

## Draft Agenda for the 4<sup>th</sup> GEO Data Providers Workshop

*This document is submitted to the Program Board for discussion*

### 4<sup>th</sup> GEO Data Providers Workshop: Sharing Earth Observation Knowledge

23-25 April 2019 / Vienna, Austria / UNOOSA

Version 4: 23 January 2019

#### Day 1: Tuesday 23 April

Time	Session	Focal Point
10.30 - 11.00	Session 1 <b>Welcome and Introduction</b> TBD, UNOOSA TBD, GEO Secretariat TBD, Workshop Organizing Committee	GEOSEC
11:00 - 12:00	Session 2 <b>Vision of a Results-oriented GEO and GEOSS</b> Gilberto Camara, GEO Secretariat Director	GEOSEC
12:00 - 13.00	Session 3 <b>GEOSS Platform: State of the Art and Perspectives</b> TBD	GEOSS Evolve
13.00 - 14.00	Lunch (No-host)	
14.00 - 16.00	Session 4 <b>Data and Information Needs and Challenges for GEO Engagement Priorities</b> 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. <b>Sendai Framework for Disaster Risk Reduction: UNISDR Global Risk Assessment Framework</b> TBD, UNISDR <b>United Nations 2030 Agenda for Sustainable Development: New Technologies for the Sustainable Development Goals</b> Jessica Espey, UN SDSN <b>Paris Climate Agreement: Earth Observations for Improving Greenhouse Gases Reporting</b> Jean Ometto, INPE Brazil <b>The New Urban Agenda: Earth Observations for Sustainable Cities</b> TBD, UN Habitat	GEOSEC (Steven Ramage)
16.00 - 16.30	Coffee Break	

Time	Session	Focal Point
16.30 - 17.30	Session 5 <b>Data and Information Needs and Challenges for GEO Work Programme Activities</b> What are the data and information needs and challenges facing GEO Work Programme Activities and Initiatives? This panel session will discuss ways the data provider community can support key GEO Work Programme efforts. <b>Agriculture:</b> <b>GEO Global Agricultural Monitoring Initiative (GEOGLAM)</b> Chris Justice, University of Maryland <b>Biodiversity:</b> <b>GEO Biodiversity Observation Network (GEOBON)</b> Letitia Navarro, iDiv <b>Land Degradation:</b> <b>GEO Land Degradation Neutrality Initiative (GEO LDN)</b> Barron Orr, UNCCD <b>Streamflow Forecasting:</b> <b>GEO Global Water Sustainability Initiative (GEOGLOWS)</b> TBD, ECMWF <b>Mercury Monitoring:</b> <b>GEO Global Observation System for Mercury (GOS4M)</b> Nicola Pirrone, CNR Italy <b>Water Quality:</b> <b>AQUAWATCH</b> Andrew Tyler (TBC)	GEOSEC (Paola De Salvo)
18.30 - 20.30	Dinner (No-host)	

## Day 2: Wednesday 24 April

Time	Session	Focal Point
9.00 - 10.30	Session 6 <b>Satellite-based Earth Observations</b> This panel session will discuss ways the most recent opportunities and challenges facing the data community in relation to satellite-based Earth observation data and technology. <b>Harmonization of Multi-satellite Data</b> TBD, NASA <b>Big Earth Observation Data Catalogues</b> Chris Holmes, Radiant Earth <b>Perspectives of the Copernicus Programme</b> TBD <b>The CEOS Atmospheric Composition Vision</b> TBD	CEOS
10.30 - 11.00	Coffee Break	
11.00 - 13.00	Session 7 <b>In-situ Earth Observations</b> This panel session will discuss ways the most recent opportunities and challenges facing the data community in relation to in situ Earth observation data and technology and GEO future role with respect to In situ data. <b>Improvements on Data Providers Metadata for Search Engines</b> Mikko Strahlendorf, Finland	GEOSEC

Time	Session	Focal Point
	<b>Requirements and Needs of the GEO Community</b> Michael Mirtl, Environment Agency Austria, EAA  <b>Evolution of GEOSS Platform and GEO to Handle In situ Data</b> TBD	
13.00 - 14.00	Lunch No Host	
14.00 - 16.00	Session 8 <b>Cloud Computing for Big Earth Observation Data</b> This panel session will explore lessons learned and next steps in cloud computing for big Earth Observation data.  <b>Google Earth Engine: Lessons Learned and Way Forward</b> Noel Gorelick, Google Earth Engine  <b>ECMWF Climate Data Store: Lessons Learned and Way Forward</b> Baudouin Raoult, ECMWF  <b>Open Data Cube: Lessons Learned and Way Forward</b> Brian Killough, NASA  <b>Machine learning using AWS</b> Lubia Vinhas, INPE Brazil  <b>Challenges in Interoperability and Harmonization in Cloud Computing for Earth Observation</b> Edzer Pebesma, Universität Münster	GEOSEC
16.00 - 16.30	Coffee Break	
16.30 - 18.30	Session 9 <b>Knowledge Hub Progress and Opportunities to Contribute</b> This session will review several pilot initiatives related to the future GEO Knowledge Hub, which aims to facilitate sharing and discovery of reproducible knowledge related to the use of EO data, information, tools and services.  <b>Pilot #1: The GEO Knowledge hub Prototype</b> Gilberto Ribeiro, INPE Brazil  <b>Pilot #2: GEOSS Platform Evolution</b> TBD  <b>Pilot #3: ESA Thematic Exploitation Platform (TEP) GEO Hazards</b> TBD	GEOSEC

## Day 3: Thursday 25 April

Time	Session	Focal Point
9.00 - 10.30	Session 10 <b>Regional Infrastructures</b> This session will explore the needs of and opportunities presented by GEO's regional initiatives and other regional infrastructures advancing EO for sustainable development. <b>AmeriGEOSS: GEO for the Americas</b> Ivan DeLoach <b>AO-GEO: GEO for Asia-Oceania</b> TBD <b>AfriGEO: GEO for Africa</b> TBD <b>EuroGEOSS: GEO for Europe</b> TBD <b>Digital Earth Africa: A Continental-scale Data Cube Initiative for Africa</b> TBD <b>National Research and Education Networks (NRENs): Infrastructure Support for Global Cloud Computing</b> TBD, GEANT	GEOSEC and GEOSS Evolve
10.30 - 11.00	Coffee Break	
11.00 - 12.00	Session 11 <b>Special Session on Copernicus DIAS</b> <b>OndaDIAS</b> TBD <b>Sobloo</b> TBD <b>CREODIAS</b> TBD <b>MundiWeb</b> TBD	European Commission DG - GROW
12.00 - 13.00	Lunch No Host	
13.00 - 15.00	Session 12 <b>Innovative Contributions from the Commercial Sector</b> <b>Innovation from Small, Medium &amp; Micro Enterprises (SMMEs) using Cloud Computing</b> TBD <b>Production of Analysis-Ready Data</b> Synergize (TBD) <b>Low-cost, Small-size, High-resolution Satellites: Where are We Going</b> Planet (TBD)	GEO SEC Steven Ramage
15.00 - 16.30	Session 13 <b>The Way Forward: GEO Work Programme 2020-2022</b> <b>Provisional Outcomes of Each Session Discussion</b>	
16.30 - 17.00	<b>Closing remarks</b> Gilberto Camara, GEO Secretariat Director	GEO Secretariat Director