

Philippines: Gaps and Challenges of Science-based Decision-making

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(a thank you to Nicola Banwell)

State of Risk

2nd on World Risk Index: as to exposure and risk of hazards

5th most affected by natural hazards (1993-2012); in 2013, the most affected country

311 extreme events (1993-2012)

A Natural laboratory of disaster risk reduction solutions– a hub for international collaboration?

Country Response

- ✚ DRR and Climate Change, a PRIORITY
- ✚ *Legislations.* Climate Change Act. National Disaster Risk Reduction Management Act (defining the **governance structure down to community levels**; in health, Health Emergency Management)
- ✚ Education, youth camps
- ✚ **Science agencies at the forefront:** volcanology and seismology (PHIVOLCS), meteorology (PAGASA)

Investing in Science and Technology

- ✚ Proposed 2017 **DOST Budget**: Top 2. Education (34%), DRR (28%); the rest also has DRR components – energy, infrastructure, transport, industry, agriculture and natural resources, health and nutrition
- ✚ ***Beyond S&T sector: mobilize resources on and for DRR (COLLABORATE)***

The DOST is responsive to four of the 10-point National Socio-Economic Agenda

Promote science, technology, and the creative arts to enhance innovation and creative capacity towards self-sustaining, inclusive development

Promote rural and value chain development toward increasing agricultural and rural enterprise productivity and rural tourism

Accelerate annual infrastructure spending to account for 5% of GDP, with Public-Private Partnerships playing a key role

Invest in human capital development, including health and education systems, and match skills and training



- *Optimize research and development (R&D) investment outcomes by prioritizing pressing concerns as well as potentials in the areas of health, agriculture, process industries and environment with particular consideration to the needs and potentials of the regions*
- *Contribute to hastened countryside development by maximizing the utilization of R&D results and S&T innovations by the communities and productive sectors nationwide*
- *Continue to address the reduction of risks and mitigation of hazards brought about by unpredictable, changing climate, natural disasters and environmental degradation*
- *Stimulate technology-based economic activities through the availability of highly trained S&T professionals, state-of-the-art facilities and world-class institutional infrastructure*

2017 GAA General Provision Section 26. HARMONIZED NATIONAL RESEARCH AND DEVELOPMENT AGENDA

“The DOST, in consultation with government research institutions and other agencies concerned, shall prepare a harmonized national research and development agenda for the government covering all major research and development programs and projects or those costing Ten Million Pesos (P10,000,000) and above. The proposed agenda shall be submitted for approval by the Director General of NEDA.

The harmonized national research and development agenda shall be directly related to the priorities under the Philippine Development Plan.

Science, technology and innovation (STI), please

Among others,

Project NOAH (National Operational Assessment of Hazards)

Faultfinder apps

SPEED (syndromic surveillance)

Guidelines on Ethics in Disaster

Training-Workshop series on Framework on Disaster Research in Health

Consolidating as a STI hub on DRR,... improve these

Invest more on DRR and its research agenda for --

- # Building capacities for research
- # Integrated national hazard assessment
- # Intersectoral collaboration (**where is the private sector? Other players?**)
- # Documentation (databases, publishing, sharing)
- # **Research translation.** Sharing to decision-makers, communities, the world **our learning**

STI for evidence-informed decision-making

Providing research-based evidence in a language understandable by decision-makers at **all levels** (develop capacities, engage stakeholders from other disciplines)

Frequency, manner and consistency of engaging decision-makers (the art of engagement)

Viz the Sendai Framework

Priority 1

Increasing understanding of disaster risk **by all**, to be a way of life and to better manage risk

Documentation for real-time advisories, for monitoring



1st Workshop to
Strengthen Scientific Advisory Capacities for
Disaster Risk Reduction

25 - 26 August 2016

Bangkok, Thailand



Thank you😊
Maraming salamat😊