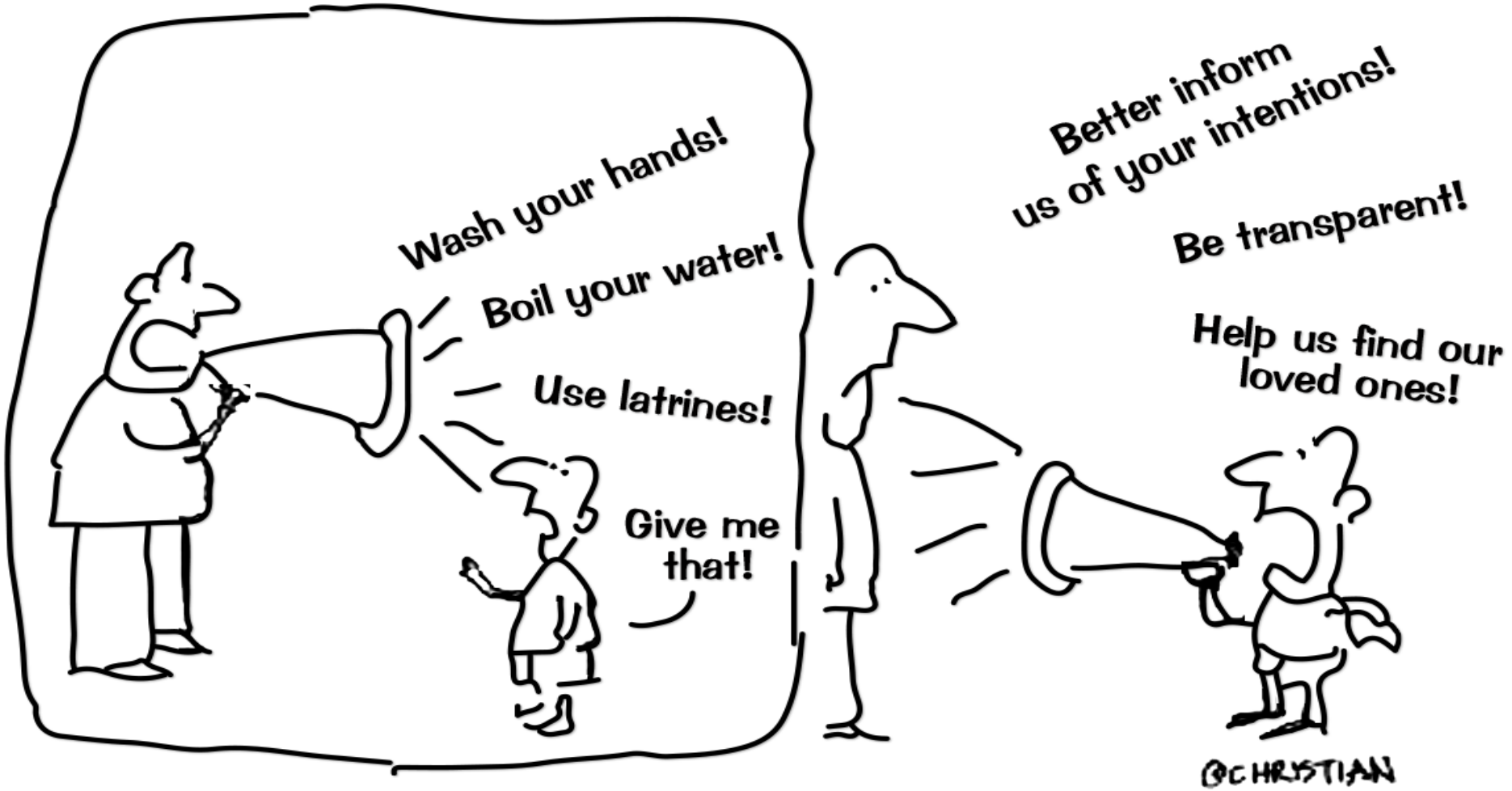
Wash your hands!
Boil your water!
Use latrines!
Give me that!
Better inform us of your intentions!
Be transparent!
Help us find our loved ones!
@CHRISTIAN

Trade-off between Speed and Accuracy…

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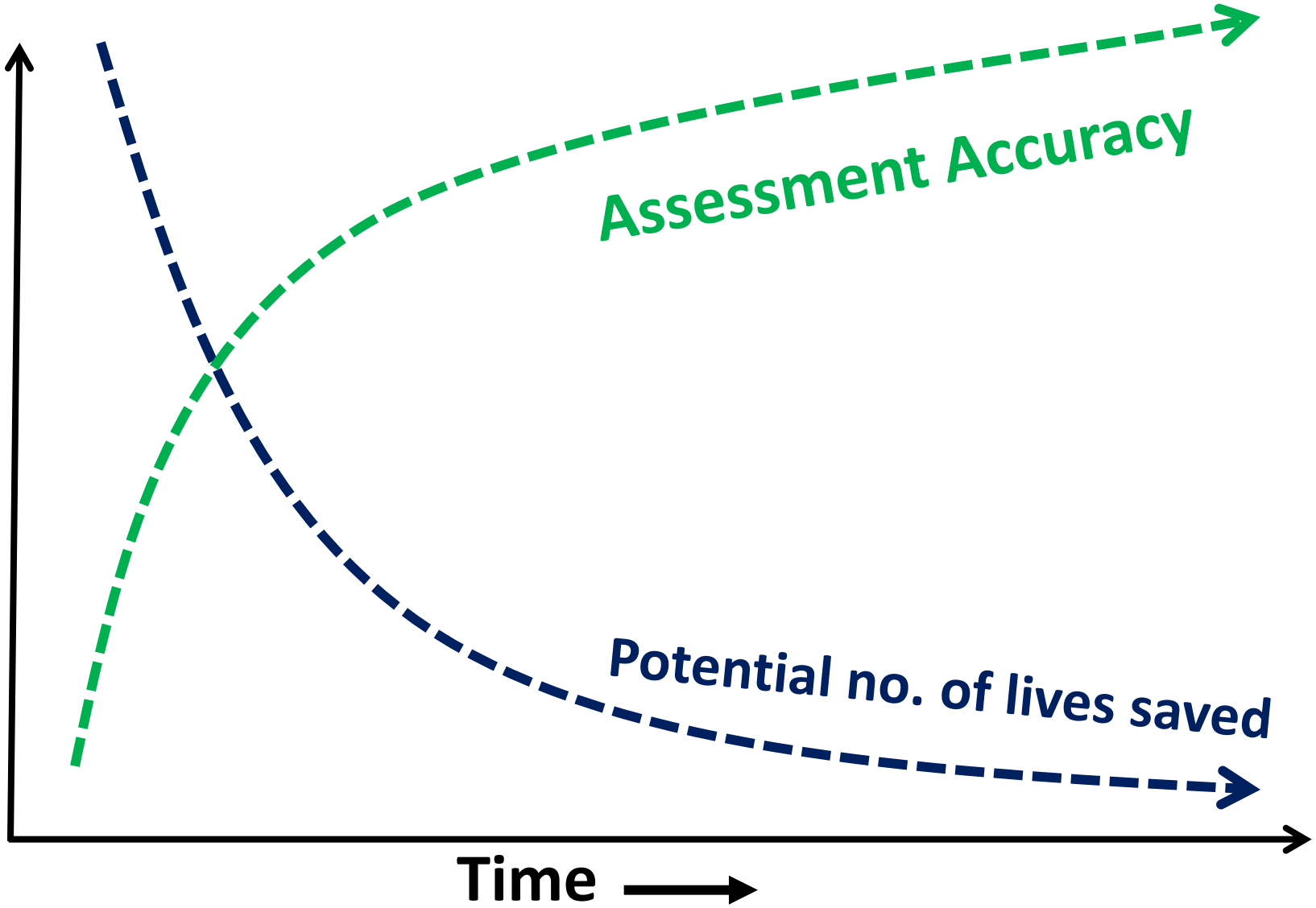

How much information do you need?

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Assessments should…

- Provide a comprehensive picture of the scope of emergency rather than a blinkered sector specific detail…
- ***"Half details of the whole picture is better than full details of half the picture.."***
- Agencies need good information to act on **as soon as possible**

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Thank You!