



WORLD BANK GROUP
Social Protection & Labor



RAPID SOCIAL RESPONSE

Social Safety Nets Adaptive to Natural Disasters

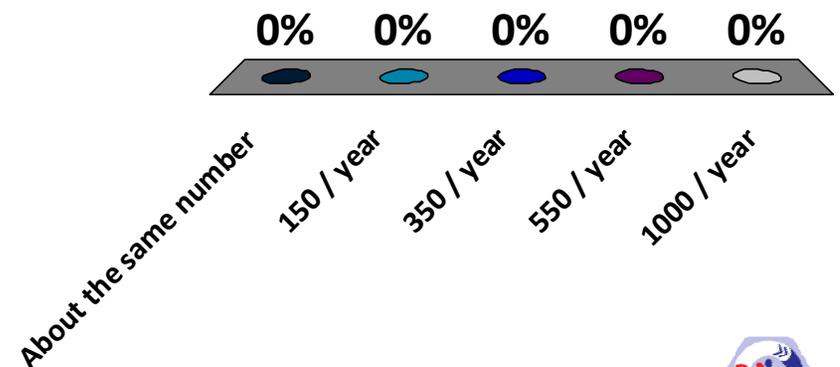
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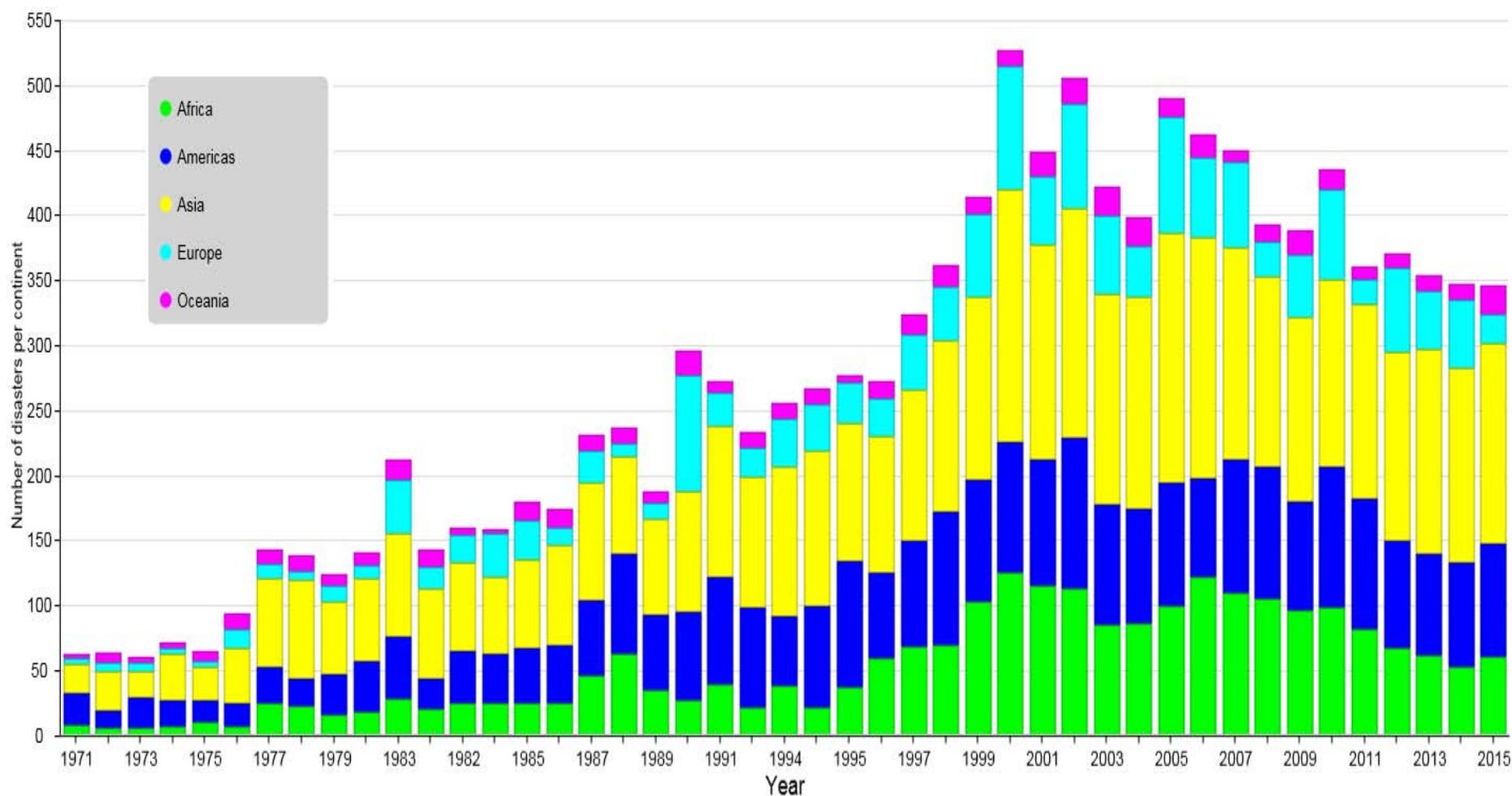
In the early 1970s, about 60-90 natural disasters were reported each year.
How about the last 5 years?



- A. About the same number
- B. 150 / year
- C. 350 / year
- D. 550 / year
- E. 1000 / year



Natural disasters are more frequent

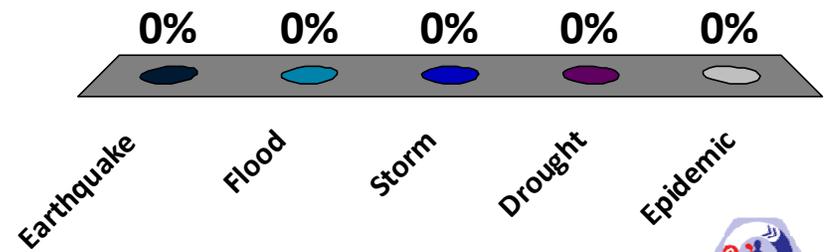


EM-DAT: The OFDA/CRED International Disaster Database – www.emdat.be

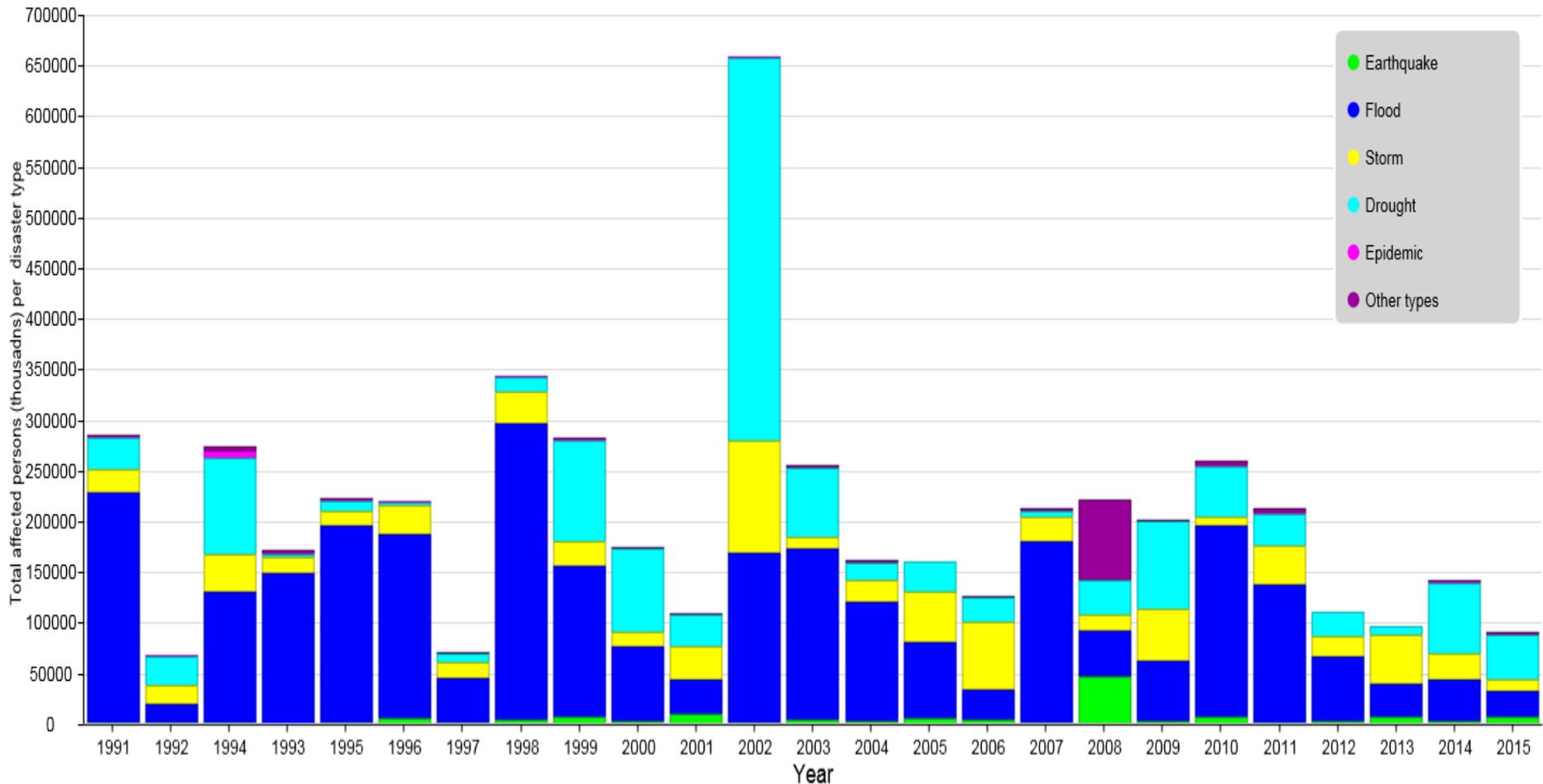


What type of natural disasters affect the largest number of people?

- A. Earthquake
- B. Flood
- C. Storm
- D. Drought
- E. Epidemic



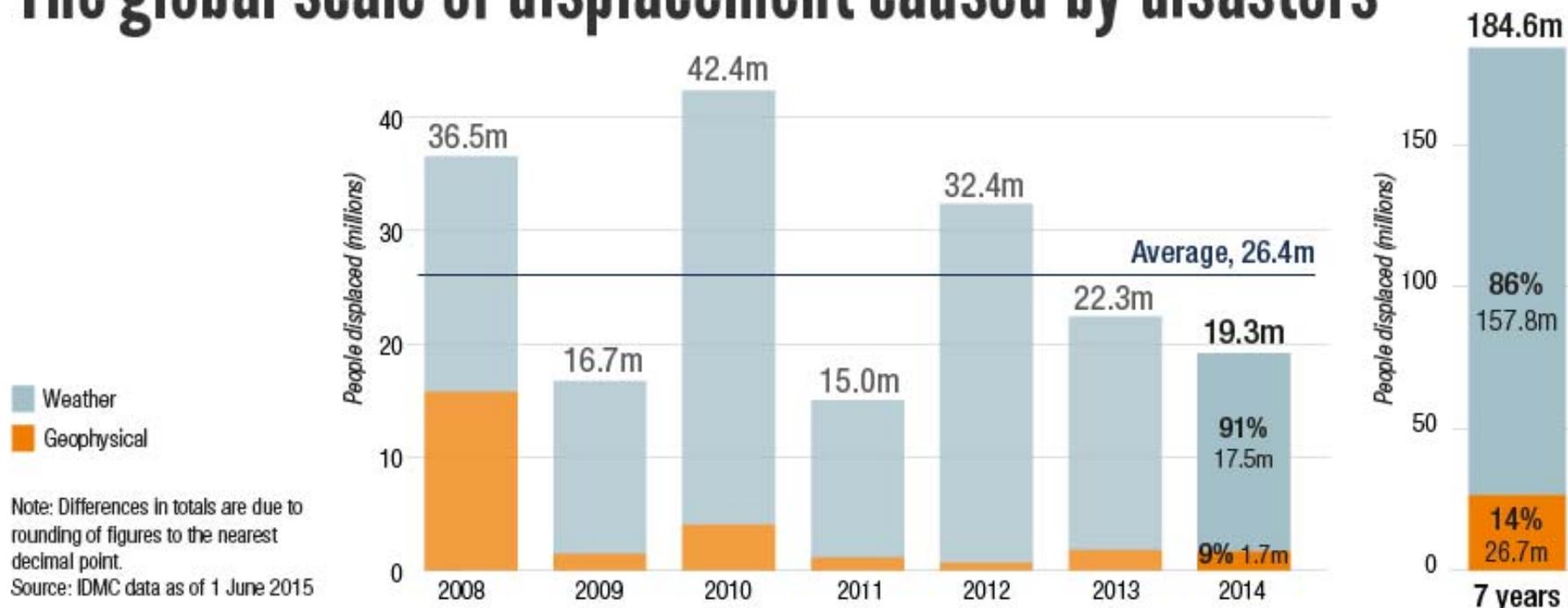
Affects 100s of millions of people



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Including those who get displaced

The global scale of displacement caused by disasters



Natural Disaster

- A co-variate shock by a force of nature
- Seriously disrupts the functioning of a community or a society
- Widespread human, material and environmental damages and losses, often beyond the coping ability of the affected community or society



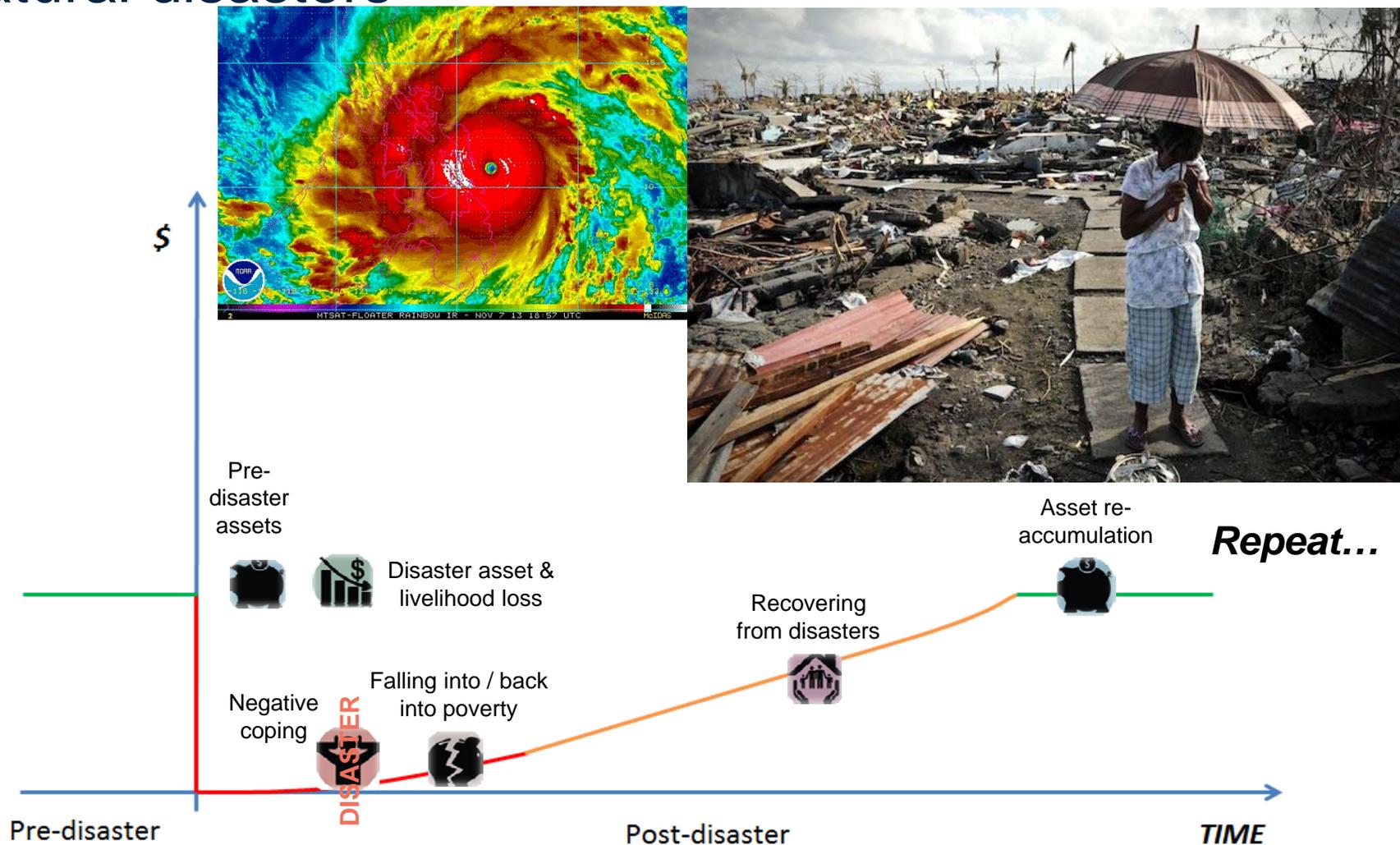
Slow Onset

- Drought
 - Desertification
 - Sea level rise
 - Erosion
 - Water salination
-
- Often predictable—more time to react
 - Voluntary and involuntary movements

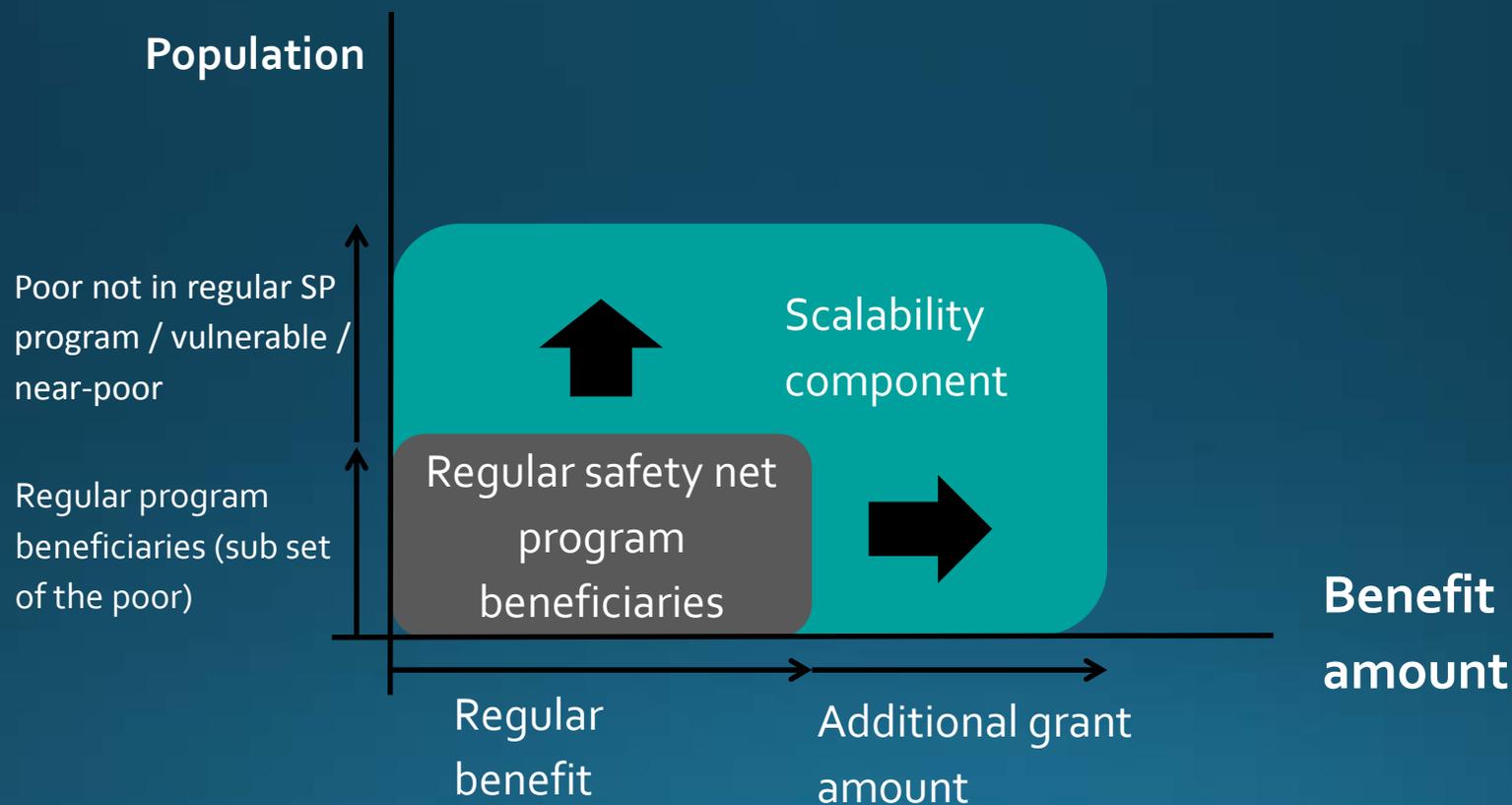
Fast Onset

- Cyclones, Typhoons, Hurricanes
 - Storm surge
 - Flash flooding
 - Earthquakes
 - Volcanic eruptions
-
- Often unpredictable—less time to react
 - Involuntary movements

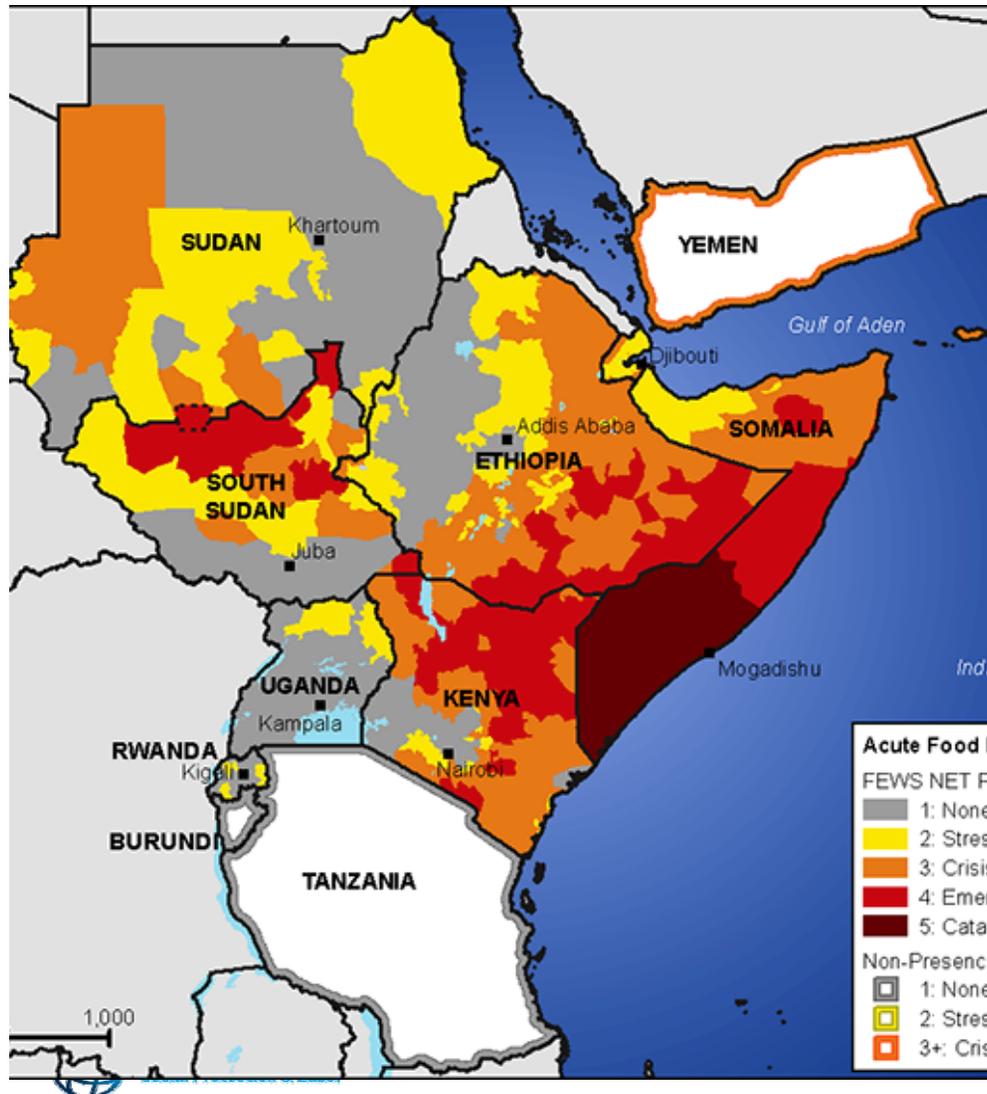
The cycle of poverty and vulnerability resulting from natural disasters



Adaptive safety nets enable us to manage variety of shocks



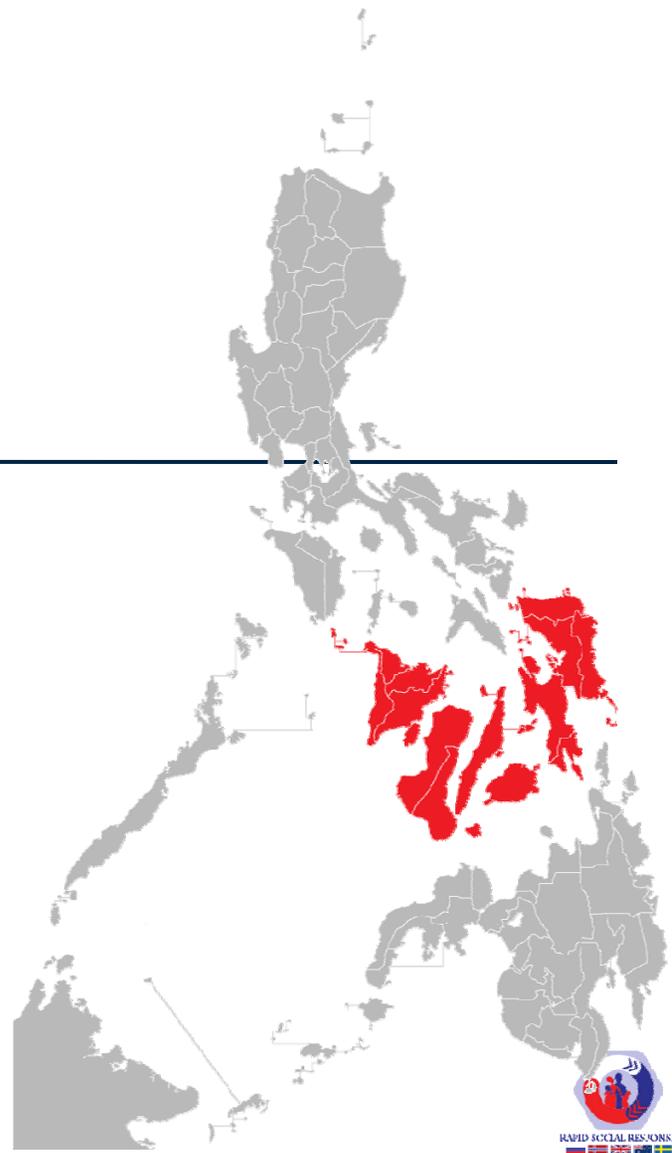
Responding to severe droughts in East Africa, 2011



- Chronic and acute food shortages
- Ethiopia the only country not to increase poverty in the region
- **PSNP:**
 - Using EWS, expanded its coverage from 6.5 million to 9.6 million in 2 months
 - Extended the duration of benefit period from 6 months/yr to 9 months/yr
 - Households resilient to effects
 - Livelihoods assets protected

The Philippines Emergency Cash Transfer: Super-Typhoon Yolanda, 2013

- Affected almost 1.5 million families, or 7.1 million persons, across seven different regions
-
- 6,400 dead, over 1,000 still missing, 4,374,649 displaced
 - 421,863 Pantawid CCT household beneficiaries in 171 municipalities affected

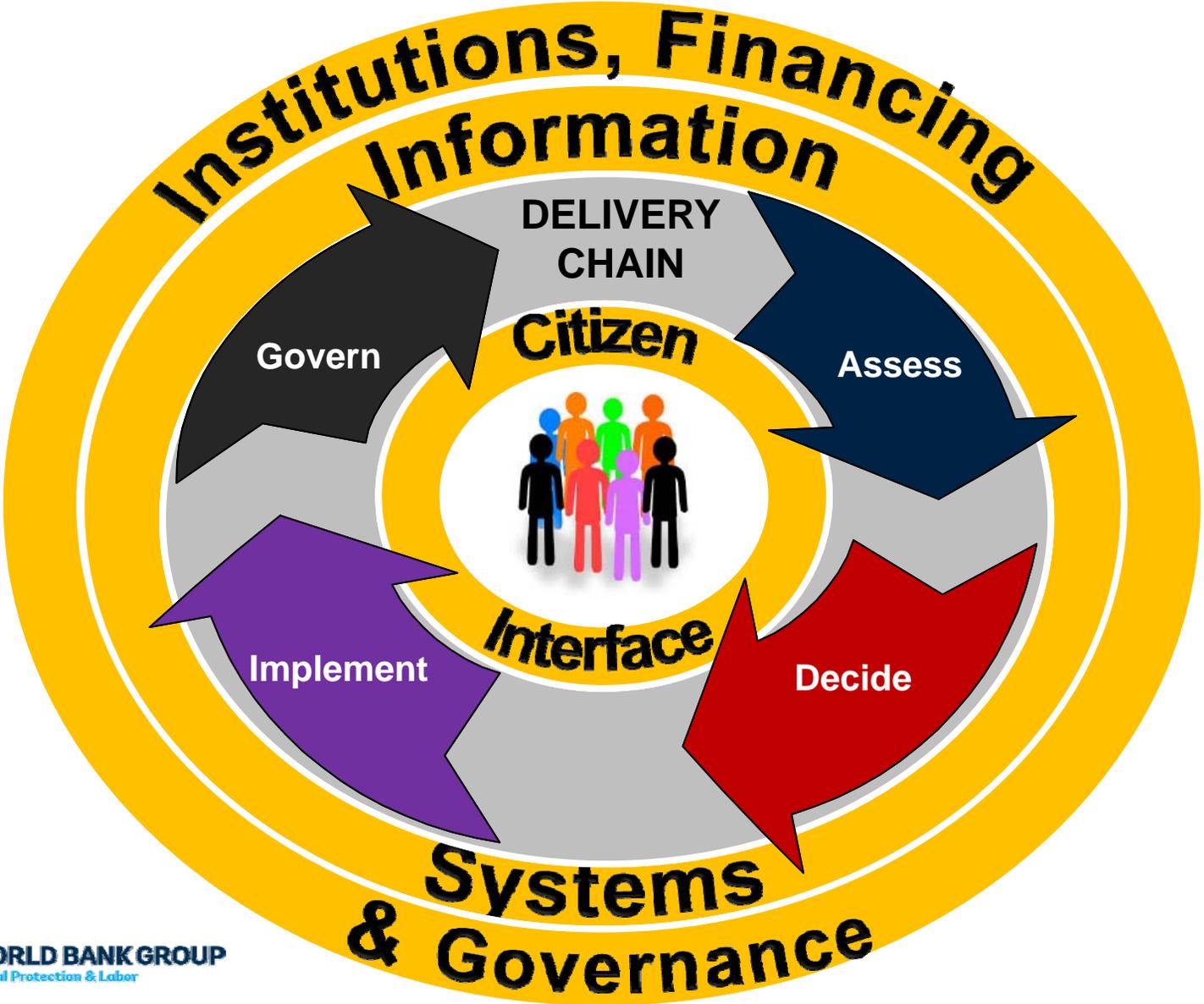


The Philippines Emergency Cash Transfer

- Compliance to requirements / conditionalities of 4Ps CCT waived and beneficiaries are treated as compliant in “state of Calamity”
- Development Partners used the 4Ps SP system to deliver “top-up” grants to affected 4Ps beneficiaries – the “poorest of the poor”
 - World Food Programme Cash Assistance Program
 - 102,000 HHs
 - c. \$US 17 million (Php 742,575,952)
 - Emergency Unconditional Cash Transfer (UNICEF)
 - 5,801 HHs
 - c. \$US 4 million (Php 173,981,584)



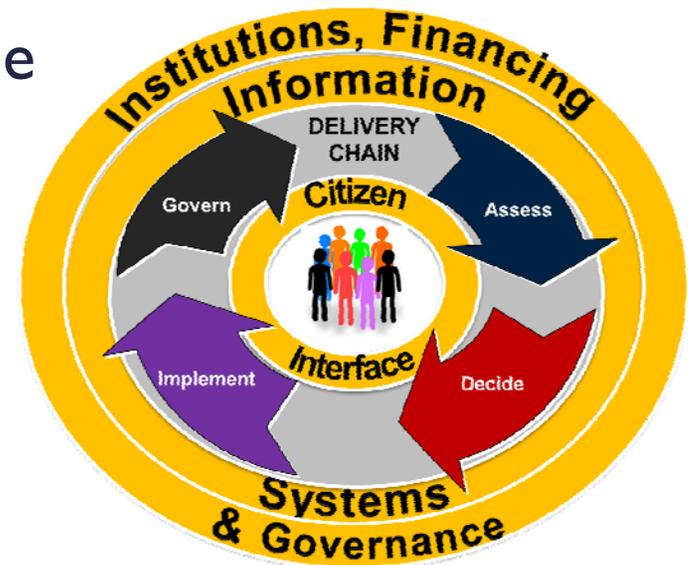
Remember Kathy's Delivery System?



CLICKER QUESTION



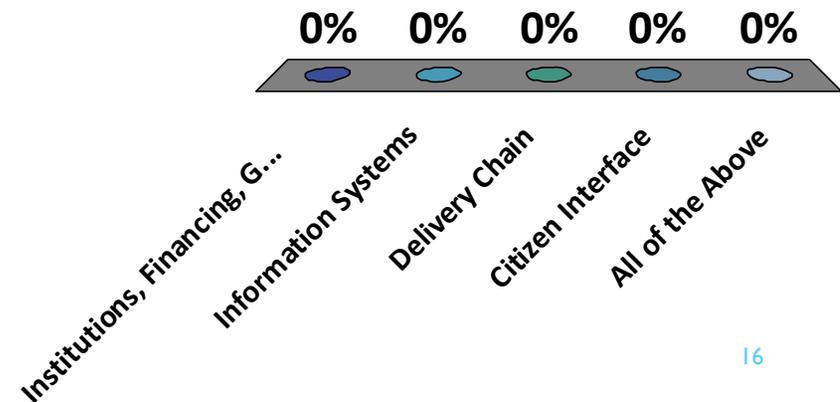
- For an **SSN** to be adaptive to natural disasters, which of Kathy's four core systems plays the most important role?
- Your Answers:
 - A. Institutions, Financing, Governance
 - B. Information Systems
 - C. Delivery Chain
 - D. Citizen Interface
 - E. All of the Above



FOR AN SSN TO BE ADAPTIVE TO NATURAL DISASTERS, WHICH OF KATHY'S FOUR CORE SYSTEMS PLAYS THE MOST IMPORTANT ROLE?



- A. Institutions, Financing, Governance
- B. Information Systems
- C. Delivery Chain
- D. Citizen Interface
- E. All of the Above



Natural Disasters Stress Already-Stressed Clients

- Form of benefits may need to change
- Targeting methods may require adjustments
- Clients may lose IDs, ATM cards, etc.
- Many HH may permanently lose income earners due to death and disabling injuries
- Negative health impact (both physical and mental), particularly on the elderly and young children
- Loss/damage to productive assets, e.g. farmland, livestock
- Loss of work place and markets
- Restricted mobility due to damages to transport systems

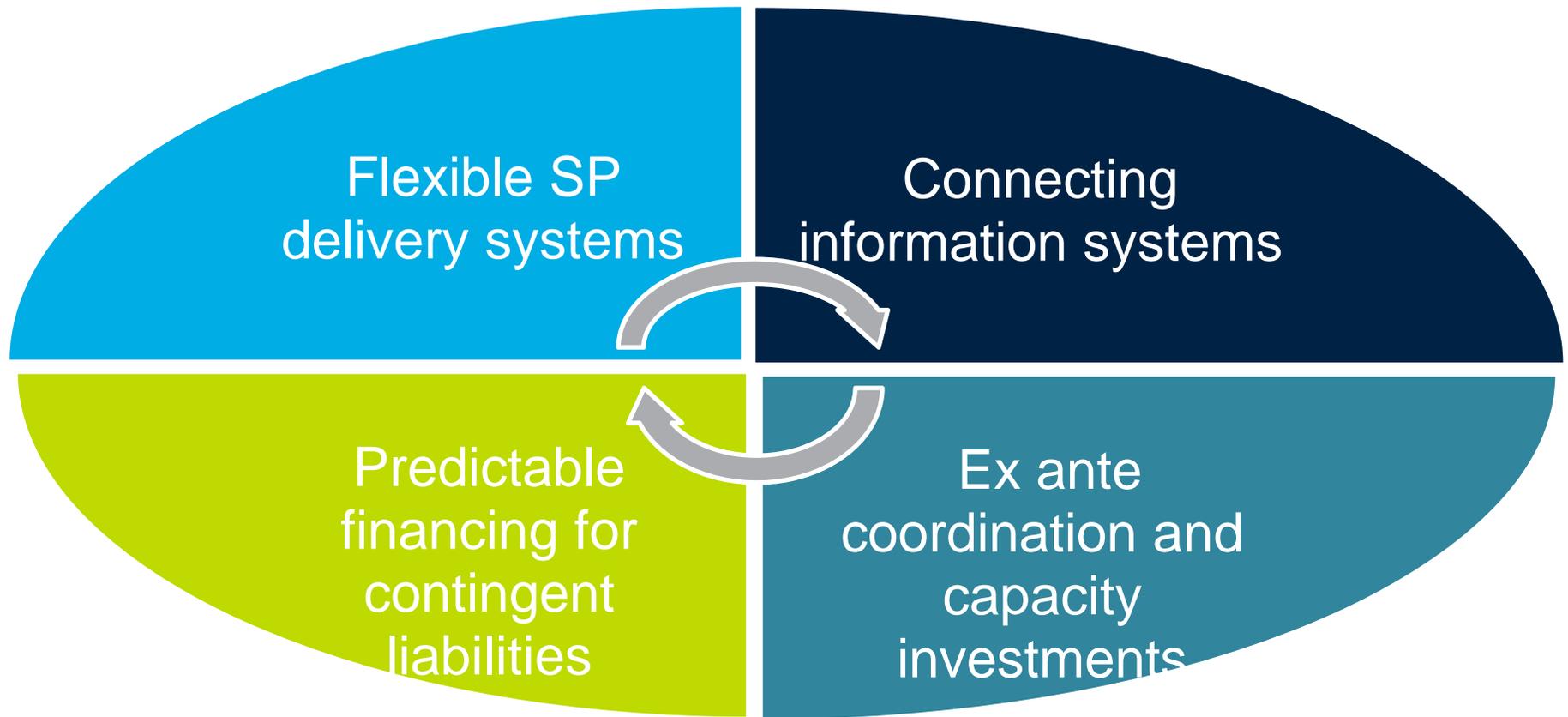


Natural Disasters Stress SSN System, too



- Program/government personnel may sustain death or serious injury
- Office buildings, ICT equipment and infrastructure, registry databases, etc. may become inoperable.
- Damage to energy, transport, and communications infrastructure and Banking networks can severely restrict operations.

Be prepared – Strategize Before A Disaster Strikes

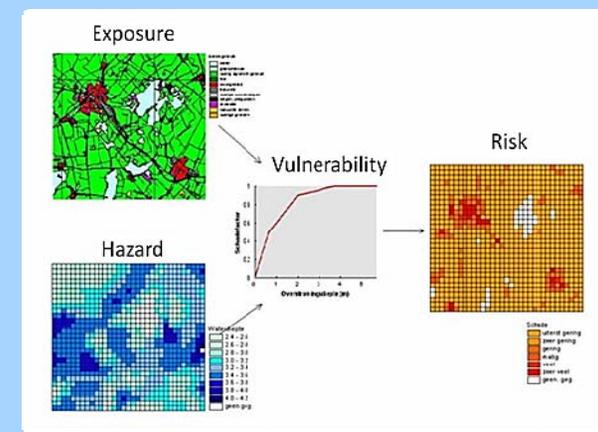


Role of SSN in Disaster Risk Reduction?

- SSN is primarily a risk-coping instrument
- Public Works programs like Ethiopia's PSNP can carry out community greening projects, and contribute to risk reduction
- Geo-referencing registry data and overlaying it with hazard maps can:
 - Spatially identify at risk populations like the elderly, people with disabilities, young children, and
 - Help devise evacuation & emergency shelter management plans ex-ante

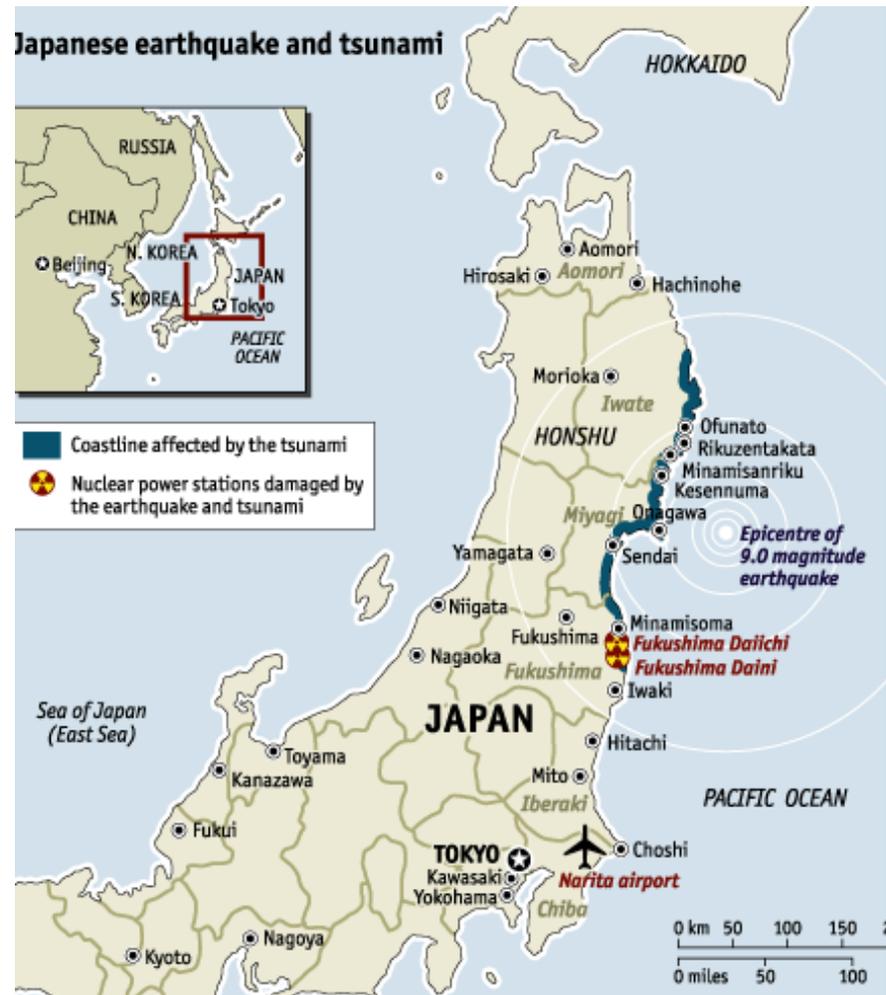


Physical Risk Assessment & Early Warning Systems



2011 East Japan Earthquake and Tsunami (3/11)

- Magnitude 9.0 (Mw) undersea megathrust earthquake
- Death: 15,894, Injured: 6,152, Missing: 2,562
- 230,000 still displaced
- Estimated economic loss: \$235 billion
- Level 7 meltdowns at three reactors in the Fukushima Daiichi Nuclear Power Plant
- [Video Link](#)



video

(<https://wbg.box.com/s/f95ypdmmd4jnoepk0ymoaj1ic6ikwl06>)