AGENDA

1. **Introduction** by co-chairs

2. **Presentation #1**: The latest discussion of SDG Indicators and the expectation for EO (MIC/Japan)

3. **Presentation #2**: SDGs progress report by Asia Pacific countries (ESCAP)

4. **Presentation #3**: The latest activities of EO4SDG Initiative (EO4SDG)

5. **Q&A** on the 3 presentations

6. **Panel Discussion** on country cases (Malaysia, Mongolia and Fiji) in applying EO data, moderated by the co-chairs

7. **Wrap-up and closing** by co-chairs

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**Special session 1.**

**Linking Earth Observations with Statistical Community for SDGs**

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**Ms. Litia Kurisaqila-Mate**, Assistant Statistician, Economics Statistics Division, Fiji Bureau of Statistics
The 13th Asia Oceania Group on Earth Observations (AOGEO) Symposium

“Linking Earth Observations with Statistical Community for SDGs”

Litia Kurisaqila-Mate
Assistant Statistician
Economics Statistics Division
Fiji Bureau of Statistics
Email: lkurisaqila@statsfiji.gov.fj
Environmental Concerns

- The Green Growth Framework is a national document which contains the country’s socio-economic and environmental concerns as well short term and long-term strategies to help address these concerns.

- The premise for preparing Land Cover Accounts arose from the need to address sustainable land and ocean resource issues raised in the Green Growth Framework.

- Green Growth Framework issues:
  - The inability to effectively manage the competing demands for land from different segments
  - Impacts of sea level rise on agriculture i.e salt-water inundation/intrusion
  - Impact of climate change on weather patterns indirectly leading to changes in land use activities

Addressing SDGs

- **Experimental Land Cover Account for Fiji**
  - Rate of change for Forest Cover: Targets and indicators for Goal 15
  - Rate of Change for Urban Areas Cover: Targets and indicators for Goal 11
  - Rate of Change for Agricultural Land Cover: Targets and indicators for Goal 2

- Establish a good base for possible Experimental Ecosystems Accounting
- Establish good groundwork for possible Oceans Accounting in future
The Approach

➢ Practical approach i.e. Work with what you have
➢ Data used: publicly sourced data - medium resolution (300 x 300) ESA database 2000-2015
➢ Software: QGIS
➢ Analysis: Non Parametric Regression – Sen regression Analysis – Finnish Institute Template
➢ Validation of results – consultation with respective data custodians i.e. Ministry of Forestry, Ministry of Lands & Mineral Resources and Ministry of Agriculture
➢ Consultant review
➢ Internal review
➢ Publication
➢ Frequency of Publication
The Process

- **Step 1:** Downloading QGIS
- **Step 2:** Downloading and Extracting Raster and Vector files from relevant databases
- **Step 3:** Reading in the Data
- **Step 4:** Clipping the data to Administrative boundaries map
- **Step 5:** Producing “r.report” for each year
- **Step 6:** Downloading ESA Land Cover Data Sets 2016-2018 (different format from previous years)
- **Step 7:** Extracting 2016-2018 Land Cover Data Sets and Clipping the Raster layers to Administrative boundary maps and generating r.reports for each year
- **Step 8:** Moving report data (land cover information – categories and cell counts) that was saved previously in csv format to Excel by year and concording of land cover classes
- **Step 9:** Running the analysis by agreed upon categories using trend analysis template by Finish Institute
- **Step 10:** Producing the change matrix
Vinaka Valevu!

Any questions?