



ASIA-PACIFIC MINISTERIAL CONFERENCE ON
Disaster Risk Reduction 2022



UN Office for Disaster Risk Reduction

UNDRR

AP-STAG
Asia-Pacific Scientific and Technical Advisory Group

SENDAI FRAMEWORK
FOR DISASTER RISK REDUCTION 2015-2030



BRIN
BADAN RISET
DAN INOVASI NASIONAL



Inspire
Alliance

Working Session 10: Scaling up, scaling out and scaling deep: Innovations in Disaster Risk Management

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Research Center for Geological Disaster, National Research and Innovation Agency (BRIN)

Secretary General U-INSPIRE Alliance

Thursday 21 September 2022

Empowering Innovation of the Youth and Young Professionals

Lens of U-INSPIRE Alliance

What Can Youth and Young Professionals Do?



1. Risk Communication, Education and Community Awareness

Myth and hoax buster through Infographics, Videos, Fact sheets, Blogposts, creation of games, art multimedia, knowledge sharing



4. Research and Dissemination

Research activities and dissemination, articles, books, presentation, Impact of COVID-19 to Tourism, SIR Modeling to determine peak infection time on COVID-19, GIS Based Smart Lockdown Plan, COVID-19 Social Studies, Natural Disasters in times of COVID19



2. Technology, Design, Innovation

COVID19 Monitor, COVID-19 Risk Assessment tool for risk index Health, Exposure, Social behavior & policy, The Importance of Data and Information Management, Low-Cost Ventilator, portal for COVID 19 and low-cost sanitize booths, Low-cost Tech, UAV for humanity, Design Innovation, Platform/App development, Emerging Technology (Satellite, IoT, AI)



5. Evidence – Based Policy

DRM planning documents, policy-making process



3. Working with Local Communities on Concrete Actions

On the ground volunteer work as frontlines, assisting less fortunate, participatory hazard & evacuation mapping, safe school assistance,



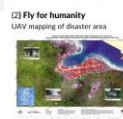
6. Social-entrepreneurship

Cari, RIKa, Youth Innovation lab, HRRI, Fly for Humanity, Siagabencana.com



SMART objectives: Youth and young professionals in 34 provinces became focal points and think thank for innovation in SETI for DRR:

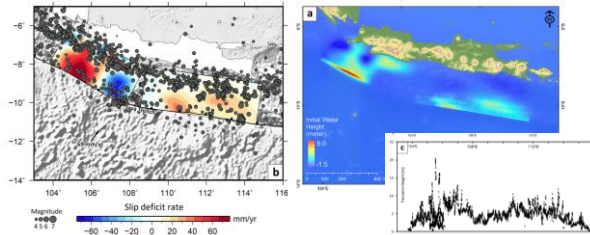
Flagship Activities:



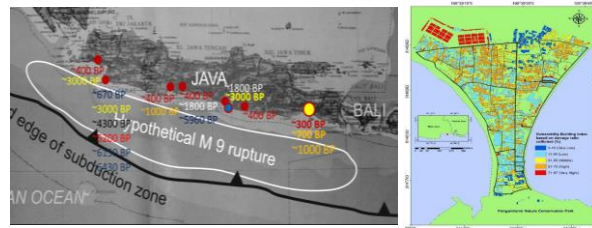
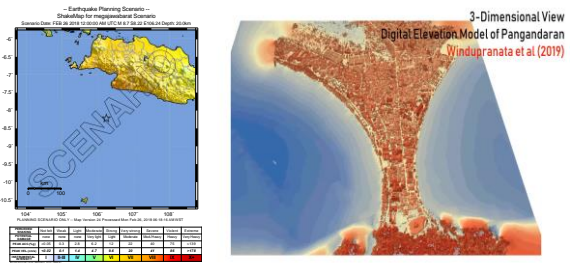
Science Policy Practice Nexus: Building Resilience in Java - Bali

Progress

Priority 1



(Widiyantoro et al 2020, Hanifa et al 2014)



(Putra dkk, 2018-2019).

Priority 2

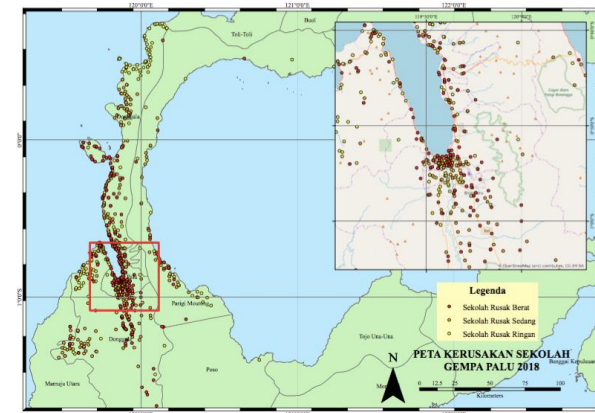
National Platform for earthquake studies:
National Center for Earthquake Studies (PuSGeN)
National Platform for tsunami: IATSI
National Platform for DRR

Figure 4: Collage of disaster management documents. It includes a map titled 'PETA SUMBER DAN BAHAYA GEMPA INDONESIA TAHUN 2017', a blue cover of the 'RENCANA INDUK PENANGGULANGAN BENCANA 2015-2045', and a red cover of the 'RBI RISIKO BENCANA INDONESIA'.

Priority 3

The National Standardization Agency (BSN) has developed and determined 23 national standards (SNIs) for managing disasters during the 2011–2022 period,

Figure 5: Infographic about building standards and disaster preparedness. It features a 3D model of a building and text in Indonesian discussing 'STRUKTUR BANGUNAN ANTI GEMPA BUMI' and 'Rawan Gempa, BSN Tetapkan SNI Bangunan Tahan Gempa'.



Priority 4



Increase of public-private partnership. Eg Hotels for shelters

Gap

- Lack of local and detail data (exposure and vulnerability)
- Not yet address cascading, systemic risk.

- Local DRR strategy, due to lack of awareness, capacity and resources

- Lack of investment in implementing resilient infrastructures
- Lack of disaster insurance
- Lack of resources mobilization

- Dense population
- Leveraging awareness, most of the time not a priority
- Access of archipelagic country

Local-led Initiative and Innovation



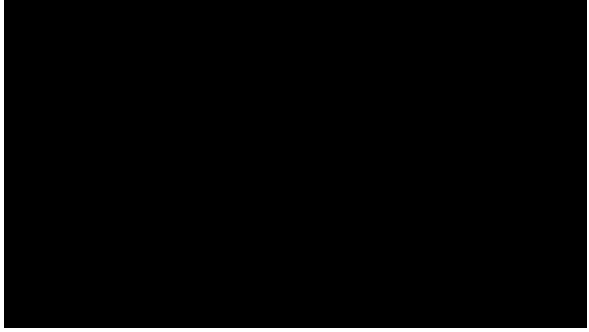
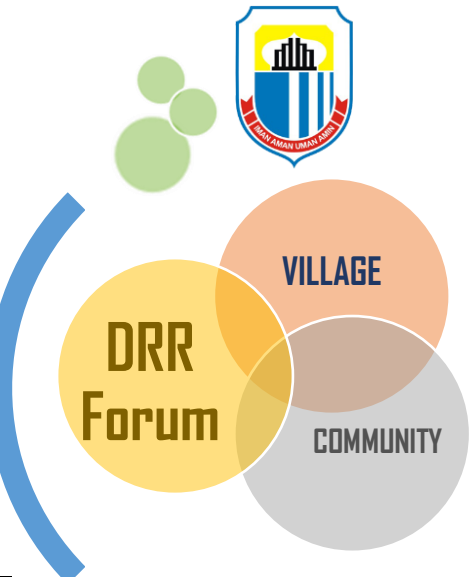
OUTSIDE LEBAK SELATAN

Government, Universities, NGO/CSO, Private Sectors, Media



WITHIN SOUTH LEBAK SELATAN

Disaster Mitigation Task Force for South Lebak Establish in October 2020



HAYU URANG SIAGA CAAH LAUT
Siap Siaga Tsunami

SUPPORT INITIATIVE STAKEHOLDERS

PILOTING TSUNAMI READY AND APPLYING RECOGNITION

Future Literacy Lab: DRR Future Thinking from YYPs across Asia Pacific for transformative Disaster and Resilience Action

Aim: Leverage on the collective intelligence and frontiers thinking of the young people to build anticipatory actions
 72 Youth & Young Professionals in Asia Pacific participated in FLL series

DRR FT Disaster Risk Governance

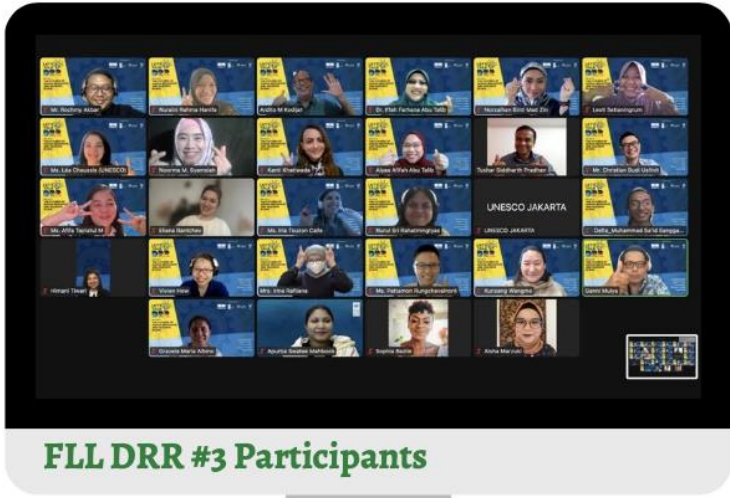
- **Reframing – Murmuration Intensive Society**
- Adaptive and agile governance and policy
- data transparency and open access;
- better connectivity, engagement and cross-collaboration.
- advanced technology systems

DRR FT on Disaster Knowledge

- **Reframe process: Water is Knowledge - a daily basis need for everyone**
- A transparent element with no boundaries
- An asset to empower our future
- A crystal clear view of different perspectives
- A transparent element with no boundaries
- Need to be accessible
- As defense, material to solve problems
- Understanding new emerging hazards
- Grassroot communities
- An asset to empower our future

DRR FT on Human Behavior and Hazard

- **Reframe: There are no more natural hazards, only man-made hazards.**
- Community Empowerment via collective knowledge
- Remaking of Community
 - Robust health infrastructure aided with Incident Response System (IRS) mitigated disaster impacts and saved lives
- Urge to stop deforestation, save animal extinction
- Information accessibility



FLL DRR #3 Participants



FLL DRR #3 Mural Board

Moving Forward

1. Localization : local geography context, local culture, local-level map scale. Leverage the role of **local actors and local-led initiatives** in the formulation of cross-borders cooperation schemes to ensure development cooperation in the field of disaster risk management is **based on concrete needs in the community or demand driven**.
2. To **create greater synergies and collaborations, neighbour-help-neighbour and south-south cooperation** that enable inclusive participation – including children, youth, young professionals, women, disable people, indigeneous people - to participate in and influence development and policy making processes in the field of disaster and climate resilience, by **establishing more programs that enable networking** with policy makers, communities, businesses and financial institutions, which in turn create continuous opportunity in responding and making science, engineering, and technologies relevant in the market of resilience building.
3. To **increase opportunities and investments** on capacity building for YYPs, by extending resource mobilization, **scholarships, grants, endowments, mobilizations, seed fundings and other forms of investments**. **The youth and young professionals Alliance has show a great potential to Foster transboundary collaboration among YYPs organizations**, working in the field of disaster and climate resilience, for greater visibility and meaningful impacts; and Enhance the practices of **intergenerational, cross-border, interdisciplinary, and transdisciplinary collaborations** in the field of disaster and climate resilience;
4. To **nurture the culture of social entrepreneurship or scipreneurship**, led by YYPs, to build resilience at local level. Provision of technical support to increase access to funding as a catalyst for disaster risk reduction action initiatives by utilizing innovation, creativity, and entrepreneurial spirit



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Thank You

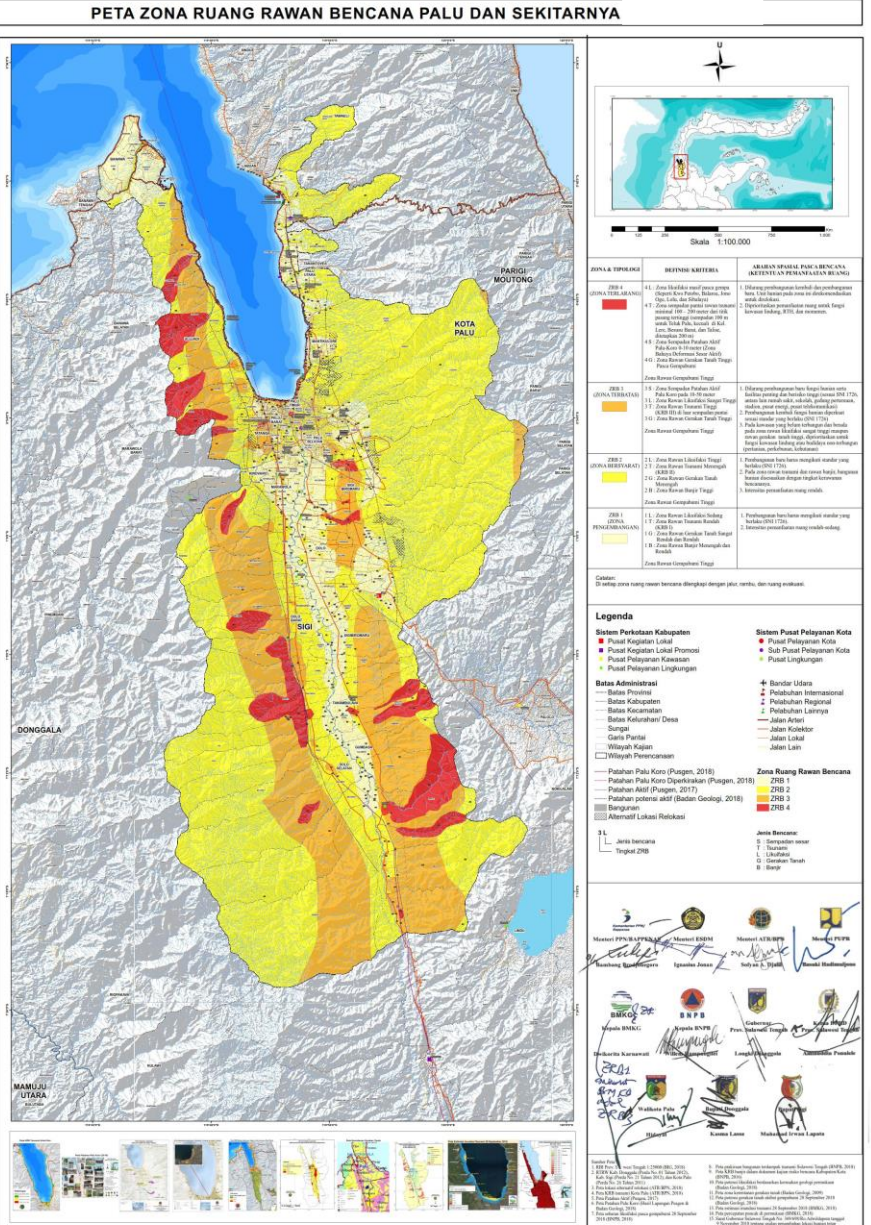
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Risk-Informed Build Back Better?



"Survey Report" for the Special Issue of "Coastal Disasters in Asia"

Questioning the hazard map-based rebuilding process: Learning from the 2018 Sulawesi earthquake in Indonesia

Kanako Iuchi^{a*}, Hiroshi Takagi^b, Yasuhiro Jibiki^{a,c}, Tamiyo Kondo^d, Ayako Kusunoki^e, Nuraini Rahma Hanifa^f, Dicky Pelupessy^g, Rahmadiyah Tria Gayathri^h, and Robert Olshanskyⁱ

Governing systemic and cascading disaster risk in Indonesia: where do we stand and future outlook

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 Copernicus Institute of Sustainable Development, Utrecht University,
 Utrecht, The Netherlands
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Disaster risk in Indonesia

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Scoping Study On Compound, Cascading And Systemic Risks In The Asia Pacific

2021