



**United Nations**

Department of  
Economic and  
Social Affairs



## Session III - Digital Government Transformation and Innovation for Building Back Better

Digital Government for Disaster Risk Reduction and Sustainable Development

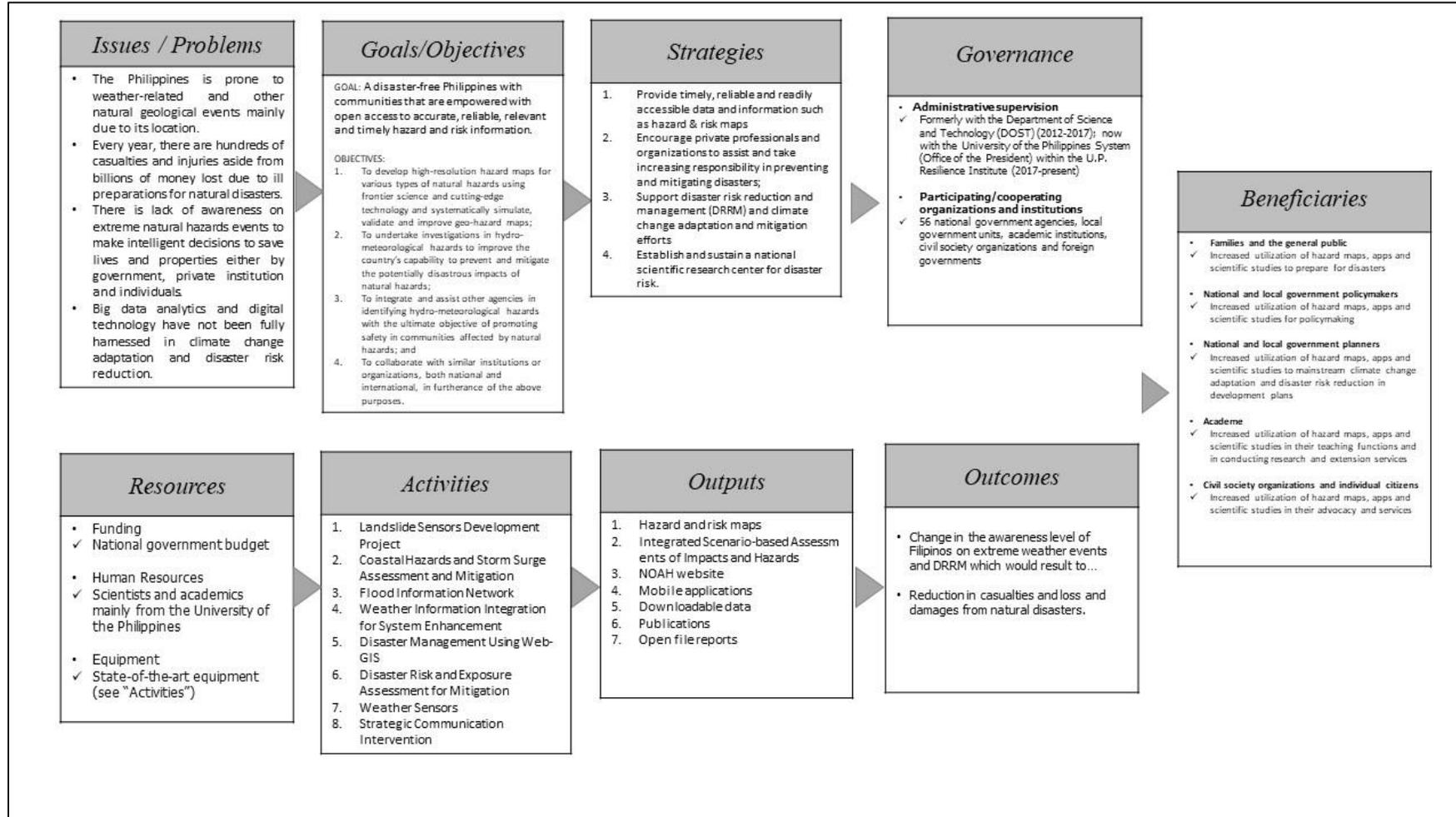
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# Question: What are the required institutional arrangements to help harness the digital government's full potential for DRR and building resilient communities?

## Policy Modeling Canvas: Project NOAH (Nationwide Operational Assessment of Hazards)



- 1. No one-size-fits-all institutional arrangements**
- 2. Form follows function**

Source: Florano, Ebinezer R. 2020. "Applying Big Data Analytics in Building a Climate Disaster Resilient Country: The Case of the Nationwide Operational Assessment of Hazards (NOAH)." A paper for the project "Research on the Digitalization of Public Service Delivery" (Reference No.: 19-RP-13-GE-RES-B1639) of the Asian Productivity Organization, and the Development Academy of the Philippines. (forthcoming, December 2020)



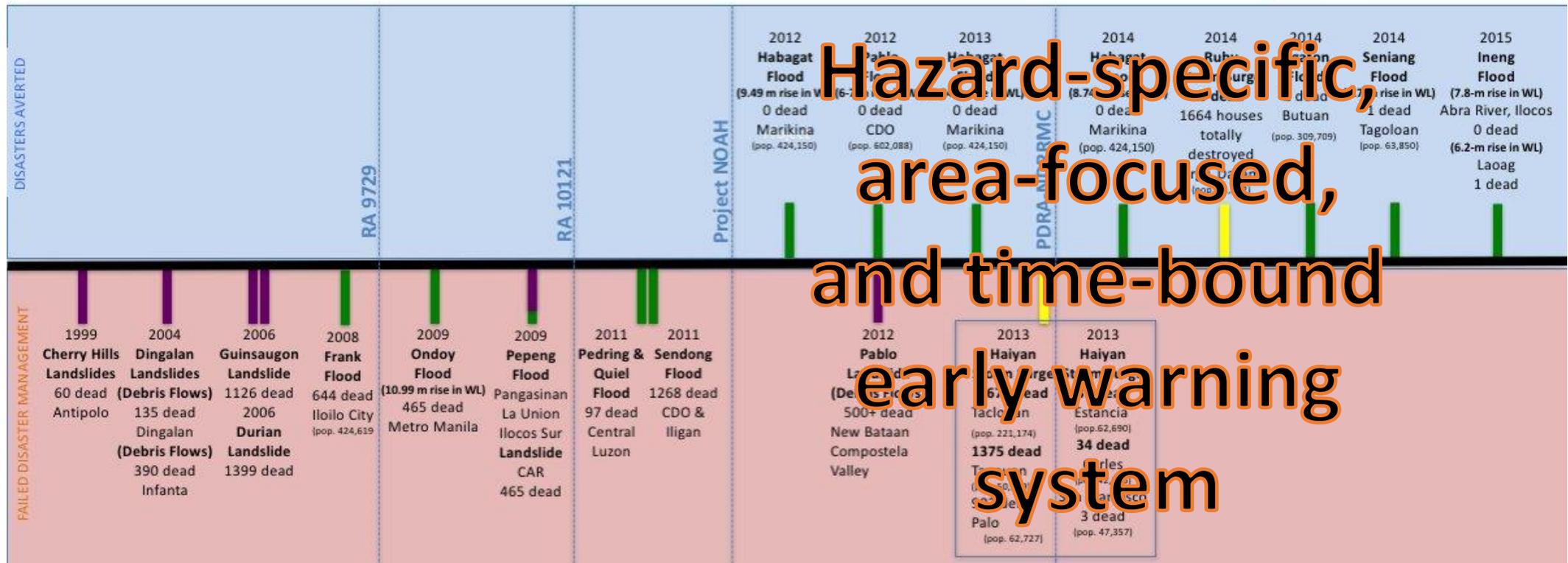
### Timeline of averted potential disasters vs. failed disaster management: 1999-2015

#### FAILED DISASTER PREVENTION AND MITIGATION VS. DISASTERS AVERTED

DISASTERS AVERTED

FAILED DISASTER MANAGEMENT

FLOOD  
LANDSLIDE  
STORM SURGE

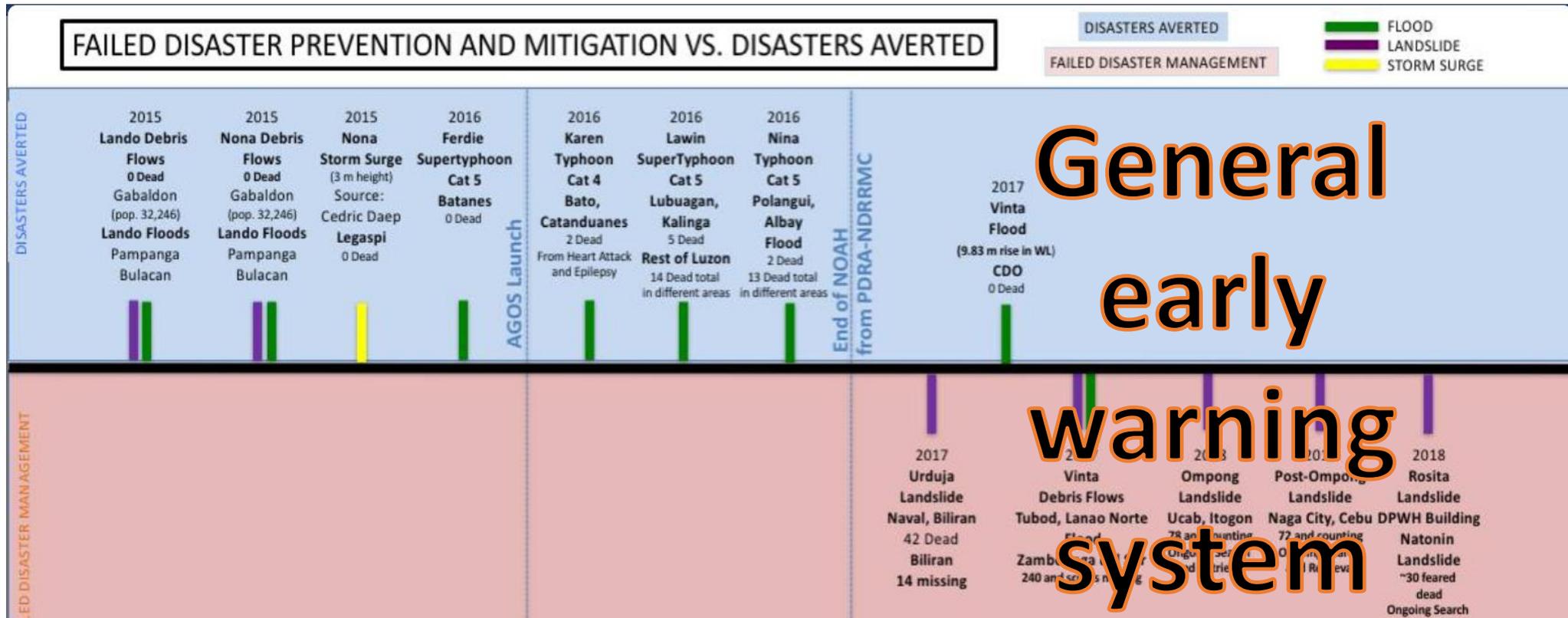


Hazard-specific,  
area-focused,  
and time-bound  
early warning  
system

Source: Lagmay AM. Nationwide Operational Assessment of Hazards (NOAH): A responsive program for disaster risk reduction in the Philippines. In: Humanitarian Technology Survey. Singapore: RSIS Centre for NTS Studies; 2017, pp.16–19.



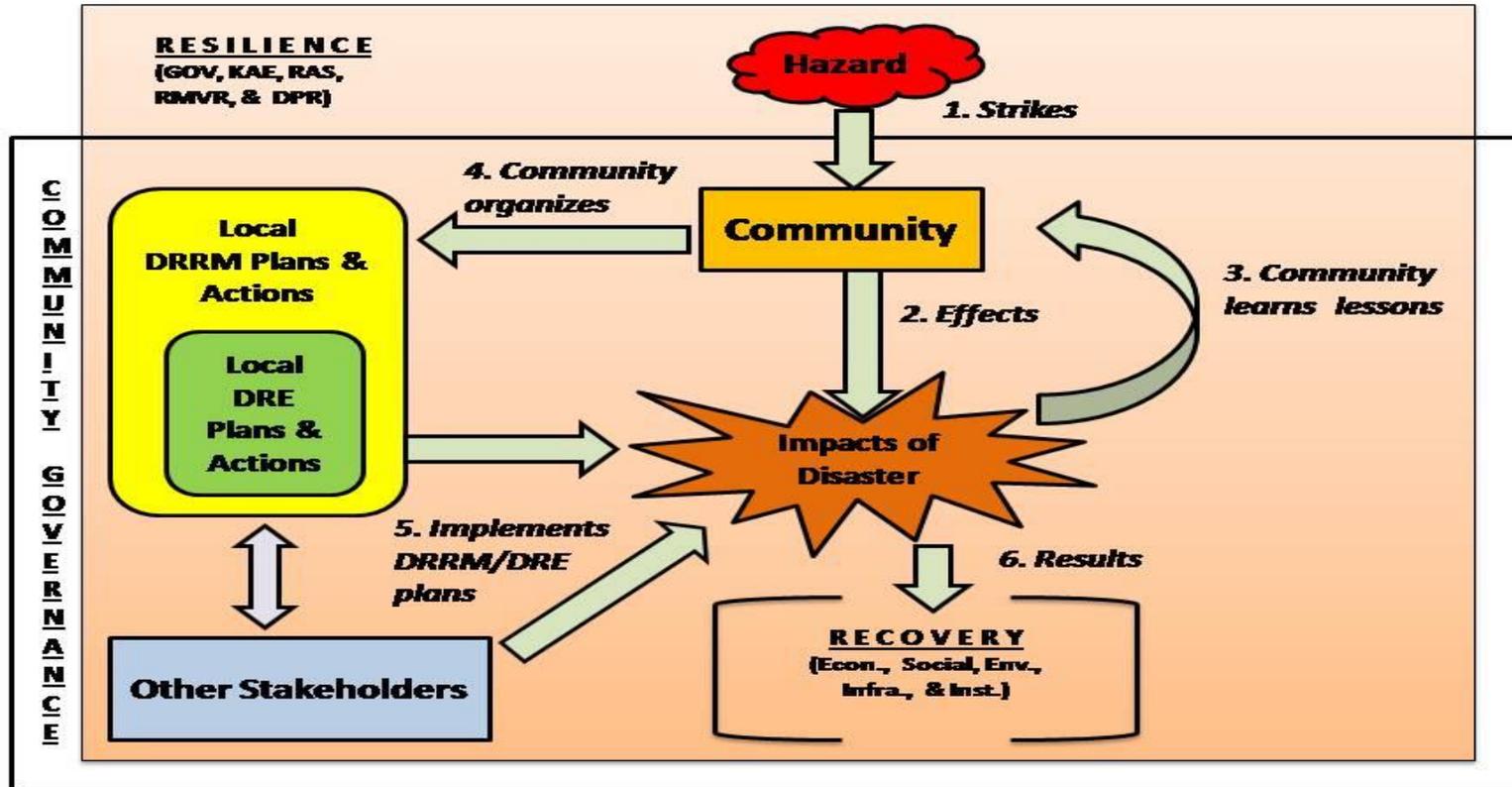
### Timeline of averted potential disasters vs. failed disaster management: 2015-2018



Source: Lagmay AM. Updated disaster timeline. 2019. Available at: <https://www.facebook.com/mahar.lagmay/posts/2466560253416142>. Accessed 22 September 2019.

*Question: How to make in practice inclusive activities for Disaster Risk Management and recovery? (from Fernández Lopera, PhD. Student, Germany)*

## Theoretical Framework: Community Governance for Disaster Recovery and Resilience



### Relevant Recommendations from the Study

1. Pre-disaster recovery planning
2. Public sector continuity planning

Source: Florano, Ebinez R., 2014.  
 "[Community Governance for Disaster Recovery and Resilience: Four Case Studies in the Philippines](#)," [Discussion Papers](#) DP 2014-38, Philippine Institute for Development Studies.  
 Available at:  
<https://pidswebs.pids.gov.ph/CDN/PUBLICATIONS/pidsdps1438.pdf>

*Abbreviations:* **GOV** – governance; **KAE** – knowledge & education, **RAS** – risk assessment; **RMVR** – risk management & vulnerability reduction; **DPR** – disaster preparedness & response **DRRM** – disaster reduction and management; **DRE** – disaster recovery; **Econ** – economic; **Env.** – environmental; **Infra.** – infrastructural; **Inst.** – institutional.

Source: Created by the author.