

## Programme Agenda

Day 1 - 26/02/2019

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Room: Big Hall

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### Registration

08:30 - 09:00

### Opening Session

Chairs: Arino, Olivier (ESA- ESRIN), Rossner, Godela (DLR)

09:00 - 10:40

09:00 **Welcome Introduction**

Desnos, Yves-Louis, ESA- ESRIN, Italy

09:20 **Infrastructure Monitoring as an EO topic. A german perspective**

Presenting author: Rossner, Godela

Rossner, Godela, DLR, Germany

09:40 **An overview of the added-value of High Resolution imagery for Infrastructures Planning and Monitoring**

Cherchali, Selma, CNES, France

10:00 **Engaging EO customers in the Innovation process**

Donnelly, Rory Patrick; Sawyer, Geoff, EARSC, Belgium

10:20 **Breaking Silos: Actions to develop Infrastructure as an Asset Class and Address the Information Gap**

Della Croce, Raffaele, OECD, France

### Coffee Break

10:40 - 11:10

### Transport (roads, railways, and airports)

Chairs: Cherchali, Selma (CNES), Liebig, Volker (Airbus Defence and Space)

11:10 - 12:50

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**11:10 Infrastructure Planning and Monitoring – Examples, Future Products and Governance**

Liebig, Volker, Airbus Defence and Space, Germany

**11:30 Rheticus® Safeway - Dynamic Roadway and Railway Networks Monitoring**

Drimaco, Daniela; Massimi, Vincenzo, Planetek Italia s.r.l., Italy

**11:50 The Momit Project For An Integration Of Remote Sensing Technologies Into Railway Infrastructure Monitoring System**

Presenting author: Ferri, Manuela

Donzelli, Valeria (1); Ferri, Manuela (1); del Sole, Andrea (2); Jover, Roberto Tomás (3); Navarro, Jose A. (4); Riquelme, Jose Luis Asensio (5); Filippini, Nazzareno (6), 1: e-GEOS S.p.A., Italy; 2: NEAT S.r.l.; 3: Universidad de Alicante; 4: Centre Tecnologic de Telecomunicacions de Catalunya; 5: Terabee S.A.S.; 6: Rete Ferroviaria Italiana

**12:10 High Resolution Remote Sensing to Support Transport Infrastructure Monitoring**

Reinartz, Peter; Kurz, Franz; Vig, Eleonora; Azimi, Seyedmajid; Runge, Hartmut, DLR German Aerospace Center, Germany

**12:30 Monitoring Alpine Transportation Infrastructures using Space Techniques**

Strozzi, Tazio; Wegmüller, Urs; Caduff, Rafael, Gamma Remote Sensing, Switzerland

### Open Discussion on Transport

12:50 - 13:10

### Lunch Break

13:10 - 14:10

### Coastal, Hydrology, Tunnels, Bridges, Mining and Energy

Chairs: Böhm, Karsten (Bundesanstalt für Gewässerkunde / Federal Institute of Hydrology), Della Croce, Raffaele (OECD)

14:10 - 16:10

**14:10 Satellite-based PSInSAR for Geodetic Monitoring of the Hessigheim Lock**

Böhm, Karsten, Bundesanstalt für Gewässerkunde / Federal Institute of Hydrology, Germany

**14:30 InSAR as a Monitoring Tool for the Tideway East Deep Tunnel, Verified with Ground**

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### Surveying

Scoular, Jennifer (1); Ghail, Richard (2); Mason, Philippa (3); Lawrence, James (1), 1: Department of Civil and Environmental Engineering, Imperial College London, United Kingdom; 2: Department of Earth Sciences, Royal Holloway, University of London; 3: Department of Earth Science and Engineering, Imperial College London

### 14:50 **Monitoring Infrastructure in London, UK, using high-resolution TerraSAR-X data processed with SqueeSAR™**

Bischoff, Christine (1,2); Mason, Philippa (3); Ghail, Richard (4); Giannico, Chiara (1); Ferretti, Alessandro (1), 1: TRE ALTAMIRA, Italy; 2: Dept of Civil Engineering, Imperial College London, UK; 3: Dept of Earth Science & Engineering, Imperial College London, UK; 4: Dept of Earth Sciences, Royal Holloway University of London, UK

### 15:10 **Engineering Applications of Radar Remote Sensing: Monitoring of Critical Infrastructure, and of Open and Underground Mining**

Neelmeijer, Julia (1); Motagh, Mahdi (1,2); Tang, Wei (1); Haghshenas Haghghi, Mahmud (1,2); Stefanova Vassileva, Magdalena (1,2), 1: GFZ German Research Centre for Geosciences, Germany; 2: Leibniz University Hannover, Germany

### 15:30 **Earth Observation – A support for the distributed energy sector (micro-/ mini-grids)**

Kraetzschmar, Elke (1); Baier, Simone (1); Raisin, Philippe (2); Gaihre, Nabin Raj (2), 1: IABG, Germany; 2: TFE Consulting, Germany

### 15:50 **Use of InSAR to Support Structural Health Monitoring of Bridges**

Selvakumaran, Sivasakthy (1); Middleton, Campbell (1); Cristian, Rossi (2), 1: University of Cambridge, United Kingdom; 2: Satellite Applications Catapult, United Kingdom

## Open Discussion on Coastal, Hydrology, Tunnels, Bridges, Mining and Energy

16:10 - 16:30

## Welcome Drink and Posters

16:30 - 18:30

### **A traffic analysis in the urban sprawl context. Simple Approach with the Attractors' Method**

Loret, Emanuele (1); Gullotta, Gaia (1); Sarti, Francesco (2), 1: c/o ESA-ESRIN, Italy; 2: ESA-ESRIN, Frascati Italy

### **SCIRES - Supporting Critical Infrastructures Resilience from Space**

Drimaco, Daniela (1); Amodio, Angelo (1); Massimi, Vincenzo (1); Rosato, Vittorio (2); Pollino, Maurizio (2); Bignami,

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Christian (3); Albano, Matteo (3), 1: Planetek Italia s.r.l., Italy; 2: ENEA; 3: INGV

### Urban Footprint Analysis and Mapping of the District of Rome with SENTINEL-1 and SENTINEL-2 data.

Martino, Luca (1); Emanuele, Loret (2); Martino, Michele (3), 1: Serco Spa for ESA, Directorate of Earth Observation Programmes, EOP-G Department, Frascati, Italy; 2: Department of Civil Engineering and Computer Science (DISP), University of Tor Vergata, Italy; 3: Serco Spa for ESA, Directorate of Earth Observation Programmes, EOP-SD Department, Frascati, Italy

### Exploitation of Earth Observation data for monitoring the structure stability: the I.MODI Service .

Arangio, S. (1); Aranno, P. D (1); Guerrero, F. (2); Marsella, Maria (1,2); Moreiro, I. (1); Palanzuela, J. (2); Gelabert, M. Del Riego (1,2), 1: Survey Lab srl; 2: Dipartimento di Ingegneria Civile, Edile e Ambientale Sapienza University Roma, Italy

### Earth Observation Capabilities for River Discharge Monitoring

Tarpanelli, Angelica (1); Brocca, Luca (1); Benveniste, Jerome (2), 1: CNR IRPI, Italy; 2: ESA, Esrin, Italy

### Sar Altimetry Processing On Demand Service For Cryosat-2 AND Sentinel-3 At ESA G-POD: Four years of G-POD Sar Service

Benveniste, Jérôme (1); Dinardo, Salvatore (2); Sabatino, Giovanni (3); Restano, Marco (4); Ambrozio, Americo (5), 1: ESA-Esrin, Italy; 2: He Space/EUMETSAT, Eumetsat-Allee 1, 64295 Darmstadt; 3: Progressive system, srl; 4: Serco, Spa; 5: DEIMOS c/o ESA/ESRIN, Largo Galileo Galilei 1, Frascati, Italy

## Day 2 - 27/02/2019

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Room: Big Hall

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### Welcome coffee

09:00 - 09:20

### Subsidence Applications

Chairs: Donnelly, Rory Patrick (EARSC), Reinartz, Peter (DLR German Aerospace Center)

09:20 - 11:00

#### 09:20 The Role of SAR Interferometry in Infrastructure Monitoring

Brcic, Ramon; Rodriguez Gonzalez, Fernando; Parizzi, Alessandro; De Zan, Francesco; Eineder, Michael; Zhu, Xiaoxiang,

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German Aerospace Center (DLR), Germany

09:40 **Monitoring of Infrastructure Based on German Ground Motion Service**

Lege, Thomas; Kalia, Andre C.; Frei, Michaela, BGR, Germany

10:00 **CyCLOPS: The Formation of a Strategic Research Infrastructure Unit for Space-based Monitoring of Geohazards and Critical Infrastructure in the Southeastern Mediterranean Region**

Presenting author: Danezis, Chris

Danezis, Chris (1); Hadjimitsis, Diofantos G. (1); Eineder, Michael (2); Brcic, Ramon (2); Themistocleous, Kyriacos (1);

Papoutsas, Christiana (1); Tzouvaras, Marios (1); Nikolaidis, Marios (1), 1: Cyprus University of Technology, Cyprus; 2:

German Aerospace Center

10:20 **Best Practices for Use of Remote Sensing in Sustainable Asset Management.**

Presenting author: Stoppelman, Patrick

Leezenberg, Pieter Bas; de Vries, Marjan; Stoppelman, Patrick, SkyGeo, Netherlands, The

10:40 **Planet Data and Platform for Daily Infrastructure Monitoring**

Griesbach, Rene; Jawad, Athiye, Planet Labs Germany GmbH, Germany

### Open Discussion on Subsidence Applications

11:00 - 11:20

### Coastal, Hydrology, Tunnels, Bridges, Mining and Energy (cont'd)

Chairs: Böhm, Karsten (Bundesanstalt für Gewässerkunde / Federal Institute of Hydrology), Della

Croce, Raffaele (OECD)

11:20 - 11:40

11:20 **Coastal Erosion project within the Science for Society slice of the 5th Earth Observation Envelope Programme of the European Space Agency: end users requirements**

Presenting author: Payo, Andres Garcia

Ellis, Michael Alexander; Payo, Andres Garcia, British Geological Survey - NOTTINGHAM, Nottinghamshire, United Kingdom

### Summaries: Conclusion Report from Session chairs

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11:40 - 12:10