

2019 Report





About

U-INSPIRE is a platform of youth and young professionals working in Science, Engineering, Technology, and Innovation (SETI) for Disaster Risk Reduction (DRR). The platform was first established in Indonesia and now has been growing in other countries. This is a report on how U-INSPIRE Indonesia has developed since the establishment and on activities throughout the year 2019. Separate reports are available for a number of activities.

Acknowledgment

This report was made possible thanks to the support of Lead, Co Lead and Core Team of U-INSPIRE. We recognize that the whole process and achievements would not be possible without the support from all members of U-INSPIRE. Last but not least, on behalf of U-INSPIRE Indonesia, we would like to extend our sincere gratitude to Mr. Ardito M. Kodijat, Mrs. Irina Rafliana, Mr. Wisnu Wijaya, Mr. Udrek, Mr. Andi Eka Sakya, Mr. Ahmad Arif, Mr. Daryono, Mr. Jonatan Lassa, Mrs. Ninil Miftahul Jannah, and Mr. Irendra Radjawali for their valuable advice and support throughout the development of this platform.

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Cover: U-INSPIRE 1st Birthday Logo Design

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Photos

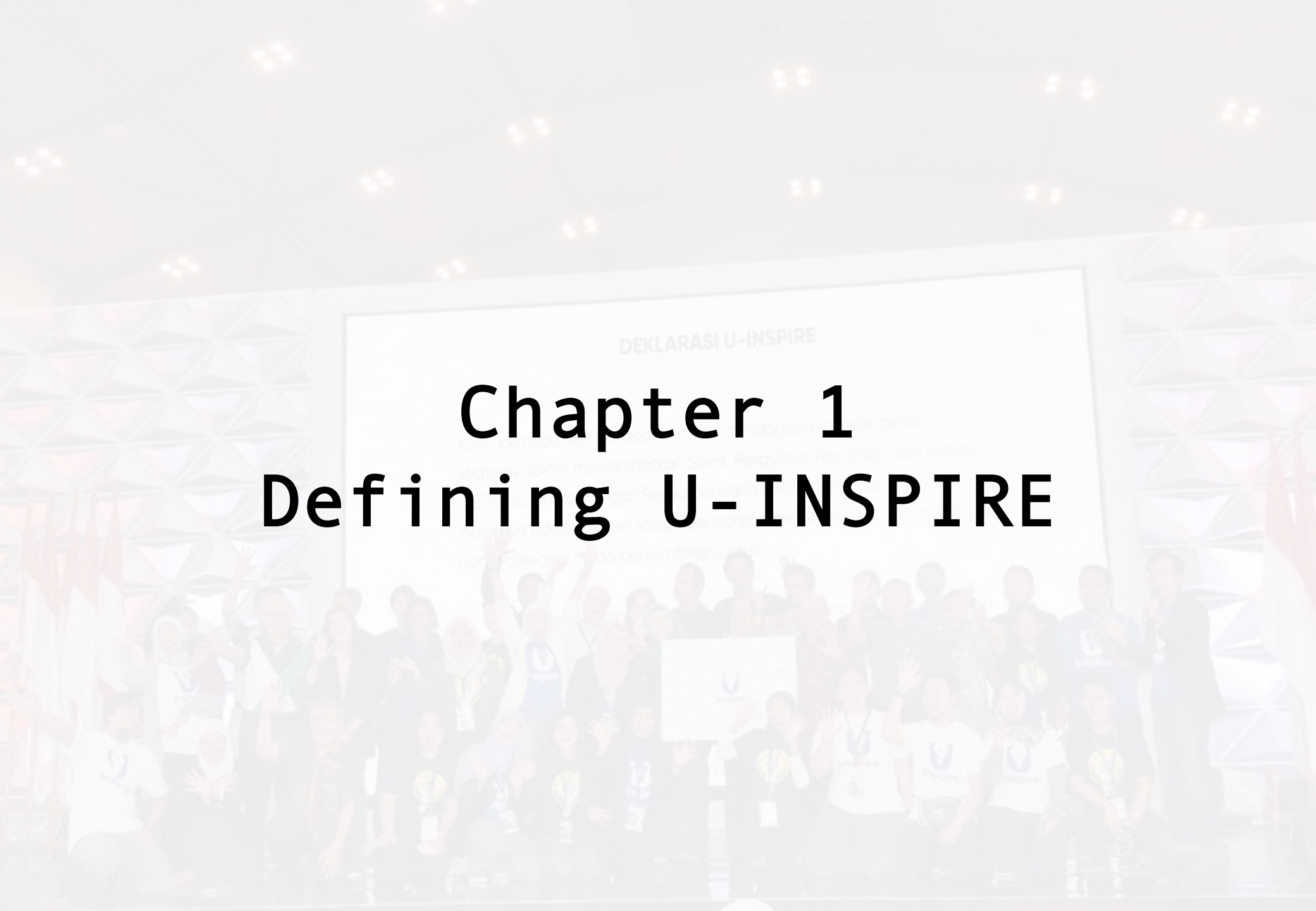
U-INSPIRE Indonesia Album

Glossary

Co-Creation	: a collaborative development of new value (concepts, solutions, products and services) together with experts and/or stakeholders.
Disaster	: an event or a series of events threatening and disturbing the community life and livelihood, caused by natural and/or non-natural as well as human factors resulting in human fatalities, environmental damage, loss of material possessions, and psychological impact.
Disaster risk	: potential loss from a disaster in a certain area and in a specific period of time such as deaths, wounds, illnesses, threatened lives, missing sense of security, refugee, damaged or lost assets, and disturbance to community activities.
Google Drive	: a file storage and synchronization service developed by Google.
Google Docs	: a free Web-based application in which documents and spreadsheets can be created, edited and stored online.
Hackathon	: an event, typically lasting several days, in which a large number of people meet to engage in collaborative computer programming.
Mitigation	: a series of efforts to reduce disaster risk, through physical development as well as awareness and improved capability to face disaster threat.
Platform	: a raised level surface on which people or things can stand / a declared policy of a political party or group.
Silo	: a reluctance to share information / any management system that is unable to operate with any other system
WhatsApp, Skype, Slack	: an application that enables users to chat with one another one-to-one or as a group.
Youth	: according to Indonesia's 2009 Law No. 40 on Youth, young people are citizens aged 18-30 years
BMKG	: Agency for Meteorology, Climatology, and Geophysics
BPPT	: Agency for the Assessment and Application of Technology
ICIAR-LIPI	: International Center For Interdisciplinary and Advanced Research LIPI
LIPI	: Indonesian Institute of Science
STAG	: Scientific and Technical Advisory Group
TATs USAID	: Technical Assistance and Training Teams U.S. Agency for International Development
UNICEF	: United Nations Children's Fund
UNOCHA	: United Nation Office for the Coordination of Humanitarian Affairs
IYDRR	: Indonesia Youth on Disaster Risk Reduction
UNESCO	: United Nations Educational, Scientific and Cultural Organization
UNISDR	: United Nations International Strategy for Disaster Reduction (now UNDRR)
UNDRR	: United Nations Disaster Risk Reduction

Chapter 1

Defining U-INSPIRE



Establishment of U-INSPIRE

Prior to the launch of U-INSPIRE in November 2019, the establishment of the platform was initiated during the Consolidation Meeting on Youth and Young Professionals in Science, Engineering, Technology and Innovation (SETI) for DRR, initiated by UNESCO Office Jakarta, ICIAR LIPI and STAG UNISDR (Working Group on Capacity Building and Higher Education) on the 29th of March 2018 at the UNESCO Office Jakarta. The meeting involved thirty-one youth and young professionals with various background from six cities across Indonesia.

Further series of meeting, including online meetings, facilitated and advised by more institutions, including the National Agency for Disaster Management (BNPB), the Agency for Meteorology, Climatology, and Geophysics (BMKG) and the Agency for the Assessment and Application of Technology (BPPT), led to the agreement on the platform's establishment named U-INSPIRE (Youth and Young Professionals on Innovation, Science, and Technology Platform for Resiliency) on the 20th of May 2018.



Consolidation Meeting on YYP in SETI for DRR, March 2018

Another important milestone for U-INSPIRE's establishment was the workshop on the Asia and the Pacific Regional Workshop on Strengthening, Empowering, and Mobilizing Youth and Young Professionals in Science, Engineering, Technology, and Innovation (SETI) for Disaster Risk Reduction (DRR), which was held on the 31st of October to the 4th of November 2018 in Serpong – Indonesia. U-INSPIRE was launched on the 3rd of November 2018 as part of the workshop, in front of 280 audience, including the workshop's 98 participants (including observer, speakers, organizers) from 32 countries, and representatives from UNESCO, STAG UNISDR, ASSTAG UNISDR, BNPB, BPPT, Bappenas, TATTS-USAID, ICIAR LIPI, National Platform for DRR (Planas PRB), University Forum for DRR (FPT PRB), Kompas TV.

What defines U-INSPIRE?

A platform of youth and young professionals which aims to bridge the gaps between the world of researchers with government, practitioners, and the public/communities as well as across different disciplines, institutions, and scale (local, national, global), by creating spaces for youth and young professionals to empower their role in SETI for disaster risk reduction. It is expected to contribute in the achievements of SFDRR and Sustainable Development Goals, particularly Goal 4, Goal 8, Goal 9, Goal 11, Goal 13, and Goal 17. As of June 2019, U-INSPIRE has been formally registered as a Not for Profit Association by the Ministry of Law and Human Rights of Indonesia.

The vision of U-INSPIRE: "Indonesian youth and young professionals as the generator of innovation in science, engineering, and technology for disaster resilience at national and global level".



U-INSPIRE KEYWORDS

- Youth (16-30 years old, Indonesia Law No.40/2009)
- Young Professionals (up to 40 years old)
- Science, Engineering, Technology, Innovation (SETI)
- Disaster Risk Reduction
- Risk and Science Communication
- Resilience
- Interdisciplinary, Multidisciplinary, Transdisciplinary
- Networking and Hub of Information at Local, National, and International Level
- Support SETI-based DRR Policy and Action
- Global Framework, SFDRR, SDGs



The Regional Workshop in Jakarta, when U-INSPIRE was launched

Organizational Structure & Membership

Currently, U-INSPIRE is managed by one Lead, one Internal Affairs coordinator, and five Co-leads, and is advised by Advisors. All managers and members are working on a voluntary basis. The Internal Affairs consists of divisions, i.e. Administration and Financial Management, Human Resources, Website, Social Media, Event Organizing, Online Discussion, and Business Development. The platform is formed by five Working Groups, i.e. Knowledge Management, Innovation Room, Science Communication, Advocacy, and Communication and Networking. Each Working Group is led by a Person in Charge (PiC), assisted by Co-leads.



Any Indonesian youth and young professionals (16-40 of age) who are expert in or are highly interested in working on the fields of Science, Engineering, Technology, or Innovation in disaster risk reduction are eligible to register as regular member of U-INSPIRE. Two basic steps to be a regular member are: (1) to fill in the online registration form; and (2) to be added in the U-INSPIRE WhatsApp group by the HR team. Upon their introduction in the Group, they will be given a "Member - Welcome Package" cloud drive folder, in order to familiarize with the platform, such as getting the list of members and their expertise or updates of activities. Members may join any working groups or projects based on their own interest/expertise. As of December 2019, a monthly orientation/introduction of U-INSPIRE is held for new members. U-INSPIRE member registration form: bit.ly/daftarinspire

Member Profile (December 7, 2019)



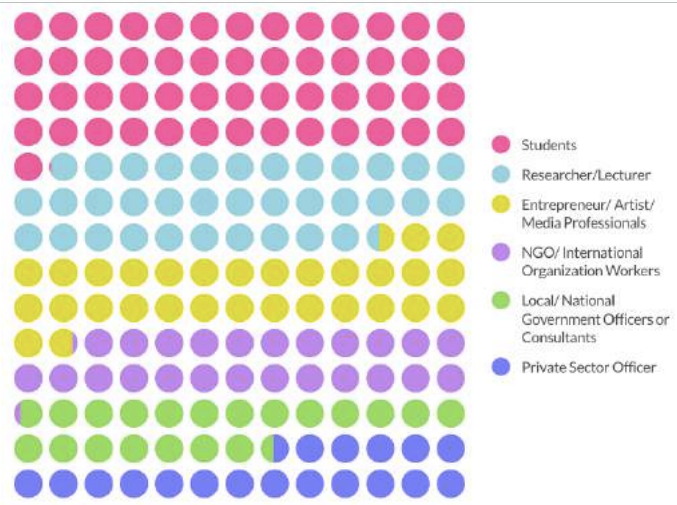
- Others (0)
- Bali, Gorontalo, Jambi, West Kalimantan, Maluku, South East Sulawesi (1)
- East Kalimantan, West Nusa Tenggara, Central Sulawesi (2)
- East Nusa Tenggara, North Sumatera (3)
- Riau, Lampung (5)
- Banten, West Sumatera (6)
- Aceh (7)
- East Java (9)
- Yogyakarta (11)
- Central Java (14)
- DKI Jakarta (45)
- West Java (77)

Notes: 8 member are in overseas

216 Members



Spread across 21 provinces and abroad



- Students
- Researcher/Lecturer
- Entrepreneur/ Artist/ Media Professionals
- NGO/ International Organization Workers
- Local/ National Government Officers or Consultants
- Private Sector Officer

Field of Expertise

Statistics 5	Public Policy, Social and Political Science 16	Communication and IT 19	Health, Psychology and Education 20
Mapping and Spatial Analysis 10	Disaster Risk and Emergency Management 18	Geoscience and Natural Sciences 57	
Business, Finance and Economy 10	Architecture, Urban and Rural Management 18		
Engineering 12	Climate, Biology and Environmental Risk 13	Arts, Design, Culture, Media and Journalism 18	

Running the Platform

U-INSPIRE is currently run by approximately 30 core team members. This team sets the direction of the platform, how the platform works, means of communication and management of members. Apart from regular online discussions, face-to-face coordination meetings are conducted, sometimes making use of moments where many members could gather, such as during major events.

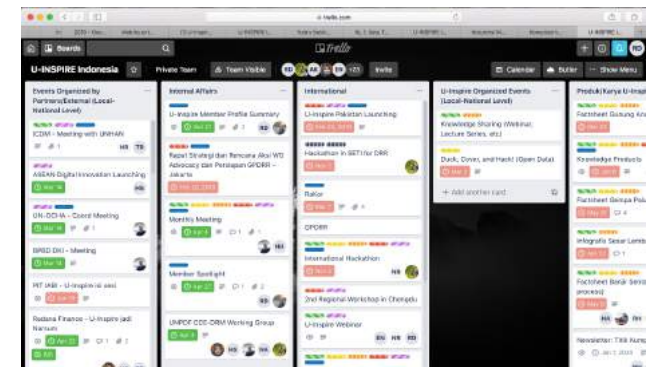


U-INSPIRE first Annual Coordination Meeting

The very first coordination meeting held after the U-INSPIRE launching was on the 5th of November 2018, followed by the second major meeting on 6-7 March 2019 – which was set as an annual coordination meeting. These two coordination meetings were important in setting up the programs and agreeing on how to operationalize them.

Although members are working on a voluntary basis, the Internal Affairs team ensures that the platform business is sustainable without no financial obstacles as well as without burdening the volunteers. Such efforts are done through building strategy for long-term partnership with other organizations and formulating grant proposal for funding support.

Since the U-INSPIRE WhatsApp group is formed by 200+ learners of DRR from various field of expertise, data and information shared in the group are rich. With the quickly changing topics in the group and other small group discussion done through WhatsApp, Skype, or Slack, all data and information are saved from the platforms and managed in a Google Drive and arranged in Trello to keep everyone updated. During most of the Skype meetings, Google Docs is used for collaborative note-taking.



1 **APA YANG HARUS KITA PERHATIKAN AGAR LEBIH SIAP SIAGA TERHADAP TSUNAMI?**

Berdasarkan Pengalaman Sebelumnya!

LETUSAN GUNUNG API DAN LONGSOR BAWAH LAUT SAKIT MERUPAKAN TSUNAMI

Infographic with a central circular diagram and surrounding icons illustrating the causes of tsunamis.

2 **BAGAIMANAKAH SISTEM PERINGATAN DINI DUNGUN API DAN TSUNAMI YANG DIGUNAKAN DI INDONESIA?**

Indonesia telah memiliki Sistem Peringatan Dini Tsunami (SPT) sejak tahun 2004, yang terdiri dari pemantauan gempa bumi, tsunami, dan SSIAG, serta menggunakan informasi tambahan seperti data SSIAG, data TV, Radio, Website, media sosial, dan SSIAG. Informasi tersebut akan diproses dengan sistem otomatis secara real-time, apabila dibutuhkan tindakan nyata akan akan dilakukan dengan cara memberikan informasi media massa.

Indonesia juga telah memiliki Sistem Peringatan Dini Gunung Api dan Krakatau melalui yang telah disertai oleh berbagai pihak, terutama dari masyarakat yang beraktivitas di sekitar Krakatau.

Infrastruktur sistem peringatan dini tsunami Indonesia telah beroperasi sejak Desember 2004, didukung oleh kemampuan pemrosesan data real-time, real-time monitoring.

ANAK KRAKATAU
 Anak Krakatau adalah anak gunung yang masih muda, hanya berusia sekitar 100 tahun, namun sangat aktif dan memiliki kemampuan yang sangat hebat. Anak Krakatau memiliki kemampuan yang sangat hebat, terutama dalam hal kemampuan memunculkan gelombang tsunami yang sangat tinggi.

Infrastruktur sistem peringatan dini tsunami Indonesia telah beroperasi sejak Desember 2004, didukung oleh kemampuan pemrosesan data real-time, real-time monitoring.

3 **APAKAH KALAU ANAK KRAKATAU MELETUS AKAN MEMILI KEKUATAN YANG SAMA SEPERTI TAHUN 1883?**

Fakta Gunung Anak Krakatau

- Fakta yang berkaitan di berbagai lokasi sekitar gunung ini yaitu gunung Krakatau yang memiliki status sebagai gunung berapi yang aktif dan memiliki ketinggian sekitar 1.017 meter di atas permukaan laut.
- Kecepatan aliran lava yang keluar dari gunung ini sangat tinggi, mencapai 100 meter per detik, dan dapat menimbulkan bahaya bagi penduduk di sekitarnya.
- Gunung ini memiliki 500 rumah penduduk di lerengnya, dan pada tahun 1987 gunung ini meletus di Indonesia dan banyak rumah-rumah penduduk hancur.

Dengan demikian diharapkan apabila Gunung Anak Krakatau meletus akan menimbulkan tsunami yang akan menimbulkan korban jiwa.

PRATIALERTAS ANAK KRAKATAU
 Pratalertasi Anak Krakatau adalah sistem peringatan dini yang akan memberikan informasi tentang aktivitas gunung ini.

Chapter 2 What We Did in 2019

1 **BAGAIMANA TSUNAMI BISA TERJADI?**

Langkah utama letusan Gunung Anak Krakatau yang menimbulkan tsunami

Infographic with a central circular diagram and surrounding icons illustrating the causes of tsunamis.

2 **DI PENGHujung tahun 2018, kita kembali dikagetkan dengan kejadian bencana Tsunami, Gelombang Tinggi, dan meningkatnya aktivitas Gunung Anak Krakatau (GAK) di Desa Sunda.**

Wilayah Banten dan Lampung sebenarnya sudah memiliki sejarah terkait gempa dan tsunami yang dahulu pernah terjadi, diantaranya pada tahun 415 dan 1883.

Hidup di negara rawan bencana, kita perlu lebih mengenal ancaman bencana di sekitar, meningkatkan kesiapsiagaan, dan meminimalkan dampak bencana yang mungkin terjadi.

3 **PERTANYAAN TERKAIT TSUNAMI DAN LETUSAN GUNUNG ANAK KRAKATAU 2018**

Infographic with a map of Indonesia and a circular diagram illustrating the location of Anak Krakatau.

Member Engagement

Why it matters?

U-INSPIRE members are our most valuable treasure. The diversity of members and smooth communication are key to generate innovations in DRR.

Every two weeks, newly signed-up members are added to U-INSPIRE online group, allowing them to start interacting with the existing members. A Welcome Package, which consists of basic data of the whole members and introduction of U-INSPIRE, is shared in the group each time new members are added. The new members are invited to join an orientation through Skype every month. As a token of appreciation to the member and to trigger collaboration among members, U-INSPIRE releases a monthly Member Spotlight poster of two selected members who have been active in U-INSPIRE as well as external SETI for DRR activities.

Since members are spread in different cities of Indonesia and abroad, the daily means of communication is WhatsApp. For a more focused and well-organized discussion on certain projects, the members use Slack chat or a scheduled RapWap (Rapat WhatsApp, meaning meeting through WhatsApp). The first RapWap was conducted during the determination of U-INSPIRE name, definition, and vision.

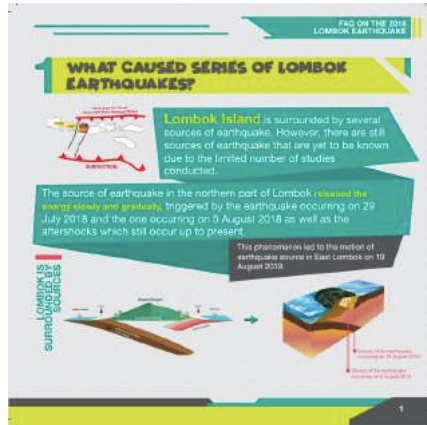


Sample Posters of Monthly Member Spotlight



Team Meeting (including through Skype) with UNESCO Jakarta

FAQs Infographics



An inside look of the 2018 Lombok Earthquake FAQs Infographics



FAQs Infographics on the 2018 Tsunami and Eruption of Anak Krakatau; and its Dissemination at the International Symposium on the Lessons from the 2018 Tsunami in Palu and Sunda Strait



On Flashfloods cases in several provinces in Indonesia



The head of NDMA, receiving U-INSPIRE's Infographics

What and why doing it?

- Answering frequently-asked questions both in the social media and on the field, or to clarify hoax news, triggered after an event or series of events of disaster.
- In many cases, infographics are used to illustrate phenomenon.
- The FAQ Factsheets' answers are results of consultation with relevant experts.
- Learning on how to communicate science in ways easier to understand by the public

Upcoming...

- Systematically test out this factsheets to our partners in select cities
- More factsheets on Central Sulawesi EQ-Tsunami-Liquefaction, DRR volunteers, and forest fire

Hackathon Series

Our Intentions

- Primarily aim to promote the importance of disaster data literacy and open data
- Inviting public from multidisciplinary background to collaborate in generating innovative solution based on data



Duck, Cover, and Hack, a mini-hackathon which aimed to repurpose or reengineer disaster data in Indonesia, celebrated the 2019 Open Data Day in Jakarta. It was made possible by the partnership with UN OCHA, UNESCO Jakarta Office, BNPB, BMKG, Ministry of Education and Culture, Seknas SPAB, ITB, MPBI, Pulse Lab Jakarta, Open Data Labs Jakarta, IYDRR, and BoxBreaker.

Shapefor Better Community: Geospatial Hackathon in October 2019 with a case study in Bandung Regency, which is exposed to a high flood risk and an earthquake risk. This event is funded by UNICEF, partnered with UNITAR, UNESCO Office Jakarta, the NDMA, West Java Province Disaster Management Agency, Bandung Regency Disaster Management Agency, Center for Earthquake Science and Technology – Research Center for Disaster Mitigation Institut Teknologi Bandung, ESRI Indonesia and local partners: Jaga Balai, Sky Volunteer, Geocreate and Barudak Baraya Cisangkuy Citarum (B2C2).

Currently the winning team is following up their plans and U-INSPIRE, along with the co-hosts, is conducting monitoring and coaching activities. More details on Shapefor Better Community: <http://uinspire.id/sbc2019>

Ask the Scientist: Video Documentary



Video documentaries on DRR were produced as part of research in disaster affected and disaster potential areas.



One of the videos, as seen on the left, highlights the role of youth in camp management in remote areas after the Lombok Earthquake Disaster in 2018.

The figures below are scene from the research with the Earhquake Engineering Research Institute (EERI) and ITB/Pusgen on the post disaster process of building back better in Central Sulawesi.



KulWap with IYDRR

What is Kulwap?

Online knowledge sharing has mostly been conducted in collaboration with the IYDRR, titled "KulWap" or Kuliah WhatsApp (meaning Lectures through WhatsApp). This is one way to reach wider audience without having physically attend in a certain city. The audience could participate in a structured, moderated discussion within two hours, and they could have the written records of the discussion afterwards.

IYDRR – U-INSPIRE's first KulWap was on Earthquake Indigenous Knowledge from Mentawai Island, presenting Rahma Hanifa and Neneng Susilawati, both from U-INSPIRE, who have researched about hazards and local wisdom in Mentawai.



The 2nd KulWap presented two U-INSPIRE members who were in Tokyo during the typhoon, Mizan and Fitrasha, a guest from BMKG, Mia Khusnul Khatimah, moderated by Dewinta from IYDRR and involved 160 registered participants. This kind of activity provides opportunity for wider audience to participate, not only those who live in particular city/area. Some highlighted statements from the speakers:

"Japan build this culture by holding these five key principles consistently: every child each year shall experience drill for fire, drill for earthquake and drill for other local risks, buildings are guaranteed safe by the government, and teachers hold responsible on student's safety. Students will graduate with this kind of culture. In Indonesia, if we can also build the culture of flag hoisting, that means we can also build the culture for disaster risk reduction" Mizan B.F. Bisri during KulWap on Typhoon Hagibis, 2019

"In Japan, for predicted hazard such as typhoon, usually the communities who live in remote areas are advised to evacuate earlier. Those who are unable to evacuate independently would be monitored and picked up by the officers." Rizqi Fitrasha during KulWap on Typhoon Hagibis, 2019

Disaster Archives Study Project



What is this about?

- A multi-sectoral project involving 10 institutions including U-INSPIRE, led by the NDMA, from May 2019 – December 2021
- Collecting past disaster events and history for future learning
- Building capacity of human resources in Indonesia on sciences related to disaster history in Indonesia
- Theoretical, empirical and modeling of disaster history interpretation with multidisciplinary approach
- Developing DRR action plans based on lessons from past disaster

U-INSPIRE's role in this project is compiling ideas from routine meetings of the study team, encyclopedia book writing, and documentary video development.

UAV for DRR

What is this about?

- U-INSPIRE, in partnership with Sky Volunteer, has been involved in data acquisition activities of the NDMA, particularly capturing spatial data by UAV (Unmanned Aerial Vehicle)
- This has been conducted in:
 - Resilient Village expedition along the south coast of Java (capturing for disaster mitigation)
 - Halmahera Earthquake (mapping in emergency response)
 - Ambon Earthquake (mapping in emergency response)
- The collaboration will continue to formulating Standard Operation Procedures of UAV in emergency response



Invited Speakers/Trainers

In Short..

- Thanks to the trust built with advisors, partners and U-INSPIRE's exposure to public through website, social media, exhibitions, etc – as well as U-INSPIRE members expertise in SETI for DRR;
- U-INSPIRE and its members have been invited as speakers, moderator, and trainers for about 20 times in 2019
- It's a gold opportunity to communicate science and risks to various elements of society



Giovanni was a selected Indonesian delegate for the 11th UNESCO Youth Forum. After the Forum, she joined the Volunteer Task Group to follow up on the establishment of Youth Community of Practice. She further invited by UNESCO to present about her works and U-INSPIRE in The Third International Workshop for DRR Knowledge Service, Beijing at the mid of December 2019.



Nurul Sri Rahatiningtyas at the event by BPPT Women's Empowerment Group



Fajar at the International Workshop on Models for Multinational Collaboration on Disaster Risk Reduction, held by IDMR, Sichuan University, Chengdu, China

Septian Firmansyah at the Annual Scientific Meeting on Disaster Research 2019



Invited Speakers/Trainers

At public spaces



Rahma Hanifa on Lembang Fault at Idea Talk in Bandung with youths and general public



Hanif Sulaeman as Keynote Speakers on Multidisciplinary Collaboration in Disaster Risk Reduction, in Bekasi



Lessons learned by Hanif Sulaeman from his paleotsunami expedition and Tinitis Rinowati on her Tsunami Resilient Village expedition.

Other Activities as Invited Speakers/Trainers

No	Activities	Host
1	National Seminar on Bela Negara: Understanding Disaster	University of Indonesia, West Java
2	Information Management to Reduce Disaster Risk: Resilient without Hoax	Bima, West Nusa Tenggara
3	Series of Expert Discussions on Palu Earthquake and Guest Lecture: Learning from Earthquakes and Experts Panel	DKI Jakarta and hosted by Institute Technology of Bandung, West Java
4	Save the Children Regional Leader Team Meeting	DKI Jakarta
5	Business and Community Resilience Co-creation and Conference	UNICEF and Swedish Embassy DKI Jakarta
6	Disaster Talks	Rumah Zakat, Bandung, West Java
7	National Jamboree on Disaster Management Volunteers	NDMA, Bangka Belitung Province
8	Kartini Day (related to Women's Empowerment)	Radana Finance, DKI Jakarta
9	ASEAN Safe School Initiatives Webinar	Webinar by ASSI



Meliza Rafdiana shared about disaster literacy on air with RRI, the Indonesia National Radio.

Branding and Knowledge Product Dissemination

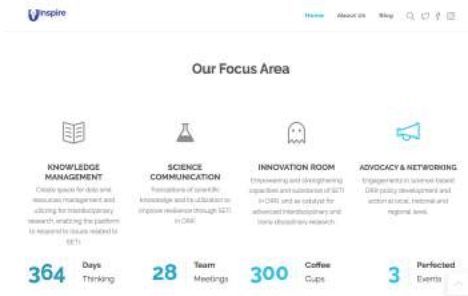
U-INSPIRE disseminates its profile and knowledge products, including those of its partners, through several channels, namely exhibitions, website, and social media (instagram, facebook, linkedin).

Exhibition

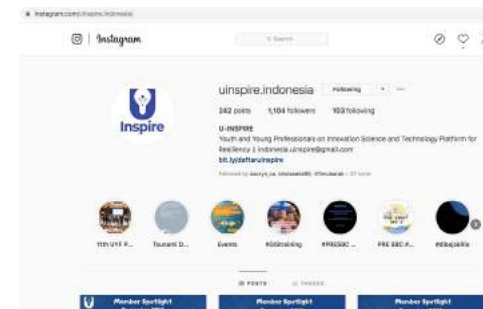


In 2019, U-INSPIRE has been invited to set up its booth at the following exhibitions: Papua Summit by Bappenas, International Symposium on Tsunami by UNESCO, the Annual Research Scientific Meeting by NDMA and IABI, and A Kartini Event by Radana Finance.

Website (uinspire.id)



Instagram



Advocacy and Networking

Advocacy and networking are quite central to U-INSPIRE, since one of its principles is to tear down walls and build bridges between potential actors of disaster risk reduction. U-INSPIRE has pursued networking activities in line with all activities mentioned in this chapter, as well as doing advocacy to various other institutions at the global, national, and sub national level.

At national level, after supporting a number of SETI activities with the NDMA, U-INSPIRE is regarded as a hub of youth and young professionals that could be relied upon in terms of SETI for DRR. Our team has also been involved in reviewing the Safe School Program 2015-2019. At sub-national level, we have provided inputs for the drafts of Governor Regulation on Safe School Secretariat in three provinces, namely DKI Jakarta, West Java, and Banten. In West Java, a couple of members are involved in formulating the Resilient West Java Blueprint. This page shows pictures illustrating networking and advocacy activities at the global level.



With fellows from other countries at the Ignite Stage of GPDRR, presenting "Humanizing Science through SETI for DRR: The Untold Story from Indonesia, Pakistan and Beyond"

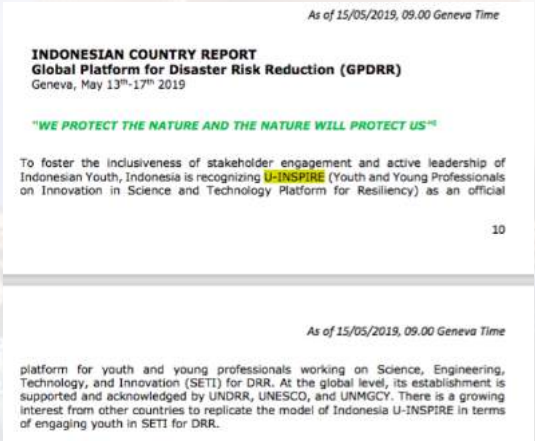


Presenting at the SEADPRI UKM, Kuala Lumpur, Malaysia



After Presenting at the World Bosai Forum, Japan

U-INSPIRE is currently recognized by the National Disaster Management Agency as official platform for youth and young professionals for DRR as written in Indonesia country report that was brought to 2019 GPDRR.



Jakarta Declaration: The Birth of U-INSPIRE Alliance

Within less than a year, the idea of this platform has spread to a number of countries in Asia, marked by the launching of U-INSPIRE in the following countries: Pakistan, Central Asia (by the name of DACRYN), Nepal, Malaysia, The Philippines, India (by the name of CRRP), and Afghanistan.

The U-INSPIREs in all countries are all connected, and, with the facilitation of UNESCO Jakarta during the Science to Empower and Enable SDGs in Asia and Pacific (SEEAP) on the 20th of September 2019, U-INSPIRE Alliance was initiated. The commitment of U-INSPIRE Alliance was written under the Jakarta Declaration: Formation of Asia and the Pacific Youth and Young Professionals Alliance in SETI for DRR. Currently more countries are starting to form their U-INSPIRE-like platform, such as Japan and Vietnam. During this event, the YYP SETI for DRR toolkit was also consolidated.



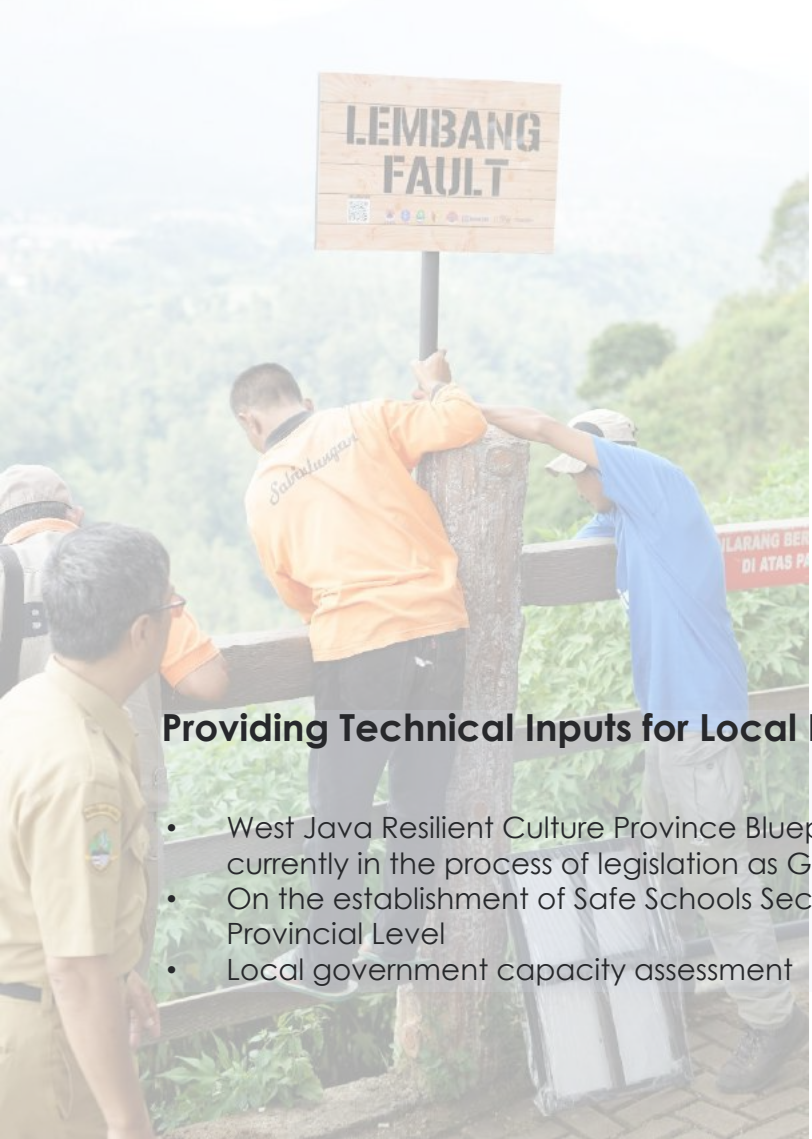
Signing the Jakarta Declaration



U-INSPIRE Alliance Infographics by Giovanni

U-INSPIRE in West Java

More than 1/3 of U-INSPIRE members live in West Java.



Providing Technical Inputs for Local Policy

- West Java Resilient Culture Province Blueprint, which is currently in the process of legislation as Governor Regulation
- On the establishment of Safe Schools Secretariat at Provincial Level
- Local government capacity assessment

Building Resilience in Karyawangi Village, Bandung

- Disaster mitigation education around Lembang Faults through impact travel experience (Nov 2019- Apr 2020)
- Formulating training module for local youth, women's group, schools, and tourism actors
- Participatory mapping on earthquake risk and evacuation route
- Installing signage of assembly points and evacuation route
- Earthquake simulation

Aan Anugrah at the Disaster Mitigation Education to Local People in Lembang Fault through Impact Travel Experience 2019-2020 with Wanderlust and Geotour. Desa Karyawangi, Kab Bandung Barat



U-INSPIRE with the Governor of West Java, Ridwan Kamil



U-INSPIRE in Other Provinces

U-INSPIRE members in other provinces who are not part of the core driving team are encouraged to initiate activities or to connect their organizations with U-INSPIRE. While doing U-INSPIRE activities in different cities/provinces, we also work with local members.

In Ngawi, East Java, we mainly collaborate with Egrang, a Story Telling Community. Our member, Aria Kusuma, is the co-founder of Egrang Community.

Collaborative works include:

1. Speakers for Ngawi Children Festival on Safety
2. Training of trainers on disaster education game



ToT for Disaster Education Activities
in Ngawi, East Java

In Palu, Central Sulawesi, we mainly collaborate with Forum Sudut Pandang, where Rahmadiyah, one of our members, is the director.

Collaborative works include:

1. Collecting Frequently-asked Questions on the field following an earthquake-tsunami-liquefaction event in Central Sulawesi, to feed U-INSPIRE's FAQ Factsheet
2. Facilitating research with the Earthquake Engineering Research Institute (EERI) and ITB/Pusgen on the post disaster process of building back better, particularly on the displaced people management.



Chapter 3 Reflections

 Inspire

This chapter summarized reflections on the process of U-INSPIRE development and impacts felt by the core team and the members. Reflections were provided by the managing core team during meetings based on their roles in U-INSPIRE. An online survey was conducted to 48 members, most of whom have become part of U-INSPIRE for more than six months, who voluntarily filled in a questionnaire in September – October 2019.

Based on the survey, the average score of perceived achievement of U-INSPIRE moving in the correct direction towards its vision was 7.5 (out of 10 as highest score). Recall U-INSPIRE vision in Chapter 1.

Within the first year, we set up this platform by creating and exercising a system where the members could become the generator of SETI for DRR innovations. We set Disaster Literacy as priority mission of the year 2019. The flagship activities done under this mission were the FAQs Infographics and Hackathon Series. Another flagship activity, the Global YYP SETI for DRR Champion Camp, was set to be conducted in 2020, so 2019 should be the preparatory year. All Working Groups, including the Internal Affairs supported the flagship activities according to its respective core business. Aside from the flagship activities, there are many other activities, both planned regular activities and incidental activities.

Has U-INSPIRE achieved its Disaster Literacy missions?

Partly, yes. Through FAQs Infographics, members have exercised science communication product co-creation, which was also made possible by knowledge management and networking. This knowledge product itself is an innovation.

However, with the intention of answering frequently asked questions triggered by certain disaster events and fighting hoaxes, the product creation process which took 6-8 months could not catch up the 'moment' anymore. The working team might need to be expanded for such science communication exercise and more proactive (rather than reactive) topics need to be considered.

More than half of the U-INSPIRE's recorded activities in 2019 are related to knowledge sharing and science communication. Mostly were done through seminar, training, workshop, and exhibition activities. The audience vary from university students, government officials, women's group, company employees, to scientists and professionals in disaster risk reduction and general public.

U-INSPIRE's two hackathons intended to create space for public from multidisciplinary background to co-create innovation in SETI for DRR. These events triggered only the initial stage of forming of the ecosystem to create innovations. The mission to popularize DRR innovations to Generation XYZ has not been achieved. For the next step, we expect to build the IoT infrastructure, to empower youth in this mission, and to improve disaster data quality, as these were the main gaps found during the hackathons.

Management Challenges

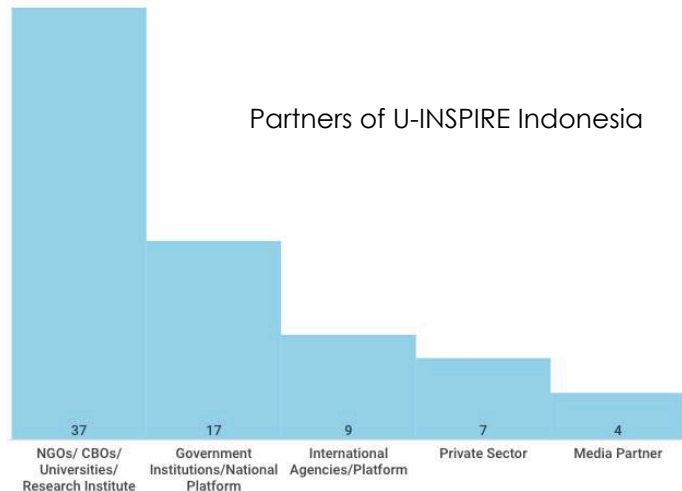
1. The large age gap, from 16 to 40. Better strategy to include younger age members is needed;
2. Data and information management. To establish a hub for all data and information circulating within U-INSPIRE, a friendly system (platform) and dedicated person to maintain the system are needed. For now we have the platform but very slow on updating the information.

Breaking Down Silos, Expanding Influence

Since U-INSPIRE was just launched one year ago, ensuring DRR-related stakeholders recognize U-INSPIRE's existence was one of the very first main steps to be focused on – which we think was the right thing to do. The diversity of our members, in terms of their affiliations, has been helpful in reaching out to potential partners. We target key persons working on DRR at different organizations.

Efforts in networking and advocacy within this 1+ year has led to results that exceeded our expectation. Continuous support from the advisors, core team and U-INSPIRE partners have been the key factors of success in networking and advocacy.

As one of the results, U-INSPIRE is currently recognized by the National Disaster Management Agency as official platform for youth and young professionals for DRR as written in Indonesia country report that was brought to 2019 GPDRR. The NDMA recognizes U-INSPIRE as a platform where they can rely on when it comes to SETI for DRR and youth empowerment. Inputs from young scientists and professionals are now better heard. The NDMA and U-INSPIRE are now collaborating in several projects at national level, such as the past disaster archiving, formulating the Standard Operation Procedures for rapid assessment in disaster using UAV, and the Safe Schools Program.



U-INSPIRE (Indonesia) partners have grown to 9 international agencies, 17 government/ national institutions, 38 NGOs/ CBOs/ universities/ research institutes, 7 private sectors and 4 media partners, in December 2019.

It is a promising sign that strategic stakeholders at different levels and sectors are buying in to collaborate and fill the gaps together in DRR. Trust given by the strategic partners is the main key ingredients for U-INSPIRE to be recognized more widely and heard.

Breaking Down Silos, Expanding Influence

U-INSPIRE's Influence to Member

U-INSPIRE has changed the member's life positively with the median score of 8 out of 10. The top reasons are because U-INSPIRE has provided most recent knowledge, access to wide disaster risk reduction networks and has increased their motivation.

U-INSPIRE's Influence to Other Countries

Other countries are buying in the idea and spirit of creating such platform, that currently U-INSPIRE has been launched in 7 countries/region outside Indonesia and U-INSPIRE Alliance is established as the regional umbrella platform.

U-INSPIRE's Influence to Member's Affiliated Institution:

1. Exposure of my organization is increased, and therefore partnership is also increased (e.g. Indonesian Youth for Disaster Risk Reduction, and Sky Volunteer, a start up on UAV for DRR);
2. DRR contents/materials to be used by my organization are enriched (e.g. Radio Republik Indonesia, siagabencana.com)
3. Since U-INSPIRE's programs (contents, know-hows) are science-based, our organizations became challenged to create better modules and learning media (e.g. Kidzsmile Foundation, SafeKids Indonesia, Pahlawan Bencana)
4. Inspired by its youth style of collaborating (e.g. NDMA, AHA Center)
5. Policy-making is now more science-based (e.g. Safe Schools Program)
6. More ideas for research topics, due to up-to-date information on DRR in U-INSPIRE group (e.g. Ministry of Public Works and Housing)

How Activities were Linked with the S & T Roadmap for the Implementation of Sendai Framework for DRR 2015-2019?

28/58	Outcome 1: Assess and update data and knowledge	Outcome 2: Dissemination	Outcome 3: Monitoring and review	Outcome 4: Capacity Building
<p>Priority 1: Understanding Risk</p>	<p>1.1.1 Promote integrated and multi disciplinary research : Knowledge Management, Bandaneira, Sesar Lembang, Arsip Bencana project</p> <p>1.1.2 Conduct solution-driven research at all levels that involves the users in the earliest stages</p> <p>1.1.3 Establish/link existing and update/ maintain global databases</p> <p>1.1.4 Develop methods, models, scenarios and tools</p> <p>1.1.5 Integrate risk assessments across sectors</p> <p>1.1.6 Promote scientific focus on disaster risk root causes, emerging risks and public health threats, insurance and social protection and safety nets</p> <p>1.1.7 Analyse ethics of scientific input</p> <p>1.1.8 Adopt a multi-hazard approach that integrates lessons learned, including trans-boundary, biological and technological and Natech hazards</p>	<p>1.2.1 Develop evidence-based research on effective dissemination strategies for informed decision and policy making.</p> <p>1.2.2 Promote access to data, information and technology : Innovation Room, Cari Bencana by Mizan, Science Communication</p> <p>1.2.3 Integrate traditional, indigenous and local knowledge and practices : EDT, Sesar Lembang, Arsip Bencana</p> <p>1.2.4 Develop partnerships between all S&T and DRR stakeholders, and integrate gender equality: Factsheet, Kulwap</p>	<p>1.3.1 Link Science and Technology progress to Sendai Monitoring indicators, and report using online voluntary commitment system: already applied</p> <p>1.3.2 Promote coherence in data collection and M&E indicators with SDGs and Paris Agreement</p> <p>1.3.3 Develop a liaison group between the DRR community and the major global assessments, such as IPCC 6th Assessment Report and other related assessment.</p>	<p>1.4.1 Build national and local capacities for the design, implementation and improvement of DRR plans</p> <p>1.4.2 Promote inclusiveness, interdisciplinary, and inter generational participatory approaches</p> <p>1.4.3 Develop expertise and personnel to use data, information and technology</p> <p>1.4.4 Promote the development and use of standards and protocols, including certifications</p> <p>1.4.5 Utilize knowledge resources of S&T community for effective education programs on disaster risk reduction for scientists, practitioners and communities : TOT, TOF</p> <p>1.4.6 Promote systems approaches in understanding disaster for better informed decision: Hackathon</p>
<p>Priority 2: Strengthening Disaster Risk Governance to Manage Disaster Risk</p>	<p>2.1.1 Consider root causes of risk and inputs from traditional knowledge for decision-making: Disaster Archives Study Project</p> <p>2.1.2 Promote disaster risk assessment in spatial planning and development both in public and private sectors and increase participation of civil society for this process</p> <p>2.1.3 Integrate climate change adaptation & DRR and other relevant sectors (such as well-being, environment, health, economy, etc.) in governance mechanism</p> <p>2.1.4 Develop flexible governance system to adapt to emerging risks and climate change</p> <p>2.1.5 Promote the assessment of ecosystem-based development options</p>	<p>2.2.1 Promote dialogue and networking on DRR between scientists, academia, policy makers, civil society, media, business and private sectors at regional, national and sub national level: U-INSPIRE, U-INSPIRE Alliance, Advocacy</p> <p>2.2.2 Raise scientific awareness and improve understanding: Knowledge Dissemination, Kulwap, Factsheet</p> <p>2.2.3 Establish an understandable, practical, evidence based scientific knowledge is needed for all actors: Factsheet</p> <p>2.2.4 Improve access to data on DRR generated by international organizations, S&T communities, governments and different levels and stakeholders: Repository Alternatif data Bencana</p>	<p>2.3.1 Strengthen the engagement of S&T in national coordination and promote sub-national implementation: SPAB, Jabar Resilience Culture Project</p> <p>2.3.2 Promote disaster risk assessment in planning and development</p> <p>2.3.3 Promote participatory monitoring mechanism involving civil society organization and local communities</p>	<p>2.4.1 Promote dialogue and networking on DRR between scientists and policy-makers, civil society and business: Hackathon pertama, Paskal</p> <p>2.4.2 Raise scientific awareness and improve understanding, considering future risk: EDT</p>

How Activities were Linked with the S & T Roadmap for the Implementation of Sendai Framework for DRR 2015-2019?

	Outcome 1: Assess and update data and knowledge	Outcome 2: Dissemination	Outcome 3: Monitoring and review	Outcome 4: Capacity Building
Priority 3: Investing in Disaster Risk Reduction for Resilience	<p>3.1.1 Assess & update the status of mainstreaming science & technology in DRR</p> <p>3.1.2 Provide funding for science & technology in DRR to enhance knowledge, research, technology transfer</p> <p>3.1.3 Assess the impact of investment of S&T in DRR</p> <p>3.1.4 Include scientists of all disciplines in analyzing investment in DRR as well as climate change adaptation, including loss and damages</p> <p>3.1.5 Conduct research, develop tools, explore challenges in S&T in DRR</p> <p>Wifi aktif saat bencana, innovation room (outcome 1)</p>	<p>3.2.1 Promote various means of science communication for decision-making & policy makers : Science Communication, Fact Sheet</p> <p>3.2.2 Promote changing roles of science and reflective practices of implementation that will contribute to the effectiveness of disaster risk reduction: Lesson Learn</p>	<p>3.3.1 Monitor science & technology investment in DRR as an integral part of national plan & policies: merupiahkan/evaluation uinspire value IDR</p> <p>3.3.2 Collect information on voluntary evaluation of S&T investment achievements periodically in collaboration with S&T partners: YYP S-T Contribution report</p> <p>3.3.3 Support innovations in earth observation and geospatial data for risk profiling and decision making: Sky Volunteer, Next Hackathon</p>	<p>3.4.1 Encourage & enhance capacity of stakeholders in DRR to increase investment in science & technology: Advocacy</p>
Priority 4: Enhancing Disaster Preparedness for Effective Response	<p>4.1.1 Promote multi hazards early warning systems with improved climate information, aerial and spatial data, emergency response services and communication to end users: infrastruktur dan sensor berbasis masyarakat</p> <p>4.1.2: Develop and share best practices in new threat and risks (including infectious diseases) to inform preparedness planning</p> <p>4.1.3 Identify, collect and analyze case studies and assess options to strengthen recovery and rebuilding efforts: UAV for DRR, cerita sukses recover dg cara sendiri (local), recovery SPAB</p> <p>4.1.4 Collaborate with the humanitarian community in exploring best practice for survivor led response and reconstruction: unicef two way comm</p>	<p>4.2.1 Develop, disseminate information and practices on contingency planning and protection of critical infrastructure including the promotion of build back better approach in recovery, rehabilitation and reconstruction</p> <p>4.2.2 Inform national disaster risk reduction plans and strategies that focus on community preparedness and awareness, including the needs of women, children, people living with a disability and the elderly in vulnerable situations</p> <p>4.2.3 Review and share build back better indicators among the relevant stakeholders</p>	<p>4.3.1 Identify and address the need for, and gaps in, early warning systems in the least developed countries and the small island developing states: Pengembangan aplikasi HEPI melalui SBC, Pengembangan aplikasi HEPI melalui SBC com, Pulau2 kecil</p> <p>4.3.2 incorporate build back better in insurance policies</p>	<p>4.4.1 Institutionalize effective recovery and reconstruction as strategies to reduce risk and promote resilient developments.</p> <p>4.4.2 Promote science based decision making for resettlement processes.</p> <p>4.4.3 Generate and utilize scientific information to gain prior public consensus on post disaster actions and to enable their smooth implementation after a disaster</p>



(SETI) untuk Pengurangan Resiko Bencana (PRB)

Indonesia adalah negeri rawan bencana, maka kami atas nama pem
dan profesional muda berkomitmen untuk:

1. Menciptakan ruang untuk pengelolaan dan pemanfaatan data d
sumber data bagi penelitian interdisipliner dan trans-disiplin
Menembu platform dalam respon permasalahan yang kaitan

Annexes

Annex 2 Members' Aspirations based on Survey

Activities

1. More regular activities, such as learning sessions (e.g. sharing session, webinar)
2. More activities that can trigger collaboration (e.g. action research, academic paper writing, creating SETI-based products)

Outreach and Empowerment

1. Member's meetings (annual meeting, regional meeting)
2. Meeting in weekends for those who work with regular working hours in the office
3. More open and informative to all members
4. Empowering members who still hesitant to speak up, youth, and those who live outside of Jakarta/West Java (e.g. gathering outside Java, create chapters)
5. Capacity building for members

Management

1. More organized and systematic management works
2. Monthly agenda reminder
3. Secretariat/ office
4. Honorarium for managers
5. Membership card

Promotion

1. Show data of core managing team and members in website
2. Annual bulletin
3. Create LinkedIn official page

Contribution

1. Supporting the government in policy implementation
2. Empowering community women's group or community leaders for disaster preparedness at family level
3. Increase dissemination and disaster literacy

Annex 3 U-INSPIRE Partners

NGOs/ CBOs/ Universities/ Research Institute

1. Institut Teknologi Bandung
2. Universitas Indonesia
3. TDRMC – Universitas Syiah Kuala
4. Universitas Pertahanan
5. Institute for Disaster Management and Reconstruction
6. Sichuan University, Chengdu, China
7. Pusat Studi Gempa Bumi Nasional (PUSGEN)
8. Humanitarian Forum Indonesia
9. Konsorsium Pendidikan Bencana Indonesia
10. Masyarakat Penanggulangan Bencana Indonesia
11. Ikatan Ahli Bencana Indonesia
12. National Platform for DRR
13. Charles Darwin University
14. Plan Indonesia
15. Save The Children
16. Kerlip
17. KIDSZSMILE
18. COMMUNICATE ID
19. Indonesian Association of Geologists
20. Pulse Lab Jakarta
21. REPDEMAN
22. Wanderlust
23. Jaga Balai
24. Petabencana.id
25. Humanitarian Open Streetmap
26. Open Data Lab Jakarta
27. IATSI
28. University Forum for DRR
29. Resimen Mahasiswa Universitas Indonesia
30. Islamic Relief Worldwide
31. EERI – Earthquake Engineering Research Institute
32. National Zakat Agency (BAZNAS)
33. IYDRR
34. Rumah Zakat
35. Center for Earthquake Science and Technology (CEST)
36. Masyarakat Pernikahan Nusantara (Manassa)
37. Mercy Corps
38. Egrang

Private Sector

1. Box breaker
2. Predikt
3. Samsung
4. Sinersia
5. Radana Finance
6. Geospatial Creative Institute
7. ESRI

Media Partner

1. Radio Republik Indonesia / RRI
2. Siaga bencana.com
3. Kompas TV
4. Katadata.co.id

Government Institutions/ National Platform

1. National Disaster Management Agency
2. Meteorological, Climatological and Geophysical Agency
3. Geospatial Information Agency
4. Ministry of Education and Culture Republic of Indonesia
5. Ministry of Research and Technology National Agency for Research and Innovation
6. Indonesian Institute of Sciences
7. Agency for the Assessment and Application of Technology
8. Ministry of National Development Planning/National Development Planning Agency
9. Ministry of Marine Affairs and Fisheries
10. Ministry of Public Works and Housing
11. Safe School National Secretariat
12. Local Disaster Management Agencies
13. National Scout Council
14. National Library
15. National Archives of Republic Indonesia
16. PVMBG

International Agencies/ Platform

1. UNICEF
2. UNOCHA
3. UNESCO
4. UNDRR, including AAPSTAG, STAG, ASSTAG
5. ASEAN Safe School Initiatives
6. USAID (TATTS)
7. AHA CENTER
8. UNMGCY
9. UNITAR