**ASIA-PACIFIC GEOSPATIAL FORUM**

**BALI, 6 – 10 November 2023**

# Concept Note

# Background

Asia-Pacific Geospatial Forum (APGF) has become one of the arenas for geospatial information actors and users to meet and share experiences, skills, innovations, and future directions. This forum mainly supports the United Nations Global Geospatial Information Management for Asia and The Pacific (UN-GGIM-AP) member countries, national geospatial agencies, geospatial industry and community to come in one place in Bali, Indonesia.

Bali has become a center of tourism excellence for all nations for more than decades, this is also a great moment to come after the great world pandemic of COVID-19. Thus, Indonesia has become a permanent UN-GGIM-AP member and the host country for APGF in 2023. The occasion in early November 2023 is perfect timing to gather near the end of 2023 and project a new resolution for 2024.

# Goals

The theme of APGF 2023 is **“Embracing Geospatial Innovation for Sustainable World”**. This forum enables all the geospatial practitioners in the global and especially Asia-Pacific to share their innovations in geospatial information related to global initiatives for a sustainable world. Another goal is to collaborate with the UN-GGIM-AP, UNGEGN, UNSD, and others to elaborate the development of geospatial Information globally.

# Events

1. **International Seminar on Geo-Innovation for a Safe and Sustainable World**

*Background*

The emerging geospatial technology is driving today's decision-making process related to socio-economic and environmental issues. It also promotes opportunities for innovation and creativity that help governments quickly bridge the digital divide. Geospatial innovation (Geo-Innovation) will enable governments, businesses, and communities to be far more agile in transforming and scaling up capability than in the recent past. Therefore, this seminar is necessary to stimulate the use of the latest technologies, processes and innovations in a way that leaves no one behind.

*Goals*

* Realizing the benefits and efficiencies of geospatial innovation for sustainable development and digital transformation, and;
* Sharing knowledge and experiences among UN-GGIM-AP member countries in creating and implementing an innovation ecosystem.

*Programs*

The international seminar is divided into 5 sessions in two days with the theme of each session as follows:

* Keynote Speech
* Session 1 – Unlocking the potential of geospatial innovation
* Session 2 – Enabling geospatial solutions for sustainable cities
* Session 3 – Innovation for effective land administration
* Session 4 – Building geospatial innovation ecosystem

*Invited Speakers*

* Minister of National Development Planning/National Development Planning Agency (BAPPENAS) Republic of Indonesia,
* Chairman of Geospatial Information Agency (BIG) Republic of Indonesia,
* President of UN-GGIM Regional Committees (Asia and the Pacific, Americas, Arab States, Europe, Africa)
* Director of UN Statistical Division
* Governor of Bali Province
* UN-GGIM-AP member countries

The seminar is expected to be attended by 300 participants in two days from:

* UN-GGIM-AP member countries and other regional
* State and Local Government Agencies
* Academic Institutions
* Private Sectors
* Geospatial information community

1. **Bhumandala Award**

The Bhumandala Award is a gesture of appreciation and recognition bestowed upon ministries, institutions, and local governments that have excelled in the development and implementation of geospatial information usage.

The concept of ‘Bhumandala’ finds its roots in Hindu philosophy, signifying the profound unity between humanity and the universe. This award draws inspiration from this concept, honoring individuals, and organizations for their active roles in environmental protection and nurturing, as a testament to the interconnectedness of humanity and the natural world.

The Bhumandala Award serves as an expression of appreciation, with the primary aim of inspiring and motivating more individuals to contribute to the preservation of nature and the environment, thus upholding the sustainability of our planet.

1. **Geodetic Reference Frames and Applications for Disaster Workshop**

*Background*

Geodetic Reference Frames and their dynamics are underpinning infrastructure to map and monitor changes in the Earth, climate change and related geohazards. This workshop focused on geodetic capacity development on these vital products of geodesy by sharing expertise, knowledge and experiences among countries and related stakeholders. The event is co-organized by the Regional Committee of the United Nations Global Geospatial Information Management for Asia and the Pacific (UN-GGIM-AP), the International Association of Geodesy (IAG), the International Federation of Surveyors (FIG), and the Geospatial Information Agency of Indonesia (BIG).

The primary focus of this event is geodetic reference frames, their dynamics, and the application of geodesy in disaster risk reduction especially for GNSS early tsunami warning systems. Another key topic of the workshop is the Global Geodesy Needs Assessment by the United Nations Subcommittee on Geodesy and the Global Geodetic Center of Excellence. An open discussion on this challenge is planned during one of the sessions.

This workshop is an integral part of the Asia Pacific Geospatial Forum and will be held concurrently with the UN-GGIM-AP 12th Plenary meeting. Participants will soon be able to register for this event through the conference website (I will provide the URL if it becomes available before the deadline). We eagerly anticipate your presence in the beautiful setting of Bali.

*Goals*

* Sharing knowledge and experiences among participants in implementing geodetic reference frames in active regions
* Sharing knowledge and experiences among participants utilizing geodetic infrastructure for geohazard
* Mapping needs of countries and stakeholders for geodetic infrastructure through open discussion

Programs

* Welcome Remarks
* Session 1 – Geodetic Reference Frame and Its Dynamics
* Session 2 – Geodesy Application for Disasters (Tsunami Early Warning System)
* Session 3 – Geodetic Capacity Development
* Session 4 – The Global Geodesy Development Plan

1. **Integrated Geospatial Information Framework (IGIF) Workshop**

*Background*

The United Nations Integrated Geospatial Information Framework (IGIF) was adopted by the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) to serve as the foundation and mechanism for enhancing national geospatial information management structures. IGIF serves as a comprehensive guide for all UN-GGIM activities and aims to bolster the national capacities required to effectively oversee geospatial resources. Its overarching goal is to modernize national geospatial information management systems in all countries.

This workshop is designed to support the implementation of IGIF in the Asia Pacific region and to facilitate the development of country-level Action Plans for UN-GGIM-AP member countries.

*Goals*

* Sharing the current status of IGIF implementation (strategic pathways) in each UN-GGIM-AP member country.
* Enhancing knowledge and applying the UN Approach to develop country-level Action Plans.

*Programs*

* Session 1 – Welcome remarks
* Session 2 – Global perspectives for the implementation of UN-IGIF
* Session 3 – Sharing session of UN-GGIM-AP member countries in implementing IGIF

*Invited Speakers*

* President of UN-GGIM Regional Committees (Asia and the Pacific, Americas, Arab States, Europe, Africa)
* High Level Group (HLG) IGIF
* UN Inter-Regional Advisor

UN-GGIM-AP Member Countries

1. **12th Plenary Meeting of UN-GGIM-AP**

This annual meeting is placed in Bali for 2023. The meeting will invite delegates from the member countries, technical advisers, and invited observers to come together to discuss issues relevant to geospatial information management in the Asia-Pacific region for upcoming years.

1. **1st UN-GGIM INTER-REGIONAL COMMITTEE MEETING**

Indonesia has become the first agenda for the UN-GGIM Inter-Regional Committee Meeting. This meeting will be attended by five presidents of UN-GGIM Regional, Asia and the Pacific, Arab, Africa, Europe, and America. This initial meeting drives deliberation of the common interest of each Regional Committees and suggests resolutions for global initiatives for intuitive geospatial response.

1. **Technical Visit**

We will invite all the guests to join us for a technical visit to Bali and enjoy the hospitality of Bali Tourism.

# Venue

This APGF 2023 event will be held at Discovery Kartika Plaza Hotel, Kuta, Bali, Indonesia from November 6th – 10th, 2023. The detailed address of the hotel:

Discovery Kartika Plaza Hotel, Jalan Kartika Plaza, South Kuta Beach 80361, Bali, Indonesia

<https://goo.gl/maps/FbswvHA4FP5dYrhN7>

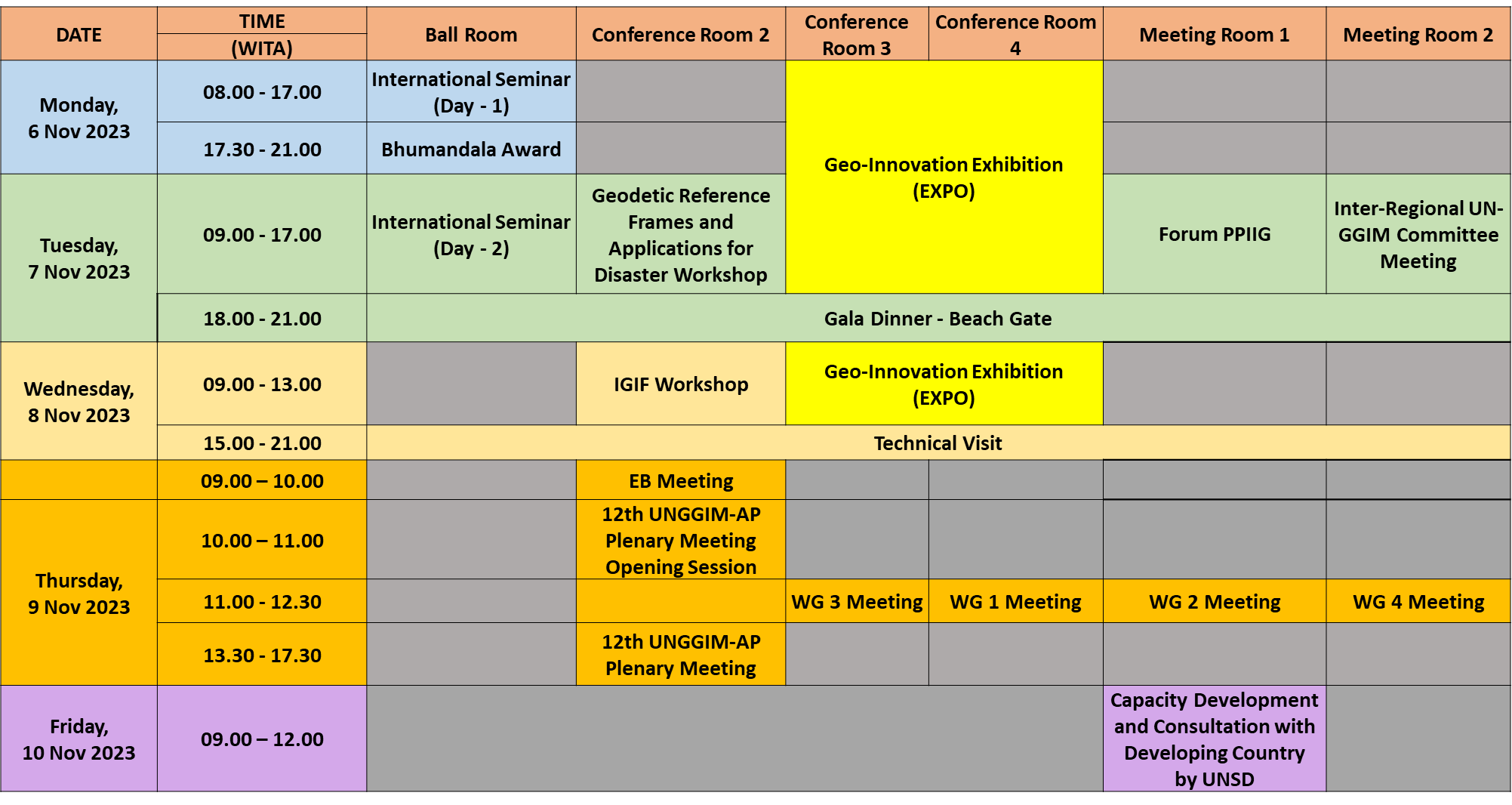
Reservation for the hotel can be accessed from the website:

<https://apgf2023.id>/

or directly to the Hotel Website:

<https://www.discoverykartikaplaza.com/>

# APGF AGENDA



# APGF Schedules

## **Day 1, Monday, November 6th, 2023**

### **A. International Seminar on Geo-Innovation for a Save and Sustainable World - Day 1**

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| **TIME** | **SESSION** | **THEME/SUBJECT** | **SPEAKER/PIC** |
| **(WITA)** |
| 08.00 – 08.45 | Registration | | |
| 08.45 – 08.50 | **Opening Remarks** | Introduction of APGF 2023 | Dr. Antonius B. Wijanarto – President of UN-GGIM-AP |
| 08.50 – 09.30 | 1. S.M. Mahendra Jaya – Acting Governor of Bali Province | |
| 1. Prof. Muh Aris Marfai – Chairman of BIG | |
| 1. [Air Chief Marshal](https://en.wikipedia.org/wiki/Air_Chief_Marshal) (Ret.) Hadi Tjahjanto – Minister of Agrarian Affairs and Spatial Planning/Head of the National Land Agency | |
| 09.30 – 10.00 | **Joint Opening of APGF, Opening EXPO &**  **Press Conference** | | 1. S.M. Mahendra Jaya – Acting Governor of Bali Province 2. Prof. Muh Aris Marfai – Chairman of BIG 3. [Air Chief Marshal](https://en.wikipedia.org/wiki/Air_Chief_Marshal) (Ret.) Hadi Tjahjanto – Minister of ATR/BPN 4. Dr. Antonius B. Wijanarto – President of UN-GGIM-AP 5. Ms. Wenli Feng – Director General China Land Surveying & Planning 6. Mr. Sunil Kumar – Vice President UN-GGIM-AP/Survey of India 7. Mr. Chee Hai Teo – UN-GGIM Senior Expert represent UN |
| 10.00 – 10.15 | **Keynote Speech** | *Geospatial Technologies for Disaster Management in Japan* | Mr. Iida Yo – Geospatial Information Authority of Japan |
| 10.15 – 10.30 | *Digital and Intelligent Innovation in Land and Resource Survey Technology* | Dr. Wenli Feng – Director General China Land Surveying & Planning, Ministry of Natural Resources, P.R. of China |
| 10.30 – 10.45 | *Geospatial Hackathon to Promote Innovation in India* | Dr. Sunil Kumar – Vice President UN-GGIM-AP/Survey of India |
| 10.45 – 11.00 | **Session 1:**  **Unlocking the Potential of Geospatial Innovation** | *Innovation as the Centre of IGIF Strategic Pathways* | Mr. Chee Hai Teo – UN-GGIM Senior Expert |
| 11.00 – 11.15 | *Geospatial Innovation in Europe: Challenges and Opportunities* | Mr. Tomaz Petek – Chair of UN-GGIM Europe (Pre-recorded Video) |
| 11.15 – 11.30 | *Geospatial Innovation to Support Safa, Sustainable and Smart Singapore* | Dr. Victor Khoo – Vice President UN-GGIM-AP/SLA |
| 11.30 – 11.45 | *Key Strategies in Promoting Innovation for National Geospatial Agency: Case Study in Saudi Arabia* | Dr. Asim Al Ghamdi – Secretary General of UN-GGIM Arab States |
| 11.45 – 12.15 | *Moderated Open Discussion* | Moderator:  Ms. Lisa Bush – Executive Board Member UN-GGIM-AP |
| 12.15 – 13.30 | Lunch Break | | |
| 13.30 – 13.45 | **Session 2:**  **Enabling Geospatial Solutions for Sustainable Cities** | *Integrating Geospatial Data and BIM in Developing the New National Capital City (IKN)* | Secretary General – Ministry of Public Works and Public Housing/PUPR |
| 13.45 – 14.00 | *Earth Observation Satellite for Disaster management in South Korea* | Dr. Hyo Jin Yang – National Geographic Information Institute, Republic of Korea |
| 14.00 – 14.15 | *Geoportal to Support Smart City Development in the Americas* | Ms. Raffaella Anilio Olguín –UN-GGIM Americas |
| 14.15 – 14.30 | *Geospatial Management for an Archipelago – Best Practices in Fiji* | Ms. Meizyanne Hicks – Member of UN-GGIM-AP |
| 14.30 – 15.00 | *Moderated Open Discussion* | Moderator:  Dr. Joshua J. Coutts – US Census Bureau |
| 15.00 – 15.15 | Coffee Break | | |
| 15.15 – 15.30 | **Session 2:**  **Enabling Geospatial Solutions for Sustainable Cities** | *Application of Integrated Geospatial Statistics for Sustainable City* | Dr. Joshua J. Coutts – US Census Bureau |
| 15.30 – 15.45 | *“Terus Terang Terang Terus” – A Street Lamp Monitoring App in Sampang Regency* | Winner of Bhumandala Award: Department of Transportation Sampang Regency |
| 15.45 – 16.00 | *Application of Geospatial and Statistics for Sustainable City – Case Study in Iran* | Dr. Ali Javidaneh – Member of UN-GGIM-AP/NCC Rep. of Iran |
| 16.15 – 16.30 | *PLATEAU: 3D City Modelling for Sustainable Cities* | Ms. Yuri Tsubaki – Ministry of Land, Infrastructure, Transport and Tourism Japan |
| 16.30 – 17.00 | *Moderated Open Discussion* | Moderator:  Dr. Ing Khafid – Head of Center for Spatial Planning Mapping and Atlas, BIG |

Venue: Kharisma Ballroom, Discovery Kartika Plaza Hotel

### **B. Bhumandala Award**

***Programme – TBD***

## **Day 2, Tuesday, November 7th, 2023**

### **C. International Seminar on Geo-Innovation for a Save and Sustainable World - Day 2**

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| **TIME (WITA)** | **SESSION** | **THEME/SUBJECT** | **SPEAKER/PIC** |
| 09.00 – 09.15 | **Session 3:  Innovation for Effective Land Administration** | *Implementation of Framework for Effective Land Administration (FELA)* | Dr. Rohan Bennett – FIG Chair Commission 7 |
| 09.15 – 09.30 | *BHUMI App for Effective Land Administration* | Mr. Virgo Eresta Jaya – Directorat General of Land and Spatial Survey and Mapping, Ministry of Agrarian Affairs and Spatial Planning/ATR-BPN and Vice Chair UN-GGIM AP WG 2 |
| 09.30 – 09.45 | *Best Practices of Land Administration in Thailand* | Dr. Siam Lawawirojwong – Director of Geo-Informatics Management & Solution Office GISTDA |
| 09.45 – 10.00 | *GIS-Based 3D City Model for Tax Revenue Management of Bandung City* | Winner of Bhumandala Award: Department of Construction and Spatial Planning – Bandung City |
| 10.00 – 10.30 | *Moderated Open Discussion* | Moderator:  Dr. Zaffar Sadiq Mohamed-Ghouse – Chair of UN-GGIM PSN |
| 10.30 – 10.45 | Coffee Break | | |
| 10.45 – 11.00 | **Session 3:  Innovation for Effective Land Administration** | *Effective Land Administration Underpinned by Reliable Geospatial Information: A Singapore Case* | Mr. Kean Huat Soon – Member of UN-GGIM-AP WG 2/SLA |
| 11.00 – 11.15 | *SIMANTRI-MANTAP – Geospatial Innovation for Seedling and Tree Monitoring* | Department of Forestry – West Java Province |
| 11.15 – 11.30 | *LOKASI: A Geospatial Solution for Land Administration* | Mr. Rivan Harits – PT Bhumi Varta Technology |
| 11.30 – 11.45 | *Geospatial Solution for Land Administration* | Mr. Peter Sasi – Greehill Asia Pacific |
| 11.45 – 12.30 | *Moderated Open Discussion* | Moderator:  Dr. Luc Groot – Kadaster International |
| 12.30 – 14.00 | Lunch Break | | |
| 14.00 – 14.15 | **Session 4:  Building Geospatial Innovation Ecosystem** | *Lesson Learnt from Bhumandala Innovation Awards* | Dr. rer. nat. Sumaryono, M.Sc – Head of Center for Geospatial Standards and Institutional Affairs, BIG |
| 14.15 – 14.30 | *Digital Atlas of Australia – Unlocking the Power of Location-based Decision Making* | Ms. Lisa Bush – Executive Board Member UN-GGIM-AP |
| 14.30 – 14.45 | *Innovative Application of Geospatial Information for Disaster Risk Reduction* | Mr. Keran Wang – Chief  Space Applications Section,  Information and Communications Technology and Disaster Risk Reduction Division, ESCAP |
| 14.45 – 15.00 | *The Importance of Geographical Names for Geospatial Ecosystem* | Ms. Rafidah Berudin – UNGEGN-ASED/Survei Department of Brunei Darussalam |
| 15.00 – 15.15 | *Roles of Private Sector in Developing Geospatial Innovation Ecosystem* | Dr. Zaffar Sadiq Mohamed-Ghouse – Chair of UN-GGIM PSN |
| 15.15 – 16.15 | *Moderated Open Discussion* | Moderator:  Mr. Alexey Trifonov – Executive Board Member UN-GGIM-AP |
| 16.15 – 16.45 | **Summary Remarks by Moderators** | | All Moderators |
| 16.45 – 17.00 | **Closing Statement** | | Dr. Antonius B. Wijanarto – President of UN-GGIM-AP |

Venue: Kharisma Ballroom, Discovery Kartika Plaza Hotel

### **D. Geodetic Reference Frames and Applications for Disaster Workshop**

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| **TIME (WITA)** | **THEME/SUBJECT** | **SPEAKER/PIC** |
| ***Opening Session*** | | |
| 9:00 -9:05 | Opening Remark | Basara Miyahara (AP WG1) |
| 9:05- 9:30 | Geodetic Reference Frame, Infrastructure, and their applications in Indonesia | Arief Syafi'i (BIG) |
| ***Session 1: Geodetic Reference Frame and its Dynamics*** | | |
| 9:30- 10:00 | Geodesy & Geodetic Reference Frame | Richard Gross (IAG President) |
| 10:00- 10:25 | Reference Frame in Asia and the Pacific | Guorong Hu (APREF/AP WG1) |
| 10:25 -10:40 | Coffee Break |  |
| 10:40- 11:05 | Dynamic Reference Frame | Richard Stanaway (IAG WG 1.3.1) |
| 11:05- 11:30 | Case in Australia | Guorong Hu (Geoscience Australia) |
| 11:30- 11:55 | Case in Japan | Basara Miyahara (GSI) |
| 11:55- 12:00 | Discussion |  |
| 12:00 -13:30 | Lunch Break |  |
| ***Session 2: Geodesy application for disasters (GNSS Tsunami Early Warning System)*** | | |
| 13:30 -14:00 | GNSS Early Tsunami Warning in Oceania | Viliami Folau (GTEWS Oceania, Kingdom of Tonga) |
| 14:00 -14:15 | Case in Japan | Basara Miyahara (GSI) |
| ***Session 3: Geodetic Capacity Development*** | | |
| 14:15 -14:45 | Geodetic Competency Surveys | Daniel Roman (FIG) |
| 14:45 -15:15 | Case in the Pacific Island States | Asakaia Tabuabisataki (PGSC) |
| 15:15 – 15:30 | Open discussion (related to Session 2 and Session 3) | |
| 15:30 -15:45 | Coffee Break | |
| ***Session 4: The Global Geodesy Development Plan*** | | |
| 15:45 –16:30 | Subcommittee on Geodesy, the UN-GGCE and the Global Geodesy Needs Assessment | Chee Hai Teo – UN-GGIM Senior Expert (UN DESA) |
| 16:30 – 17:15 | Open exchange and discussion (moderated) | Chee Hai Teo – UN-GGIM Senior Expert (UN DESA) |
| 17:15 -17:30 | Discussion |  |
| 17:30 | *Adjourn* | |

Venue: Discovery Room, Discovery Kartika Plaza Hotel

## **Day 3, Wednesday, November 8th, 2023**

### **E. Integrated Geospatial Information Framework (IGIF) Workshop**

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| **TIME (WITA)** | **SESSION** | **THEME/SUBJECT** | **SPEAKER/PIC** |
| 09.00 – 09.10 | **Session 1:  Welcome Remarks** | *Overview of IGIF Workshop* | Dr. Antonius B. Wijanarto – President of UN-GGIM-AP |
| 09.10 – 09.25 | *UN Expected Goals for IGIF Implementation in Member States* | Ms. Deirdre Bishop: Chair HLG-IGIF (Pre-Recorded Video) |
| 09.25 – 09.45 | **Session 2: Global perspectives for the Implementation of UN-IGIF** | *The Importance of IGIF for National Geospatial Information Management* | Chee Hai Teo – UN-GGIM Senior Expert |
| 09.45 – 10.15 | *IGIF Implementation in the UN-GGIM Regional* | Raffaella Anilio Olguín –UN-GGIM Americas |
| Mohammad Al Mabrook –UN-GGIM Arab States |
| Tomaz Petek – Chair of UN-GGIM Europe (Pre-recorded video) |
| Maroale Mimi Martha Chauke – Chair of UN-GGIM Africa (Pre-recorded video) |
| 10.15– 10.30 | Discussion | Dr. Antonius B. Wijanarto – President of UN-GGIM-AP |
| 10.30 – 10.45 | Coffee Break | | |
| 10.45 – 12.15 | **Session 3: Sharing session of UN-GGIM-AP** **member countries** | *IGIF Implementation in UN-GGIM Asia Pacific* | Country report from UN-GGIM-AP member countries (each member 5 minutes)   * Indonesia (host) * Australia * Brunei Darussalam * China * Fiji * India * Iran (Islamic Republic of) * Japan * Kyrgyzstan * Mongolia * Nepal * Philippines (the) * Republic of Korea (the) * Russian Federation (the) * Singapore * Thailand * Timor Leste * Tonga * Uzbekistan * Vietnam |
| Moderator:  Shri Pankaj Mishra – Chair of UN-GGIM-AP WG 4 (IGIF) |
| 12.15 - 12.30 | *Conclusion and Future Works* | | Shri Pankaj Mishra – Chair of UN-GGIM-AP WG 4 (IGIF) |
| 12.30 – 14.00 | Lunch | | |

Venue: Discovery Room, Discovery Kartika Plaza Hotel

### **F. Technical Visit – Bali**

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| **TIME (WITA)** | **AGENDA** |
| 14.30 – 16.30 | Departing to Pura Uluwatu from Discovery Kartika Plaza Hotel |
| 16.30 – 17.30 | Sightseeing at Pura Uluwatu |
| 17.30 – 18.00 | Preparation for watching Kecak Dance |
| 18.00 – 19.00 | Kecak Dance Show |
| 19.00 – 19.30 | Departing to Bejana Uluwatu Resto |
| 19.30 – 21.00 | Dinner at Bejana Uluwatu Resto |
| 21.00 – 22.00 | Departing to Discovery Kartika Plaza Hotel |

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## **Day 4, Thursday, November 9th, 2023**

### **G. The 12th Plenary Meeting of UN-GGIM-AP**

***Programme – TBD***

## **Day 5, Friday, November 10th, 2023**

### **H. The Inter-Regional UN-GGIM Committee Meeting**

***Programme – TBD***

# Registration and Contacts

For registration and further information can be accessed from:

<https://apgf2023.id>/

or direct inquiry email to:

[apgf2023@big.go.id](https://www.discoverykartikaplaza.com/)

# Organizer

* Indonesian Geospatial Information Agency (BIG)
* Ministry of Development Planning – Republic Indonesia
* Secretariat of UN-GGIM-AP