ISPRS/ ICA/UN-GGIM/GEO Forum on
Geospatial Information-enabled SDGs Monitoring
9:00-12:30 June 7, 2022

Background

In September 2015, the United Nations adopted "Transforming Our World: the 2030 Agenda for Sustainable Development" as a new ambitious global development plan to end extreme poverty, fight inequality and injustice, and combat climate change. The agenda recognized the complex and diverse challenges that the world of today faces and defined 17 Sustainable Development Goals (SDGs) with 169 associated targets. To ensure a successful implementation of this global agenda, the United Nations has been devoting to establish a systematic follow-up and review of the progress towards SDGs at national, regional, and global levels, through an indicator-based and data-driven monitoring approach. Accurate, reliable, and up-to-date geospatial data plays a fundamental role in the monitoring process. This makes the design and implementation of geospatial information-enabled SDGs monitoring mechanisms and systems a critical task for both international communities and local governments. In this context, ISPRS council has decided to set up a scientific program on "Geospatial Information-enabled SDGs Monitoring for the 2030 Agenda (GI4SDGs)", jointly with other international organizations. The overreaching goal of this scientific program is to advance and achieve geospatial-enabled SDGs monitoring and applications by mobilizing and integrating all resources that ISPRS members and other stakeholders have.

Objectives of the Forum

ISPRS together with ICA/UN-GGIM/GEO is proud to organize a half-day forum on Geospatial Information-enabled SDGs Monitoring. The objectives of this forum are to

- Present the novel and innovative methods for Geospatial Information-enabled SDGs Monitoring through deep learning, big data, cloud computing, and other related technologies.

- Showcase the use of geospatial information and Earth observations as well as statistical and other data sources for monitoring SDGs.

- Examine key scientific and technological challenges of geospatial information and Earth observations in support of SDG monitoring.

- Explore international collaboration on Geospatial Information-enabled SDGs Monitoring.

- Explore, through a bottom-up approach, training requirements and awareness on GI and GIS for SDGs from different users' groups.

- Identify support for the development of needs-driven training models and materials on GI and GIS for SDGs.

Session Plan

This forum will consist of 2 sessions. Each session will last for one and half hours, including invited presentations and a panel discussion. The plan of the sessions is as follows:

Forum Chair: Chen Jun (ISPRS past president, NGCC, China):

Session 1: Recent Progress on Geospatial Information-enabled SDGs Monitoring (9:00-10:30)

Co-Chairs: Aurélie Sand (CNES, France), Jon Mills (Newcastle University, UK)

- Laurent Durieux (GEO): An Integrated Perspective of International Collaboration in Earth Observation in Services of the 2030 Agenda for Sustainable Development

- Menno-Jan Kraak (former ICA president, University of Twente, Netherlands): Monitoring the SDG Indicators Using Maps - Some Ethical Considerations

- Petros Patias (The Aristotle University, Greece): Earth Observation and SDGs: Mainstreaming Workflows from Data Sources to Policy Indicators

- Yifang Ban (KTH Royal Institute of Technology, Sweden): Earth Observation Big Data and AI for Monitoring Urban SDG Indicators (Pre-Recorded)
- Panel Discussion

Coffee Break

Session 2: GI4SDGs: Case Study and Capacity Building (11:00-12:30)

Co-Chairs: Songnian Li (Toronto Metropolitan University, Canada), Sheryl Rose Reyes (ISPRS Student Consortium, Philippines)

- Frédéric BRETAR (CNES, France): How Do Projects from the Space for Climate Observatory (SCO) Target Good Health and Well-being (SDG 3)?
- Jon Mills (Newcastle University, UK): Global Water Security and Sustainable Development: A (geospatial) Systems Approach to SDG 6
- Shu Peng (NGCC, China): Local SDG monitoring at Deqing County in China - a UN SDG Good Practice (Pre-Recorded)
- Daniele Oxoli (Politecnico di Milano, Italy): A Brief Introduction to Capacity Building for GIS-based SDG Indicator Analysis with Global High-resolution Land Cover Datasets Project (ISPRS Educational and Capacity Building Initiative 2021, Including results of a preliminary survey of GIS&SDGs)
- Panel Discussion