

**Mineral Exploration Symposium 2020**  
**17-18 September 2020**

To be moderated by :  
Caroline Le Turdu (*Schlumberger*) and Jean-Jacques Biteau (*Total Professor Associate*)

**Day 1- Clustering event: 17 September (13:00 – 17:30)**

<b>Introduction</b>		
13:00	<b>Welcome and opening remarks</b> by Arnoldas Milukas – EASME, European Commission	
13:05	<b>"Introduction to the EU challenges on mineral exploration and its importance for the society"</b> by Gerardo Herrera – DG GROW, European Commission	
13:15	<b>"Mineral exploration in the Horizon programme"</b> by Jonas Hedberg – EASME, European Commission	
<b>Session 1: Societal challenge 5 – Raw Materials</b>		
13:25	Exploration of the Gerolekas bauxite mining site using passive geophysical methods - H2020 Smart Exploration project	George Apostolopoulos
13:40	The Development of Reference Sites for Mineral Exploration under Tec-Soc-Env Conditions - H2020 INFACT project	Michaela Kesselring
13:55	Seismic imaging at a mineral-deposit scale using high-frequency surface waves (0.5–24 Hz) in ambient noise wavefield - H2020 PACIFIC project	Yihe Xu
14:10	Innovative Exploration Concepts and Technologies - H2020 NEXT Project	Vesa Nykänen
14:25	Increasing exploration efficiency with SOLSA Expert System - H2020 SOLSA project	Monique Le Guen
<b>Session 2: ERA-NET Cofund on Raw Materials (ERA-MIN 2)</b>		
14:40	Advanced Magnetic Full Tensor Gradiometer - AMTEG project	Matthias Meyer
14:55	LIGHTS (Lightweight Integrated Ground and Airborne Hyperspectral Topological Solution) project	Antoine Petrelli
15:05	<b>Interactive Q&amp;A: Sessions 1 &amp; 2</b>	
<b>15:30- Coffee break</b>		
<b>Session 3: European Institute of Innovation and Technology (EIT) Raw Materials</b>		
15:50	ANCORELOG (Analytical Core Logging System) project	Carlos García Piña
16:05	Seismic Imaging Schemes for Mineral Exploration: The SIT4ME view	Ramon Carbonell
16:20	A game changing exploration technology for underwater environments - H2020 UNEXMIN and EIT UNEXUP projects	Márcio Pinto
16:35	Evaluating the correlation between ground information and satellite spectral data by geostatistical tools - COP-Piles project	Roberto Bruno
<b>Session 4: European Geological Surveys Research Area (GeoERA) – Raw Materials</b>		

16:50	Mineral Prospectivity Mapping for energy critical elements in Europe: the Cell Based Association approach - FRAME project	Guillaume Bertrand
<b>17:05</b>	<b>Interactive Q&amp;A: Sessions 3 &amp; 4, and conclusion</b>	
17:25	<b>Wrap-up of the day</b> by Véronique Woulé Ebongué – EASME, European Commission	
<b>17:30 - Closure of the clustering event</b>		

**Day 2- Open call event: 18 September (09:00 – 13:00)**

<b>Introduction</b>		
09:00	<b>Welcome and opening remarks</b> by Marcin Sadowski – EASME, European Commission	
<b>Session 1: Oral presentations ('15 min e-talks')</b>		
<i>Topic 1: Mineral mapping</i>		
09:05	Assisted processing of geological data with Deep Learning technologies: levers to optimize mineral exploration workflows?	Antoine Bouziat
09:20	Semi-automated rapid targeting of potential mineral deposits in an Alpine setting: the hard rock aggregates example	Lukas Nibourel
<i>Topic 2: Software</i>		
09:35	Progress towards the development of a sulfide targeting tool for mineral exploration under cover	Simon Richards
09:50	A numerical toolbox to calculate the seismic properties of micro-sized isotropic and anisotropic minerals	Mohsen Bazargan
<i>Topic 3: Geophysics</i>		
10:05	Exploration capabilities of airborne broadband natural electromagnetic fields measurements	Alexander Prikhodko
10:20	BEM, Broadband Electromagnetic Smart Method, phenomenology, theory, applications	Ali Bostani
<b>10:35</b>	<b>Interactive Q&amp;A: Session 1 and panel discussion</b>	
<b>11:00 - Coffee break</b>		
<b>Session 2: Poster presentations ('rapid fire talks')</b>		
<b>Topic 1: Mineral mapping</b>		
11:20	Prospectivity mapping of critical raw material at the continental scale - a part of the FRAME project	Martiya Sadeghi
11:25	Integrated Studies Intrigue to Mineral Prospectivity. Applicability to Kikombo, Dodoma, Tanzania	Godfrey Mwendenusu
11:30	Screening critical raw materials from exploration to (post)beneficiation using LIBS: first glance at project LIBS-SCReeN	Sophie Verheyden
11:35	Comparing sulfide trace elements and sulfur isotopes of Au-only and atypical orogenic mineralization from northern Finland	Mikael Vasilopoulos

<i>Topic 2: Software</i>		
11:40	Integrated 3D Modelling of Variable Magnetic Remanence Fields	Michael Morse
<i>Topic 3: Geophysics</i>		
11:45	Developments in airborne geophysics, with particular reference to European and EU-funded projects	Tim Archer
11:50	Target generations using constrained 3D gravity inversion and innovative in-mine-surface seismic surveys, Neves-Corvo, Portugal	Joao Carvalho
11:55	A tailored workflow for advanced high-resolution seismic imaging of mineral exploration targets	Stefan Buske
12:00	Technology watch of airborne mineral exploration methods	Stephane Ruiz-Coupeau
12:05	Drones: The New Normal in Geophysical Mapping	Ronald Bell
<i>Topic 4: Mineral assessment</i>		
12:10	Assessment of Critical Raw Materials content in Phosphate mineralizations: an objective of the FRAME project	Sophie Decrée
12:15	Raman Spectroscopy as a tool for identification and valorisation assessment of critical raw materials: Graphite case	Marta Alonso Fernández
12:20	Multisensor drill core logging integrating XRF and SWIR sensors to support machine learning	Pedro Simoes Mendes
<i>Topic 5: Sustainability</i>		
12:25	A European Perspective on Evolving Standards for Public Reporting on Mineral Exploration Results	Edmund Sides
12:30	<b>Interactive Q&amp;A: Session 2, panel discussion and conclusion</b>	
12:55	<b>Wrap-up of the day and closing remarks</b> by Véronique Woulé Ebongué – EASME, European Commission	
<b>13:00 - Closure of the symposium</b>		