GROUP ON EARTH OBSERVATIONS

GEO Data Technology Workshop: the Era of Big EO Data

23-25 April 2019 / Vienna, Austria / UNOOSA

#GEOdatatech

Draft Agenda

Version 7: 1 March 2019

Day 1: Tuesday 23 April

Time	Session	Moderator
10.30 -11.00	**1. Welcome and Introduction** UNOOSA GEO Secretariat	GEOSEC
11:00 – 12:00	**2. Vision of a Results-oriented GEO and GEOSS** Gilberto Camara, GEO Secretariat Director	GEOSEC
12:00-13.00	**3. GEOSS Platform: State of the Art and Perspectives** Joost van Bemmelen, ESA	ESA
13.00-14.00	Lunch (No-host)	
14.00-16.00	**4. Data and Information Needs and Challenges for GEO Engagement Priorities** What can Earth Observations contribute to the global agenda? This panel session will discuss the real and potential contributions of EO data and information for key global policy frameworks. **Sendai Framework for Disaster Risk Reduction: UNIDSR Global Risk Assessment Framework** Adam Fysh, UNISDR **United Nations 2030 Agenda for Sustainable Development: New technologies for the Sustainable Development Goals** Bob Chen, SDSN TreNDs **Paris Climate Agreement: Earth observations for improving Greenhouse gases reporting** Jean Ometto, INPE Brazil **The New Urban Agenda: Earth observations for sustainable cities** Robert Ndugwa, UN Habitat	GEOSEC/ Steven Ramage
16.00-16.30	Coffee Break (No-host)	

16.30-18.30	**5. Data and Information Needs and Challenges for GEO Work Programme Activities** What are the data and information needs and challenges facing GEO Work Programme Activities and Initiatives? **Biodiversity:** **GEO Biodiversity Observation Network (GEOBON)** Letitia Navarro, iDiv **Land Degradation:** **GEO Land Degradation Neutrality Initiative (GEO LDN)** Antje Hecheltjen & Fabian Loew, GEO LDN Co-Chairs, GIZ **Streamflow Forecasting:** **GEO Global Water Sustainability Initiative (GEOGLOWS)** Julia Wagemann, ECMWF **Mercury Monitoring:** **GEO Global Observation System for Mercury (GOS4M)** Nicola Pirrone, CNR **Water Quality:** **AQUAWATCH** Steven Greb, University of Wisconsin–Madison	GEOSEC/ Craig Larlee

Day 2: Wednesday 24 April

Time	Session	Focal Point
9.00- 10.30	**6. In-situ Earth observations** **Improvements on Data Providers Metadata for Search Engines** Mikko Strahlendorff, Finnish Meteorological Institute **In-situ data workflow using OGC Sensor Web Enablement (SWE)** Bartolomeo Ventura, Eurac Research **Water Quality In-situ Database**, Andrew Tyler, Peter Hunter, University of Stirling	GEOSEC/ Douglas Cripe
10.30-11.00	Coffee Break (No-host)	

11.00-13.00	**7. Satellite-based Earth Observations** This panel session will discuss the most recent opportunities and challenges facing the data community in relation to satellite-based Earth observation data and technology. Chair: Rob Woodcock, CSIRO **CEOS Open Data Cube: lessons learned and way forward** Brian Killough, NASA **Land Surface Imaging: CEOS Analysis Ready Data** - Andreia Siqueira, Geoscience Australia **Perspectives of the Copernicus Programme** Daniel Quintart, Copernicus **User-centric Collaboration Environments and Future Data Architectures**- Günther Landgraf, ESA **Production of Analysis-Ready Data** Grega Milcinski, Sinergise	CEOS
13.00-14.00	Lunch (No-host)	
14.00-16.00	**8. Cloud computing for Big Earth observation data: lessons learned** This panel session will explore lessons learned and next steps in cloud computing for big Earth observation data. **Earth Observation Data Centre** Wolfgang Wagner, Vienna University of Technology **ECMWF Climate Data Store: lessons learned and way forward/ Users Requirements Survey** Julia Wagemann, ECMWF **Spatio Temporal Assets Catalogs, STAC** Matthias Mohr, University of Münster **Challenges in interoperability and harmonization in Cloud Computing for Earth observation** Edzer Pebesma, University of Münster **National Research and Education Networks (NRENs): Infrastructure support for global cloud computing** Chris Atherton and Chris Steijaert, GEANT	GEOSEC/ Douglas Cripe
16.00-16.30	Coffee Break (No-host)	

16.30-18.00	**9.GEOSS-related technologies** **Pilot # 1: Knowledge hub** Gilberto Ribeiro, INPE; Rik Baeyens & Paola De Salvo, GEO Secretariat **Pilot #2: GEOSS Evolution** Ivan De Loatch, Max Craglia & Stefano Nativi, GEOSS Evolve **Pilot #3: ESA Thematic Exploitation Platform (TEP) GEO Hazards,** Pedro Gonçalves, TerraDue **Pilot #4: Machine learning using AWS** Karine Ferreira, INPE	GEOSEC/ Gilberto Camara

Day 3: Thursday 25 April

Time	Session	Focal Point
9.00 -10.30	**10. Special Session on Copernicus DIAS** **OndaDIAS** **Sobloo** **CREODIAS** **MundiWeb** **Wekeo**	GEOSEC/ European Commission
10.30 - 11.00	Coffee Break (No-host)	
11.00-12.30	**11. Innovative approaches and societal impact** **AWS: lessons learned and way forward** Jed Sundwall, AWS **ESRI cloud technologies for big Earth observation data analytics** TBC, ESRI **Digital Earth Africa** Trent Kershaw, Geoscience Australia **Japan DIAS** Mamoru Miyamoto	GEOSEC/ Steven Ramage
12.30-13.30	Lunch (No-host)	

13.30-15.30	**12. Innovation from SMMEs** **European Earth Observation online services (eoMALL)** Emmanuel Pajot (EARSC) **Geosystems Hellas** Chara Lampopoulou **EO in Africa: the view from Ethiopia** Dr Tesfaye Korme (GEO SAS) **EO in Africa: the view from Ghana** Steven Adusah, Farmerline **EO in Africa: the view from South Africa** Lee Annamalai, CSIR/GEO Intelligence	GEO SEC/ Steven Ramage
15.30 -16.00	Coffee Break	
16.00-17.50	**13. Ethical Issues Panel** **Foteini Zampati**, Global Open Data for Agriculture and Nutrition (GODAN) **Robert Chen**, CIESIN **Tom Orrell**, DataReady / GPSDD **Imraan Saloojee**, South African Space Agency (SANSA) **Kevin Pomfret**, UN-GGIM Legal and Policy Framework Committee **Jan Dusart**, European Commission	GEO SEC/ Doug Cripe
17.50-18.00	**14. Closing remarks** Gilberto Camara, GEO Secretariat Director	GEO Secretariat Director