

## W O R K S H O P

### EU RESEARCH AND INNOVATION IN SUPPORT OF THE EARTH OBSERVATION MARKET

21-22 September 2016, Brussels

Venue: Covent Garden, Place Rogier 16, 1210 Brussels

#### Day 1: 21 September 2016

Room: AUDITORIUM Nowotny,  
25<sup>th</sup> floor

08:30 – 09:00	<i>Registration and Welcome Coffee</i>
<b>09:00 – 10:30</b>	<b>OPENING SESSION</b> <b>Chair: Jack Metthey</b> , Director, Climate Action and Resource Efficiency, DG RTD, EC
09:00 - 10:00	<b>Welcome addresses:</b> <b>Jack Metthey</b> , Director, Climate Action and Resource Efficiency, DG RTD, EC <b>Andreas Veispak</b> , Head of Unit, Space Data for Societal Challenges and Growth, DG GROW, EC <b>Alessandro Annoni</b> , Head of Unit, Digital Economy, JRC, EC <b>Márta Nagy-Rothengass</b> , Head of Unit, Data Policy and Innovation, DG CNECT, EC <b>Mark Doherty</b> , Head of EO Exploitation and Services Division, Earth Observation Programme Directorate, ESA-ESRIN
10:00 - 10:30	<b>Opening keynote speech:</b> <b>Rob Postma</b> , Sales Director, Security Airbus Defence and Space, Netherlands
10:30 - 11:00	<i>Coffee Break</i>

11:00 – 13:00	<b>PLENARY SESSION 1:</b> <b>Exploring market trends and EO products and services of the future</b> <b>Chair: Alessandro Annoni, Head of Unit, Digital Economy, JRC, EC</b>
11:00 – 12:30	<b>Speakers:</b> <b>Sanjay Kumar, Geospatial Media and Communication</b> <i>Earth Observation Market: Emerging Business Eco-System and Models</i> <b>Florin Serban, TERRASIGNA</b> <i>Trends and Opportunities in EO Market - making innovation through Big Data platforms</i> <b>Andreas Veispak, DG GROW, EC</b> <i>Maximising the potential of EO data</i> <b>Stephen Coulson, ESA-ESRIN</b> <i>Fostering Growth in the European EO Services industry through ESA EO Programmes</i> <b>Geoff Sawyer, The European Association of Remote Sensing Companies (EARSC)</b> <i>Developing the Market for EO Services</i> <b>Laura Delponte, Center for industrial studies (CSIL)</b> <i>Public policy instruments for promoting the uptake of EO technologies in European markets</i> Rapporteur: Amanda Regan, DG RTD, EC
12:30 – 13:00	Discussion
13:00 – 14:00	Lunch Break

14:00 – 15:30	<b>PLENARY SESSION 2:</b> <b>Necessary R&amp;I conditions for the development of the European Earth observation market</b> <b>Chair: Michel Schouppe, Policy Officer, Climate Action and Earth Observation, DG RTD, EC</b>
14:00 – 15:00	<b>Speakers:</b> <b>Barend Mons, Leiden University Medical Centre and Dutch Techcenter for the Life Sciences</b> <i>The future: partly FAIR, partly Cloudy</i> <b>Andrea Kurz, Brimatech Services GmbH</b> <i>Potential R&amp;I instruments that could facilitate the market uptake instead</i> <b>Ole Oldeen, FPX Sweden</b> <i>From researchers ideas via R&amp;D projects to commercialization</i> <b>Chetan Pradhan, CGI</b> <i>Necessary R&amp;I conditions for European Private Sector Organisations to flourish in the Global Earth Observation market</i> Rapporteur: Amanda Regan, DG RTD, EC
15:00 – 15:30	Discussion

15:30 -  
16:00

*Coffee Break*

**16:00 – 18:00** **PARALLEL BREAKOUT SESSIONS: 1, 2 and 3**

<b>16:00 – 18:00</b>	<b>Breakout Session 1</b>
Room: 16th floor, SDR2	R&I for the development of new EO services and products that are addressing citizen's needs: <b>B2C – Business to Citizens</b>
	<b>Chair: Hugo De Groof, DG ENV, EC</b>
16:00 - 17:30	<p><b>Speakers:</b> <b>Daniele Miorandi, U-Hopper</b> <i>Crowdsourcing for Earth Observations: Perils and Promises</i></p> <p><b>Antoine Mangin, ACRI-ST/HE</b> <i>EO and citizen's participation - a necessary and fruitful mixing</i></p> <p><b>Stelios Kotsopoulos, Draxis Environmental S.A.</b> <i>APOLLO project-An advisory platform for small farms based on earth observation</i></p> <p><b>Andrew Eddy, Athena Global</b> <i>DRM services delivered to the last mile - the challenges of B2C services from the RASOR perspective</i></p> <p><b>Max Craglia, JRC, EC</b> <i>Results and lessons learnt from MyGeoSS</i></p> <p><b>Laia Romero, isardSAT S.L.</b> <i>Beyond Thematic Exploitation Platforms</i></p> <p>Rapporteur: Izabela Freytag, EASME</p>
17:30 - 18:00	Discussion

<b>16:00 – 18:00</b>	<b>Breakout Session 2</b>
Room: 25 <sup>th</sup> floor, Audit. Nowotny	R&I supporting the development of EO products and services addressing governmental needs: <b>B2G – Business to Government</b>
	<b>Chair: Martin Ditter, DG GROW, EC</b>
16:00 - 17:30	<p><b>Speakers:</b> <b>Jamie Ritchie, ESRI Europe</b> <i>Web GIS - Imagery and Beyond</i></p> <p><b>Ana Sebastián López, GMV AEROSPACE AND DEFENCE</b> <i>Generating added-value EO products and services for governmental agencies around the world.</i></p> <p><b>Cristina Martinez, CNECT.C1</b></p> <p><b>Fabian Enssle, GAF AG</b> <i>Supporting Governments to implement Forest Policy Programmes with EO-based Services - EOMonDis</i></p> <p><b>Alessandro Mondini, CNR – IRPI</b> <i>Doris &amp; LAMPRE landslide downstream services: a business exercise</i></p> <p><b>Erwin Goor, VITO NV</b> <i>PROBA-V Mission Exploitation Platform</i></p> <p>Rapporteur: Gaelle le Bouler, EASME</p>



17:30 - 18:00	Discussion
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<b>16:00 – 18:00</b>	<b>Breakout Session 3</b>
Room: 15 <sup>th</sup> floor, SDR1	R&I supporting the development of products and services addressing the needs of various industrial sectors: <b>B2B – Business to Business</b>
	<b>Chair:</b> Mark Noort, <i>HCP international</i>
16:00 - 17:30	<p><b>Speakers:</b> <b>Ils Reusen, VITO</b> <i>EO-based and Drone-based Water Quality Products for the Dredging Industry</i></p> <p><b>Etienne Wey, TRANSVALOR S.A.</b> <i>R&amp;I success story in support of commercial activity in the solar energy</i></p> <p><b>Jean-Baptiste Costis &amp; Frédéric Vallois, THALES</b> <i>Innovation supporting Smart Products on Marketplaces</i></p> <p><b>Thomas Lockhart, DCNS Group</b> <i>Integration of Offshore Autonomous Surface Observing Vehicle in the Global Earth Observing System</i></p> <p><b>Walter Mayer, Progis Software GmbH</b> <i>Integrated GIS tool: Sentinel 11 NDVI + ortho-/satellite images + GIS + applications for agriculture, forestry and natural risks + pattern recognition - worldwide available</i></p> <p><b>Emmanuel Mondon, AdviceGEO</b> <i>Innovative services for stimulating the EO Market ; lessons learned and ways forward</i></p> <p>Rapporteur: Jane Shiel, <i>DG RTD, EC</i></p>
17:30 - 18:00	Discussion

## Day 2: 22 September 2016

Room: AUDITORIUM Nowotny, 25<sup>th</sup>  
floor

08:30 – 09:00	<i>Registration and Welcome Coffee</i>
<b>09:00 – 09:45</b>	<b>OPENING SESSION DAY 2</b> <b>Chair: Jack Metthey</b> , <i>Director, Climate Action and Resource Efficiency, DG RTD,</i>
09:00 - 09:15	Opening by <b>Pierre Delsaux</b> , <i>Deputy Director-General, DG GROW, EC</i>
09:15 - 09:45	Keynote by <b>Robbie Schingler</b> , <i>Co-founder Planet</i>
<b>09:45 – 11:15</b>	<b>PLENARY SESSION 3:</b> <b>Rationale and way forward towards the establishment of a structured consultation/collaborative mechanism between the European commercial sector and GEO and Copernicus</b> <b>Chair: Andrea Tilche</b> , <i>Head of Unit, Climate Action and Earth Observation, DG RTD</i>
09:45 - 10:45	<b>Speakers:</b> <b>Thibaud Delourme</b> , <i>DG-GROW, EC</i> <i>The Copernicus user uptake strategy</i> <b>Gilles Ollier</b> , <i>DG RTD, EC</i> <i>State of play: Commercial sector engagement in GEO</i> <b>Noel Parmentier</b> , <i>RHEA System</i> <i>Engaging the European private sector in GEOSS</i> <b>Andrea Rubini</b> , <i>WssTP</i> Rapporteur: <b>Mark Noort</b> , <i>HCP International</i>
10:45 - 11:15	Discussion

Room: 15<sup>th</sup> floor, SDR1

11:15 - 11:45	<i>Coffee Break</i>
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11:45 –	<b>PARALLEL BREAKOUT SESSIONS: 4, 5 and 6:</b>
<b>11:45– 13:45</b> Room: 15 <sup>th</sup> floor, SDR1	<b>Breakout Session 4</b> R&I in the domain of EO data access, cloud storage and computing with a special focus on innovation data hubs  <b>Chair: Francesco Barbato, DG CNECT, EC</b>
11:45 - 13:15	<b>Speakers:</b> <p><b>Nuno Catarino, DEIMOS Engenharia</b> <i>NextGEOSS: the European GEO Data Hub</i></p> <p><b>Glyn Arthur, Luciad nv</b> <i>Geospatial Architectures for the Cloud</i></p> <p><b>Tor Dokken, SINTEF ICT, Norway</b> <i>Analysis, representation and compression of big geospatial point clouds - Land, Marine and Urban Scenarios - Exploitable outcomes of the big data IP www.lqmalus.eu (fp7 2012-2016)</i></p> <p><b>Vanya Nikova, CloudSigma</b> <i>CloudSigma - Liberating Sentinel Data, One Petabyte at a Time</i></p> <p><b>Lydia Hutin, CS - Communication et Système</b> <i>Open Source Multi cloud EO processing platform</i></p> <p><b>Sveinung Loekken, ESA</b> <i>ESA Initiative on EO Exploitation Platforms</i></p> <p>Rapporteur: Izabela Freytag, EASME</p>
13:15 - 13:45	Discussion
<b>11:45– 13:45</b> Room: 15 <sup>th</sup> floor, SDR2	<b>Breakout Session 5</b> Legal and Technical R&I Frameworks in support of innovative EO market and new business developments  <b>Chair: Michael Berger, ESA</b>
11:45 - 13:15	<b>Speakers:</b> <p><b>Brendan Bouffler, Amazon Web Services</b> <i>Democratising Access to Big Data: Lessons learnt from sharing planetary-scale data in the cloud</i></p> <p><b>Ingo Baumann, BHO Legal</b> <i>New legal issues in Earth Observation Ground Segments</i></p> <p><b>Philippe Ledent, SPACEBEL</b> <i>EO Regions</i></p> <p><b>Roberto Fabrizi, Deimos Imaging</b> <i>UrtheCast's Vision for the Democratization of Earth Observation</i></p> <p><b>Jun She, Danish Meteorological Institute</b> <i>An end2end, integrated operational framework in support of EO market for Blue Growth"</i></p> <p><b>Jan-Bart Calewaert, EMODnet Secretariat</b> <i>Unlocking the wealth of European marine observations and data for public and private users in support of the Blue Economy - The European Marine Observations and Data Network (EMODnet)</i></p>



	Rapporteur: Gaelle le Bouler, <i>EASME</i>
13:15 - 13:45	Discussion
<b>11:45– 13:45</b>	<b>Breakout Session 6</b>
Room: 16 <sup>th</sup> floor, SDR2	R&I for EO products and services in the following GEO SBA's: Energy and Mineral Resources, Sustainable Urban Development, Infrastructure Development, Infrastructure and Transportation
	<b>Chair: Franz Immler, <i>EASME</i></b>
11:45 - 13:15	<p><b>Speakers:</b></p> <p><b>Thierry Ranchin, MINES ParisTech / Armines</b> <i>GEO Energy and Minerals Management SBA: the GEO Vision for Energy Initiative (GEO-VENER)</i></p> <p><b>Rainer Malmberg, Industrienanlagen Betriebsgesellschaft mbH</b> <i>EO support for traffic management in data poor areas</i></p> <p><b>Nektarios Chrysoulakis, FORTH</b> <i>EO-based services and products supporting Sustainable Urban Planning towards Climate Change Mitigation and Adaptation</i></p> <p><b>Peter Kinghan, Principal - Minerals - Valuations SLR Consulting Ireland</b> <i>Integration of Satellite and UAV collected data for Landfill and Mine waste management</i></p> <p><b>Jan Petter Pedersen, Kongsberg Satellite Services</b> <i>Pan-European oil spill detection - from national R&amp;I towards an operational and sustainable service</i></p> <p><b>Ervin Bejdakic, Federal Ministry for Economic Affairs and Energy, Germany</b> <i>Copernicus Ground Motion Service as a door opener (for a widespread application of higher resolution radar interferometry)</i></p> <p>Rapporteur: Jane Shiel, <i>DG RTD, EC</i></p>
13:15 - 13:45	Discussion



13:45 – 14:30	Lunch Break
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Room: 15<sup>th</sup> floor, SDR1

14:30 – 16:30	<b>PLENARY SESSION 4:</b> <b>National and regional views on commercial alliances towards GEO and Copernicus both regarding the service and research component of the initiatives</b>
14:30-16:00	<p><b>Speakers:</b></p> <p><b>Dominique Marbouty</b>, Ministry of Higher Education and Research, France <i>The necessary role of the private sector in Earth Observation</i></p> <p><b>Ioannis Papoutsis</b>, National Observatory of Athens <i>The role of the Greek Sentinel Collaborative Ground Segment for the Copernicus &amp; GEO data commercial uptake in the region of Balkans, Middle East &amp; North Africa</i></p> <p><b>Farhana Amin</b>, UK Policy lead for GEO and Copernicus and the Defra Earth <i>UK activities in support of the Earth Observation Market: A Defra perspective</i></p> <p><b>Nataliia Kussul</b>, Space Research Institute NASU-SSAU, Ukraine <i>Initiating national segment of GEOGLAM in Ukraine: state of the art and prospects</i></p> <p><b>Helmut Staudenrausch</b>, German Aerospace Center, DLR <i>Perspective from Germany on Commercial engagement in GEO and Copernicus</i></p> <p><b>Mikko Strahlendorff</b>, Space Advisor <i>EO in Finland</i></p> <p>Rapporteur: Mark Noort, HCP International</p>
16:00 - 16:30	Discussion

16:30 – 17:30	<b>CLOSING SESSION</b> <b>Chair: Andrea Tilche</b> , Head of Unit, Climate Action and Earth Observation, DG RTD, EC
16:30 - 16:50	Summary of the day 1: <b>Amanda Regan</b> , DG RTD, EC
16:50 - 17:10	Summary of the day 2: <b>Mark Noort</b> , HCP International
17:10 - 17:30	Closing remarks: <b>Andrea Tilche</b> , Head of Unit, Climate Action and Earth Observation, DG RTD, EC