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## EFG Project news #6

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[EFG Project news - December 2016](#)[View this email in your browser](#)

Dear EFG Delegates,

Welcome to the sixth issue of Project News, our quarterly publication about the current status of the seven Horizon2020 projects in which EFG is involved.

We would appreciate if you could include information about these projects in your own dissemination channels in order to maximise the outreach all over Europe. We remain at your disposal for any questions you might have and will provide you, upon demand, with publicity material for any of the projects.

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## INTRAW

### International cooperation on raw materials

**PROJECT NUMBER:** 642130**START DATE:** 01.02.2015**DURATION:** 36 MONTHS

The 36-months project [INTRAW](#), which started in February 2015, aims to map best practices and develop new cooperation opportunities related to raw materials between the EU and technologically advanced countries (Australia, Canada, Japan, South Africa and the United States) in response to similar global challenges. The outcome of the mapping and knowledge transfer activities conducted in the first two years of the project will be used as a baseline to set up and launch the European Union's International Observatory for Raw Materials as a permanent raw materials knowledge management body.

**EFG Role:**

The European Federation of Geologists (EFG) is the coordinator of a consortium of 15 partners from different countries including Australia, the United States and South Africa. Most of EFG's members are also part of the consortium as EFG Linked Third Parties.

**Highlights for this reporting period:**

- **Interim report:** EFG reported on the first 18-month period, both technically and financially, including the reports from Linked Third Parties (LTPs) on 30 September 2016. As a project coordinator, EFG collected the activity of the INTRAW partners and submitted the interim report to the European Commission.
- The **project evaluation** by the European Commission took place in Cornwall (UK) on 5 October 2016. The project received a very positive evaluation for the work done until now.
- **Joint Panels of Experts workshop:** The representatives of INTRAW's Joint Panels of Experts met in Falmouth, Cornwall, from 5 to 7 October 2016 in order to validate the reports prepared by the project consortium that focus on raw materials related research & innovation, education & outreach and industry & trade in the five reference countries. These three reports underpin the development of a better understanding of the achievements made in the five countries in relation to the entire raw materials value chain and will be presented to the public in 2017. Moreover, the experts also provided precious input on the development of the business model of the International Observatory for Raw Materials. The workshop closed with a visit to the Geevor and Botallack tin mines, which are part of the UNESCO world heritage.
- **Scenario workshop:** In the framework of the Raw Materials Week (Brussels, 28 November - 2 December 2016 organised by the European Commission, DG Growth) the INTRAW Consortium co-organised a workshop. Participants were invited to comment and elaborate three different possible future scenarios for global raw materials provisioning in 2050. This attempt to look into the long-term future of the mineral raw materials world will be used to explore two pathways: 1) how to prepare for the three scenarios; and 2) which is the desired scenario and how to safeguard against the others.

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## KINDRA

### Knowledge Inventory for hydrogeology research



PROJECT NUMBER: 642047

START DATE: 01.01.2015

DURATION: 36 MONTHS

Groundwater and hydrogeology-related research activities cover a wide spectrum of research areas at EU and national levels. However, groundwater issues are quite often either ignored or considered only in insufficient detail and separated from the associated surface water bodies, despite groundwater's critical importance as renewable, high-quality, naturally protected (but still vulnerable) resource that has significant impacts on both surface water bodies and ecosystems. The EU-funded KINDRA project seeks to take stock of our current knowledge of hydrogeology through an inventory of research results, activities, projects and programmes.

**EFG Role:**

The European Federation of Geologists (EFG) is the leader on the data collection and processing to carry out EU-wide assessment of existing practical and scientific knowledge (using the developed HRC-SYS) focusing on EU, national, regional, international and EU-third party scientific activities. This assessment will be implemented with the help of the national members of EFG. EFG is also involved in the dissemination activity. Most of EFG's members are also part of the consortium as EFG third parties.

**Highlights for this reporting period:**

- **Amendments:** An amendment to the KINDRA Grant Agreement was presented the 28 September 2016 for the termination of Linked Third Party (LTP) French Geological Society and assignment of tasks and budget to EFG. The work of the French LTP will be carried out by an expert employed by EFG (Marina Alazard) with the support of the French national chapter of the International Association of Hydrogeologists. The EFG Office assists with technical support. The French national workshop was organised as a KINDRA session within the 43rd annual congress of IAH, Montpellier (France) on 27 September 2016. The session was coordinated by EFG in collaboration with the KINDRA Coordinator and Partners.
- **KINDRA Interim Report:** EFG reported on the first 18-month period, both technically and financially, including the reports from LTPs on 30 September 2016.
- **KINDRA evaluation meeting:** The project evaluation by the European Commission took place in Brussels, on 24 October 2016. The project received a very positive evaluation for the work done until now.
- **KINDRA national workshops:** National workshops were organised in the countries covered by the LTPs. A full calendar with the dates of all national workshops is available on the [KINDRA website](#). The deadline for this action was October 2016, however some national workshops have been organised after this date due to relation with others national events.
- **National workshop report:** LTPs were asked to report on the national workshops before 30 October 2016. Based in the national workshops reports EFG prepared the Deliverable D2.2, National Workshops report (deadline 30 November 2016).
- The national experts from each Linked Third Party (LTPs) are populating the [European Inventory on Groundwater Research](#) (EIGR) with national data. A report on this activity will be presented by EFG in the Deliverable 2.4 (deadline 30 December 2016).
- In addition to the population of the KINDRA inventory, the national experts will provide a **Country report**. In this report the LTPs need to inform about the "qualitative" information concerning uploading research / knowledge to the EIGR in the particular country. Based on the LTPs Country reports EFG will prepare the Deliverable 2.3, LTPs Country reports (deadline 31 December 2016).



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**MINATURA**

Developing a concept for a European minerals deposit framework



PROJECT NUMBER: 642139

START DATE: 01.02.2015

DURATION: 36 MONTHS

MINATURA2020 was launched in February 2015 as a response to social needs to safeguard mineral deposits of public importance for the future. The overall objective of this three-year project is to develop a concept and methodology for the definition and subsequent protection of "Mineral Deposits of Public Importance" (MDoPI) in order to ensure their best use in the future.

**EFG role:**

EFG is involved in the establishment of the Council of Stakeholders and leads the Work Package on Dissemination.

**EFG activities:**

- Created the **project website** and the national pages on the website, collected information from 24 partners on their own languages for the pages.
- Prepared the **communication and dissemination plan** for MINATURA2020.
- Prepared a **poster, two brochures, two press releases and a leaflet** about the project,
- Created and maintains the "**MINATURA Outreach Table**" with all dissemination events,
- Co-organised with APG the international **workshop "The importance of geological knowledge for sustainable land use"** on 19-20 May, 2016 in Lisbon.
- **Interim report:** EFG reported the 18-month period, both technically and financially on time.
- The **project evaluation** took place in Dreistetten, Austria, on 27 October 2016. EFG presented the WP6 progress. The completion of the first half of the project was accepted.



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## **iVAMOS!**

iViable and Alternative Mine Operating System!



PROJECT NUMBER: 642477

START DATE: 01.02.2015

DURATION: 42 MONTHS

The aim of the EU-funded iVAMOS! (Viable Alternative Mine Operating System) project is to design and build a robotic, underwater mining prototype with associated launch and recovery equipment, which will be used to perform field tests at four EU mine sites. Deriving from successful deep-sea mining techniques, the iVAMOS! mining solution aspires to lead to: 1) re-opening abandoned mines; 2) extensions of open cut mines which are limited by stripping ratio, hydrological or geotechnical problems; and 3) opening of new mines in the EU.

**EFG role:**

EFG supports the project through stakeholder engagement and dissemination activities.

**Highlights for this reporting period:**

- The deliverable **D1.5 Stakeholder Workshop Report** was produced and submitted to the European Commission on 7 July 2016.
- **Interim report:** EFG reported the 18-month period, both technically and financially on 30 August 2016.
- The **project evaluation** by the European Commission took place in Brussels, on 4 October 2016. Below the Work Package 1, EFG presented the outcome from the two stakeholder workshops organized during this project life time. The project received a very positive evaluation for the work done until now.
- After 18 months the iVAMOS! Consortium has reached the "**design freeze**" stage of the prototypes to be built. More info at <http://vamos-project.eu/vamos-reaches-design-freeze-milestone/>
- EFG will stay active in the project **dissemination** via the EFG news section and communication tools.



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## CHPM2030

Combined Heat, Power and Metal extraction from ultra-deep ore bodies



PROJECT NUMBER: 654100

START DATE: 01.01.2016

DURATION: 42 MONTHS

The CHPM2030 project aims to develop a novel, pilot level technology which combines geothermal resource development, minerals extraction and electro-metallurgy in a single interlinked process. In order to improve the economics of geothermal energy production the project will investigate possible technologies of manipulating metal-bearing geological formations with high geothermal potential at a depth of 3-4 km in a way that the co-production of energy and metals will be possible and may be

optimised according to the market demands in the future. Led by the University of Miskolc, the project will be implemented in the cooperation of 12 partners from 10 European countries.

**EFG role:**

EFG supports the activities for the CHPM2030 methodology framework definition (WP1), particularly the European data integration and evaluation: EFG's Linked Third Parties (LTP) will collect publicly available data at national level on deep drilling programmes, geophysical and geochemical explorations and any kind of geo-scientific data related to the potential deep metal enrichments. They will also collect data on the national geothermal potential. Guidelines/templates for data collection will be provided by EFG.

During the second year, EFG will support the road mapping and preparation for Pilots (WP6), European Outlook. EFG's Linked Third Parties (LTPs) will assess the geological data on suitable ore-bearing formations and geothermal projects, which were collected in WP1, in relation with the potential application of the CHPM technology. This work will combine these data with the outcomes of the most recent predictive metallogenic models. Only existing datasets will be utilised, no new surveys will be carried out. EFG also leads the Work Package on dissemination.

**Highlights for this reporting period:**

- **Methodology framework definition** (WP1): European data integration and evaluation. EFG and LTPs delivered the following actions:
  1. EFG prepared template for data collection (M2)
  2. LTPs collected publicly available data at national level (deep drilling programmes, geophysical and geochemical explorations) (M6)
  3. LTPs collect data on the national geothermal potential (M6)
  4. EFG supervises data collection, summarise the datasets at European level, and identify the data gaps (M4-8)
  5. Consultation with Partners: EFG summary report (M9)
  6. EFG will provide the datasets to the WP leader (M10)
- **Dissemination and stakeholder involvement** (WP7): EFG delivered during the following deliverables: Final project web site (M6); Project image and stylebook (M4); Communication and dissemination plan (M6); Brochure 1st edition (M6); Newsletter 1 (M6) and Press release and media kits (M6).
- **LTPs dissemination support:** EFG requested the LTPs to disseminate the last CHPM press release about the Consortium meeting of the CHPM2030 project, Älvkarleby, Sweden, 12 October 2016.



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**UNEXMIN**

Autonomous Underwater Explorer for Flooded Mines



PROJECT NUMBER: 690008

START DATE: 01.02.2016

DURATION: 45 MONTHS

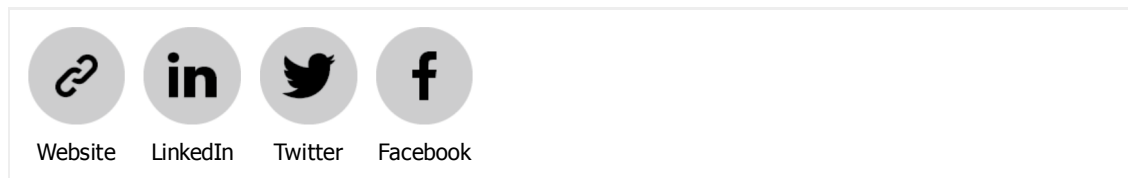
Thirteen organisations from seven countries across Europe are collaborating in this ambitious project to develop a submersible robotic system for surveying and exploration of flooded mines. The €5M project, funded by the European Union's Horizon 2020 research programme, will include the development of a Robotic Explorer (UX-1) for autonomous 3D mine mapping to gather valuable geological information that cannot be obtained in any other way: in general the mines will be too deep and dangerous for access by human divers.

#### **EFG role:**

Some of EFG's national associations participate in this project as Linked Third Parties and support the consortium through data collection for the inventory of flooded mines. EFG also supports the Work Package on dissemination and EFG's Third Parties will disseminate the project results at national level in web portals, newsletters, conferences, workshops, educational activities, exhibitions or any other relevant means.

#### **Highlights for this reporting period:**

- **Deliverables 5.1** (Stakeholder engagement protocol) and **5.2** (Requirements and specifications) were submitted on time.
- The UNEXMIN consortium had a **meeting in Madrid** to discuss advancements on software and hardware decisions related to the UX-1 robot development. The post-processing data analysis and respective database were also discussed. This second follow-up UNEXMIN workshop, organised on 25 and 26 October 2016, served to get the project team together in order to discuss very important aspects of the project and the UX-1 developments.
- **Data collection template** and communication finalisation in the framework of Task 5.4 – Inventory of flooded mines



## **MICA**

### **Mineral Intelligence Capacity Analysis**



PROJECT NUMBER: 689648

START DATE: 01.12.2015

DURATION: 26 MONTHS

The MICA project brings together experts from a wide range of disciplines in order to ensure that Raw

Materials Information is collected, collated, stored and made accessible in the most useful way in order to correspond to stakeholder needs. Hence, the goal for MICA is to provide stakeholders with the best possible information, in a seamless and flexible way using an ontology-based platform, the European Union Raw Materials Intelligence Capacity Platform (EU-RMICP). To accomplish this goal, MICA will assess sources of relevant data and information and conduct analyses of appropriate methods and tools in order to provide guidelines and recommendations.

**EFG role:**

EFG supports the Work Package on communication, outreach and linkages. In collaboration with EuroGeoSurveys, EFG is involved in the development of the communication strategy, the engagement with geosciences data providers & professionals and public outreach.

**Highlights for this reporting period:**

- EFG participated in the **MICA meeting** in Brussels, 27-29 September, where the WPs were presented and progress so far has been discussed.
- EFG prepared and distributed a **questionnaire** and collected data through the online survey in the frame of WP2 and also conducted two interviews with the stakeholders (Initiative for responsible mining and Industry All Global Union) in order to find out their needs and expectations of the MICA platform.



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## FORAM

### Towards a World Forum on Raw Materials



PROJECT NUMBER: 730127

START DATE: 01.11.2016

DURATION: 24 MONTHS

The project Towards a World Forum on Raw Materials (FORAM) will develop and set up an EU-based platform of international experts and stakeholders that will advance the idea of a World Forum on Raw Materials and enhance the international cooperation on raw material policies and investments. This platform will work together on making the current complex maze of existing raw material related initiatives more effective. As such, the FORAM project will be the largest collaborative effort for raw materials strategy cooperation on a global level so far. Synergies with relevant EU Member States initiatives will be



explored and fostered. Particularly, the project will seek to engage the participation of G20 Member countries and other countries active in the mining and other raw materials sectors, so that experiences will be shared and understanding of all aspects of trade in raw materials will be increased.

The FORAM project is coordinated by the World Resources Forum Association (WRFA) and supported by eleven additional leading organisations (EuroGeoSurveys, European Federation of Geologists, United Nations University, Leiden University, University Kassel, Clausthal University of Technology, ESM/Matsearch, Gondwana Empreendimentos e Consultorias, Servicio Geológico Colombiano, MinPol GmbH and La Palma Research Centre for Future Studies SL), which compose the FORAM consortium.

**EFG role:**

EFG leads Work Package 3 on "Strategic Planning" which will set the stage for the WFRM using a highly participative process. WP3 will define and present a long term vision and its strategic positioning as well as an appropriate framework to measure performance and to respond to geo-political, technological and economical changes.

**Highlights for this reporting period:**

- **Kick-off Meeting:** The FORAM project was launched on 30 November 2016 in Brussels, during the first Raw Materials Week organised by the European Commission.



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*These projects are supported by the European Commission's Horizon2020 programme.*



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