

**UN DESA – Seoul National University****Governance Capacity Development Session Series*****Strengthening Public Governance  
& Accelerating Innovation to Achieve Agenda 2030*****Session Guidance Note*****Risk-informed Governance and Leveraging  
Innovative Technology for Disaster Risk Reduction and Building Resilience*****3:00-5:00 PM (KST)****Friday, 18 June 2021****Context**

Reducing disaster risk and building resilience are interrelated thrusts of the 2030 Agenda for Sustainable Development and the Sendai Framework for Disaster Risk Reduction (DRR). The 2030 Agenda for Sustainable Development recognizes and reaffirms the urgent need to reduce the risk of disasters. The successful implementation of the 2030 Agenda will, in part, be measured by progress in implementation of DRR. The Sendai Framework calls on governments to move towards risk-informed governance arrangements that include a broader hazard and risk scope and incorporate the concept of systemic risk. The Priority 2 of the Sendai Framework in particular calls for strengthening disaster risk governance to manage disaster risk. Innovative technology including digital and frontier technologies are key drivers for ensuring DRR and building resilient communities. Risk-informed approach to governance requires extensive collaboration and ownership from various partners, including multiple agencies within governments. It is the foundation for mainstreaming risk into development policy and practice for more effective management of climate change and disaster risks.

This Session will explore how risk-informed governance and innovative technology can be leveraged for DRR and building resilience. This Session will also highlight some innovative practices on how risk-informed governance and innovative technology could contribute to DRR and building resilience.

**Structure & Agenda**

The Session will largely be composed: i) two thematic presentations; ii) one Country case presentation; and ii) Discussions/Q&A Session.

Time 3:00-5:00PM (120 mins)	Agenda
3:00-3:35 (35 mins)	<b>Moderator</b> <ul style="list-style-type: none"> <li>Mr. Samuel Danaa, Associate Capacity Development Expert, UNDESA/DPIDG/UNPOG, Incheon, Republic of Korea</li> </ul>
	<b>Presentation I</b> <i>Overview Presentation on Risk-informed Governance and Innovative Technology for DRR and Resilience</i> <ul style="list-style-type: none"> <li>Mr. Samuel Danaa, Associate Capacity Development Expert, UNDESA/DPIDG/UNPOG, Incheon, Republic of Korea</li> </ul>
3:35-4:05 (30 mins)	<b>Presentation II</b> <i>Digital Technologies and ICT Applications for DRR and Resilience</i> <ul style="list-style-type: none"> <li>Ms. Sarah Wade-Apicella, Programme Officer, UNDRR Office for Northeast Asia (ONEA and GETI), Incheon, Republic of Korea</li> </ul>
4:05-4:35 (30 mins)	<b>Presentation III</b> <i>Country Case Presentation – The Philippines</i> <ul style="list-style-type: none"> <li>Dr. Ebinezer R. Florano, Professor, National College of Public Administration and Governance (NCPAG), University of the Philippines (UP)</li> </ul>
4:35-5:00 (25 mins)	<i>Q&amp;A/Discussion &amp; Wrap-up</i>

## Guiding Questions for Presenters

### Presentation I: Risk-informed Governance and Innovative Technology for DRR and Resilience

- How can data and digital government be fully leveraged as powerful tools for DRR and resilience building?
- How can governments effectively harness the potential of digital government to effectively anticipate, prepare, and respond to risks and disasters?
- What are key enabling factors needed for promoting the development and application of digital government for DRR and Resilience?
- How can digital government systems/tools be used to enhance government capacity for DRR and build resilience?
- What are the barriers that constrain the application of risk-related and instituting data governance especially personal data protection for DRR?

### Presentation II: Digital Technologies and ICT Applications for DRR and Resilience

- How can ICT applications contribute to DRR and building resilience especially in vulnerable countries and communities?
- How is the application of ICT tools promoting citizens engagement and transparent risk-informed governance in times of disasters especially in this COVID-19 pandemic?
- What are the challenges and barriers to access, adoption, and utilization ICTs and innovative technologies for DRR?

### Presentation III: Country Case Presentation – The Philippines

1. How is your country effectively leveraging big data analytics and digital government tools for achieving DRR and building resilience?
2. What are the key challenges and lessons learned over the years in the application of big data analytics and digital government for innovative DRR in the Philippines?
3. What are some proposed measures and policy recommendations worth sharing for other countries adoption in their disaster response and management systems?

## Background Materials

- United Nations. 2020. E-Government Survey 2020: Digital Government in the Decade of Action for Sustainable Development. Department of Economic and Social Affairs. New York. <https://bit.ly/2E4gZ2q>
- United Nations. 2019. The Role of Science, Technology, and Innovation in Building Resilient communities, Including Through the Contribution of Citizen Science. Economic and Social Commission. Commission on Science and Technology for Development. May 13-17. Geneva. <http://bit.ly/2MIB46z>
- United Nations. 2018. E-Government Survey 2018: Gearing E-Government to Support Transformation Towards Sustainable and Resilient Societies. Department of Economic and Social Affairs. New York. <http://bit.ly/2SsKv14> [Chapter 1]
- Aid and International Development Forum. 2018. The Digital Divide is Closing: Worlds Least Developed Countries on Track for Universal Internet. <http://bit.ly/2MfZVZP>
- Saez, Catherine. 2018. 4 of 5 People in LDCs Can Access Mobile Networks, But Are Not Using Internet. Intellectual Property Watch. January 24. <http://bit.ly/32xKcKk>
- Global Facility for Disaster Risk and Reduction. 2018. Machine Learning for Disaster Risk Management. World Bank. Guidance Note. <http://bit.ly/2oLonaW>.
- Yu, Manzhu, Chaowei Yang, and Yun Li. 2018. Big Data in Natural Disaster Management: A Review. Geosciences. George Mason University. <http://bit.ly/2pBfUav>.

## Session Coordinator

### Mr. Samuel Danaa

Associate Capacity Development Expert

United Nations Project Office on Governance, UNDESA/DPIDG

[samuel.danaa@un.org](mailto:samuel.danaa@un.org)