Community Sensitization and Asset Mapping
in Disaster-Prone Areas of India

- Flood-prone
- Cyclone-prone
- Drought-prone
- Landslide-prone
- Earthquake-prone
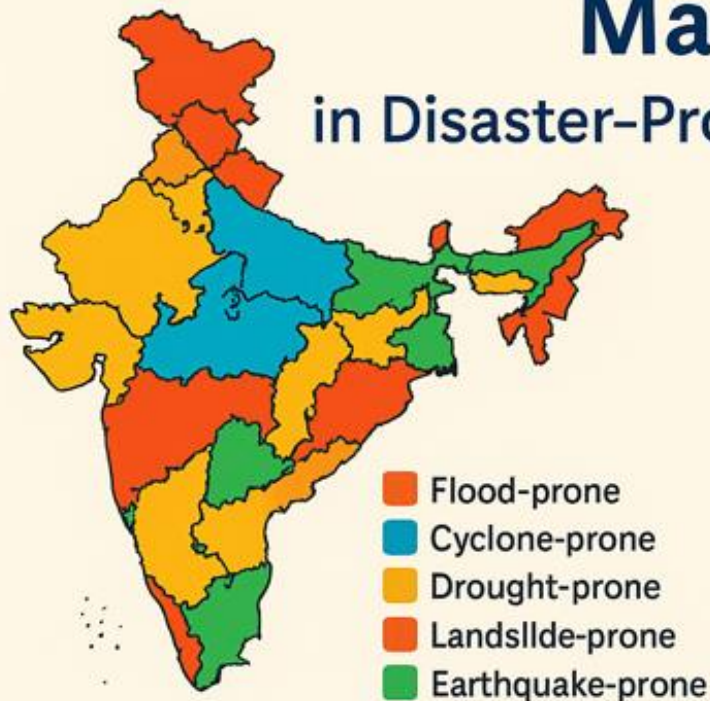
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India - A Disaster-Prone Nation

- 58.6% landmass prone to earthquakes

- 12% land vulnerable to floods

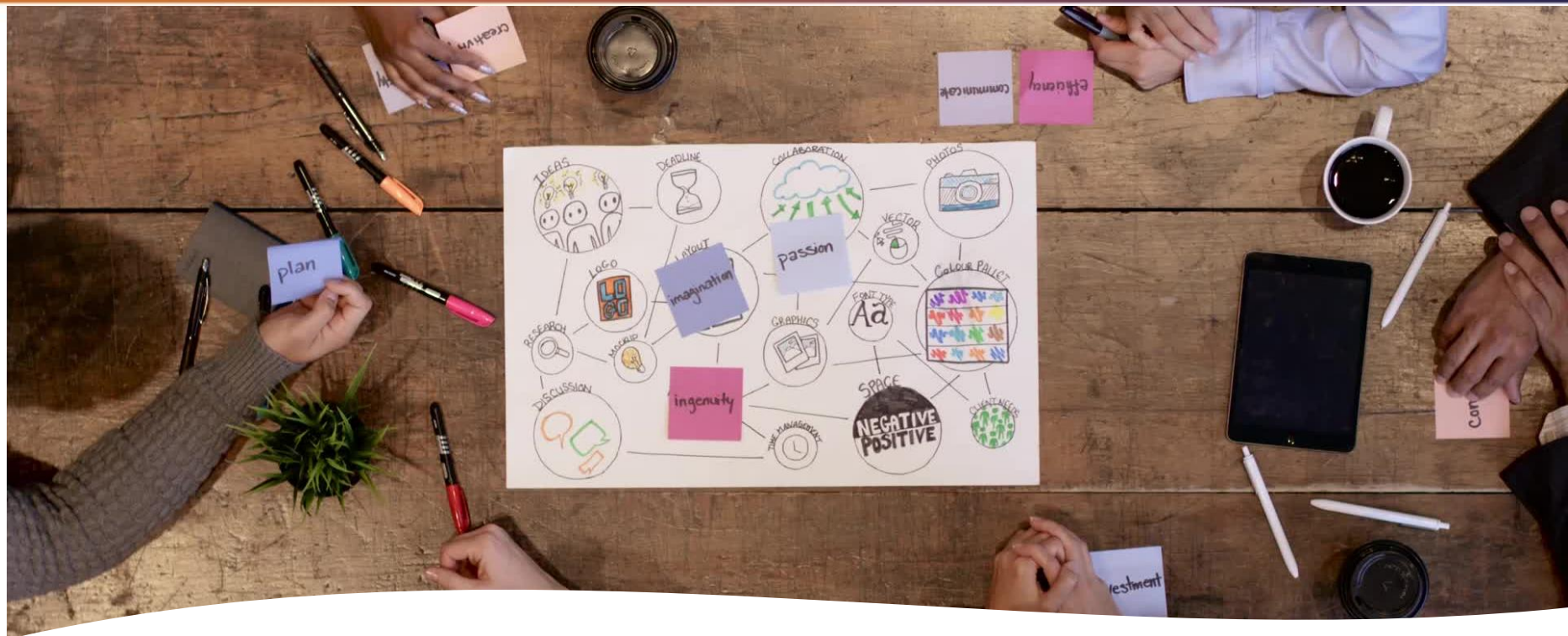- 68% of cultivable land prone to drought

The Gaps We Face

- Lack of awareness

- Inactive community participation

- Unmapped and underutilized local assets

What is Community Sensitization?

- Educate, Engage, Empower

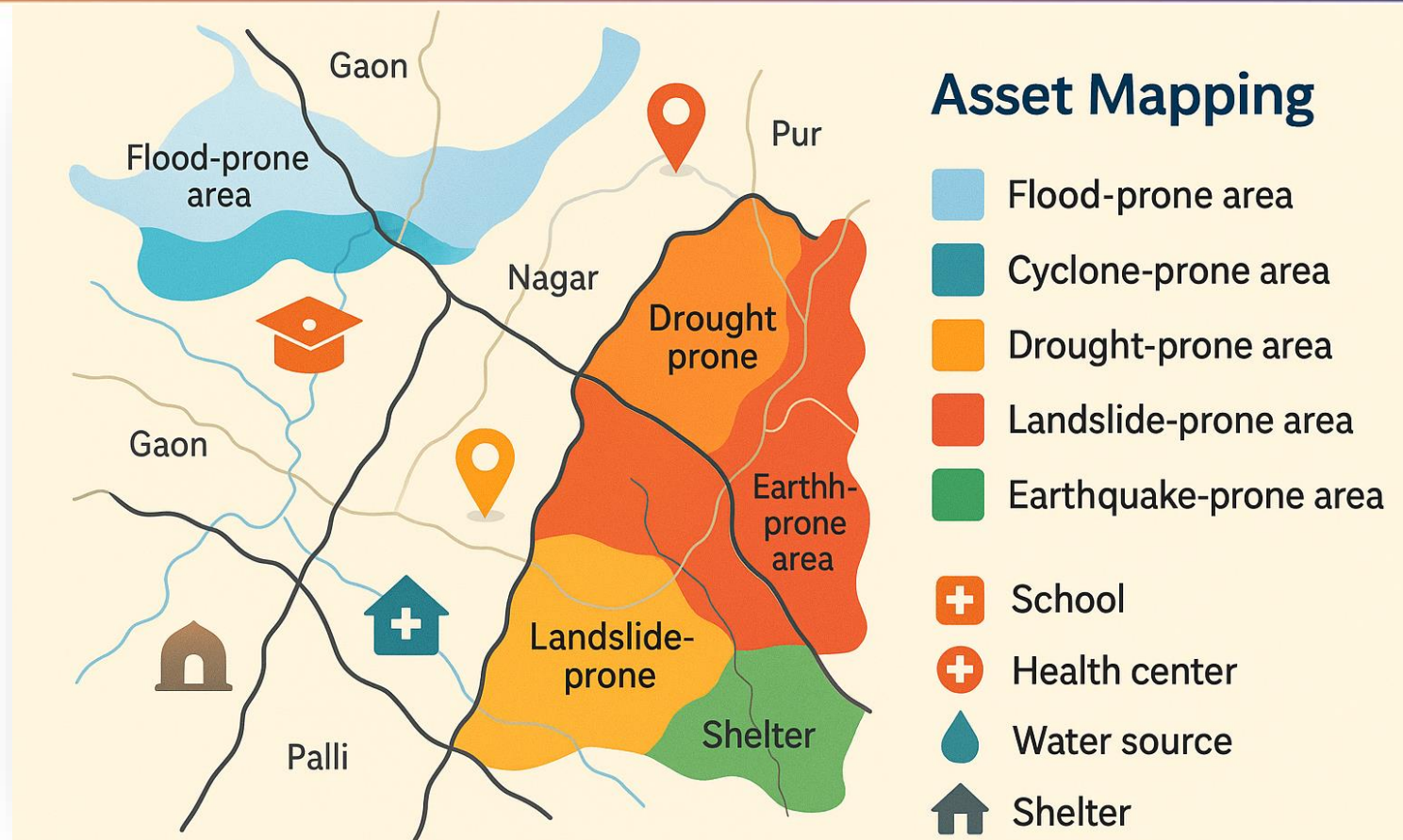- Empowered communities are resilient communities

Methods to Sensitize Communities

- Workshops, Theatre, IEC, Youth clubs
- Stakeholders: Women, children, teachers

What is Asset Mapping?

Importance in Preparedness, Response, and Recovery

Types of Community Assets

- NATURAL: RIVERS, FORESTS

- PHYSICAL: SCHOOLS, PHCS

- HUMAN: VOLUNTEERS, TEACHERS

- INSTITUTIONAL: SHGS, PANCHAYATS

Tools for Asset Mapping

- PRA TOOLS: RESOURCE MAPPING, HAZARD MAPPING

- DIGITAL: GIS, OPENSTREETMAP
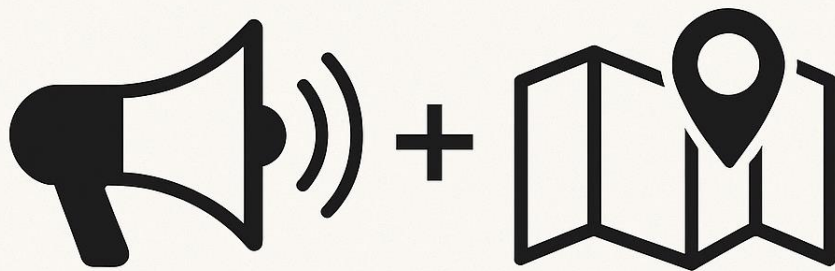
Integrated approach where sensitized communities use asset maps to respond better
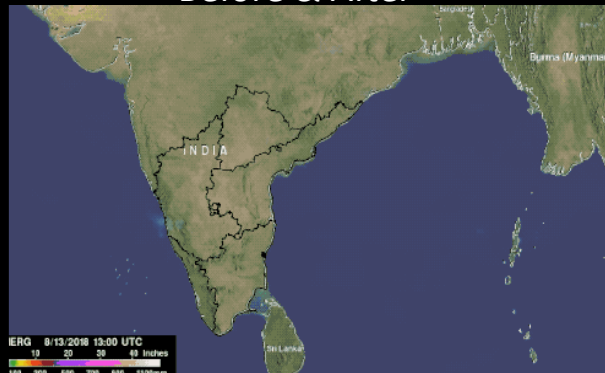
Case Study – Assam & Kerala Floods

- Community-led response
- Mapped flood shelters
- Outcome: Faster evacuation, fewer losses
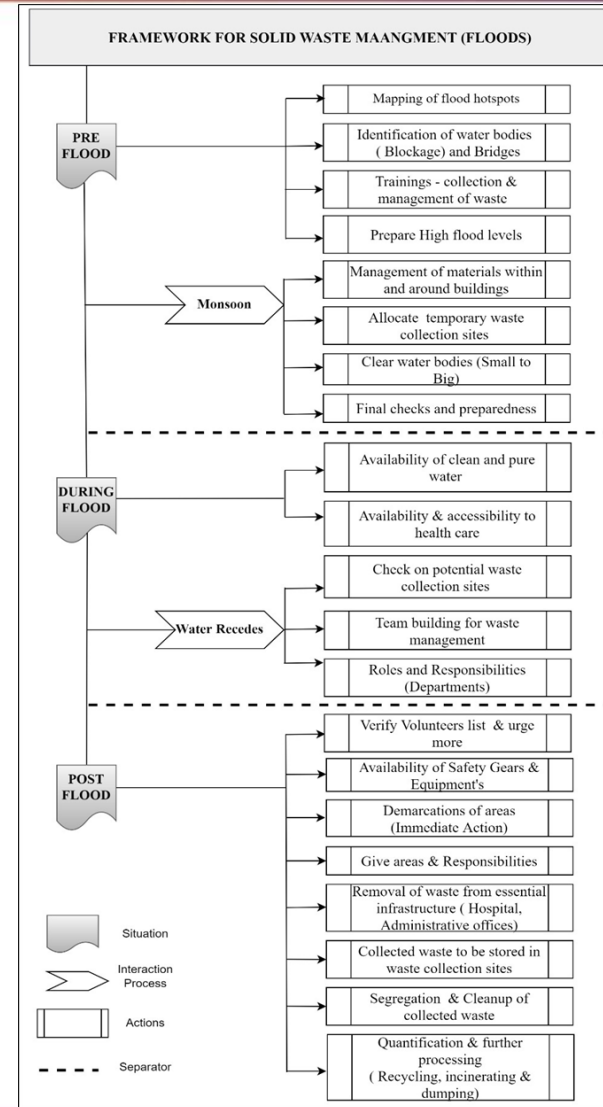
Kerala Flood 2018

Before & After

Precipitation

Source: NASA

Fieldwork at Glance

Working Framework for post-flood solid waste management

FRAMEWORK FOR SOLID WASTE MAANGMENT (FLOODS)

PRE FLOOD
- Mapping of flood hotspots
- Identification of water bodies (Blockage) and Bridges
- Trainings - collection & management of waste
- Prepare High flood levels

Monsoon (Interaction Process)
- Management of materials within and around buildings
- Allocate temporary waste collection sites
- Clear water bodies (Small to Big)
- Final checks and preparedness

DURING FLOOD
- Availability of clean and pure water
- Availability & accessibility to health care

Water Recedes (Interaction Process)
- Check on potential waste collection sites
- Team building for waste management
- Roles and Responsibilities (Departments)

POST FLOOD
- Verify Volunteers list & urge more
- Availability of Safety Gears & Equipment's
- Demarcations of areas (Immediate Action)
- Give areas & Responsibilities
- Removal of waste from essential infrastructure (Hospital, Administrative offices)
- Collected waste to be stored in waste collection sites
- Segregation & Cleanup of collected waste
- Quantification & further processing (Recycling, incinerating & dumping)

Legend:
- Situation
- Interaction Process
- Actions
- Separator

EMERGENCY PREPAREDNESS

RISK MANAGEMENT

SAFETY FIRST

Source: (United Nations, 2018)

Best Practices & Recommendations

- Train local youth

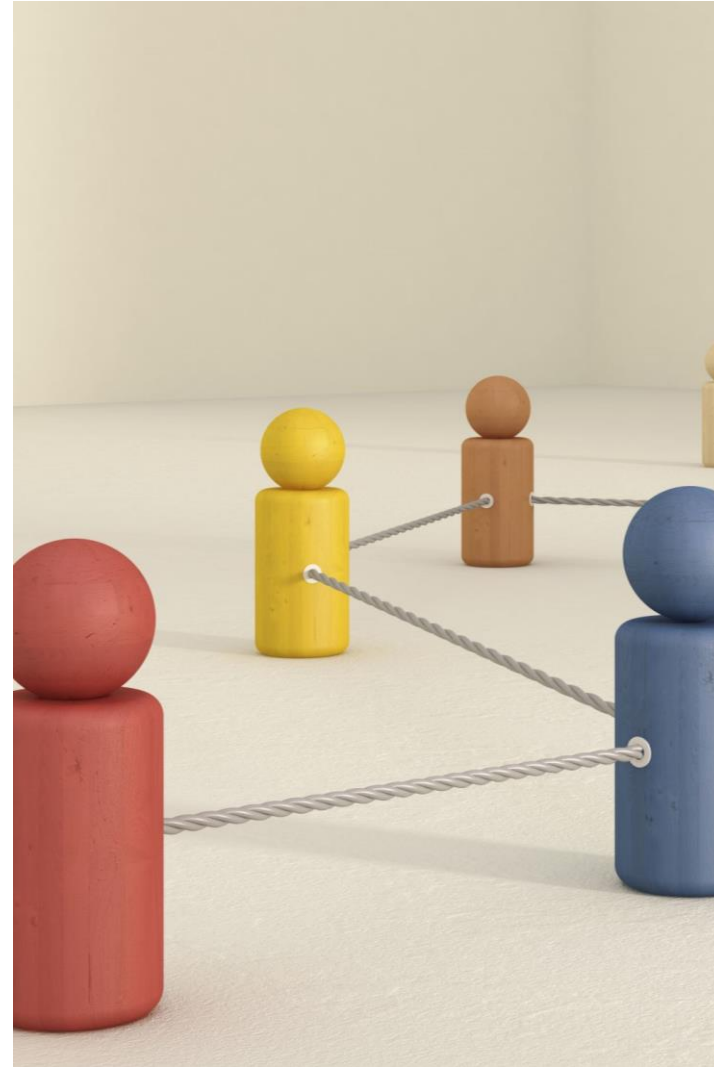- Involve SHGs and Panchayats

- Include mapping in school curriculum

Call to Action

- Empower communities
- Share tools
- Collaborate with stakeholders

Conclusion

"Disasters don't discriminate, but preparedness empowers."

Q&A

Thank you for your time.

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