

**Grant Agreement no. 821159**

**TARANTULA PROJECT**

**Recovery of Tungsten, Niobium and Tantalum occurring as by-products in mining and processing waste streams**



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**Deliverable D8.2 Report on exhaustive identification and updating of related projects in view of clustering and SLO activities within TARANTULA**

|                       |   |
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## ABBREVIATIONS AND ACRONYMS

|       |                              |
|-------|------------------------------|
| CA    | Consortium Agreement         |
| CC    | Conference Call              |
| DoA   | Description of the Action    |
| EAB   | External Advisory Board      |
| EC    | European Commission          |
| EC-GA | Grant Agreement with the EC  |
| FM    | Final Meeting                |
| FR    | Final Report                 |
| GB    | Governing Board              |
| IPR   | Intellectual Property Rights |
| PR    | Periodic Report              |
| PO    | Project Officer              |
| QAP   | Quality Assurance Plan       |
| TL    | Task Leader                  |
| ToC   | Table of Content             |
| WP    | Work Package                 |
| WPL   | Work Package Leader          |

## EXECUTIVE SUMMARY

The purpose of this work is to document a detailed report of TARANTULA Task 8.6, that must be delivered on month 9 of the project, which means that it covers projects related until January 2020. The purpose of this deliverable is to provide an exhaustive identification and updating of related projects in view of clustering and Social License to Operate activities within TARANTULA, covering those projects with starting dates later than 2014 and 2020 closing dates. Deliverable 8.2 is associated with Task 8.6 on “Identification and updating of related projects”, supplementing it, giving more detailed information and analysing the database created for this purpose.

With this report analysis, it is enabled a wider scope of applications and also to open new paths to the clustering and Social License to Operate activities within TARANTULA, outlining possible opportunities for involved members and new interested partners that could benefit from the results obtained.

The five main sections addressed by this deliverable are Task description, Sources of information and data selection, Overview of projects related to TARANTULA, Timeline of related projects and Connection with T8.7.

**Task description** offers a general outlook of the projects identified, providing a framework of cooperation for the information transference on the basis of knowledge exchanged, including Task progress/major changes through different versions and analysis of related projects itself, outlining: Link with TARANTULA, Funding schemes, Percentage financed and budget averages, Coordinator's country, Members of the consortium, Project duration and Status of the projects.

**Sources of information and data selection** aims to clarify the sources employed to enable a proper selection of information introducing how data was selected in order to do an adequate search for projects linked with TARANTULA, taking into consideration many aspects and attributes using different resources, databases and filters.

**Overview of projects related to TARANTULA** contains an exhaustive list of projects related to TARANTULA, classified into eight categories: “Social License to Operate”, “Raw Materials Processing”, “Residues and Tailings”, “Geomodels, mapping and exploration”, “Circular Economy”, “Substitution of materials and extreme conditions”, “Minerals supply information”, “R&I Networking”.

**Timeline of related projects** shows how projects were allocated over time, giving a more appealing identity.

**Connection with T8.7 - Contribution to clustering workshops and activities** includes some ideas coming from the identification of projects that feeds into the clustering and general communication/dissemination activities, promoting significant synergies in cooperation and

verifying that data inputs. Knowledge and information from previous completed or ongoing projects are available in a timely manner to be incorporated into the TARANTULA knowledge base in Task 8.7.

Main results reached include a database for related projects made and shared with Task participants. The database includes 122 projects relevant to TARANTULA, divided into 8 categories and containing up to 12 parameters for each project. All the analysis developed will input future activities involving clustering topics for T8.7, for the benefit of TARANTULA Consortium and new interested partners that could also take advantage from the results obtained.

## 1. INTRODUCTION AND OBJECTIVES

The TARANTULA consortium has already identified several EU H2020 ETN/RIA/IA projects that are complementary to TARANTULA and which share key generic topics such as Social License to operate (SLO) SLO and Life-Cycle Assessment (LCA) methodologies for the raw materials processing of (low-grade) primary and secondary, critical metal-containing resources. These projects include ETN SULTAN and IA NEMO (sulfidic tailings reprocessing), IA CROCODILE (setting up a Co value chain using low-grade Ni-laterite ores and End-of-Life Li-ion NMC batteries) and RIA METGROW+ (metallurgical toolbox for zero-waste valorisation of low-grade industrial residues incl. slags, Zn residues and tailings), among others. In Task 8.6, TARANTULA performed an exhaustive search of other relevant EU projects, including those granted until the latest round of proposals (April 2019). The identification of these projects will feed into the clustering (Task 8.7) and general communication/dissemination activities (Task 8.2).

The exhaustive list of projects related to TARANTULA has been classified into eight main categories:

- Social License to Operate (SLO)
- Raw Materials Processing
- Residues & Tailings
- Geomodels, mapping and exploration
- Circular Economy
- Substitution of materials and extreme conditions
- Minerals supply information
- R&I Networking

The identification of these projects will feed into the clustering and general communication/dissemination activities (defined in subsection 6 “Connection with T8.7 - Contribution to clustering workshops and activities”).

It is, therefore, essential to address the potential connections of TARANTULA with other relevant projects to detect possible contributions previously unidentified, to enrich this project and the knowledge on raw materials, by-products in mining and processing waste streams' recovery. For this reason, TARANTULA aims with this deliverable to summarise the compiled information in the Task associated, taking advantage of inputs gleaned from existing projects and providing outputs and information not only TARANTULA but also other coming projects.

## 2. TASK DESCRIPTION

As previously mentioned, TARANTULA T8.6 performed an exhaustive search of relevant EU projects and this identification will feed into the clustering and general communication/dissemination activities.

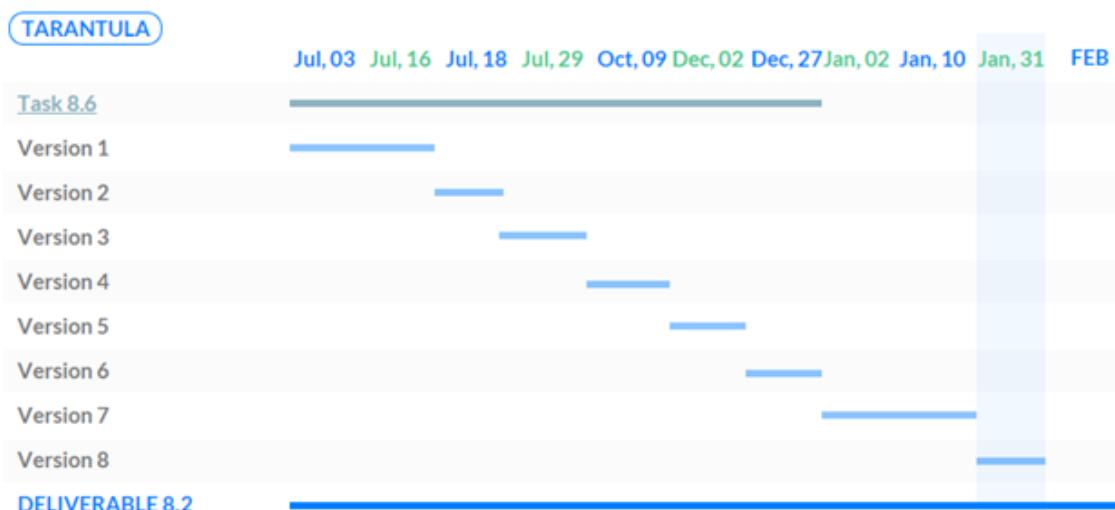
It is for this reason that in the course of Task 8.6, participating TARANTULA's partners identified 122 relevant projects using data from different resources. The jointly elaborated database of related projects is an added value that may serve the purpose of future detailed collections. It contains valuable information in order to identify and enhance the performance and achievements of clustering activities and communication and dissemination processes.

Furthermore, information resulting from the mapping exercise was analysed by the TARANTULA members aiming to target close projects, promoting significant synergies in cooperation and verifying that data inputs, knowledge and information from previous completed or ongoing projects are available in a timely manner to be incorporated into the TARANTULA's knowledge base in Task 8.7. These points are explained in subsection 6 of this deliverable ("Connection with T8.7 - Contribution to clustering workshops and activities")

Through Task 8.6, the proposal provides a framework of cooperation that ensures an effective interaction and communication between relevant players (TARANTULA consortia and other projects members) for the transference of information on the basis of knowledge exchanged.

### 2.1. TASK PROGRESS

Using the sources of information detailed in part 3, and after doing an appropriate selection to include only the projects and topics closely related to TARANTULA, 122 items have been identified for the mapping of Deliverable 8.2. Even though it is true that many changes have been taken through Task 8.6/deliverable versions (see figure 1).



**FIGURE 1- Task 8.6 & Deliverable 8.2 versions**

Main changes in versions 1 to 7 are included in table 1. It is important to note that first draft of Task 8.6 was launched on July 16<sup>th</sup>, being concluded on December 27<sup>th</sup>.

**TABLE 1- Versions content and changes**

| T8.6-D8.2                 | Content   | Main changes from previous version   |
|---------------------------|---|--|
| <b>Version 1<br/>(v1)</b> | -Related projects (ongoing): <b>35 projects added</b><br>-Information collected: Title, Acronym, Main objective, Call & Topic, Starting and finish dates, Coordinator (name and email), Partners, Total budget, Logo, Website<br>- Grouped by SLO, LCA, Raw materials processing, residues & tailings | -  |
| <b>Version 2<br/>(v2)</b> | Revision of V1  | - Deleted ERA-MIN 2 as project<br>- Added Era-min 2 joint call funded projects ( <b>7 projects</b> )<br>- Added SME instrument funded projects filtered by “eco-innovation” and “raw materials” ( <b>1 project</b> )<br>- Added Interreg Europe funded projects ( <b>3 projects</b> )                              |
| <b>Version 3<br/>(v3)</b> | Revision of V2  | Minor corrections according to partner suggestions:<br>- Format<br>- New ideas and content added   |
| <b>Version 4<br/>(v4)</b> | Revision of V3  | - Added new information for projects: G.A. ID and CORDIS Link.<br>-Logo revision<br>- Added “2. Sources of information and data selection” (to be completed)<br>- Added timeline of projects related to TARANTULA (to be completed)<br>- Added “Conclusions” section (to be completed)                             |
| <b>Version 5<br/>(v5)</b> | Revision of V4  | - Modified the time horizon of projects related (2014-2020) ( <b>38 projects added</b> )<br>- Began building deliverable format  |
| <b>Version 6<br/>(v6)</b> | Revision of V5  | - Added EIT Raw Materials funded projects ( <b>38 projects</b> )<br>- New distribution of categories: SLO, Raw materials processing, Residues and tailings, Geomodels, mapping and exploration, Circular economy, Substitution of materials and extreme conditions, Minerals supply information and R&I Networking |
| <b>Version 7<br/>(v7)</b> | Revision of V6  | - Added timeline and clustering activities   |

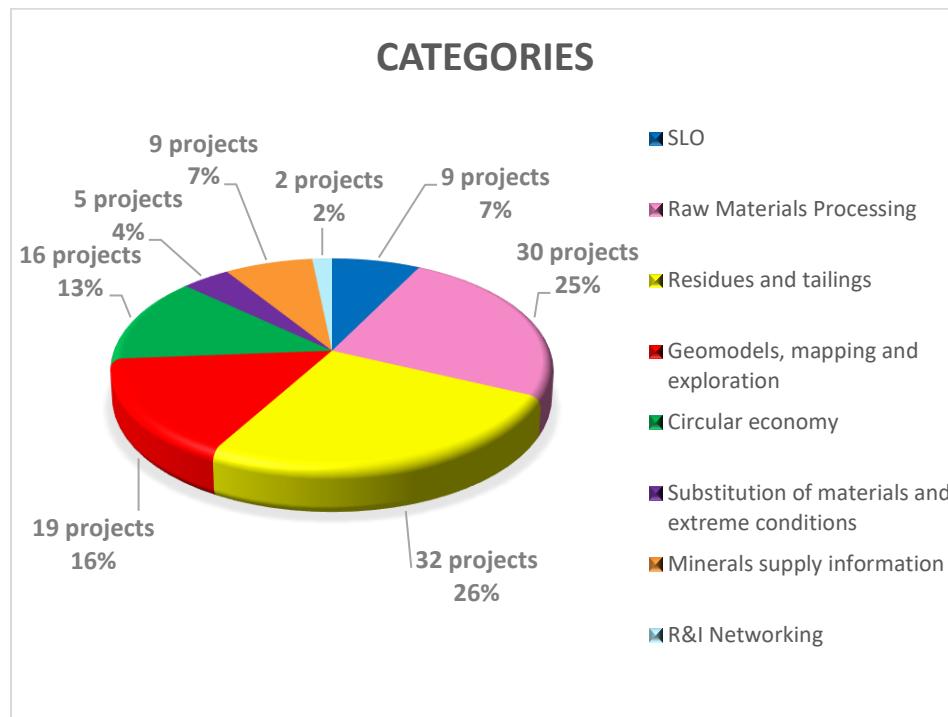
## 2.2. TASK ANALYSIS

To ensure the proper suitability of the projects to the needs established with this Task, some classifications were made, and hereafter it is going to be explained the analysis made, in order to describe the potential of TARANTULA's links to other granted projects, outlining:

- Link with TARANTULA
- Funding scheme
- Budget (percentage financed and budget averages)
- Coordinator country
- Members of the consortium
- Project duration
- Status of the projects

As previously mentioned, 122 projects were selected in connection with TARANTULA. Some analytical graphics are presented below regarding different criteria. Note that the values presented in the following analysis was updated until January 2020 for the projects selected.

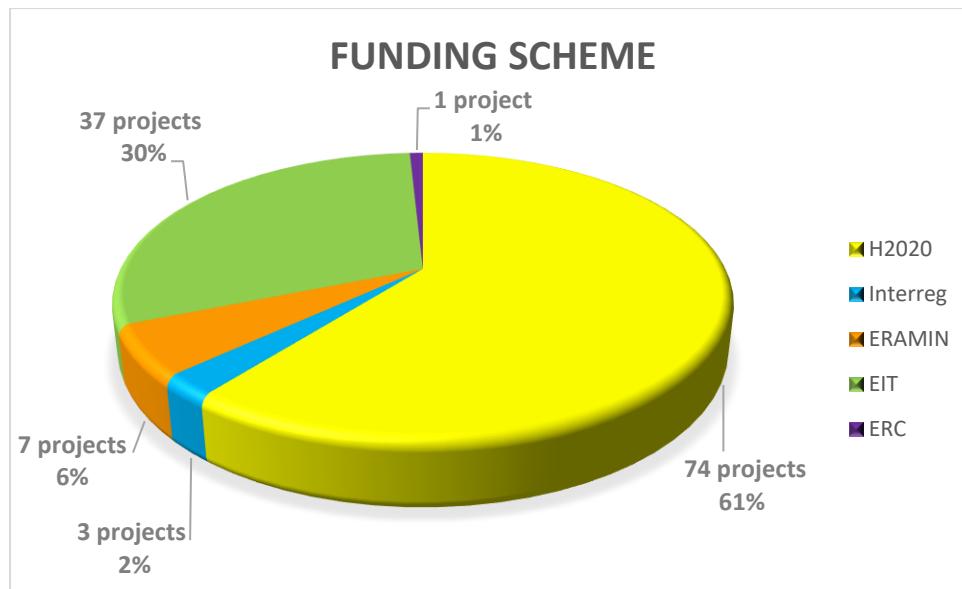
In course of Task 8.6, the extended mapping of the projects was divided into eight **categories**. Figure 2 shows the types identified, associated with their percentage (labels' bottom) and number of projects (top), for each classification.



**FIGURE 2- Project categories**

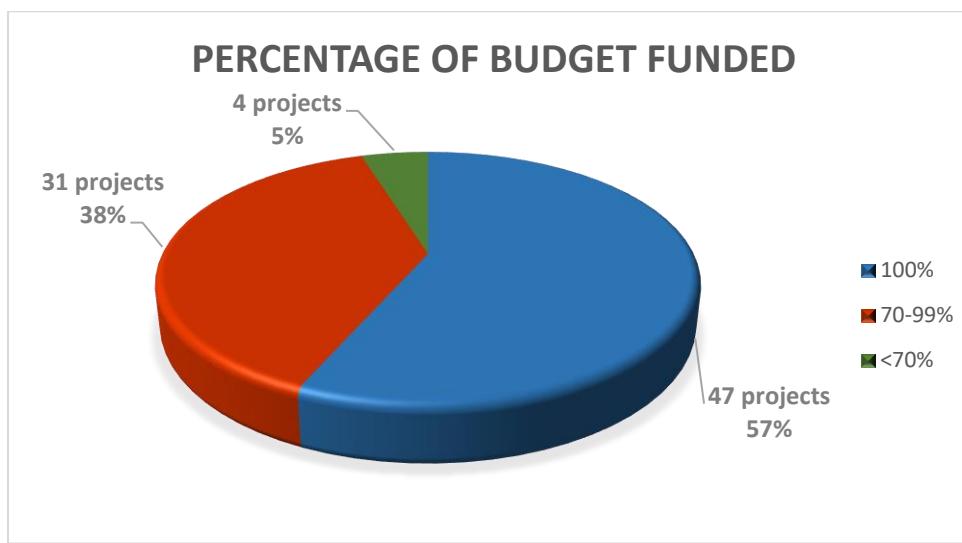
According to figure 2, the largest group of projects is "Residues and tailings", that includes 32 previous projects and means 26% of granted ones, coinciding with one of the main focuses of TARANTULA, followed by "Raw Materials Processing" projects.

Figure 3 shows the **financing scheme** for the projects assessed in course of Task 8.6 and updated up to January 2020. Most of the projects (61%) were funded by the European Commission under H2020 programme, followed by the European Institute of Innovation and Technology (EIT) Scheme.



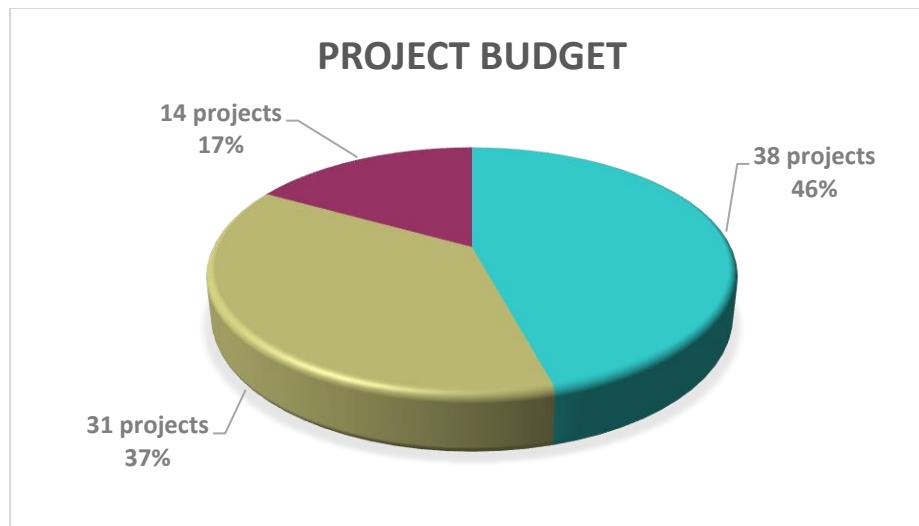
**FIGURE 3- Project funding scheme**

Regarding the project budget, figure 4 illustrates the **percentage funded** by project, divided into 3 categories: less than 70% funded, 70% to 99% funded and 100 % funded. At this point it is important to note that EITs projects are not included in this classification since budget amount and total financed is not provided by the Institute, and hence, 83 projects were accounted. Although certain trend toward not-100% granted is found, a wide majority of projects related to TARANTULA (57%) were totally funded. Their percentage (labels' bottom) and number of projects (top), for percentage financed can be found on the figure.



**FIGURE 4- Budget percentage funded**

Figure 5 shows the **project budget**, cut out by less than a million euros cost funded, between 1 to 5 million euros budget and more than 5 million euros projects. The number of projects is presented at the top part of each label, and percentage at the bottom. EITs projects are not included in this classification since budget amount and total financed is not provided by the Institute, and hence, 83 projects were accounted. As can be seen in figure 4, around half of the projects granted since 2014 have a budget higher than 5 million euros.



**FIGURE 5- Project budget**

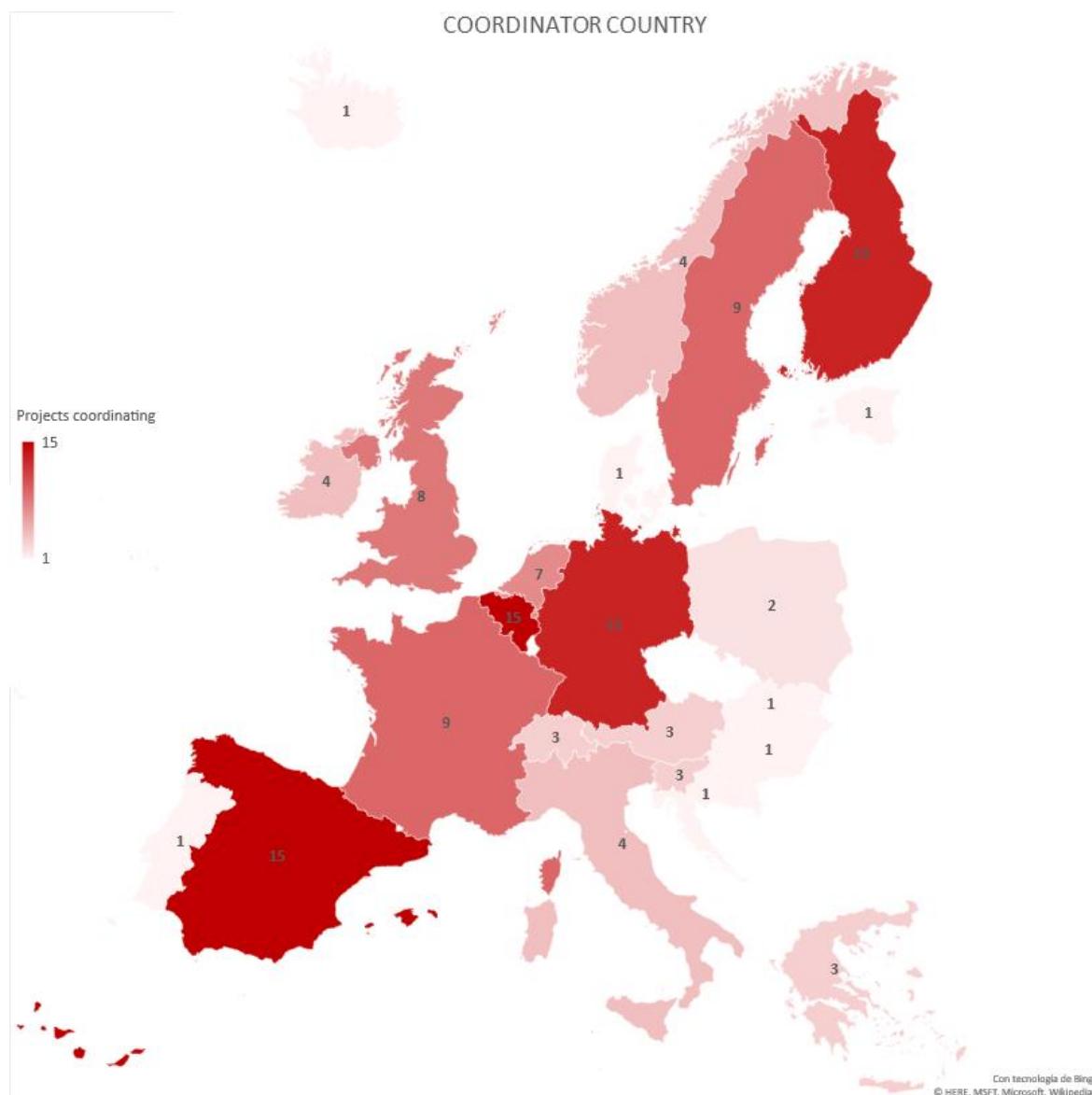
The **average budget** of projects accounted in figure 5 is included in table 2. It is worth mentioning that the global budget for the 122 projects identified related to TARANTULA is 4.738.568,82 €, without covering EIT projects and including SME instrument ones.

**TABLE 2- Average budget of projects identified**

| <b>Projects budget</b> |                |
|------------------------|----------------|
| >5 million euros       | 8.116.757,12 € |
| 1-5 million euros      | 2.531.109,09 € |
| <1 million euros       | 457.147,14 €   |

As regards project membership, on the one hand, it is going to be analysed project coordinator country and, on the other hand, the consortium dimension.

For this purpose, figure 6 includes the number of **leaders accounted by State** of the European Union. In terms of nationalities, the most frequent project coordinator countries (ranked) are Spain, Belgium, Finland and Germany.



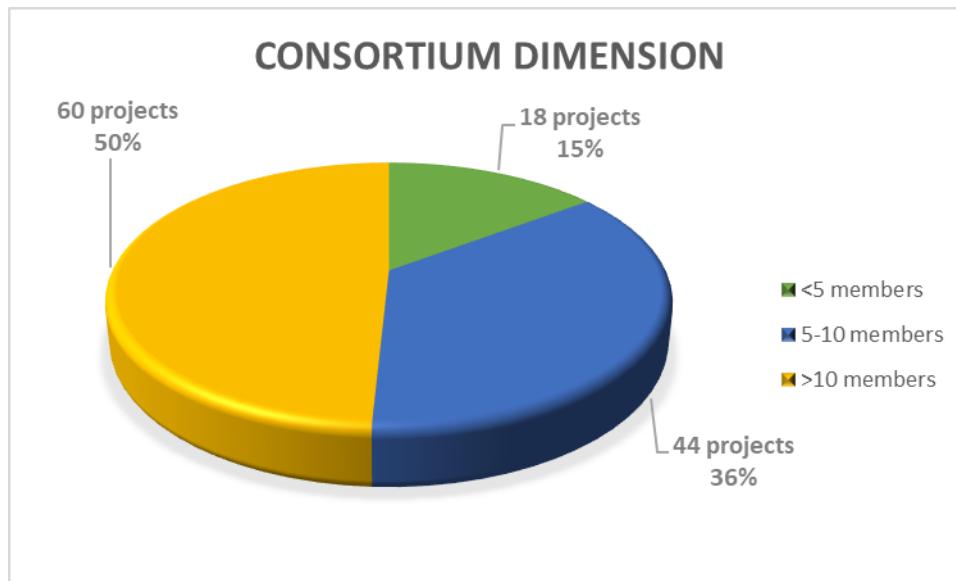
**FIGURE 6- Countries coordinating proposals related to TARANTULA**

The number of previous proposals by coordinator country, **project number per nation** and their percentage associated are shown in table 3.

**TABLE 3- Coordinator country, number of projects and percentage**

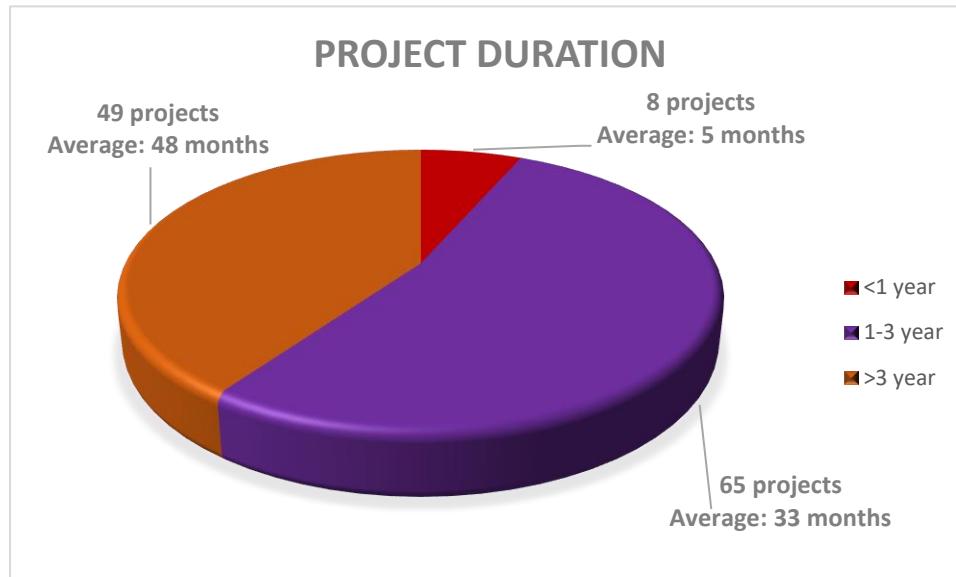
| Spain          |       | Belgium         |       | Finland            |       | Germany        |       | Sweden         |       | France          |       | United Kingdom |       | Netherlands   |       |
|----------------|-------|-----------------|-------|--------------------|-------|----------------|-------|----------------|-------|-----------------|-------|----------------|-------|---------------|-------|
| 15             | 12.3% | 15              | 12.3% | 13                 | 10.7% | 13             | 10.7% | 9              | 7.4%  | 9               | 7.4%  | 8              | 6.6%  | 7             | 5.7%  |
| <b>Ireland</b> |       | <b>Italy</b>    |       | <b>Switzerland</b> |       | <b>Austria</b> |       | <b>Norway</b>  |       | <b>Slovenia</b> |       | <b>Greece</b>  |       | <b>Poland</b> |       |
| 4              | 3.3 % | 4               | 3.3 % | 3                  | 2.5 % | 3              | 2.5 % | 3              | 3.3 % | 3               | 2.5 % | 3              | 2.5 % | 2             | 1.6 % |
| <b>Estonia</b> |       | <b>Slovakia</b> |       | <b>Portugal</b>    |       | <b>Croatia</b> |       | <b>Hungary</b> |       | <b>Iceland</b>  |       | <b>Denmark</b> |       |               |       |
| 1              | 0.8 % | 1               | 0.8 % | 1                  | 0.8 % | 1              | 0.8 % | 1              | 0.8 % | 1               | 0.8 % | 1              | 0.8 % |               |       |

Regarding consortium dimension, figure 7 illustrates **project partnership size**. On the top of the label it is provided the number of projects and on the bottom, the percentage of projects accounted by size. Noteworthy is the fact that proposals with more than 10 partners are by far the greatest group numerically, posting near the 50 % of projects identified.



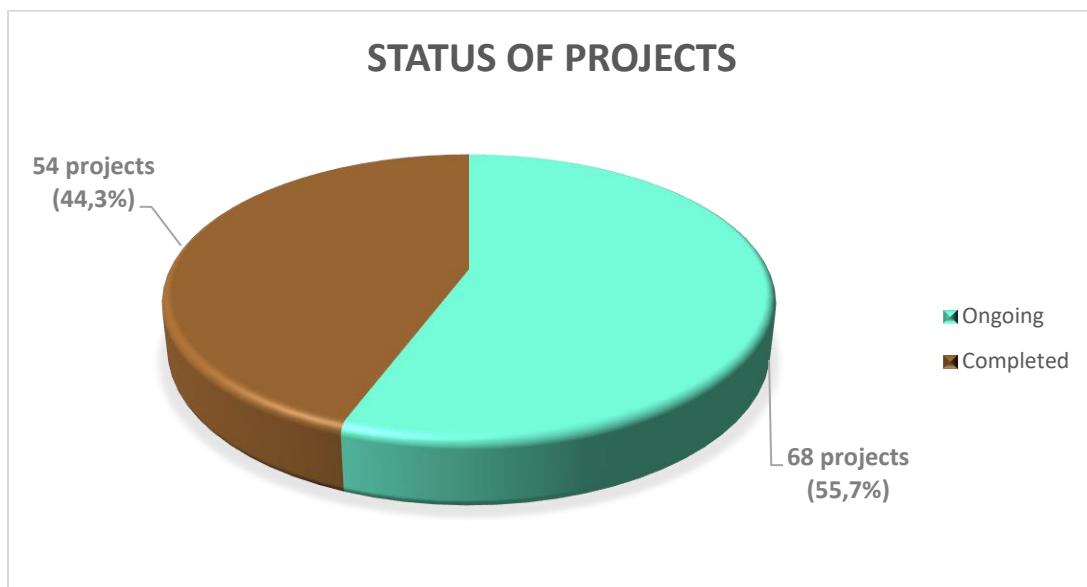
**FIGURE 7- Project consortium dimension**

When it comes to **project duration** (see figure 8), proposals with a definite length of time for implementation of less than 12 months are found in the minority (6.6 % of selected projects). By contrast, 65 projects needed and average duration of 33 months to be completed, followed by those (49 projects) lasting and average of 48 months.



**FIGURE 8- Project duration**

Figure 9 shows the **status of previous projects** related to TARANTULA. On the top of the label it is provided the number of projects and on the bottom, the percentage of projects accounted by status (ongoing or completed).



**FIGURE 9- Project status**

Although certain projects completed are found (54 projects), a wide majority of projects related to TARANTULA (55.7%) are still ongoing. It is worth mentioning that the highest percentages associated to category of the projects ongoing are “Residues and tailings” (81,3% of projects ongoing for this category) and “Geomodels, mapping and exploration” (73,7% of projects ongoing for this category). In contrast, the highest percentages associated to category of the projects completed are “Substitution of materials and extreme conditions” (80% of projects completed for this category) and “Minerals supply information” (66.7% of projects completed for this category).

### 3. SOURCES OF INFORMATION AND DATA SELECTION

This section aims to clarify the sources employed to enable a proper selection of information and how data was selected in order to do an adequate search for projects linked with TARANTULA, taking into consideration many aspects and attributes.

#### 3.1. SOURCES OF INFORMATION

From previous experience of TARANTULA's partners on EU projects, many websites were consulted in order to obtain proper information for Task 8.6. On the one hand, TARANTULA's partners profiles were the first search method applied to collect previous projects that may have direct relation with this project. On the other hand, using other websites, it was possible to distinguish between TARANTULA linked projects and many other that, unless they were relevant, have not a binding connection with this proposal. The most relevant resources employed to select the final 122 projects are listed below:

- TARANTULA's partners profiles
- The Community Research and Development Information Service ([CORDIS](#)), using keywords and specific filters for topics (see subsection "3.2 Data Selection")
- Executive Agency for SMEs (EASME) [Societal Challenge 5 data hub](#)
- Executive Agency for SMEs (EASME) [EIC accelerator data hub](#)
- H2020 Research and innovation SC5 funded projects brochures [2014-2017](#) and [2018](#)
- EraMin: funded projects brochures [2014-2017](#) and [2018](#)
- Interreg Europe website for [approved projects](#)
- European Institute of Innovation & Technology (EIT): [Innovation projects](#)

Regarding project information needed to be collected, the website of each project was consulted (if available). Some of the projects selected don't have webpages and consequently in order to provide those data, the project coordinator's website was sought and, in more precise cases, *Linkedin* and existing databases. Moreover, logos unavailable from project website or other resources were found on *Google Images*.

#### 3.2. DATA SELECTION

Firstly, only ongoing projects at the time of Task 8.6 performance were reviewed as previously mentioned, and then the time horizon was extended to 2014-2020 projects, no matter when finished. The following options were used to select the adequate projects and their information to include on Task 8.6:

- **Word filtering:** Almost 100 keywords were used for selecting related projects, e.g. "Niobium", "Tantalum", "Tungsten", "By products", "Critical metals", "Geomodels",

“Bio-/hydro-/electro-/solvo-/iono-/electrometallurgical processes”, “Sustainable Mining”, “Waste Treatment”, among others.

- **Calls & Topics filtering:** As happened with keywords, some specific matter and content words were used for filtering adequate and related projects. The calls and topics filtering employed covered fields as “Raw materials”, “Sustainability”, “Mineral resources”, “Processing, production and remanufacturing”, “Recycling”, “Alternative mining”, “Resource efficiency”, “Exploration and mining technologies”, “Recovery of by-products”, “Circular economy and industrial symbiosis”, “Extreme conditions”, among others. In the particular case of EraMin projects, a search filtering by eco-innovation and raw materials was made.

## 4. OVERVIEW OF PROJECTS RELATED TO TARANTULA

The exhaustive list of projects related to TARANTULA has been classified into eight main categories (“Social License to Operate”, “Raw Materials Processing”, “Residues and Tailings”, “Geomodels, mapping and exploration”, “Circular Economy”, “Substitution of materials and extreme conditions”, “Minerals supply information”, “R&I Networking”) as shown below in the next subsections. In section “8.1. Annex 1: Projects’ comprehensive information” further details about these categories can be found.

### 4.1. PROJECT CATEGORY - SOCIAL LICENSE TO OPERATE (SLO)

**TABLE 4- List of projects linked to TARANTULA (Project category: SLO)**

|   |                   |  |
|---|-------------------|--|
| <br><b>MIREU</b><br><small>MINING AND METALLURGY REGIONS OF EU</small> | <b>ACRONYM</b>    | MIREU  |
|   | <b>TITLE</b>      | <b>Mining and Metallurgy Regions of EU</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2017-OneStageB/SC5-15-2016-2017 - Raw materials policy support actions.  |
|   | <b>OBJECTIVE</b>  | To establish a network of mining and metallurgy regions across Europe, that will help the regions to share knowledge and experiences when facing the challenge to ensure a sustained and sustainable supply of mineral raw materials to the EU.  |
| <br><b>SIMS</b>  | <b>ACRONYM</b>    | SIMS   |
|   | <b>TITLE</b>      | <b>Sustainable Intelligent Mining Systems</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2016-TwoStage/SC5-14-2016-2017 - Raw materials Innovation actions  |
|   | <b>OBJECTIVE</b>  | To create a long-lasting impact on the way we test and demonstrate new technology and solutions for the mining industry. The project will boost development and innovation through joint activities aiming at creating a sustainable intelligent mining system.  |
| <br><b>INFACT</b>  | <b>ACRONYM</b>    | INFACT   |
|   | <b>TITLE</b>      | <b>Innovative, Non-invasive and Fully Acceptable Exploration Technologies</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2017-OneStageB/ SC5-13-2016-2017 - New solutions for sustainable production of raw materials   |
|   | <b>OBJECTIVE</b>  | With the goal of improved raw materials security in the EU, this project has the ambition to increase chances of discovery via access to new physical places and application of innovative exploration methods. This leads to engage society, invigorate exploration and to have an impact in innovation, knowledge and growth.  |
| <br><b>REMIX</b><br><small>Interreg Europe</small>                   | <b>ACRONYM</b>    | REMIX  |
|   | <b>TITLE</b>      | <b>Smart and Green Mining Regions of EU</b>  |
|   | <b>CALL/TOPIC</b> | Interreg Europe Second Call/TOPIC_Research and innovation  |
|   | <b>OBJECTIVE</b>  | To advance innovation in the regional mining value chains, of large and small-scale companies. Regions rich in mineral resources have an important strategic role in Europe, using the collaboration between European Commission (EC) and regional policy makers needed to develop complementary approaches, which will boost EU competitiveness and stimulate sustainable development, growth, jobs and new SME industries. |
| <br><b>STRADE</b>  | <b>ACRONYM</b>    | STRADE   |
|   | <b>TITLE</b>      | <b>Strategic Dialogue on Sustainable Raw Materials for Europe</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-13f-2015 - Strategic international dialogues and cooperation with raw materials producing countries and industry   |
|   | <b>OBJECTIVE</b>  | A specific objective towards the goals of environmental and social sustainability is the development of new concepts for Europe's role in international action towards sustainable mining and processing. The STRADE project will develop policy recommendations for an European strategy on future raw-material supplies, initially concentrating on the industry   |

|  |                   |   |
|--|-------------------|---|
|  |                   | perspective and also addressing equipment and service suppliers, exploration companies and investors.   |
| <br><b>FORAM</b><br><small>TOWARDS A WORLD FORUM ON RAW MATERIALS</small>                             | <b>ACRONYM</b>    | FORAM   |
|  | <b>TITLE</b>      | <b>Towards a World Forum on Raw Materials</b>   |
|  | <b>CALL/TOPIC</b> | H2020-SC5-16-2016-2017 - Raw materials international co-operation   |
|  | <b>OBJECTIVE</b>  | The project 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.                 |
| <br><b>SCRREEN</b><br><small>Solutions for Critical Raw materials - a European Expert Network</small> | <b>ACRONYM</b>    | SCRREEN   |
|  | <b>TITLE</b>      | <b>Solutions for CRitical Raw materials - a European Expert Network</b>   |
|  | <b>CALL/TOPIC</b> | H2020-SC5-2016-OneStageB/SC5-15-2016-2017 - Raw materials policy support actions.   |
|  | <b>OBJECTIVE</b>  | To gather European initiatives, associations, clusters, and projects working on CRMs into along lasting Expert Network on Critical Raw Materials, including the stakeholders, public authorities and civil society representatives to improve the CRM strategy in Europe. |
| <br><b>MINATURA 2020</b>  | <b>ACRONYM</b>    | MINATURA 2020   |
|  | <b>TITLE</b>      | <b>Developing a concept for a European minerals deposit framework</b>   |
|  | <b>CALL/TOPIC</b> | H2020-SC5-13a-2014 - Mineral deposits of public importance  |
|  | <b>OBJECTIVE</b>  | The overall objective of MINATURA 2020 is to develop a concept and methodology for the definition and subsequent protection of "mineral deposits of public importance" in order to ensure their "best use" in the future.   |
| <br><b>MinLand</b>  | <b>ACRONYM</b>    | MINLAND   |
|  | <b>TITLE</b>      | <b>Mineral resources in sustainable land-use planning</b>   |
|  | <b>CALL/TOPIC</b> | H2020-SC5-15-2016-2017 - Raw materials policy support actions   |
|  | <b>OBJECTIVE</b>  | The MINLAND project is designed for addressing this challenge: to facilitate minerals and land-use policy making and to strengthen a transparent land use practice.   |

## 4.2. PROJECT CATEGORY - RAW MATERIALS PROCESSING

**TABLE 5-List of projects linked to TARANTULA (Project category: Raw materials processing)**

|   |                   |   |
|---|-------------------|---|
| <br><b>bluenodules</b> | <b>ACRONYM</b>    | Blue Nodules  |
|   | <b>TITLE</b>      | <b>Breakthrough Solutions for the Sustainable Harvesting and Processing of Deep Sea Polymetallic Nodules</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2015-one-stage/SC5-11c-2015 - Deep mining on continent and/or in sea-bed  |
|   | <b>OBJECTIVE</b>  | The challenge to harvest and transport the nodules to the EU shore is taken on by Blue Nodules. The governing project principle is: industrial viability within the context of a realistic and technical, economic and environmentally balanced business case for the complete Polymetallic Nodules value chain of mining, processing and valorisation. |
| <br><b>METGrow</b>     | <b>ACRONYM</b>    | METGROW PLUS  |
|   | <b>TITLE</b>      | <b>Metal Recovery from Low Grade Ores and Wastes Plus</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2015-one-stage/SC5-11e-2015 - New metallurgical systems   |
|   | <b>OBJECTIVE</b>  | The project will address and solve bottlenecks in the European raw materials supply by developing innovative metallurgical technologies for unlocking the use of potential domestic raw materials. The value chain and business models for metal recovery from low grade ores and wastes are carefully looked after.                                    |
| <br><b>IMP@CT</b>      | <b>ACRONYM</b>    | IMPaCT  |
|   | <b>TITLE</b>      | <b>Integrated Modular Plant and Containerised Tools for Selective, Low-impact Mining of Small High-grade Deposits</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2016-OneStageB/SC5-13-2016-2017 - New solutions for sustainable production of raw materials   |

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|---|-------------------|---|
|   | <b>OBJECTIVE</b>  | To develop the proof-of-concept of total and sustainable mining and processing solutions using case studies in the West Balkans, and subsequently to examine the step-changes that would be required for the technology to be applied globally.   |
|    | <b>ACRONYM</b>    | SLIM  |
|   | <b>TITLE</b>      | <b>Sustainable Low Impact Mining solution for exploitation of small mineral deposits based on advanced rock blasting and environmental technologies</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2016-OneStageB/SC5-13-2016-2017 - New solutions for sustainable production of raw materials   |
|   | <b>OBJECTIVE</b>  | To develop a cost-effective and sustainable selective low impact mining solution based on non-linear rock mass fragmentation by blasting models, airborne particulate matter, vibration affections and nitrate leaching mitigation actions for exploitation of small mineral deposits including those with chemically complex ore-forming phases.   |
| ROCS<br>(no logo)   | <b>ACRONYM</b>    | ROCS  |
|   | <b>TITLE</b>      | <b>Moving Towards Sustainable Mining with ROCS Real-Time Ore Composition Monitoring</b>   |
|   | <b>CALL/TOPIC</b> | H2020 - SMEInst-2018-2020-1 / EIC-SMEInst-2018-2020 - SME instrument  |
|   | <b>OBJECTIVE</b>  | To help make mining financially and environmentally sustainable by allowing mining companies to understand the ore composition right at the start of the production phase. Adding a sensor to the conveyor belt in order to optimize production through modern mining and processing techniques, this technology can be used to detect all kinds of minerals and metals including critical raw materials, featuring better signal-to-noise-ratios than leading competitors. |
|  | <b>ACRONYM</b>    | METALINTELLIGENCE   |
|   | <b>TITLE</b>      | <b>European Industrial Doctorate in future efficient minerals analysis, processing and training</b>   |
|   | <b>CALL/TOPIC</b> | H2020-MSCA-ITN-2016/MSCA-ITN-2016 - Innovative Training Networks  |
|   | <b>OBJECTIVE</b>  | To provide innovative research across trans-disciplinary edges and to train and equip a new generation of leaders in the minerals processing field and provide lasting novel technological and training methods to build capacity in this growing area thus further establishing the EU's leadership position in minerals processing.   |
|  | <b>ACRONYM</b>    | AlSiCal   |
|   | <b>TITLE</b>      | <b>Towards sustainable mineral and metal industry: ZERO Bauxite Residue and ZERO CO2 from co-production of Alumina, Silica and precipitated Calcium carbonate by the Aranda-Mastin technology</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2018-2/SC5-09-2018-2019 - New solutions for the sustainable production of raw materials   |
|   | <b>OBJECTIVE</b>  | To make the mineral and metal industry more sustainable and environmentally sound and develop the patented Aranda-Mastin technology, enabling the co-production of three essential raw materials (alumina, silica and precipitated calcium carbonate), using new resources whilst generating ZERO Bauxite Residue and ZERO carbon dioxide from production.  |
|  | <b>ACRONYM</b>    | MetRecycle  |
|   | <b>TITLE</b>      | <b>Recycling of metals using functionalized magnetic nanoparticles (FMNP)</b>   |
|   | <b>CALL/TOPIC</b> | ERA-MIN JOINT CALL 2017 (ERA-MIN-2017_90)/TOPIC 3_Processing, Production and Remanufacturing  |
|   | <b>OBJECTIVE</b>  | To use the advantage of specific properties of REE's for higher recycling efficiency and selectivity, focusing on the development of functionalized magnetic nanoparticles as a novel approach for REE's recycling from aqueous solutions (waste waters) after preprocessing technology.  |
|  | <b>ACRONYM</b>    | INSTAnt   |
|   | <b>TITLE</b>      | <b>Innovative sensor technology for optimized material recovery from bottom ash treatment</b>   |
|   | <b>CALL/TOPIC</b> | ERA-MIN JOINT CALL 2017 (ERA-MIN-2017_105)/TOPIC 4_Recycling of End-of-Life products  |
|   | <b>OBJECTIVE</b>  | To close the material cycle of resources/materials present in bottom ashes by using smart recycling technologies to optimise process conditions in bottom ash treatment plants to maximize metal recovery, to separate out a  |

|   |                   |   |
|---|-------------------|---|
|   |                   | valorizable pure glass fraction, and detect and remove impurities that hamper the highgrade recycling of the mineral fraction.  |
| <br><b>ERA-MIN 2</b><br><small>RESEARCH &amp; INNOVATION PROGRAMME ON RAW MATERIALS TO FOSTER CIRCULAR ECONOMY</small> | <b>ACRONYM</b>    | RecEOL  |
|   | <b>TITLE</b>      | <b>Recycling of End-of-Life Products (PCB, ASR, LCD)</b>  |
|   | <b>CALL/TOPIC</b> | ERA-MIN JOINT CALL 2017 (ERA-MIN-2017_99)/TOPIC 4_Recycling of End-of-Life products   |
|   | <b>OBJECTIVE</b>  | To demonstrate the capability of the process to recycle metals including critical (indium) and special (tantalum), and also demonstrate that the metal recycling yields are significantly improved over current processes and that the process is economic and environmentally sustainable.   |
| <br><b>Int-Met</b><br><small>Integrated Metallurgy</small>   | <b>ACRONYM</b>    | INTMET  |
|   | <b>TITLE</b>      | <b>Integrated innovative metallurgical system to benefit efficiently polymetallic, complex and low grade ores and concentrates</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-11e-2015 - New metallurgical systems  |
|   | <b>OBJECTIVE</b>  | Main objective of INTMET is applying on-site mine-to-metal hydroprocessing of the produced concentrates enhancing substantially raw materials efficiency thanks to increase Cu+Zn+Pb recovery over 60% vs existing selective flotation.   |
| <br><b>BIOMore</b><br><small>An Alternative Mining Concept</small>   | <b>ACRONYM</b>    | BioMOré   |
|   | <b>TITLE</b>      | <b>New Mining Concept for Extracting Metals from Deep Ore Deposits using Biotechnology</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-11a-2014 - Mining of small and complex deposits and alternative mining  |
|   | <b>OBJECTIVE</b>  | BIOMore is striving to reduce the gap between European supply and the demand for metal and mineral resources by providing an alternative mining method in order to get access to and exploit mineral deposits that would neither be accessible nor exploitable using traditional mining methods. This planned new mining method may be applied to newly discovered deposits as well as an extension of existing mines.  |
| <br><b>iVAMOS!</b>   | <b>ACRONYM</b>    | VAMOS   |
|   | <b>TITLE</b>      | <b>iViable and Alternative Mine Operating System!</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-11a-2014 - Mining of small and complex deposits and alternative mining  |
|   | <b>OBJECTIVE</b>  | iVAMOS! will provide a new Safe, Clean and Low Visibility Mining Technique and will prove its Economic Viability for extracting currently unreachable mineral deposits, thus encouraging investment and helping to put the EU back on a level playing field in terms of access to strategically important minerals. iVAMOS! Will also design and manufacture innovative automated excavation equipment and environmental impact monitoring tools that will be used to perform field tests in a number of mine sites across Europe with a range of rock hardness and pit morphology. |
| <br><b>OptimOre</b>  | <b>ACRONYM</b>    | OptimOre  |
|   | <b>TITLE</b>      | <b>Increasing yield on Tungsten and Tantalum ore production by means of advanced and flexible control on crushing, milling and separation process</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-11b-2014 - Flexible processing technologies   |
|   | <b>OBJECTIVE</b>  | The main objective of OPTIMORE is to optimize the crushing, milling and separation ore processing technologies for Tungsten and Tantalum mineral processing, by means of improved fast and flexible fine tuning production process control based on new software models, advanced sensing and deeper process physical study   |
| <br><b>FAME</b>  | <b>ACRONYM</b>    | FAME  |
|   | <b>TITLE</b>      | <b>Flexible and Mobile Economic Processing Technologies</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-11b-2014 - Flexible processing technologies   |
|   | <b>OBJECTIVE</b>  | The focus and a principal aim is to enhance mineral processing and mining skills within Europe. A medium to long term aim is to reduce the reliance of European Industry and consumers on raw materials that currently have to be imported from outside EU28.   |
|   | <b>ACRONYM</b>    | AluSalt   |
|   | <b>TITLE</b>      | <b>Efficient Aluminium Salt cake Recycling Technology</b>   |

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|---|-------------------|--|
| <br><small>19</small>  | <b>CALL/TOPIC</b> | H2020-SC5-20-2014 - Boosting the potential of small businesses for eco-innovation and a sustainable supply of raw materials  |
|   | <b>OBJECTIVE</b>  | The aim of ALUSALT project is to develop an in-house salt slag processing unit that offers aluminium recycling plants an economic solution to salt slag processing, reducing energy process requirements, transport costs and CO2 emissions. ALUSALT offers the industry a solution that complies with EU legislation, reduces environmental impact and can achieve cost savings.  |
| <b>MetLeach</b><br><small>(no logo)</small>   | <b>ACRONYM</b>    | MetLeach   |
|   | <b>TITLE</b>      | <b>Feasibility study on nature based more efficient 2-step bioleaching technology producing methane gas and metal compounds from "low grade" multimetalllic European ores/wastes containing organometallics.</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SMEInst-11-2016-2017 - Boosting the potential of small businesses in the areas of climate action, environment, resource efficiency and raw materials   |
|   | <b>OBJECTIVE</b>  | BiotaTec has drafted a new possible route for a low-grade ore /end of life products bioleaching process. The objective of a project is to evaluate the economic feasibility of the developed technological solution for ores in Europe - in situations where extracting valuable metals from ores has been either impossible or not cost-efficient and environmentally friendly due to large quantities of strong acids needed to break the complex. |
|   | <b>ACRONYM</b>    | Real-time-Mining   |
|   | <b>TITLE</b>      | <b>Real-time optimization of extraction and the logistic process in highly complex geological and selective mining settings</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-11a-2014 - Mining of small and complex deposits and alternative mining   |
|   | <b>OBJECTIVE</b>  | Real-Time Mining will develop a real-time process-feedback control loop linking online data acquired during extraction at the mining face rapidly with a sequentially up-datable resource model associated with real-time optimization of long-term planning, short-term sequencing and production control decisions.  |
| <br><small>RESEARCH &amp; INNOVATION PROGRAMME ON RAW MATERIALS TO FOSTER CIRCULAR ECONOMY</small> | <b>ACRONYM</b>    | REWO-SORT  |
|   | <b>TITLE</b>      | <b>Reduction of Energy and Water consumption of mining Operations by fusion of sorting technologies LIBS and ME-XRT</b>  |
|   | <b>CALL/TOPIC</b> | ERA-MIN JOINT CALL 2017(ERA-MIN-2017_89)/TOPIC 1_Supply of raw materials from exploration and mining   |
|   | <b>OBJECTIVE</b>  | To develop a fusion technology including laser-induced breakdown spectroscopy (LIBS) and multi energy X-ray transmission (ME-XRT), which will be able to classify crushed mineral particles on a conveyor belt with the aid of deep learning technology.   |
| <br><small>SecREEts</small>  | <b>ACRONYM</b>    | SecREEts   |
|   | <b>TITLE</b>      | <b>Secure European Critical Rare Earth Elements</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-14-2016-2017 - Raw materials Innovation actions  |
|   | <b>OBJECTIVE</b>  | The main objective of the project is to demonstrate a new integrated value chain for the optimal extraction, refining and production of REEs in Europe. This will be achieved through the development and demonstration of a number of innovative technologies   |
| <b>MINERAL EYE</b><br><small>(no logo)</small>  | <b>ACRONYM</b>    | MINERAL EYE  |
|   | <b>TITLE</b>      | <b>Real-time on-line mineralogical analysis for the process optimization and more sustainable mining</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-20-2014-1 - Boosting the potential of small businesses for eco-innovation and a sustainable supply of raw materials  |
|   | <b>OBJECTIVE</b>  | This proposal suggests more detailed feasibility study, development activities, demonstration, piloting, commercialization and product launch for the robust, real time mineralogical analysis device based on Timegated® Raman technology.  |
| <b>2D3DSCOPY</b><br><small>(no logo)</small>  | <b>ACRONYM</b>    | 2D3Dscopy  |
|   | <b>TITLE</b>      | <b>Resource Characterization: from 2D to 3D microscopy</b>   |
|   | <b>CALL/TOPIC</b> | EIT KAVA Innovation projects: Upscaling  |
|   | <b>OBJECTIVE</b>  | Efficient utilization of raw materials requires a combination of accurate analytical data together with reliable simulation software. This allows the  |

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|   |            | reliable prediction of the recovery of valuable components as well as the characterization of residues generated during mineral processing and metallurgical extraction.   |
| MICRO-EC<br>(no logo)   | ACRONYM    | Micro-EC   |
|   | TITLE      | <b>Micro-Wave Technology for Eco-Efficient Comminution and Extraction – Deep intelligent exploration and mining</b>  |
|   | CALL/TOPIC | EIT KAVA Innovation projects: Upscalling   |
|   | OBJECTIVE  | The main objectives herein are to collect all the information and know-how on microwave application in extracting and comminuting raw materials and to test and evaluate the potential of microwave assisted technology towards eco-efficient mining activities (i.e., effective excavation and comminution). That means from circular economy perspective, not only reductions in energy and water consumption are considered, but also a reduction in consuming wear material in machinery should be aimed (e.g., reducing wear in cutting tools and media consumption in crushing and grinding).  |
| NEWECO<br>(no logo)   | ACRONYM    | NewEco   |
|   | TITLE      | <b>Towards a New European industrial ecosystem for strategic metals production</b>   |
|   | CALL/TOPIC | EIT KAVA Innovation projects: Upscalling   |
|   | OBJECTIVE  | The objective of NewEco is to produce a Ni/Cu/Co/PGM product from new sources of nickel sulphide concentrates.   |
| ROSTAR<br>(no logo)   | ACRONYM    | RoStar   |
|   | TITLE      | <b>Upscaling of the RoStar ultra fine grinding mill for liberation of high valued ores</b>   |
|   | CALL/TOPIC | EIT KAVA Innovation projects: Upscalling   |
|   | OBJECTIVE  | The objective of the project is the creation of a pilot ultra-fine grinding mill by up-scaling and improvement of an existing demonstrator mill.   |
| THERMOSPRAY<br>(no logo)  | ACRONYM    | ThermoSpray  |
|   | TITLE      | <b>Scale-up of a thermal spray decomposition process for niobium oxide production</b>  |
|   | CALL/TOPIC | EIT KAVA Innovation projects: Upscalling   |
|   | OBJECTIVE  | H.C. Starck has developed a thermal spray decomposition of a niobium-containing solution as a new technology for the hydrometallurgical production of niobium oxides. This process is now further developed and transferred into the technical scale. Main features are significantly reduced production costs and a minimized environmental impact due to sustainable recycling of process chemicals. Until now the new thermal spray decomposition technology has been evaluated in the pilot scale. It has been shown that the new process including all related technical equipment is running stable for several hours. No essential operational problems have been observed or identified so far although highly corrosive chemicals are used in harsh process conditions. |
|  | ACRONYM    | BioLeach   |
|   | TITLE      | <b>Innovative Bio-treatment of RM</b>  |
|   | CALL/TOPIC | EIT KAVA Innovation projects: Regional Innovation Scheme (RIS)   |
|   | OBJECTIVE  | High economic investments into the import of raw materials which are significant for further industrial utilization increase the importance of local sources, which after proper technical adjustments can represent an environmental and financially attractive alternative. However, their lower quality and lack of technologies improving their industrial value prefer serious financial investments into the import of higher quality materials. These materials include metallic raw materials (mRMs) – extremely important sources of CRM, REE and metals, but also non-metallic raw materials (nRMs) widely used in several industrial sections such as paper, ceramic, glass, chemical industry and agriculture.   |
|   | ACRONYM    | INSPIRE  |
|   | TITLE      | <b>Intensified Flow Separator Infrastructure and Expertise Network</b>   |
|   | CALL/TOPIC | EIT KAVA Innovation Projects: Network of Infraestructure (Nol)   |
|   | OBJECTIVE  | The INSPIRE network brings infrastructure & expertise together on innovative and breakthrough Process Intensification technologies for continuous  |

|   |            |   |
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|  |            | separation of critical materials. These process intensification technologies strive to maximize the transfer of mass, momentum and heat and hence drastically increase separation efficiencies. The network aims at identifying the promising intensification technologies for the particular aim of separating and purifying metal ions, metal oxides and metal salts from liquid mixtures.  |
|  | ACRONYM    | MetNet  |
|   | TITLE      | <b>European Pilot Plant Network for Extractive Metallurgy and Mineral Processing</b>  |
|   | CALL/TOPIC | EIT KAVA Innovation Projects: Network of Infraestructure (Nol)  |
|   | OBJECTIVE  | PilotMet is initially based on Metnet EIP Commitment with goals to incorporate this commitment into EIT RawMaterials which will both accelerate the establishment of the network and expand to other partners. The main objective of the project is to strengthen the competitiveness of the European mining and metallurgical industries by providing an overall solution for development, validation and upscaling of processes through pilot scale testing, employing the combined competences and equipment of the independent and collaborative network. |
|  | ACRONYM    | PreFlex   |
|   | TITLE      | <b>Pre-treatment and physical separation of complex low grade ores and residues</b>   |
|   | CALL/TOPIC | EIT KAVA Innovation Projects: Network of Infraestructure (Nol)  |
|   | OBJECTIVE  | The PreFlex Nol aims to boost innovation in the raw materials sector through collaboration by establishing a Europe-wide network that hives the infrastructure and skills regarding "Pre-treatment and Physical separation". The PreFlex Network of Infrastructure (Nol) offers easy access to infrastructure where clients can benefit from optimal equipment choices provided by all partners in the network.   |

### 4.3. PROJECT CATEGORY - RESIDUES AND TAILINGS

**TABLE 6- List of projects linked to TARANTULA (Project category: Residues and tailings)**

|   |            |  |
|---|------------|--|
|  | ACRONYM    | CHROMIC  |
|   | TITLE      | <b>EffiCient mineral processing and Hydrometallurgical RecOvery of by-product Metals from low-grade metal containing seCondary raw materials</b>   |
|   | CALL/TOPIC | H2020-SC5-2016-OneStageB/SC5-13-2016-2017 - New solutions for sustainable production of raw materials  |
|   | OBJECTIVE  | To develop new processes to recover chromium, vanadium, molybdenum and niobium from industrial waste, through smart combinations and new technological innovations. This will help reduce the CO <sub>2</sub> emissions of metal production and reduce the environmental impact of its wastes.   |
|  | ACRONYM    | PLATIRUS   |
|   | TITLE      | <b>PLATInum group metals Recovery Using Secondary raw materials</b>  |
|   | CALL/TOPIC | H2020-SC5-2016-OneStageB/SC5-13-2016-2017 - New solutions for sustainable production of raw materials  |
|   | OBJECTIVE  | Boosting the availability and ensuring a stable supply of PGMs in Europe by: The upscaling to industrially relevant levels of a novel cost-efficient and miniaturised PGMs recovery and raw material production process, selecting the best recovery technologies and developing a PLATIRUS recovery process and Blueprint Process Design for the final upscaling step, before market introduction and also preparing and stimulating market introduction. |
|  | ACRONYM    | SCALE  |
|   | TITLE      | <b>Production of Scandium compounds and Scandium Aluminum alloys from European metallurgical by- products</b>  |
|   | CALL/TOPIC | H2020-SC5-2016-OneStageB/SC5-13-2016-2017 - New solutions for sustainable production of raw materials  |
|   | OBJECTIVE  | The efficient exploitation of EU high concentration scandium containing resources including bauxite residues resulting from alumina production and acid wastes from TiO <sub>2</sub> pigment production to develop a stable and secure EU scandium supply chain to serve the needs of EU aerospace and high tech   |

|  |            |   |
|--|------------|---|
|  |            | industry. This will be achieved through the development of a number of innovative extraction, separation, refining and alloying technologies that will be validated in an appropriate laboratory and bench scale environment to prove their technical and economic feasibility.   |
| <br><b>ITERAMS</b>                                  | ACRONYM    | ITERAMS   |
|  | TITLE      | <b>Integrated mineral technologies for more sustainable raw material supply</b>   |
|  | CALL/TOPIC | H2020-SC5-2016-OneStageB/SC5-13-2016-2017 - New solutions for sustainable production of raw materials   |
|  | OBJECTIVE  | ITERAMS is targeting to exploit fully all the tailings of the minerals by first studying the sulphide ores and then enabling to use the same approach in the other ore types, too. The project will enable significantly more efficient water recycling at the mining sites and the valorisation of the solid waste residues.   |
| <br><b>CROCODILE</b>                                | ACRONYM    | CROCODILE   |
|  | TITLE      | <b>first of a kind commercial Compact system for the efficient Recovery Of COBalt Designed with novel Integrated LEading technologies</b>   |
|  | CALL/TOPIC | H2020-SC5-2017-TwoStage/SC5-14-2016-2017 - Raw materials Innovation actions   |
|  | OBJECTIVE  | The project will showcase innovative metallurgical systems based on advanced pyro-, hydro-, bio-, iono- and electrometallurgy technologies for the recovery of cobalt and the production of cobalt metal and upstream products from a wide variety of secondary and primary European resources.   |
| <br><b>FineFuture</b>                             | ACRONYM    | FineFuture  |
|  | TITLE      | <b>Innovative technologies and concepts for fine particle flotation: unlocking future fine-grained deposits and Critical Raw Materials resources for the EU.</b>  |
|  | CALL/TOPIC | H2020-SC5-2018-2/SC5-09-2018-2019 - New solutions for the sustainable production of raw materials   |
|  | OBJECTIVE  | To advance the fundamental understanding of fine particle flotation phenomena, which will lead to the development of ground-breaking technological solutions, unlocking new CRM deposits but also contribute to increase the resource and energy efficiency of current operations where the fines are lost to tailings. The project will also enable proper reprocessing of old tailings deposits and be technology-transferred to other raw material particle-based processes within the circular economy, thus leading the way in the sustainable use of resources. |
| <br><b>SOCRATES</b><br><small>EU MSCA-ETN</small> | ACRONYM    | SOCRATES  |
|  | TITLE      | <b>European Training Network for the sustainable, zero-waste valorisation of (critical) metal containing industrial process residues</b>  |
|  | CALL/TOPIC | H2020-MSCA-ITN-2016/MSCA-ITN-2016 - Innovative Training Networks  |
|  | OBJECTIVE  | To unlock the potential of secondary raw materials and to contribute to a more diversified and sustainable supply chain for critical metals, under the European Training Network for the Sustainable, zero-waste valorisation of critical-metal-containing industrial process residues that targets ground-breaking metallurgical processes.  |
| <br><b>SOLCRIMET</b>                              | ACRONYM    | SOLCRIMET   |
|  | TITLE      | <b>Solvometallurgy for critical metals</b>  |
|  | CALL/TOPIC | ERC-2015-AdG/ ERC-ADG-2015 - ERC Advanced Grant   |
|  | OBJECTIVE  | To successfully apply solvometallurgy to the extraction of specific critical metals, i.e. rare earths, tantalum, niobium, cobalt, indium, gallium, germanium and antimony, increasing the levels of critical metal recycling from pre-consumer, manufacturing waste and complex, multicomponent end-of-life consumer products.  |
| <br><b>SULTAN</b>                                 | ACRONYM    | SULTAN  |
|  | TITLE      | <b>European Training Network for the remediation and reprocessing of sulfidic mining waste sites</b>  |
|  | CALL/TOPIC | H2020-MSCA-ITN-2018/MSCA-ITN-2018 - Innovative Training Networks  |
|  | OBJECTIVE  | To develop cutting-edge methodologies to assess the resource potential of Europe's main tailings families and to explore eco-friendly mining chemicals for advanced metal-extraction/recovery set-ups.  |

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|    | <b>ACRONYM</b>    | BIORECOVER  |
|   | <b>TITLE</b>      | <b>Development of an innovative sustainable strategy for selective biorecover of critical raw materials from Primary and Secondary sources</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2018-2/CE-SC5-06-2018 - New technologies for the enhanced recovery of by-products   |
|   | <b>OBJECTIVE</b>  | Based on biotechnology, to do selective extraction of a range of Critical Raw Materials, from relevant unexploited secondary & primary sources: Rare Earths from Bauxite Residue, Magnesium from Mg wastes of low grade minerals and calcination by-products, and Platinum Group Metals from flotation tailings.  |
|    | <b>ACRONYM</b>    | CREAToR   |
|   | <b>TITLE</b>      | <b>Collection of raw materials, Removal of fIAme reTardants and Reuse of secondary raw materials</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2018-2/CE-SC5-01-2018 - Methods to remove hazardous substances and contaminants from secondary raw materials  |
|   | <b>OBJECTIVE</b>  | To remove hazardous, already banned bromine-containing flame-retardants from waste streams using continuous purification technologies in twin-screw extruders, covering the whole value chain, starting from collecting thermoplastic waste streams from building and construction (B&C) and from waste electrical and electronic equipment (WEEE).   |
|    | <b>ACRONYM</b>    | ION4RAW   |
|   | <b>TITLE</b>      | <b>Ionometallurgy of primary sources for an enhanced raw materials recovery</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2018-2/CE-SC5-06-2018 - New technologies for the enhanced recovery of by-products   |
|   | <b>OBJECTIVE</b>  | To propose an energy-, material- and cost-efficient new mineral processing technology to recover by-products from primary sources by means of innovative Deep Eutectic Solvent (DES) ionic liquids and advanced electrochemical methods as an only step, covering the processing of critical raw materials: bismuth (Bi), germanium (Ge), indium (In), cobalt (Co), platinum (Pt) and antimony (Sb). Accompanying major product metals like copper (Cu), silver (Ag) and gold (Au). |
|  | <b>ACRONYM</b>    | MINTECO   |
|   | <b>TITLE</b>      | <b>Integrated eco-technology for a selective recovery of base and precious metals in Cu and Pb mining by-products</b>   |
|   | <b>CALL/TOPIC</b> | ERA-MIN JOINT CALL 2017 (ERA-MIN-2017_119)/TOPIC 3_Processing, Production and Remanufacturing   |
|   | <b>OBJECTIVE</b>  | To establish a global management methodology to treat historical mining sites and reduce disposed volumes of metal-bearing waste.   |
|  | <b>ACRONYM</b>    | RemovAl   |
|   | <b>TITLE</b>      | <b>Removing the waste streams from the primary Aluminium production and other metal sectors in Europe</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-14-2016-2017 - Raw materials Innovation actions   |
|   | <b>OBJECTIVE</b>  | The RemovAl project will combine, optimize and scale-up developed processing technologies for extracting base and critical metals from industrial residues and valorising the remaining processing residues in the construction sector.   |
|  | <b>ACRONYM</b>    | e.THROUGH   |
|   | <b>TITLE</b>      | <b>Thinking rough towards sustainability</b>  |
|   | <b>CALL/TOPIC</b> | H2020-MSCA-RISE-2017/MSCA-RISE-2017 - Research and Innovation Staff Exchange  |
|   | <b>OBJECTIVE</b>  | To turn the challenge of CRMs dependence into a strategic strength for Europe, contributing towards declassifying some CRMs, as tungsten, indium, gallium and chromium.   |
|  | <b>ACRONYM</b>    | PROSUM  |
|   | <b>TITLE</b>      | <b>Prospecting Secondary raw materials in the Urban mine and Mining waste</b>   |
|   | <b>CALL/TOPIC</b> | H2020-WASTE-4c-2014 - Secondary raw materials inventory   |
|   | <b>OBJECTIVE</b>  | The ProSUM project will establish a European network of expertise on secondary sources of critical raw materials (CRMs), vital to today's high-tech society. ProSUM directly supports the European Innovation Partnership (EIP)   |

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|   |            | on Raw Materials and its Strategic Implementation Plan calling for the creation of a European raw materials knowledge base.   |
|    | ACRONYM    | SMART GROUND  |
|   | TITLE      | <b>SMART data collection and inteGRation platform to enhance availability and accessibility of data and information in the EU territory on SecoNDary Raw Materials</b>  |
|   | CALL/TOPIC | H2020-WASTE-4c-2014 - Secondary raw materials inventory   |
|   | OBJECTIVE  | Existing knowledge, reporting standards and inventory on SRM seems to be inefficient. In this context, the SMART GROUND project intends to foster resource recovery in landfills by improving the availability and accessibility of data and information on Secondary Raw Materials (SRM) in the EU, while creating synergies among the different stakeholders involved in the SRM value chain.   |
|    | ACRONYM    | AVAR  |
|   | TITLE      | <b>Added Value Alumina Refining</b>   |
|   | CALL/TOPIC | EIT KAVA Innovation projects: Upscaling   |
|   | OBJECTIVE  | The main objective of the project is to produce a number of scarce raw materials for the European economy from wastes from the alumina refining industry.   |
|    | ACRONYM    | CarSiFer  |
|   | TITLE      | <b>Innovative Recycling Solution for waste containing Carbon, Silicon and Iron</b>  |
|   | CALL/TOPIC | EIT KAVA Innovation projects: Upscaling   |
|   | OBJECTIVE  | Nowadays, most ores and metals are imported to Europe, which, inherently, already constitutes a growing geopolitical concern. In the meantime a great deal of valuable industrial waste with high metallic content is also unused, diluted with other waste streams or dumped in landfills. However, most of the time, these wastes contain a mix of carbon/graphite, iron, silicon and valuable metals as manganese, copper and nickel, which could be valorized by the industry.  |
|  | ACRONYM    | FLAME   |
|   | TITLE      | <b>FLy Ash to valuable MinErs</b>   |
|   | CALL/TOPIC | EIT KAVA Innovation projects: Upscaling   |
|   | OBJECTIVE  | The FLAME project is perfectly aligned with the KIC Raw Materials vision of turning the raw materials dependence into a strategic strength for the European economy. The DPS technology can become key in increasing resource efficiency by enabling dry (ultra)fine mineral classification and extraction of valuable minerals from both primary and secondary resources. This will contribute to closing material loops by minimizing losses of unused materials along the value chain. At large, the project results may trigger alternative applications of the DPS technology to other resource streams and thus benefit the wider KIC community active in (machine manufacturing for) resource extraction.  |
|  | ACRONYM    | GREENY  |
|   | TITLE      | <b>GRinding Energy EfficiencY</b>   |
|   | CALL/TOPIC | EIT KAVA Innovation projects: Upscaling   |
|   | OBJECTIVE  | The GREENY project focuses on increasing the energy efficiency of comminution and enabling the beneficiation of difficult to process secondary raw materials. The raw slag, containing less than cost beneficially required of extractable metals, is to be used as a separate product for construction materials after comminution. During the project, emphasis is placed on improving and upscaling suitable crushing and grinding technologies for slag material to enhance the energy efficiency and performance of crushing equipment in demanding operational conditions. The processes are developed in general with difficult to refine secondary raw materials in mind, for example, materials which contain both brittle and ductile phases. |
|  | ACRONYM    | Morecovery  |
|   | TITLE      | <b>Modular recovery process services for hydrometallurgy and water treatment</b>  |
|   | CALL/TOPIC | EIT KAVA Innovation projects: Upscaling   |

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|                               | <b>OBJECTIVE</b>  | The need for raw materials, especially Rare Earth Elements (REE), is increasing rapidly in the EU and globally. At the same time, the amount of mine waste is increasing drastically together with concerns related to the environmental effects of mining. The mining industry can achieve more eco-efficient and selective raw material production by enhancing the utilization of side streams and mine waste. This development highlights the need to develop more efficient recovery methods and to efficiently remove dissolved metals from mine water streams while securing the surrounding environment and ecosystem.  |
| <b>OPTAREC<br/>(no logo)</b>  | <b>ACRONYM</b>    | OpTaRec   |
|                               | <b>TITLE</b>      | <b>Optimising the Tantalum Recycling Process through Conditioning of Raw Materials, Process Automation and Material Logistics</b>   |
|                               | <b>CALL/TOPIC</b> | EIT KAVA Innovation projects: Upscalling  |
|                               | <b>OBJECTIVE</b>  | The project OpTaRec proposes the upscaling of innovative solutions for the conditioning of secondary raw materials, the implementation of innovative process automation and the application of efficient material logistic concepts. Through the upscale of the solutions elaborated within the three activity fields and their interplay (fully integrated process concept), the consortium targets the following objectives: increase of the resource efficiency (decrease of yield losses of up to 2% – 3% along the entire production chain, decrease of energy consumption of up to 20%), advancement of the cost efficiency (savings of ~1 Euro/kg on production costs), improvement of the product quality (improvement of the metal selection process and recovery), reduction of the impact on the environment through the decrease of material loss emissions and developing innovative solutions for processing other recycling materials that cannot be processed technically or economically so far. |
| <b>RECLAMET<br/>(no logo)</b> | <b>ACRONYM</b>    | ReclaMet  |
|                               | <b>TITLE</b>      | <b>ReclaMet</b>   |
|                               | <b>CALL/TOPIC</b> | EIT KAVA Innovation projects: Upscalling  |
|                               | <b>OBJECTIVE</b>  | The zinc industry has a demand for zinc ores at acceptable prices, but are also interested in secondary ores to offset the need for primary ores. The availability of primary zinc ores and concentrates is reducing, driving up prices for the ores and concentrates. Therefore there is an increased interest in suitable secondary sources of Zn concentrates. The ultimate goal of this project is to achieve an enrichment level on Zn in the process dust of HIsarna which would make it suitable for direct use in Zn smelting.  |
| <b>RIGAT<br/>(no logo)</b>    | <b>ACRONYM</b>    | RIGaT   |
|                               | <b>TITLE</b>      | <b>Recovery of Indium, Germanium and Tin</b>  |
|                               | <b>CALL/TOPIC</b> | EIT KAVA Innovation projects: Upscalling  |
|                               | <b>OBJECTIVE</b>  | The main objective of the project is to come up with a solution for recovery of critical metals, such as indium and germanium, and increase production of base metals, i.e. tin, from polymetallic alloys formed in the production of zinc and lead.  |
| <b>STINGS</b>                 | <b>ACRONYM</b>    | STINGS  |
|                               | <b>TITLE</b>      | <b>Supervision of Tailings by an Integrated Novel Approach to combine Ground-based- and Spaceborne Sensorsdata</b>  |
|                               | <b>CALL/TOPIC</b> | EIT KAVA Innovation projects: Upscalling  |
|                               | <b>OBJECTIVE</b>  | Currently, there is a lack of a detailed operational methodology that comprises the management of environmental risks related to tailing operations, containing specific guidance on the appropriate approaches, tools and techniques with due consideration to economic issues, and the way they should be used. This is true both at European level but also internationally.   |
|                               | <b>ACRONYM</b>    | iTARG3T   |
|                               | <b>TITLE</b>      | <b>Innovative targeting &amp; processing of W-Sn-Ta-Li ores: towards EU's self-supply</b>   |
|                               | <b>CALL/TOPIC</b> | EIT KAVA Innovation projects: Regional Innovation Scheme (RIS)  |
|                               | <b>OBJECTIVE</b>  | One of the wealthiest tungsten-tin-(tantalum-lithium) mineral belts in the world is located in western and central-eastern Europe, where different types of mineralization are related to certain granitic rocks. These ore   |

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|                    |   | <p>deposits were intensely mined till the 1980s when the global crash of metal prices triggered the closure of most of the tin mines. More recently, market and political changes in the 2010s initiated the gradual reactivation of this mining sector and currently, there are a few producing mines and tens of advanced exploration projects. However, all of these projects are brownfields and occur in or near already existing mine sites. This is partially caused by several issues that are specific for this type of mineralization. The deposits are usually low tonnage and mostly worked by SME's, they form irregular masses or narrow veins with difficult grade control, resource evaluation, and ore processing. Furthermore, the restricted geographic location, away from the major ore belts, and the price crisis have kept these deposits away from the recent advances of conceptual exploration. All of these problems have hampered greenfields exploration and advances in ore concentration and resource estimation.</p>                 |
| <b>REEBAUX<br/>(no logo)</b>  | <b>ACRONYM</b><br><b>TITLE</b><br><b>CALL/TOPIC</b> | <b>REEBAUX</b><br><b>Prospects of REE recovery from bauxite and bauxite residue in the ESEE region</b><br><b>EIT KAVA Innovation projects: Regional Innovation Scheme (RIS)</b><br><b>OBJECTIVE</b><br>Rare earth elements (REE) are critical raw materials imported in large numbers for modern industrial applications but almost exclusively extracted out of Europe, thus leaving the continent completely dependent on imports. Europe-based REE production shall cover a significant amount of the domestic need and reduce business hazard due to a volatile world market. Bauxite and bauxite residue have been for a long time considered a viable resource of REE. With a large number of bauxite deposits in the Eastern and South-Eastern European (ESEE) region and a long tradition of the aluminium processing industry, which has left also a significant amount of bauxite residue behind, there is a respectable perspective for development of a new REE resource for Europe once geological, mining and technological aspect are well elaborated. |
| <b>RIS-CuRE</b>   | <b>ACRONYM</b><br><b>TITLE</b><br><b>CALL/TOPIC</b> | <b>RIS-CURE</b><br><b>Zero waste recovery of copper tailings in the ESEE region</b><br><b>EIT KAVA Innovation projects: Regional Innovation Scheme (RIS)</b><br><b>OBJECTIVE</b><br>Although mining and processing tailings can present a substantial risk to the environment, on the other hand, they represent valuable sources of secondary and in particular critical raw materials. Serbia and FYR Macedonia have an abundance of Cu mines which have been exploited since ancient times. These activities generated about 920 M tonnes of different types of mining, floatation and metallurgical tailings, containing approximately 1.3 M tonnes of Cu, 128 tonnes of Ag and 23 tonnes of Au, which presents a valuable resource for the European raw materials market sector.   |
| <b>BioFlex</b>  | <b>ACRONYM</b><br><b>TITLE</b><br><b>CALL/TOPIC</b> | <b>BioFlex</b><br><b>Flexible Biometallurgy Infrastructure and Expertise network</b><br><b>EIT KAVA Innovation Projects: Network of Infraestructure (NoI)</b><br><b>OBJECTIVE</b><br>BioFlex aims to bring together partners with infrastructure and expertise in biometallurgy. Biometallurgy includes bioleaching of metals from ores and waste, biosorption of metals from liquid streams, bioprecipitation of metals and bio-electrochemistry of metals. BioFlex operates within the ZeroWaste cluster of Networks of Infrastructure.   |
| <b>ELECTROFLEX</b>  | <b>ACRONYM</b><br><b>TITLE</b><br><b>CALL/TOPIC</b> | <b>ElectroFlex</b><br><b>(Bio)Electrochemical extraction and recovery of metals from low grade ores and residues</b><br><b>EIT KAVA Innovation Projects: Network of Infraestructure (NoI)</b><br><b>OBJECTIVE</b><br>The ElectroFlex project intends to lower the barrier to innovation for customers/companies in the field of electrowinning and electro-separation techniques for complex, low-grade raw materials and residues by offering access to one-of-a-kind, key infrastructures and services organised in a network of top-level universities, research institutes and companies.   |
|  <b>PyroFlex</b> | <b>ACRONYM</b><br><b>TITLE</b>                      | <b>PyroFlex</b><br><b>network on pyrometallurgical expertise and infrastructure for residue treatment</b>   |

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|  | <b>CALL/TOPIC</b> | EIT KAVA Innovation Projects: Network of Infrastructure (NoI)  |
|  | <b>OBJECTIVE</b>  | PyroFlex unites partners with strong expertise, unique equipment and infrastructure in high-temperature extractive metallurgy that can deal with complex low-grade residues, allowing the recovery/removal of valuable elements present in low concentrations, as well as to produce a clean slag by hot stage engineering and controlled solidification for subsequent valorisation. PyroFlex has an overall aim to stimulate cooperation and development in pyrometallurgical processes and to decrease the barriers to pursue innovation in high-temperature residue treatment. The network provides easier access to a broad range of pyrometallurgical and related infrastructure (for partners in the network), which are typically expensive and requires specific expertise to be properly operated, and offers comprehensive services to outside clients. |

#### 4.4. PROJECT CATEGORY - GEOMODELS, MAPPING AND EXPLORATION

**TABLE 7- List of projects linked to TARANTULA (Project category: Geomodels, mapping and exploration)**

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|    | <b>ACRONYM</b>    | HiTech AlkCarb  |
|   | <b>TITLE</b>      | New geomodels to explore deeper for High-Technology critical raw materials in Alkaline rocks and Carbonatites   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2015-one-stage/SC5-11d-2015 - New sustainable exploration technologies and geomodels  |
|   | <b>OBJECTIVE</b>  | To develop new geomodels to explore for 'hi-tech' raw materials associated with alkaline rocks and carbonatites, to improve and develop interpretation of geophysical and downhole data in order to understand alkaline rock and carbonatite systems down to depths of approximately one kilometre, to build exploration expertise in hi-tech raw materials, and to ensure knowledge exchange between Europe and Africa and also to assess environmental and socio-economic impacts of mining for these raw materials, and develop best practice. |
|  | <b>ACRONYM</b>    | SOLSA   |
|   | <b>TITLE</b>      | Sonic Drilling coupled with Automated Mineralogy and chemistry On-Line-On-Mine-Real-Time  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2015-one-stage/SC5-11d-2015 - New sustainable exploration technologies and geomodels  |
|   | <b>OBJECTIVE</b>  | The aim is to develop new or improved highly efficient and cost-effective, sustainable exploration technologies, including integrated drilling optimized to operate in the difficult lateritic environment with the challenge of a mixture of hard and soft rocks, extensible also to other ore types, and fully automated scanner and phase identification software, usable as well in other sectors.  |
|  | <b>ACRONYM</b>    | UNEXMIN   |
|   | <b>TITLE</b>      | Autonomous Underwater Explorer for Flooded Mines  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2015-one-stage/SC5-11d-2015 - New sustainable exploration technologies and geomodels  |
|   | <b>OBJECTIVE</b>  | To develop a fully autonomous multi-platform Robotic Explorer, made by three robots which will share the workload, using non-contact and non-damaging methods for exploration and 3D mine mapping of flooded and deep mines, otherwise inaccessible, in Europe. This technique can open new exploration scenarios for European abandoned mines.   |
|  | <b>ACRONYM</b>    | NEXT  |
|   | <b>TITLE</b>      | New Exploration Technologies  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2017-OneStageB/SC5-13-2016-2017 - New solutions for sustainable production of raw materials   |
|   | <b>OBJECTIVE</b>  | To develop new geomodels, novel sensitive exploration technologies and data analysis methods which together are fast, cost-effective, environmentally safe and socially accepted.   |
|   | <b>ACRONYM</b>    | Smart Exploration   |
|   | <b>TITLE</b>      | Sustainable mineral resources by utilizing new Exploration technologies   |

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| <br><b>SMART EXPLORATION</b><br><small>NEW WAYS TO EXPLORE THE SUBSURFACE</small>  | <b>CALL/TOPIC</b> | H2020-SC5-2017-OneStageB/SC5-13-2016-2017 - New solutions for sustainable production of raw materials   |
|   | <b>OBJECTIVE</b>  | The focus is on developing cost-effective, environmentally-friendly tools and methods for geophysical exploration, as well as other aspects such as geological and geochemical target vectoring and generations.  |
| <br><b>GeoERA</b>  | <b>ACRONYM</b>    | GeoERA  |
|   | <b>TITLE</b>      | <b>Establishing the European Geological Surveys Research Area to deliver a Geological Service for Europe</b>  |
|   | <b>CALL/TOPIC</b> | H2020-LCE-2016-ERA/LCE-26-2016 - Cross-thematic ERA-NET on Applied Geosciences  |
|   | <b>OBJECTIVE</b>  | To contribute to the optimal use and management of the subsurface, funding 15 research projects that will aim to support a more integrated and efficient management and more responsible and publicly accepted, exploitation and use of the subsurface.   |
| <br><b>e-shape</b>   | <b>ACRONYM</b>    | E-SHAPE   |
|   | <b>TITLE</b>      | <b>EuroGEOSS Showcases: Applications Powered by Europe</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2018-2/SC5-15-2018 - Strengthening the benefits for Europe of the Global Earth Observation System of Systems (GEOSS) - establishing 'EuroGEOSS'   |
|   | <b>OBJECTIVE</b>  | e-SHAPE aims to develop operational EO services with and for users active in key societal sectors; to demonstrate the benefits of the EO pilots through the coordinated downstream exploitation of EO data and the utilization of existing EO resources; to promote the uptake of pilots at national and international scale, across vertical markets (private and public) and amongst key user communities; to enable the long-term sustainability of the numerous pilots, their penetration in public and private markets and support their upscaling; to increase uptake by raising awareness on the solutions developed through tailored and well-targeted communication, dissemination and outreach activities |
| <br><b>ROBO MINERS</b>   | <b>ACRONYM</b>    | ROBOMINERS  |
|   | <b>TITLE</b>      | <b>Resilient Bio-inspired Modular Robotic Miners</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2018-2/SC5-09-2018-2019 - New solutions for the sustainable production of raw materials   |
|   | <b>OBJECTIVE</b>  | To develop a bio-inspired, modular and reconfigurable robot-miner for small and difficult to access deposits and to create a prototype robot that is capable of mining underground, underwater or above water, and can be delivered in modules to the deposit via a large diameter borehole.  |
| <br><b>ERA-MIN 2</b><br><small>RESEARCH &amp; INNOVATION PROGRAMME ON RAW MATERIALS<br/>TO FOSTER CIRCULAR ECONOMY</small> | <b>ACRONYM</b>    | Gold_Insight  |
|   | <b>TITLE</b>      | <b>Tracing Gold-Copper-Zinc with advanced microanalysis</b>   |
|   | <b>CALL/TOPIC</b> | ERA-MIN JOINT CALL 2017 (ERA-MIN-2017_179)/TOPIC 1_Supply of raw materials from exploration and mining  |
|   | <b>OBJECTIVE</b>  | This project seeks to contribute to the challenge of securing primary resources by developing innovative techniques for exploration, developing a new exploration tool for orogenic gold deposits, constructing a 3D/4D model for two gold districts and investigating the potential relationship between gold and base metal deposits in Ireland and Sweden, through advanced isotopic analysis.   |
| <br><b>ERA-MIN 2</b><br><small>RESEARCH &amp; INNOVATION PROGRAMME ON RAW MATERIALS<br/>TO FOSTER CIRCULAR ECONOMY</small> | <b>ACRONYM</b>    | LIGHTS  |
|   | <b>TITLE</b>      | <b>Lightweight Integrated Ground and Airborne Hyperspectral Topological Solution</b>  |
|   | <b>CALL/TOPIC</b> | ERA-MIN JOINT CALL 2017(ERA-MIN-2017_34)/TOPIC 1_Supply of raw materials from exploration and mining  |
|   | <b>OBJECTIVE</b>  | To use hyperspectral cameras with drones owing to map the mineralogy of rocks. This recent tool introduces new possibilities to easily map future exploitable mineral resources and possibly enhance associated resources and reserves.   |
| <br><b>ROBUST</b>  | <b>ACRONYM</b>    | ROBUST  |
|   | <b>TITLE</b>      | <b>Robotic subsea exploration technologies</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-11d-2015 - New sustainable exploration technologies and geomodels   |

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|  | <b>OBJECTIVE</b>  | The ROBUST proposal aims to develop sea bed in situ material identification through the fusion of two technologies, namely laser-based in-situ element-analyzing capability merged with underwater AUV (Autonomous Underwater Vehicle) technologies for sea bed 3D mapping.  |
| <br>MinFuture   | <b>ACRONYM</b>    | MinFuture  |
|  | <b>TITLE</b>      | <b>Global material flows and demand-supply forecasting for mineral strategies</b>  |
|  | <b>CALL/TOPIC</b> | H2020-SC5-16-2016-2017 - Raw materials international co-operation  |
|  | <b>OBJECTIVE</b>  | An interactive platform that provides transparency about existing approaches and information gaps concerning global material flows is needed to understand these global supply chains; developing this capability is critical for maintaining competitiveness in the European economy. Against this backdrop, the proposed MinFuture project aims to identify, integrate, and develop expertise for global material flow analysis and scenario modelling.  |
| <br>ENEX<br>(no logo)   | <b>ACRONYM</b>    | EnEx   |
|  | <b>TITLE</b>      | <b>Enhanced exploration</b>  |
|  | <b>CALL/TOPIC</b> | EIT KAVA Innovation projects: Upscaling  |
|  | <b>OBJECTIVE</b>  | While the mining industry is overall considered to be conservative with new technologies and the introduction of new processes the acceptance of the new solution is estimated to be high due to the fact that consistent companies do not have to change already implemented processes. In their current situation of tough competition and low product value, the likelihood of adopting experimental or laboratory processes is rated rather low. The EnEx proposal targets such a process – drill core analysis. Providing more precise information in real-time with a multi-sensor scanner will lead to faster and new discoveries of deposits. Strengthening the market position of European mining companies through innovative ideas and technological development also has the potential to create new jobs and work opportunities due to the economic gain.   |
| <br>I-EDDA  | <b>ACRONYM</b>    | I-EDDA-TC  |
|  | <b>TITLE</b>      | <b>Innovative Exploration Drilling and Data Acquisition Test Center</b>  |
|  | <b>CALL/TOPIC</b> | EIT KAVA Innovation projects: Upscaling  |
|  | <b>OBJECTIVE</b>  | Increasing the effectiveness of exploration for mineral resources is vital to meet future societal, economic and environmental challenges. This means that innovative solutions to exploration are needed. Effective exploration drilling for mineral resources is an area where industrial innovation plays an important role. Measurements-while-drilling, data acquisition and next generation logging sondes represent three important areas that need development in the mineral exploration sector. Despite this need, there is a complete lack of test beds that allow the industry to actively test novel drilling equipment. This greatly limits the development and implementation of equipment with technology that has been proven but does not yet fulfil the requirements of a product on the commercial market. Although a variety of test sites exist throughout Europe, they are constrained to already existing infrastructure, which severely limits the clients and users to pre-existing conditions that may not fit their purpose. |
| <br>InnoLOG<br>INNOVATIVE GEOPHYSICAL LOGGING TOOLS FOR MINERAL EXPLORATION | <b>ACRONYM</b>    | InnoLOG  |
|  | <b>TITLE</b>      | <b>Innovative geophysical logging tools for mineral exploration</b>  |
|  | <b>CALL/TOPIC</b> | EIT KAVA Innovation projects: Upscaling  |
|  | <b>OBJECTIVE</b>  | This project will impact by boosting of the competitiveness, of the European raw materials companies and providing innovative solutions for a more efficient and sustainable exploration. This proposal contributes with innovative advances in a range of technologies with high impact in the value chain, together with developments in technologies and innovative solutions. The main objective of the project is to improve the performance of the existing downhole geophysical logging tools in the identification of specific minerals in the subsurface and mineral deposits evaluation. Innovative borehole logging tools based on recently developed sensors and innovative processing capabilities provide new opportunities for development of efficient downhole exploration tools suitable for detection and quantification of minerals and raw materials in the subsurface. Extensive testing of the tools' performance first at research facilities and in mines is planned to   |

|   |            |  |
|---|------------|--|
|   |            | demonstrate the efficiency of the new geophysical logging tools as high cost-effectiveness raw materials exploration tools and mineral diagnostic performance.   |
|    | ACRONYM    | MAP  |
|   | TITLE      | <b>Mineral Resource Assessment Platform</b>  |
|   | CALL/TOPIC | EIT KAVA Innovation projects: Upscalling   |
|   | OBJECTIVE  | Reliable information concerning the locations and amounts of undiscovered mineral resources is important for investment decisions by exploration and mining companies and the political and administrative decision-making process concerned with land-use planning. The current state-of-the-art analytical method for this purpose, the “three-part method”, was developed by the US Geological Survey but has several shortcomings related to the handling of uncertainty in both the input and output data and the classification of the delineated mineral potential areas. Furthermore, the different stages should be integrated into one workflow program. |
| <b>MULSEDRO</b><br>(no logo)  | ACRONYM    | MULSEDRO   |
|   | TITLE      | <b>Multi-sensor drones for geology mapping</b>   |
|   | CALL/TOPIC | EIT KAVA Innovation projects: Upscalling   |
|   | OBJECTIVE  | This upscaling project will be at the boundary between a small-scale to a medium scale project. The final product will be two drone systems equipped with photogrammetry magnetic, and hyperspectral (HS) sensors – the two latter to be used optionally ready to the market.  |
|  | ACRONYM    | RESEERVE   |
|   | TITLE      | <b>Mineral potential of the Eastern and South-Eastern Europe region</b>  |
|   | CALL/TOPIC | EIT KAVA Innovation projects: Regional Innovation Scheme (RIS)   |
|   | OBJECTIVE  | RESEERVE is a RIS KAVA project, mapping the mineral sources of the six ESEE countries: Albania, Bosnia and Herzegovina, Croatia, Serbia, Montenegro and FYRO Macedonia, currently not included in the existing data platforms. The main project outcome is the creation of the West Balkan Mineral Register for primary and secondary mineral resources. The register will be a starting point to integrate the region into pan-European Minerals Intelligence Network and bring it closer to the common minerals market.  |
|  | ACRONYM    | Visual3D   |
|   | TITLE      | <b>Visualisation of 3D–4D models in exploration and geosciences</b>  |
|   | CALL/TOPIC | EIT KAVA Innovation Projects: Network of Infraestructure (Nol)   |
|   | OBJECTIVE  | While the territory of the EU in many parts shows a very high exploration potential, it is still a fact that a mere 4% of global expenditure in exploration is invested within European countries. One tool to trigger a higher degree of investment in exploration and to secure ultimately the domestic supply of both main commodities and critical raw materials is to enhance our understanding of the Earth's crust below the surface—and the major aspect is here to optimise our understanding about the 3rd dimension in geology.   |

## 4.5. PROJECT CATEGORY – CIRCULAR ECONOMY

**TABLE 8- List of projects linked to TARANTULA (Project category: Circular economy)**

|   |            |  |
|---|------------|--|
|  | ACRONYM    | CICERONE   |
|   | TITLE      | <b>Circular Economy platfoRm for european priorities strategic agEnda</b>  |
|   | CALL/TOPIC | H2020-SC5-2018-1/CE-SC5-05-2018 - Coordinated approaches to funding and promotion of research and innovation for the circular economy.   |
|   | OBJECTIVE  | To establish a platform which will determine the priorities and pathways for coordinated R&I for circular economy. In turn, this agenda will influence the priorities in future European, national and regional CE programmes. |
|  | ACRONYM    | NEMO   |
|   | TITLE      | <b>Near-zero-waste recycling of low-grade sulphidic mining waste for critical-metal, mineral and construction raw-material production in a circular economy</b>  |
|   | CALL/TOPIC | H2020-SC5-2017-TwoStage/SC5-14-2016-2017 - Raw materials Innovation actions  |

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|---|-------------------|---|
|   | <b>OBJECTIVE</b>  | Sulphidic mining waste from the production of Cu, Pb, Zn and Ni, represents the largest volume of extractive waste in Europe. When poorly managed, these “tailings” may cause major environmental problems such as acid mine drainage. This project develops, demonstrates and exploits, therefore, new ways to valorise sulphidic tailings.  |
|    | <b>ACRONYM</b>    | CEWASTE   |
|   | <b>TITLE</b>      | <b>Voluntary certification scheme for waste treatment</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2018-1/ CE-SC5-08-2018-2019-2020 - Raw materials policy support actions for the circular economy  |
|   | <b>OBJECTIVE</b>  | To develop a standardization process in the value chain of secondary raw materials from wastes containing relevant amounts of valuable and critical raw materials.  |
|    | <b>ACRONYM</b>    | ADIR  |
|   | <b>TITLE</b>      | <b>Next generation urban mining - Automated disassembly, separation and recovery of valuable materials from electronic equipment</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SPIRE-2015/ SPIRE-07-2015 - Recovery technologies for metals and other minerals   |
|   | <b>OBJECTIVE</b>  | The goal is to demonstrate the feasibility of a key technology for next generation urban mining. An automated disassembly of electronic equipment will be worked out to separate and recover valuable materials (tantalum, rare earth elements, germanium, cobalt, palladium, gallium and tungsten, etc) based on image processing, robotic handling, pulsed power technology, 3D laser measurement, real-time laser material identification, laser processing and automatic separation into different sorting fractions. |
|  | <b>ACRONYM</b>    | SUSMAGPRO   |
|   | <b>TITLE</b>      | <b>Sustainable Recovery, Reprocessing and Reuse of Rare-Earth Magnets in a Circular Economy</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2018-2 / CE-SC5-07-2018-2019-2020 - Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes  |
|   | <b>OBJECTIVE</b>  | To develop a recycling supply chain for rare earth magnets in the EU and to demonstrate these new materials on a pilot scale within a range of application sectors and to identify, separate, recycle and demonstrate recycled magnets at a pilot scale with a multidisciplinary team located across the EU.  |
|  | <b>ACRONYM</b>    | TRIS  |
|   | <b>TITLE</b>      | <b>Transition Regions towards Industrial Symbiosis</b>  |
|   | <b>CALL/TOPIC</b> | Interreg Europe Second Call/TOPIC_Environment and resource efficiency   |
|   | <b>OBJECTIVE</b>  | To raise the profile of the benefits of applying the Industrial Symbiosis approach across Europe and beyond, by involving stakeholders (SME and policy actors) across the world. Additionally, the project will develop a standardised approach to Industrial Symbiosis, and this will affect regulation and policy instruments going forward.  |
|  | <b>ACRONYM</b>    | SYMBI   |
|   | <b>TITLE</b>      | <b>Industrial Symbiosis for Regional Sustainable Growth and a Resource Efficient Circular Economy</b>   |
|   | <b>CALL/TOPIC</b> | Interreg Europe Second Call/TOPIC_Environment and resource efficiency   |
|   | <b>OBJECTIVE</b>  | To empower regions to build sustainable economies, resilient to environmental pressures and climate change. The project will support the implementation of policy instruments and measures for the diffusion of industrial symbiosis, to add value, reduce production costs and relieve environmental pressures through increased resource efficiency and green house gas emissions.  |
|  | <b>ACRONYM</b>    | CloseWEEE   |
|   | <b>TITLE</b>      | <b>Integrated solutions for pre-processing electronic equipment, closing the loop of post-consumer high-grade plastics, and advanced recovery of critical raw materials antimony and graphite</b>   |
|   | <b>CALL/TOPIC</b> | H2020-WASTE-3-2014 - Recycling of raw materials from products and buildings   |

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|---|-------------------|---|
|   | <b>OBJECTIVE</b>  | The CloseWEEE project integrates three interlinked research and innovation areas for an improved, resource-efficient recycling of polymer materials and critical raw materials from electrical and electronics equipment (EEE)  |
|  <b>ALSiment</b><br>(no logo)    | <b>ACRONYM</b>    | ALSiment  |
|   | <b>TITLE</b>      | <b>Transforming the hazardous waste of the metallurgical industry into a valuable raw material</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SMEInst-11-2016-2017 - Boosting the potential of small businesses in the areas of climate action, environment, resource efficiency and raw materials  |
|   | <b>OBJECTIVE</b>  | The development of Alsiment, an environmentally friendly cement-free binder able to bind SPL and other industrial waste, will convert it into raw material valuable for energy-intensive industrial processes such as mineral wool production. Alsiment Gerosion is supporting the metal industry to achieve their standards of sustainability by closing the material loop (re-use of all generated waste) while also enabling industries that currently rely on cementitious binders to reduce their use of cement.   |
|  <b>CABRISS</b>                  | <b>ACRONYM</b>    | CABRISS   |
|   | <b>TITLE</b>      | <b>Implementation of a CirculAr economy Based on Recycled, reused and recovered Indium, Silicon and Silver materials for photovoltaic and other applications</b>  |
|   | <b>CALL/TOPIC</b> | H2020-WASTE-1-2014 - Moving towards a circular economy through industrial symbiosis   |
|   | <b>OBJECTIVE</b>  | The main vision of CABRISS project is to develop a circular economy mainly for the photovoltaic, but also for electronic and glass industry. It will consist in the implementation of: (i) recycling technologies to recover In, Ag and Si for the sustainable PV technology and other applications; (ii) a solar cell processing roadmap, which will use Si waste for the high throughput, cost-effective manufacturing of hybrid Si based solar cells and will demonstrate the possibility for the re-usability and recyclability at the end of life of key PV materials. |
|  <b>HISER</b>                  | <b>ACRONYM</b>    | HISER   |
|   | <b>TITLE</b>      | <b>Holistic Innovative Solutions for an Efficient Recycling and Recovery of Valuable Raw Materials from Complex Construction and Demolition Waste</b>   |
|   | <b>CALL/TOPIC</b> | H2020-WASTE-3-2014 - Recycling of raw materials from products and buildings   |
|   | <b>OBJECTIVE</b>  | The main goal of HISER project is to develop and demonstrate novel cost-effective technological and non-technological holistic solutions for a higher recovery of raw materials from ever more complex C&DW, by considering circular economy approaches throughout the building value chain (from the End-of-Life Buildings to new Buildings).  |
|  <b>METALLICA</b><br>(no logo) | <b>ACRONYM</b>    | METALLICA   |
|   | <b>TITLE</b>      | <b>Metallurgical patented Process Transforming Residues from the Electronic Industry into Valuable Precious Metals</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SMEInst-11-2016-2017 - Boosting the potential of small businesses in the areas of climate action, environment, resource efficiency and raw materials  |
|   | <b>OBJECTIVE</b>  | To improve for the processing of WEEE with the aim to enhance resource efficiency the improvement of collection, treatment, and recycling of electronics at the end of their life as well as reduce the CO2 footprint (environmental/health impact) and contribute to a circular economy, our company, UrbanGold has developed the technology of METALLICA.   |
|  <b>MRP</b><br>(no logo yet)   | <b>ACRONYM</b>    | MRP   |
|   | <b>TITLE</b>      | <b>autonomous Multi-electric Recycling Process line</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SMEInst-11-2016-2017 - Boosting the potential of small businesses in the areas of climate action, environment, resource efficiency and raw materials  |
|   | <b>OBJECTIVE</b>  | Thanks to the continuous feedback from our customers and the understanding of their needs, we have developed MRP: a new concept of metal recycling technology, that dispenses with the inefficient blades by high-durability hammers and centrifugal drums, that disintegrate the waste by collisions between waste particles, reaching recycling rates of 99 % with minimal wear on its components. MRP has been designed in the form of modules that overlap one another in tower-shape, decreasing the space   |

|   |            |  |
|---|------------|--|
|   |            | requirements in the recycling facilities and also decreasing the energy consumption.   |
| ULTROSLAG<br>(no logo)  | ACRONYM    | Ultratoslag  |
|   | TITLE      | <b>A new integrated sustainable processing system for 'metal from slag' recovery with higher technical, economic, energy and environmental performance than existing recovery processes.</b>   |
|   | CALL/TOPIC | H2020-SC5-20-2014-1 - Boosting the potential of small businesses for eco-innovation and a sustainable supply of raw materials  |
|   | OBJECTIVE  | Ultratoslag idea is to use a relatively new technology called 'implosion' to selectively break down and separate non-metallic components of slag from metallic particles. This will be combined with ultrasonic vibration sieving for accelerated recovery of metal from the finest fraction. This novel technology was originally developed to recycle waste glass by reducing it to fine 'sand', with uniform size and no 'sharps' compared to normal crushing techniques. This technology has not been applied commercially to other materials.                         |
| SOLVOFLEX<br>(no logo)  | ACRONYM    | SOLVOFLEX  |
|   | TITLE      | <b>Solvometallurgy Infrastructure and Expertise Network</b>  |
|   | CALL/TOPIC | EIT KAVA Innovation Projects: Network of Infraestructure (NoI)   |
|   | OBJECTIVE  | This project aims at implementing a long-term self-sustainable excellence network dedicated to providing services to customers for the implementation of innovative, sustainable business and cooperation models for recycling and/or exploitation of raw materials from end-of-life products, as well as supporting companies and to facilitate the exploitation of European secondary resources via collaboration (software, databases, competences, infrastructures, instrumentation, best practices, etc.) implementing industrial symbiosis and the circular economy. |
|  | ACRONYM    | REE4EU   |
|   | TITLE      | <b>Integrated high temperature electrolysis (HTE) and Ion Liquid Extraction (ILE) for a strong and independent European Rare Earth Elements Supply Chain</b>   |
|   | CALL/TOPIC | H2020-SPIRE-07-2015 - Recovery technologies for metals and other minerals  |
|   | OBJECTIVE  | The REE4EU project developed, validated and demonstrated in 2 industrially relevant Pilots an innovative Rare Earth Alloys (REA) production route from Permanent Magnets (PM) and Secondary Batteries (SB) waste.  |

## 4.6. PROJECT CATEGORY – SUBSTITUTION OF MATERIALS AND EXTREME CONDITIONS

**TABLE 9- List of projects linked to TARANTULA (Project category: Substitution of materials and extreme conditions)**

|   |            |  |
|---|------------|--|
|  | ACRONYM    | Flintstone2020   |
|   | TITLE      | <b>Next generation of superhard non-CRM materials and solutions in tooling</b>   |
|   | CALL/TOPIC | H2020-SC5-2015-one-stage/SC5-12b-2015 - Materials under extreme conditions   |
|   | OBJECTIVE  | To provide a perspective for the replacement of two important CRMs (W and Co) which are the main constituents for two important classes of hard materials (cemented carbides/WC-Co, and PCD/diamond-Co), by developing innovative alternative solutions for tooling operating under extreme conditions.  |
|  | ACRONYM    | EQUINOX  |
|   | TITLE      | <b>A novel process for manufacturing complex shaped Fe-Al intermetallic parts resistant to extreme environments</b>  |
|   | CALL/TOPIC | H2020-SC5-2015-one-stage/SC5-12b-2015 - Materials under extreme conditions   |
|   | OBJECTIVE  | To develop a novel process that allows to substitute Cr/Ni based (stainless) steel parts used in high volume end consumer products such as in the lock industry, electronics, process industry and automotive industry with a novel near net shape production technology for a new class of highly advanced ductile Fe-Al based intermetallics. Ductility at low to medium temperatures, |

|   |                   |   |
|---|-------------------|---|
|   |                   | while maintaining good tensile strength and optimum level of residual stress will be based on a radical new production process that use abundant raw material Fe <sub>3</sub> O <sub>4</sub> and Al <sub>2</sub> O <sub>3</sub> .   |
|    | <b>ACRONYM</b>    | FASTRAM   |
|   | <b>TITLE</b>      | <b>Upscaling of FAST sintering processes for the substitution of critical materials: W and Co</b>   |
|   | <b>CALL/TOPIC</b> | EIT KAVA Innovation projects: Upscalling  |
|   | <b>OBJECTIVE</b>  | The main objective of the project FASTRAM is the up-scaling of FAST techniques for the production of sustainable hard materials, for substituting existing hard metal (WC-Co) in the selected particular applications. Europe's share of the world's primary and secondary tungsten consumption is estimated to be 12 000 tonnes or 13 % of the world total of 90 000 tonnes for 2011, and 74 % of it is imported. New market areas will enable investments for production facilities and that way open possibilities to participate also to the larger invitation of tenders. For AMES the main driver is also to find new business areas. AMES is a producer of PM metal parts for different sectors. The introduction of products in the mining sector will be very interesting for the company. The production of new products will open the possibility of increasing the production lines. For Metso, hard materials containing no W or Co would be desired also due to their role in REACH and in Conflict mineral listings. |
|  | <b>ACRONYM</b>    | EXTREME   |
|   | <b>TITLE</b>      | <b>Substitution of CRMs in components and coatings used under extreme conditions</b>  |
|   | <b>CALL/TOPIC</b> | EIT KAVA Innovation Projects: Network of Infraestructure (Nol)  |
|   | <b>OBJECTIVE</b>  | Development of new shared actions (e.g. new research projects), support to Education activities, and providing services to enterprises, industries and research institutions in the interested sectors (manufacturing, machining, transport, construction, energy, etc.)  |
|  | <b>ACRONYM</b>    | MiRaCLE   |
|   | <b>TITLE</b>      | <b>Mineral RAw materials replacement with nanoComposites by renewabLe ResourcEs</b>   |
|   | <b>CALL/TOPIC</b> | EIT KAVA Innovation Projects: Network of Infraestructure (Nol)  |
|   | <b>OBJECTIVE</b>  | MiRaCLE provides industry access to innovative and breakthrough technologies in the following markets: HW-ICT, through flexible and wearable electronic and optoelectronic devices; Mobility and Machinery & Equipment, through better thermal-dissipative and/or light-weighting components; Energy Supply, through more efficient and innovative fuel cells, solar cells, PEM Electrolysers, Metal-Air batteries. MiRaCLE consortium develops new processes and materials for the substitution of metals and conventional fossil-based materials, obtained from non-renewable sources, by carbon- and bio-based innovative materials, obtained from renewable sources.  |

## 4.7. PROJECT CATEGORY – MINERALS SUPPLY INFORMATION

**TABLE 10- List of projects linked to TARANTULA (Project category: Minerals supply information)**

|   |                   |   |
|---|-------------------|---|
|  | <b>ACRONYM</b>    | ORAMA   |
|   | <b>TITLE</b>      | <b>Optimising quality of information in RAw MAterials data collection across Europe</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-2017-OneStageB/ SC5-15-2016-2017 - Raw materials policy support actions   |
|   | <b>OBJECTIVE</b>  | To identify the best practices in collecting information on raw materials. Data providers are targeted for training to secure wider uses of these practices aiming to create a system to transfer information stored at national level to the EU common information system. This public service will show which metallic raw materials are produced in different parts of the EU, in which quantities and how much is imported to the EU. |
|   | <b>ACRONYM</b>    | X-MINE  |
|   | <b>TITLE</b>      | <b>Real-Time Mineral X-Ray Analysis for Efficient and Sustainable Mining</b>  |

|   |                   |   |
|---|-------------------|---|
|    | <b>CALL/TOPIC</b> | H2020-SC5-2016-TwoStage/SC5-14-2016-2017 - Raw materials Innovation actions   |
|   | <b>OBJECTIVE</b>  | To do a characterization and estimation as well as more efficient ore extraction in existing mine operations, making the mining of smaller and complex deposits economically feasible and increasing potential European mineral resources (specifically in the context of critical raw materials) without generating adverse environmental impact.  |
|    | <b>ACRONYM</b>    | MSP-REFRAM  |
|   | <b>TITLE</b>      | <b>Multi-Stakeholder Platform for a Secure Supply of Refractory Metals in Europe</b>  |
|   | <b>CALL/TOPIC</b> | H2020-WASTE-4d-2015 - Raw materials partnerships  |
|   | <b>OBJECTIVE</b>  | MSP-REFRAM will address these challenges by creating of a common multi-stakeholder platform that will draw the current refractory metals value chains and identify its innovation potential in order to support the implementation of the EIP on Raw Materials. Coming from industry, research, public sectors and civil society, both Consortium Members and External Experts have joined forces with expertise covering the whole value chain including mining, processing, recycling, application.   |
|    | <b>ACRONYM</b>    | MICA  |
|   | <b>TITLE</b>      | <b>Mineral Intelligence Capacity Analysis</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-13e-2015 - Raw materials intelligence capacity  |
|   | <b>OBJECTIVE</b>  | The main objectives of MICA are: Identification and definition of stakeholder groups and their raw material intelligence (RMI) requirements, Consolidation of relevant data on primary and secondary raw materials, Determination of appropriate methods and tools to satisfy stakeholder RMI requirements, Investigation of (RMI) options for European mineral policy development, Development of the EU-Raw Materials Intelligence Capacity Platform (EU-RMICP) integrating information on data and methods/tools with user interface capable of answering stakeholder questions, and Linking the derived intelligence to the European Union Raw Materials Knowledge Base developed by the Minerals4EU project. |
|  | <b>ACRONYM</b>    | MIN-GUIDE   |
|   | <b>TITLE</b>      | <b>Minerals Policy Guidance for Europe</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-13c-2015 - Innovation friendly minerals policy framework  |
|   | <b>OBJECTIVE</b>  | MIN-GUIDE is a project addressing the need for a secure and sustainable supply of minerals in Europe by developing a 'Minerals Policy Guide'. The key objectives of the project are:<br>(1) providing guidance for EU and MS minerals policy<br>(2) facilitating minerals policy decision making through knowledge co-production for transferability of best practice minerals policy, and (3) fostering community and network building for the co-management of an innovation catalysing minerals policy framework.  |
|  | <b>ACRONYM</b>    | INTRAW  |
|   | <b>TITLE</b>      | <b>International cooperation on Raw materials</b>   |
|   | <b>CALL/TOPIC</b> | H2020-SC5-13b-2014 - Strategic international dialogues and cooperation on raw materials with technologically advanced countries   |
|   | <b>OBJECTIVE</b>  | Not for profit international association, created to support worldwide cooperation on mineral raw materials' research & innovation, education & outreach, industry & trade and recycling, management & substitution of strategic raw materials.   |
|  | <b>ACRONYM</b>    | PANORAMA  |
|   | <b>TITLE</b>      | <b>Physical AccouNts Of RAw MAterial stock and flow Information Service</b>   |
|   | <b>CALL/TOPIC</b> | EIT KAVA Innovation projects: Upscaling   |
|   | <b>OBJECTIVE</b>  | To date, there is no reliable information service that maps the flows and stocks of materials yet – information that should be the basis of any type of materials management. By improving this sector, competitiveness in Europe will be enhanced overall, with a underlined focus on sustainability.  |
|  | <b>ACRONYM</b>    | GloREIA   |
|   | <b>TITLE</b>      | <b>Towards a Global Rare Earth Industry Association</b>   |
|   | <b>CALL/TOPIC</b> | EIT KAVA Innovation projects: Internationalisation  |

|  |                   |  |
|--|-------------------|--|
|  | <b>OBJECTIVE</b>  | Rare earth elements (REE) are essential for the transition towards sustainability. However, REE are critical metals and only one country, China, dominates the entire supply chain with its own domestic pitfalls such as environmental pollution, illegal mining, impacting the international market. As highlighted by the European Rare Earths Competency Network, boosting supply security through enhanced cooperation among European end-users and other stakeholders should receive top priority. However, enhancing collaboration between the REE supply chain is a major challenge because unlike many other types of metals and elements, there is no REE industry association who gathers stakeholders together. The reason an association like this does not exist is not that it is not needed. On the contrary, the REE industry faces numerous obstacles such as inefficient recovery of REE from end users/end products, the high environmental impact from production and processing, high volatility of the raw material prices and low competition from countries outside China. To combat these issues, GloREIA, concurrently gathers key supply chain actors currently already on the global market and share and create information which leads to an innovative REE industry of the future. |
|  | <b>ACRONYM</b>    | IRTC   |
|  | <b>TITLE</b>      | <b>International Round Table on Materials Criticality</b>  |
|  | <b>CALL/TOPIC</b> | EIT KAVA Innovation projects: Internationalisation   |
|  | <b>OBJECTIVE</b>  | Critical raw materials are materials which we need for current and future products and technologies, but which are now or soon difficult to acquire. This can be for a variety of reasons: e.g. because they are scarce in the Earth's crust, as they are only available in specific regions, their price is so volatile that there are periods when they are unaffordable, or because of their mining and processing cause environmental or social problems. These materials often have special properties that make them important for modern applications such as electronics or new energy technologies. IRTC is an international network of experts in critical raw materials who work on definitions and assessments on which materials are or will be critical in the future. Since "criticality" depends on the perspective – e.g. how scarce a material is in one's own region, or how much of it is needed in an economy or a technological sector – these approaches differ.  |

## 4.8. PROJECT CATEGORY – R&I NETWORKING

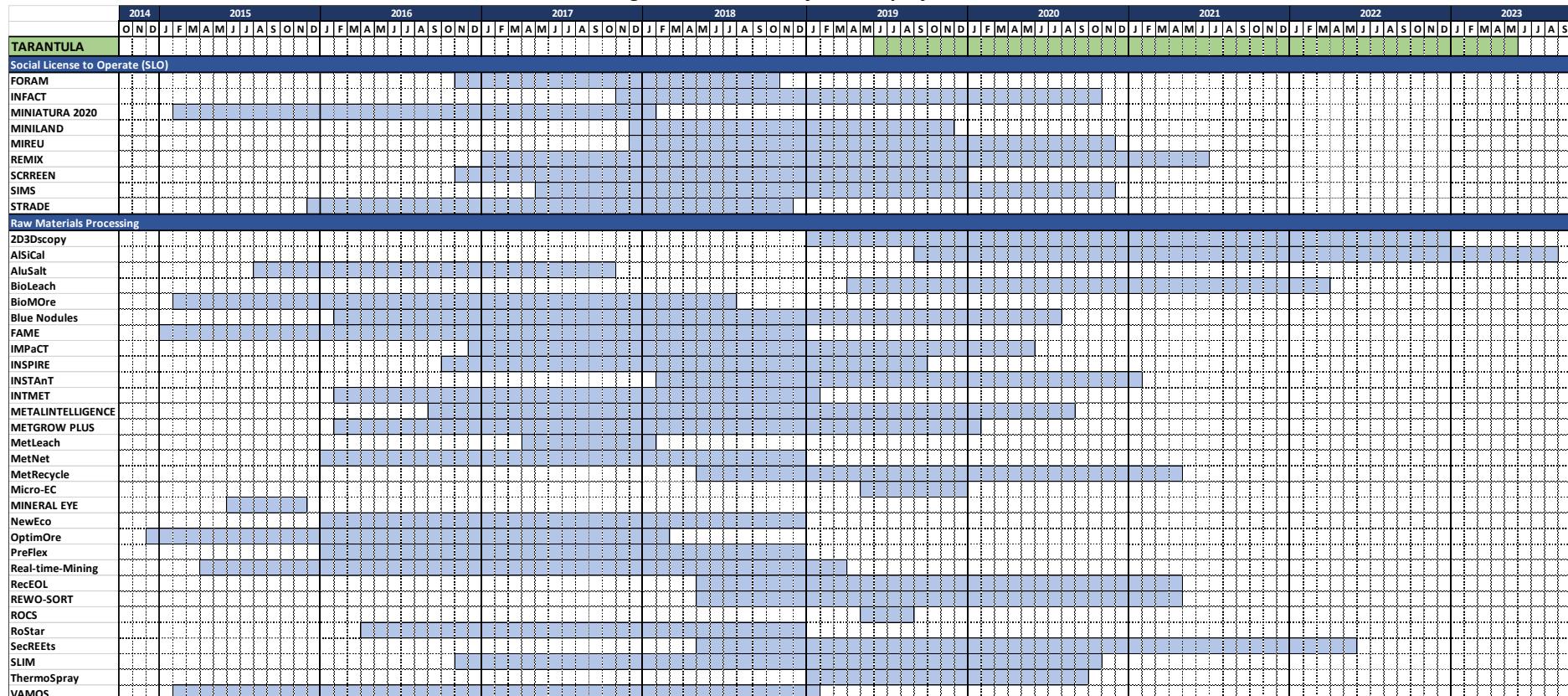
**TABLE 11- List of projects linked to TARANTULA (Project category: R&I networking)**

|   |                   |   |
|---|-------------------|---|
|  | <b>ACRONYM</b>    | VERAM   |
|   | <b>TITLE</b>      | <b>Vision and Roadmap for European Raw Materials</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-13d-2015 - Raw materials research and innovation coordination   |
|   | <b>OBJECTIVE</b>  | VERAM aims to provide an umbrella and coordination function for the raw materials related research and innovation activities across the relevant ETPs and their national technology platforms as well as related other stakeholders across the raw materials value chain in order to increase synergies and facilitate uptake of research results and innovation across the sectors and their value chains. |
|  | <b>ACRONYM</b>    | INTERMIN  |
|   | <b>TITLE</b>      | <b>INTERNATIONAL NETWORK OF RAW MATERIALS TRAINING CENTRES</b>  |
|   | <b>CALL/TOPIC</b> | H2020-SC5-16-2016-2017 - Raw materials international co-operation   |
|   | <b>OBJECTIVE</b>  | INTERMIN will create a self-sustainable long-term lasting international network of training centres for professionals. This project involves educational and research institutions in the EU and the leading counterparts in third countries, based on specific country expertise in the primary and secondary raw materials sectors.   |

## 5. TIMELINE OF RELATED PROJECTS

Based on the research developed regarding clustering projects of TARANTULA, the following image shows the progress timelines of those projects that can be compared to TARANTULA, classified once more by category.

**Figure 10 -Timeline of related projects**



|   | 2014 |   |   | 2015 |   |   | 2016 |   |   | 2017 |   |   | 2018 |   |   | 2019 |   |   | 2020 |   |   | 2021 |   |   | 2022 |   |   | 2023 |   |   |   |   |   |   |   |
|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|------|---|---|---|---|---|---|---|
|   | O    | N | D | J    | F | M | A    | M | J | J    | A | S | O    | N | D | J    | F | M | A    | M | J | J    | A | S | O    | N | D | J    | F | M | A | M | J | J | A |
| <b>TARANTULA</b>                          |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| <b>Residues and Tailings</b>              |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| AVAR                                      |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| BioFlex                                   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| BIORECOVER                                |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| CarsiFer                                  |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| CHROMIC                                   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| CREAToR                                   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| CROCODILE                                 |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| e.THROUGH                                 |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| ElectroFlex                               |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| FineFuture                                |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| FLAME                                     |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| GREENy                                    |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| ION4RAW                                   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| iTARG3T                                   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| ITERAMS                                   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| MINTECO                                   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| Morecovery                                |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| OpTaRec                                   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| PLATIRUS                                  |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| PROSUM                                    |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| PyroFlex                                  |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| ReclaMet                                  |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| REE4EU                                    |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| REEBAUX                                   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| Removal                                   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| RIGaT                                     |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| RIS-CURE                                  |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| SCALE                                     |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| SMART GROUND                              |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| SOCRATES                                  |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| SOLCRIMET                                 |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| STINGS                                    |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| SULTAN                                    |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| <b>Geomodels, Mapping and Exploration</b> |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| EnEx                                      |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| E-SHAPE                                   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| GeoERA                                    |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| Gold_Insight                              |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| HiTech AlkCarb                            |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| I-EDDA-TC                                 |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| InnoLOG                                   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| LIGHTS                                    |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| MAP                                       |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| MinFuture                                 |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| MULSEDRO                                  |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| NEXT                                      |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| RESEERVE                                  |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| ROBOMINERS                                |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| ROBUST                                    |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| Smart Exploration                         |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| SOLSA                                     |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| UNEXMIN                                   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |
| Visual3D                                  |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |      |   |   |   |   |   |   |   |

|   | 2014 | J | F | M | A | M | J | J | A | S | O | N | D | 2015 | J | F | M | A | M | J | J | A | S | O | N | D | 2016 | J | F | M | A | M | J | J | A | S | O | N | D | 2017 | J | F | M | A | M | J | J | A | S | O | N | D | 2018 | J | F | M | A | M | J | J | A | S | O | N | D | 2019 | J | F | M | A | M | J | J | A | S | O | N | D | 2020 | J | F | M | A | M | J | J | A | S | O | N | D | 2021 | J | F | M | A | M | J | J | A | S | O | N | D | 2022 | J | F | M | A | M | J | J | A | S | O | N | D | 2023 | J | F | M | A | M | J | J | A | S | O | N | D |
|---|------|---|---|---|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|---|---|---|---|
| TARANTULA   | O    | N | D | J | F | M | A | M | J | J | A | S | O | N    | D | J | F | M | A | M | J | J | A | S | O | N | D    |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Circular Economy</b>                                 |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| ADIR  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| ALSiment  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| CABRISS   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| CEWASTE   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| CICERONE  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| CloseWEEE   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| HISER   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| METALLICA   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| MRP   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| NEMO  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| SOLVOFLEX   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| SUSMAGPRO   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| SYMBI   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| TRIS  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| Ultraslag   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| REE4EU  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Substitution of Materials and Extreme Conditions</b> |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| EQUINOX   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| EXTREME   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| FASTRAM   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| Flintstone2020  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| MiRaCLE   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>Minerals Supply Information</b>                      |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| GloREIA   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| INTRAW  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| IRTC  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| MICA  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| MIN-GUIDE   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| MSP-REFRAM  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| ORAMA   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| PANORAMA  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| X-MINE  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>R&amp;I Networking</b>                               |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| INTERMIN  |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |
| VERAM   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |   |   |   |   |

## 6. CONNECTION WITH T8.7 - CONTRIBUTION TO CLUSTERING WORKSHOPS AND ACTIVITIES

Over the first 6 months of the project's implementation, table 12 shows the clustering activities that were carried out.

**TABLE 12-Overview of clustering activities in TARANTULA (M1-M6)**

| <b>Satellite event on "Public Acceptance and Social Impact of Mining and Mineral Recycling in Europe" - CRM Week in Brussels, 22th November, 2019- Presentation by KUL</b> |   |  |   |
|--|---|--|---|
|  | <b>Description</b>  | <b>Other projects</b>  | <b>Discussion topics</b>  |
|   | <p>High level expert meeting organised by TARANTULA project in collaboration with the European Commission. The event presented different viewpoints on social acceptance of mining and recycling in Europe from a wide range of stakeholders, i.e. industry players, governments, NGOs, local citizens, academia and international institutions.</p> <p><a href="#">Link to this event available here</a></p> | <ul style="list-style-type: none"> <li>▪ CHROMIC</li> <li>▪ CROCODILE</li> <li>▪ INFACt</li> <li>▪ NEMO</li> <li>▪ SecREEts</li> </ul> | <p>Social license to operate, public acceptance of mining in Europe</p>   |
| Attended by TARANTULA Partners   |   | PNO, KUL, TEC, ICA   |   |
| <b>9th Trilateral EU-US-Japan Conference on Critical Raw Materials-CRM Week in Brussels, 19th November, 2019- Presentation by PNO</b>                                      |   |  |   |
|   | <p>Event organised as part of the CRM Week 2019 to exchange information on the critical materials, especially in the field of R&amp;D under the framework of trilateral cooperation between Japan, the United States and the European Union.</p> <p><a href="#">Link to this conference available here</a></p>  | <ul style="list-style-type: none"> <li>▪ CROCODILE</li> <li>▪ PLATIRUS</li> <li>▪ REE4EU</li> </ul>                                    | <ul style="list-style-type: none"> <li>▪ Recovery of strategic critical raw materials such as refractory metals, Cobalt, PGMs, Rare earth elements from primary and secondary waste streams.</li> <li>▪ Transfer of novel technologies for the recovery of metals towards commercialisation.</li> </ul> |
| Attended by TARANTULA Partners   |   | KUL, TEC, ICA, IDE, SINT   |   |

Alternatively, considering the importance that Life Cycle Assessment could have in contribution to clustering and workshop activities, the following 18 Horizon 2020 projects ongoing (January 2020) that contains LCA information were identified: SLIM, MetallIntelligence, AlSiCal, SecREEts, CHROMIC, PLATIRUS, SCALE, ITERAMS, CROCODILE, FineFuture, SOCRATES, SULTAN, BIORECOVER, CREAToR, RemovAL, e.THROUGH, NEMO and SUSMAGPRO.

## 7. SUMMARY AND CONCLUSIONS

Deliverable 8.2 of TARANTULA set itself the goal of developing an exhaustive list of TARANTULA related projects in view of clustering and Social license to Operate (SLO) activities within TARANTULA. Furthermore, this list intends to serve the consortium to (1) increase in the dissemination and exploitation of the scientific and technical achievements of TARANTULA; (2) set up networks of stakeholders in similar domains and/or promoting relevant concepts; and (3) creating spin-off collaborations in the frame of (EU-funded) R&D.

Main results reached include a database for 122 related projects made and shared with Task participants. Those projects could be divided into 8 categories and information of 12 parameters could be collected for each project. All the analysis developed will input future activities involving clustering topics for T8.7, for the benefit of TARANTULA members and new interested partners that could also take advantage from the results obtained.

In “Task description” section it was outlined many connections that could be made between TARANTULA and other projects, attending their Link with TARANTULA, Funding schemes, Percentage financed and budget averages, Coordinator’s country, Members of the consortium, Project duration and Status of the projects. All this information may be useful for TARANTULA specific challenges and other future projects, using a variety of indicators and filters.

The “Overview of projects related to TARANTULA” section contains the exhaustive list of projects related to TARANTULA, classified into eight categories: “Social License to Operate”, “Raw Materials Processing”, “Residues and Tailings”, “Geomodels, mapping and exploration”, “Circular Economy”, “Substitution of materials and extreme conditions”, “Minerals supply information”, “R&I Networking”. Furthermore, section “8. Annex/references” include an excel file where comprehensive search and parameters may be inserted.

Finally, “Connection with T8.7 - Contribution to clustering workshops and activities” includes some ideas coming from the identification of projects, that feeds into the clustering and general communication/dissemination activities promoting significant synergies in cooperation and verifying that data inputs, knowledge and information from previous completed or ongoing projects, available in a timely manner to be incorporated into the TARANTULA knowledge base in Task 8.7.

## 8. ANNEXES AND REFERENCES

### 8.1. ANNEX 1: PROJECTS' COMPREHENSIVE INFORMATION

**TABLE 13- Comprehensive information of projects linked to TARANTULA (Project category: SLO)**

|   |                      |  |                 |            |
|---|----------------------|--|-----------------|------------|
| <br><b>MIREU</b><br><small>MIXING AND METALLURGY REGIONS OF EU</small> | <b>ACRONYM</b>       | MIREU  |                 |            |
|   | <b>G.A. ID</b>       | 776811   |                 |            |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/212934/factsheet/en">https://cordis.europa.eu/project/rcn/212934/factsheet/en</a>  |                 |            |
|   | <b>WEBSITE</b>       | <a href="https://mireu.eu/">https://mireu.eu/</a>  |                 |            |
|   | <b>STARTING DATE</b> | 2017/12/01   | <b>END DATE</b> | 2020/11/30 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> GEOLOGIAN TUTKIMUSKESKUS (GTK)<br><b>CONTACT:</b> Juha Kaija ( <a href="mailto:juha.kaija@gtk.fi">juha.kaija@gtk.fi</a> )<br>Kaisa Turunen ( <a href="mailto:kaisa.turunen@gtk.fi">kaisa.turunen@gtk.fi</a> )   |                 |            |
|   |                      | GEOKOMPETENZZENTRUM FREIBERG EV<br>AKADEMIA GORNICZO-HUTNICZA IM. STANISLAWA STASZICA W KRAKOWIE<br>LAPIN YLIOPISTO<br>NOVA ID FCT - ASSOCIACAO PARA A INOVACAO E DESENVOLVIMENTO DA FCT<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>EUROPEAN REGIONS RESEARCH AND INNOVATION NETWORK ASBL<br>NATIONAL TECHNICAL UNIVERSITY OF ATHENS – NTUA<br>COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES<br>THE UNIVERSITY OF EXETER<br>MINPOL GMBH<br>REGIONAL COUNCIL OF LAPLAND<br>MONTANUNIVERSITAET LEOBEN<br>CONSEJERIA DE EMPLEO EMPRESA Y COMERCIO<br>INSTITUTO ARAGONES DE FOMENTO<br>CONSEJERIA DE ECONOMIA Y HACIENDA JUNTA DE CASTILLA Y LEON<br>LULEA TEKNiska UNIVERSITET<br>SOCIEDAD DE INVESTIGACION Y EXPLOTACION MINERA DE CASTILLA Y LEON S.A.<br>BUSINESS JOENSUU OY<br>COMMUNICATIONS, CLIMATE ACTION AND ENVIRONMENTS<br>ASOCIATIEI AGENTIA DE MANAGEMENT ENERGETIC MARAMURES<br>CORNWALL COUNCIL<br>VEREIN STEIRISCHE EISENSTRASSE (VESTE)<br>KOSICKY SAMOSPRAVNY KRAJ<br>TECHNICKA UNIVERZITA V KOSICIACH<br>INSTYTUT ROZWOJU TERYTORIALNEGO<br>REGIONFORBUNDET VASTERBOTTENS LAN<br>EMPRESA NACIONAL DE MINERIA<br>COMISSAO DE COORDENACAO E DESENVOLVIMENTO REGIONAL DO<br>ALENTEJO FUNDACION ICAMCYL |                 |            |
|   | <b>BUDGET</b>        | €2 999 725   |                 |            |
| <br><b>SIMS</b>  | <b>ACRONYM</b>       | SIMS   |                 |            |
|   | <b>G.A. ID</b>       | 730302   |                 |            |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/210176/factsheet/en">https://cordis.europa.eu/project/rcn/210176/factsheet/en</a>  |                 |            |
|   | <b>WEBSITE</b>       | <a href="https://www.simsmining.eu/">https://www.simsmining.eu/</a>  |                 |            |
|   | <b>STARTING DATE</b> | 2017/05/01   | <b>END DATE</b> | 2020/04/30 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> EPIROC ROCK DRILLS AB<br><b>CONTACT:</b> Morgan Rody ( <a href="mailto:morgan.rody@se.atlascopco.com">morgan.rody@se.atlascopco.com</a> )   |                 |            |
|   |                      | LULEA TEKNiska UNIVERSITET<br>LUOSSAVAARA-KIIRUNAVAARA AB<br>BOLIDEN MINERAL AB<br>KGHM CUPRUM SPZOO<br>ODPOWIEDZIALNOSCIA - CENTRUM BADAWCZO-ROZWOJOWE<br>ABB AB<br>ERICSSON AB<br>MOBILARIS AB<br>RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN   |                 |            |

|   |                      |  |                 |            |
|---|----------------------|--|-----------------|------------|
|   |                      | K+S Kali GmbH<br>AGNICO-EAGLE FINLAND OY<br>IGW EUROPE AB<br>WOLFIT AB<br>MOBILARIS MCE AB   |                 |            |
|   |                      | <b>BUDGET</b><br>Overall budget: € 16 139 600 / EU contribution: € 12 709 745.   |                 |            |
|    | <b>ACRONYM</b>       | INFACt   |                 |            |
|   | <b>G.A. ID</b>       | 776487   |                 |            |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/212913/factsheet/en">https://cordis.europa.eu/project/rcn/212913/factsheet/en</a>  |                 |            |
|   | <b>WEBSITE</b>       | <a href="https://www.infactproject.eu/">https://www.infactproject.eu/</a>  |                 |            |
|   | <b>STARTING DATE</b> | 2017/11/01   | <b>END DATE</b> | 2020/10/31 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV<br><b>CONTACT:</b> Leila Ajabou ( <a href="mailto:Lajabou@hzdr.de">Lajabou@hzdr.de</a> )  |                 |            |
|   | <b>PARTNERS</b>      | DIALOGIK GEMEINNUETZIGE GESELLSCHAFT FUER KOMMUNIKATIONS- UND KOOPERATIONSFORSCHUNG mbH<br>ASISTENCIAS TECNICAS CLAVE SL<br>SUOMEN YMPARISTOKESKUS<br>FEDERATION EUROPEENNE DES GEOLOGUES<br>ATALAYA RIO TINTO MINERA SL<br>COBRE LAS CRUCES SA<br>AA SAKATTI MINING OY<br>SRK EXPLORATION SERVICES LIMITED<br>AARHUS GEOFISICA SRL<br>GEOGNOSIA SLL<br>SUPRACON AG<br>GALSA (PTY) LTD<br>AGENCIA DE INNOVACION Y DESARROLLO DE ANDALUCIA<br>FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.<br>OULUN YLIOPISTO<br>ITA-SUOMEN YLIOPISTO<br>AARHUS GEOPHYSICS APS |                 |            |
|   | <b>BUDGET</b>        | € 5 624 029,59   |                 |            |
|   | <b>ACRONYM</b>       | REMIX  |                 |            |
|   | <b>WEBSITE</b>       | <a href="https://www.interregeurope.eu/remix/">https://www.interregeurope.eu/remix/</a>  |                 |            |
|  | <b>STARTING DATE</b> | 2017/01/01   | <b>END DATE</b> | 2021/06/30 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Regional Council of Lapland<br><b>CONTACT:</b> Kristiina Jokelainen ( <a href="mailto:Kristiina.Jokelainen@lapinliitto.fi">Kristiina.Jokelainen@lapinliitto.fi</a> )  |                 |            |
|   | <b>PARTNERS</b>      | ICE INSTITUTE FOR BUSINESS COMPETITIVENESS OF CASTILLA Y LEÓN<br>BUSINESS JOENSUU OY JOSEK<br>MARSHAL'S OFFICE OF LOWER SILESIAN VOIVODESHIP<br>MONTANUNIVERSITAT LEOBEN<br>NOVA UNIVERSITY OF LISBON FACULTY OF SCIENCES AND TECHNOLOGY<br>MINISTRY OF INDUSTRY AND TRADE OF THE CZECH REPUBLIC<br>UNIVERSITY OF EXETER<br>NATIONAL TECHNICAL UNIVERSITY OF ATHENS<br>THE FREIBERG GEOCOMPETENCE CENTER.  |                 |            |
|   | <b>BUDGET</b>        | €1 997 655   |                 |            |
|  | <b>ACRONYM</b>       | STRADE   |                 |            |
|   | <b>G.A. ID</b>       | 689364   |                 |            |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/199892/factsheet/en">https://cordis.europa.eu/project/rcn/199892/factsheet/en</a>  |                 |            |
|   | <b>WEBSITE</b>       | <a href="https://www.strade-project.eu/index.php?id=3">https://www.strade-project.eu/index.php?id=3</a>  |                 |            |
|   | <b>STARTING DATE</b> | 2015/12/01   | <b>END DATE</b> | 2018/11/30 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Oeko-INSTITUT E.V- Institute for Applied Ecology<br><b>CONTACT:</b> Doris Schueler ( <a href="mailto:d.schueler@oeko.de">d.schueler@oeko.de</a> )   |                 |            |
|   | <b>PARTNERS</b>      | SNL FINANCIAL SWEDEN AB<br>UNIVERSITY OF DUNDEE<br>PROJEKT-CONSULT BERATUNG IN ENTWICKLUNGSLANDERN GMBH<br>GEORANGE IDEELLA FORENING<br>UNIVERSITY OF THE WITWATERSRAND JOHANNESBURG   |                 |            |
|   | <b>BUDGET</b>        | € 1 997 655  |                 |            |
|   | <b>ACRONYM</b>       | STRADE   |                 |            |
|   | <b>G.A. ID</b>       | 689364   |                 |            |

|  |                      |   |
|--|----------------------|---|
|  |                      | DMT-KAI BATLA PTY LTD<br>SNL FINANCIAL LIMITED  |
|  | <b>BUDGET</b>        | € 1 977 508,75  |
| <br><b>TOWARDS A WORLD FORUM<br/>ON RAW MATERIALS</b> | <b>ACRONYM</b>       | FORAM   |
|  | <b>G.A. ID</b>       | 730127  |
|  | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/206098/factsheet/en">https://cordis.europa.eu/project/rcn/206098/factsheet/en</a>   |
|  | <b>WEBSITE</b>       | <a href="http://www.foramproject.net/">http://www.foramproject.net/</a>   |
|  | <b>STARTING DATE</b> | 2016/11/01  |
|  |                      | <b>END DATE</b> 2018/10/31  |
|  | <b>COORDINATOR</b>   | <b>ENTITY:</b> WORLD RESOURCES FORUM ASSOCIATION<br><b>CONTACT:</b> Mathias Schluep ( <a href="mailto:mathias.schluep@wrforum.org">mathias.schluep@wrforum.org</a> )  |
|  | <b>PARTNERS</b>      | EuroGeoSurveys - EGS<br>FEDERATION EUROPEENNE DES GEOLOGUES<br>UNITED NATIONS UNIVERSITY<br>UNIVERSITEIT LEIDEN<br>HOFMANN-AMTENBRINK MARGARETHE<br>TECHNISCHE UNIVERSITAT CLAUSTHAL<br>UNIVERSITAET KASSEL<br>GONDWANA EMPREENDIMENTOS E CONSULTORIAS LIMITADA<br>SERVICIO GEOLOGICO COLOMBIANO<br>MINPOL GMBH<br>LA PALMA RESEARCH CENTRE FOR FUTURE STUDIES SL   |
|  | <b>BUDGET</b>        | Overall budget: € 1 542 437,50 / EU contribution: € 1 136 812,50  |
|   | <b>ACRONYM</b>       | SCRREEN   |
|  | <b>G.A. ID</b>       | 730227  |
|  | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/206262/factsheet/en">https://cordis.europa.eu/project/rcn/206262/factsheet/en</a>   |
|  | <b>WEBSITE</b>       | <a href="http://scrreen.eu/">http://scrreen.eu/</a>   |
|  | <b>STARTING DATE</b> | 2016/11/01  |
|  |                      | <b>END DATE</b> 2019/12/31  |
|  | <b>COORDINATOR</b>   | <b>ENTITY:</b> COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES (CEA)<br><b>CONTACT:</b> Stephane Bourg ( <a href="mailto:stephane.bourg@cea.fr">stephane.bourg@cea.fr</a> )  |
|  | <b>PARTNERS</b>      | ASSOCIATION FRANCAISE DE NORMALISATION,<br>AMPHOS 21 GROUP SL<br>BUNDESANSTALT FUER GEOWISSENSCHAFTEN UND ROHSTOFFE<br>UNITED KINGDOM RESEARCH AND INNOVATION<br>NATURAL ENVIRONMENT RESEARCH COUNCIL<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>CHALMERS TEKNiska HOEGSKOLA AB<br>ENCO SRL<br>AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE<br>L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE<br>FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN<br>FORSCHUNG E.V.<br>GEOLOSKI ZAVOD SLOVENIJE<br>GEOLOGICAL SURVEY OF DENMARK AND GREENLAND<br>GEOLOGIAN TUTKIMUSKESKUS<br>UNIVERSIDAD DE BURGOS<br>OPTIMIZACION ORIENTADA A LA SOSTENIBILIDAD SL<br>SIEC BADAWCZA LUKASIEWICZ - INSTYTUT METALI NIEZELAZNYCH<br>KNOWLEDGE TRANSFER NETWORK LIMITED<br>UNIVERSITEIT LEIDEN<br>LGI CONSULTING<br>MINPOL GMBH,<br>PNO INNOVATION<br>SVERIGES GEOLOGISKA UNDERSOKNING<br>SWERIM AB<br>FUNDACION TECNALIA RESEARCH & INNOVATION<br>NATIONAL TECHNICAL UNIVERSITY OF ATHENS – NTUA<br>TECHNISCHE UNIVERSITEIT DELFT<br>UNITED NATIONS UNIVERSITY<br>TEKNOLOGIAN TUTKIMUSKESKUS VTT OY<br>ECODOM-CONSORZIO ITALIANO PER IL RECUPERO E RICICLAGGIO ELETTROD<br>JRC-JOINT RESEARCH CENTRE-EUROPEAN COMMISSION |

|   |   |  |                 |            |
|---|---|--|-----------------|------------|
|   | <b>BUDGET</b>   | € 2 999 500  |                 |            |
|  | <b>ACRONYM</b>  | MINATURA 2020  |                 |            |
|   | <b>G.A. ID</b>  | 642139   |                 |            |
|   | <b>CORDIS LINK</b>  | <a href="https://cordis.europa.eu/project/rcn/193887/factsheet/en">https://cordis.europa.eu/project/rcn/193887/factsheet/en</a>  |                 |            |
|   | <b>WEBSITE</b>  | <a href="http://minatura2020.eu/">http://minatura2020.eu/</a>  |                 |            |
|   | <b>STARTING DATE</b>  | 2015/02/01   | <b>END DATE</b> | 2018/01/31 |
|   | <b>COORDINATOR</b>  | <b>ENTITY:</b> MINPOL GMBH   |                 |            |
|   |   | <b>CONTACT:</b> Günter Tiess ( <a href="mailto:gtiess@minpol.com">gtiess@minpol.com</a> )  |                 |            |
|   | <b>PARTNERS</b>   | PAN EUROPEAN RESERVES AND RESOURCES REPORTING COMMITTEE<br>INDUSTRIAL MINERALS ASSOCIATION EUROPE<br>FEDERATION EUROPÉENNE DES GEOLOGUES<br>JU ZAVOD ZA GEOLOSKA ISTRAZIVANJA<br>MINISTARSTVO GOSPODARSTVA HERCEGBOSANSKE ZUPANIJE<br>INSTYTUT GOSPODARKI SUROWCAMI MINERALNYMI I ENERGIA PAN<br>UNIVERSITY COLLEGE LONDON<br>LA PALMA RESEARCH CENTRE FOR FUTURE STUDIES SL<br>UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK<br>STICHTING WAGENINGEN RESEARCH<br>ZAVOD ISKRIVA, ISKRISCE ZA RAZVOJ LOKALNIH POTENCIALOV<br>MAGYAR FOLDTANI ES GEOFIZIKAI INTEZET<br>MAGYAR BANYASZATI ES FOLDTANI SZOLGALAT<br>UNIVERSITATEA DIN BUCURESTI<br>GEOLOSKI ZAVOD SLOVENIJE<br>FUNDACAO DA FACULDADE DE CIENCIAS DA UNIVERSIDADE DE LISBOA FP<br>ZAVOD ZA PROSTORNO UREDENJE KOPRIVNICKO-KRIZEVACKE ZUPANIJE<br>STATNY GEOLOGICKY USTAV DIONYZA STURA<br>LULEA TEKNiska UNIVERSitet<br>DRUSTVO TEHNICHNIH VODIJI - POVRsINSKO ODKOPAVANJE<br>INSTITUTUL GEOLOGIC AL ROMANIEI<br>UNIVERSITY OF BELGRADE - FACULTY OF MINING AND GEOLOGY<br>MINERAL AND RESOURCE PLANNING ASSOCIATES LTD<br>REGIONE EMILIA ROMAGNA<br>GUENTER TIESS<br>FCIENCIAS.ID - ASSOCIACAO PARA A INVESTIGACAO E DESENVOLVIMENTO<br>DE CIENCIAS |                 |            |
|   |   | <b>BUDGET</b>  | € 2 092 687,50  |            |
|   |  | <b>ACRONYM</b>   | MINLAND         |            |
| <b>G.A. ID</b>  |   | 776679   |                 |            |
| <b>CORDIS LINK</b>  |   | <a href="https://cordis.europa.eu/project/rcn/216083/factsheet/en">https://cordis.europa.eu/project/rcn/216083/factsheet/en</a>  |                 |            |
| <b>WEBSITE</b>  |   | <a href="https://minland.eu/">https://minland.eu/</a>  |                 |            |
| <b>STARTING DATE</b>  |   | 2017/12/01   | <b>END DATE</b> | 2019/11/30 |
| <b>COORDINATOR</b>  |   | <b>ENTITY:</b> SVERIGES GEOLOGISKA UNDERSOKNING  |                 |            |
|   |   | <b>CONTACT:</b> Ronald Arvidsson ( <a href="mailto:ronald.arvidsson@sgu.se">ronald.arvidsson@sgu.se</a> )  |                 |            |
| <b>PARTNERS</b>   |   | NORGES GEOLOGISKE UNDERSOKELSE<br>MONTANUNIVERSITAET LEOBEN<br>NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA<br>WIRTSCHAFTSUNIVERSITAT WIEN<br>GEOLOGIAN TUTKIMUSKESKUS<br>MINPOL GMBH<br>COMMUNICATIONS, CLIMATE ACTION AND ENVIRONMENT<br>FEDERATION EUROPÉENNE DES GEOLOGUES<br>FEDERATION EUROPÉENNE DES GEOLOGUES<br>NEDERLANDSE ORGANISATIE VOOR TOEGEPAST<br>NATUURWETENSCHAPPELIJK ONDERZOEK TNO<br>INSTYTUT GOSPODARKI SUROWCAMI MINERALNYMI I ENERGIA PAN<br>STICHTING WAGENINGEN RESEARCH<br>DIRECAO-GERAL DE ENERGIA E GEOLOGIA<br>INSTITUTO GEOLÓGICO Y MINERO DE ESPAÑA<br>LANSSTYRELSEN I VASTERBOTTEN LAN<br>BOLIDEN MINERAL AB<br>INDUSTRIAL MINERALS ASSOCIATION EUROPE   |                 |            |

|  |        |  |
|--|--------|--|
|  |        | Laboratorio Nacional de Energia e Geologia I.P.<br>EuroGeoSurveys - EGS<br>REGIONE EMILIA ROMAGNA<br>INSTITUTO GEOLOGIKON KAI METALLEFTIKON EREVNON<br>MACCABE DURNEY BARNES LTD |
|  | BUDGET | € 1 498 691,25   |

**TABLE 14- Comprehensive information of projects linked to TARANTULA (Project category: Raw materials processing)**

|   |               |  |          |            |
|---|---------------|--|----------|------------|
|    | ACRONYM       | Blue Nodules   |          |            |
|   | G.A. ID       | 688975   |          |            |
|   | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/199883/factsheet/en">https://cordis.europa.eu/project/rcn/199883/factsheet/en</a>  |          |            |
|   | WEBSITE       | <a href="https://blue-nodules.eu/">https://blue-nodules.eu/</a>  |          |            |
|   | STARTING DATE | 2016/02/01   | END DATE | 2020/07/31 |
|   | COORDINATOR   | <b>ENTITY:</b> IHC MINING BV<br><b>CONTACT:</b> Laurens de Jonge ( <a href="mailto:lj.dejonge@royalihc.com">lj.dejonge@royalihc.com</a> )  |          |            |
|   | PARTNERS      | DREDGING INTERNATIONAL NV<br>CONTITECH RUBBER INDUSTRIAL KORLATOLT FELELOSSEGU TARSASAG<br>DE REGT MARINE CABLES BV<br>UNIRESEARCH BV<br>SEASCAPE CONSULTANTS LTD<br>GLOBAL SEA MINERAL RESOURCES<br>BUREAU VERITAS - REGISTRE INTERNATIONAL DE CLASSIFICATION DE NAVIRES ET D'AERONEFS<br>STICHTING NIOZ<br>KONINKLIJK NEDERLANDS INSTITUUT VOOR ONDERZOEK DER ZEE<br>STICHTING NEDERLANDSE WETENSCHAPPELIJK ONDERZOEK INSTITUTEN<br>RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN<br>NORGE'S TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU<br>AARHUS UNIVERSITET<br>UNIVERSITAT POLITECNICA DE CATALUNYA<br>BUREAU VERITAS MARINE & OFFSHORE REGISTRE INTERNATIONAL DE CLASSIFICATION DE NAVIRES ET DE PLATEFORMES OFFSHORE. |          |            |
|   | BUDGET        | € 7 991 137,50   |          |            |
|   | ACRONYM       | METGROW PLUS   |          |            |
|   | G.A. ID       | 690088   |          |            |
|  | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/199025/factsheet/en">https://cordis.europa.eu/project/rcn/199025/factsheet/en</a>  |          |            |
|   | WEBSITE       | <a href="https://metgrowplus.eu/">https://metgrowplus.eu/</a>  |          |            |
|   | STARTING DATE | 2016/02/01   | END DATE | 2020/01/31 |
|   | COORDINATOR   | <b>ENTITY:</b> Teknologian tutkimuskeskus VTT Oy<br><b>CONTACT:</b> Päivi Kinnunen ( <a href="mailto:päivi.kinnunen@vtt.fi">päivi.kinnunen@vtt.fi</a> )  |          |            |
|   | PARTNERS      | ARCHE, OPTIMIZACION ORIENTADA A LA SOSTENIBILIDAD SL<br>IDP INGENIERIA Y ARQUITECTURA IBERIA SL<br>SIEC BADAWCZA LUKASIEWICZ - INSTYTUT METALI NIEZELAZNYCH<br>KATHOLIEKE UNIVERSITEIT LEUVEN<br>JM RECYCLING NV<br>OUTOTEC (FINLAND) OY<br>RISE RESEARCH INSTITUTES OF SWEDEN AB<br>FUNDACION TECNALIA RESEARCH & INNOVATION<br>POLYTECHNEIO KRITIS<br>UNIVERSITEIT GENT<br>VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.<br>HELLENIC COPPER MINES LTD<br>URBASER S.A.<br>PROFIMA SPOLKA Z OGRODNICZONA ODPOWIEDZIALNOSCIA<br>UMICORE<br>RINA CONSULTING SPA<br>KERNEOS  |          |            |

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|   | <b>BUDGET</b>   | € 7 911 462,50  |                 |            |
|    | <b>ACRONYM</b>  | IMPaCT  |                 |            |
|   | <b>G.A. ID</b>  | 730411  |                 |            |
|   | <b>CORDIS LINK</b>  | <a href="https://cordis.europa.eu/project/rcn/206222/factsheet/en">https://cordis.europa.eu/project/rcn/206222/factsheet/en</a>   |                 |            |
|   | <b>WEBSITE</b>  | <a href="http://www.impactmine.eu/">http://www.impactmine.eu/</a>   |                 |            |
|   | <b>STARTING DATE</b>  | 2016/12/01  | <b>END DATE</b> | 2020/05/31 |
|   | <b>COORDINATOR</b>  | <b>ENTITY:</b> THE UNIVERSITY OF EXETER<br><b>CONTACT:</b> Kate Moore ( <a href="mailto:K.Moore@exeter.ac.uk">K.Moore@exeter.ac.uk</a> )  |                 |            |
|   | <b>PARTNERS</b>   | BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>MINECO LIMITED<br>RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN<br>IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE<br>EXTRACTHIVE<br>GLOBAL ECOPROCESS SERVICES OY<br>CYMRU COAL LIMITED<br>RADOS INTERNATIONAL SERVICES LTD<br>ITA-SUOMEN YLIOPISTO.                          |                 |            |
|   | <b>BUDGET</b>   | € 6 991 820   |                 |            |
|   |  | <b>ACRONYM</b>  | SLIM            |            |
|   |   | <b>G.A. ID</b>  | 730294          |            |
| <b>CORDIS LINK</b>  |   | <a href="https://cordis.europa.eu/project/rcn/206220/factsheet/en">https://cordis.europa.eu/project/rcn/206220/factsheet/en</a>   |                 |            |
| <b>WEBSITE</b>  |   | <a href="https://www.slim-project.eu/">https://www.slim-project.eu/</a>   |                 |            |
| <b>STARTING DATE</b>  |   | 2016/11/01  | <b>END DATE</b> | 2020/10/31 |
| <b>COORDINATOR</b>  |   | <b>ENTITY:</b> UNIVERSIDAD POLITECNICA DE MADRID<br><b>CONTACT:</b> Pablo Segarra ( <a href="mailto:pablo.segarra@upm.es">pablo.segarra@upm.es</a> )  |                 |            |
| <b>PARTNERS</b>   |   | 3GSM GmbH<br>BENITO ARNO E HIJOS SA<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>VA ERZBERG GMBH<br>INVESTORNET-GATE2GROWTH APS<br>LULEA TEKNiska UNIVERSITET<br>MAXAMCORP INTERNATIONAL SL<br>MINPOL GMBH<br>MONTANUNIVERSITAT LEOBEN<br>MINERA DE ORGIVA SL<br>TECHNISCHE UNIVERSITAET GRAZ<br>ZABALA INNOVATION CONSULTING, S.A. |                 |            |
| <b>BUDGET</b>   |   | € 6 979 200   |                 |            |
| <b>ROCS</b><br>(no logo)  |   | <b>ACRONYM</b>  | ROCS            |            |
|   |   | <b>G.A. ID</b>  | 867161          |            |
|   | <b>CORDIS LINK</b>  | <a href="https://cordis.europa.eu/project/rcn/223050/factsheet/en">https://cordis.europa.eu/project/rcn/223050/factsheet/en</a>   |                 |            |
|   | <b>WEBSITE</b>  | <a href="https://www.spectralindustries.com/">https://www.spectralindustries.com/</a>   |                 |            |
|   | <b>STARTING DATE</b>  | 2019/05/01  | <b>END DATE</b> | 2019/08/31 |
|   | <b>COORDINATOR</b>  | <b>ENTITY:</b> SPECTRAL INDUSTRIES BV<br><b>CONTACT:</b> Ad Maas ( <a href="mailto:a.maas@spectralindustries.com">a.maas@spectralindustries.com</a> )   |                 |            |
|   | <b>BUDGET</b>   | Overall budget: € 71 429 / EU contribution: € 50 000  |                 |            |
|  | <b>ACRONYM</b>  | METALINTELLIGENCE   |                 |            |
|   | <b>G.A. ID</b>  | 722677  |                 |            |
|   | <b>CORDIS LINK</b>  | <a href="https://cordis.europa.eu/project/rcn/205611/factsheet/en">https://cordis.europa.eu/project/rcn/205611/factsheet/en</a>   |                 |            |
|   | <b>WEBSITE</b>  | <a href="http://metalintelligence.eu">http://metalintelligence.eu</a>   |                 |            |
|   | <b>STARTING DATE</b>  | 2016/09/01  | <b>END DATE</b> | 2020/08/31 |
|   | <b>COORDINATOR</b>  | <b>ENTITY:</b> THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN<br><b>CONTACT:</b> Balz Kamber ( <a href="mailto:balz.kamber@gut.edu.au">balz.kamber@gut.edu.au</a> )   |                 |            |
|   | <b>PARTNERS</b>   | LULEA TEKNiska UNIVERSITET<br>OUTOTEC OYJ<br>OUTOTEC (FINLAND) OY<br>IMA ENGINEERING LTD OY   |                 |            |
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|   |   | OXFORD INSTRUMENTS NANOTECHNOLOGY TOOLS LIMITED<br>TECK IRELAND<br>AGNICO-EAGLE FINLAND OY   |
|   | <b>BUDGET</b>   | € 1 596 958,56   |
|    | <b>ACRONYM</b>  | AlSiCal  |
|   | <b>G.A. ID</b>  | 820911   |
|   | <b>CORDIS LINK</b>  | <a href="https://cordis.europa.eu/project/rcn/223243/factsheet/en">https://cordis.europa.eu/project/rcn/223243/factsheet/en</a>  |
|   | <b>WEBSITE</b>  | -  |
|   | <b>STARTING DATE</b>  | 2019/09/01   |
|   |   | <b>END DATE</b>  |
|   |   | 2023/08/31   |
|   | <b>COORDINATOR</b>  | <b>ENTITY:</b> INSTITUTT FOR ENERGITEKNIKK<br><b>CONTACT:</b> Asunción Aranda ( <a href="mailto:suni.aranda@ife.no">suni.aranda@ife.no</a> )   |
|   | <b>PARTNERS</b>   | NORDIC MINING ASA<br>ADVANCED MINERALS AND RECYCLING INDUSTRIAL SOLUTIONS IKE<br>EUROPEAN ALUMINIUM ASSOCIATION AISBL<br>HEROYA INDUSTRIPARK AS<br>UNIVERSIDAD DE ZARAGOZA<br>AALBORG UNIVERSITET<br>MYTILINEOS ANONIMI ETAIRIA - OMILOS EPICHEIRISEON<br>NATIONAL TECHNICAL UNIVERSITY OF ATHENS – NTUA<br>ASOCIACION DE SERVICIOS DE GEOLOGIA Y MINERIA IBEROAMERICANOS<br>ASHER VITNER LTD<br>ELKEM AS<br>UNIVERSITY OF JOHANNESBURG<br>INSTITUT NATIONAL POLYTECHNIQUE DE TOULOUSE<br>PNO CONSULTANTS BV |
|   | <b>BUDGET</b>   | € 5 888 235  |
| <br>RESEARCH & INNOVATION PROGRAMME ON RAW MATERIALS<br>TO FOSTER CIRCULAR ECONOMY | <b>ACRONYM</b>  | MetRecycle   |
|   | <b>WEBSITE</b>  | -  |
|   | <b>STARTING DATE</b>  | 2018/05/01   |
|   |   | <b>END DATE</b>  |
|   |   | 2021/04/30   |
|   | <b>COORDINATOR</b>  | <b>ENTITY:</b> Institute for Environmental Protection and Sensors (IOS) Ltd<br><b>CONTACT:</b> <a href="mailto:info@ios.si">info@ios.si</a>  |
|   | <b>PARTNERS</b>   | SVERIGES LANTBRUKSUNIVERSITET<br>INSTITUTO DE NANOSISTEMAS<br>CNRs<br>SIKEMIA  |
|   | <b>BUDGET</b>   | Total cost: € 784 700 / Total requested funding: € 651 000.  |
|   | <b>ACRONYM</b>  | INSTAnt  |
|   | <b>WEBSITE</b>  | -  |
| <br>RESEARCH & INNOVATION PROGRAMME ON RAW MATERIALS<br>TO FOSTER CIRCULAR ECONOMY | <b>STARTING DATE</b>  | 2018/02/01   |
|   |   | <b>END DATE</b>  |
|   |   | 2021/01/31   |
|   | <b>COORDINATOR</b>  | <b>ENTITY:</b> Vlaamse Instelling voor Technologisch Onderzoek<br><b>CONTACT:</b> <a href="mailto:info@vito.be">info@vito.be</a>   |
|   | <b>PARTNERS</b>   | RWTH AACHEN UNIVERSITY<br>SUEZ TREATMENT AND RECYCLING NV<br>TOMRA SORTING GMBH<br>XRE NV  |
|   | <b>BUDGET</b>   | Total cost: € 1 137 781 / Total requested funding: € 871 317.  |
|   | <b>ACRONYM</b>  | RecEOL   |
|   | <b>WEBSITE</b>  | -  |
|   | <b>STARTING DATE</b>  | 2018/05/01   |
|   |   | <b>END DATE</b>  |
| <br>RESEARCH & INNOVATION PROGRAMME ON RAW MATERIALS<br>TO FOSTER CIRCULAR ECONOMY |   | 2021/04/30   |
|   | <b>COORDINATOR</b>  | <b>ENTITY:</b> University College Cork / Environmental Research Institute<br><b>CONTACT:</b> <a href="mailto:eri@ucc.ie">eri@ucc.ie</a>  |
|   | <b>PARTNERS</b>   | COMPOSITE RECYCLING LTD (CRL)<br>COOLREC BV (COR)<br>TECHNISCHE UNIVERSITÄT BERGAKADEMIE FREIBERG (TUF)<br>ALUMISEL (ALU)<br>MULDENHÜTTEN RECYCLING UND UMWELTTECHNIK GMBH (MRU)   |
|   | <b>BUDGET</b>   | Total cost: € 1 299 163 / Total requested funding: € 902 943.  |
|   | <b>ACRONYM</b>  | INTMET   |
|   | <b>G.A. ID</b>  | 689515   |
|   | <b>CORDIS LINK</b>  | <a href="https://cordis.europa.eu/project/rcn/199895/factsheet/en">https://cordis.europa.eu/project/rcn/199895/factsheet/en</a>  |
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|  | <b>WEBSITE</b>       | <a href="https://www.intmet.eu/">https://www.intmet.eu/</a>   |                 |            |
|   | <b>STARTING DATE</b> | 2016/02/01  | <b>END DATE</b> | 2019/01/31 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> COBRE LAS CRUCES SA  |                 |            |
|   |                      | <b>CONTACT:</b> Carlos Frías ( <a href="mailto:carlos.frias@fqml.com">carlos.frias@fqml.com</a> )   |                 |            |
|   | <b>PARTNERS</b>      | KGHM POLSKA MIEDZ SA<br>SOMINCOR - SOCIEDADE MINEIRA DE NEVES-CORVO SA<br>OUTOTEC (FINLAND) OY<br>TECNICAS REUNIDAS SA<br>SIEC BADAWCZA LUKASIEWICZ - INSTYTUT METALI NIEZELAZNYCH<br>MINTEK<br>MINING AND METALLURGY INSTITUTE BOR LTD<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>AGQ MINING & BIOENERGY SL<br>INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU METALE NEFEROASE SIRARE-IMNR<br>MINPOL GMBH  |                 |            |
|   |                      | <b>BUDGET</b>   |                 |            |
|   |                      | € 7 834 976,25  |                 |            |
|   |                      | <b>ACRONYM</b>  |                 |            |
|   |                      | BioMORE   |                 |            |
|   |                      | <b>G.A. ID</b>  |                 |            |
|   |                      | 642456  |                 |            |
|  | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/193917/factsheet/en">https://cordis.europa.eu/project/rcn/193917/factsheet/en</a>   |                 |            |
|   | <b>WEBSITE</b>       | <a href="https://www.biomore.info">https://www.biomore.info</a>   |                 |            |
|   | <b>STARTING DATE</b> | 2015/02/01  | <b>END DATE</b> | 2018/07/31 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> KGHM POLSKA MIEDZ SA   |                 |            |
|   |                      | <b>CONTACT:</b> <a href="mailto:Katarzyna.Rogoz@kgm.com">Katarzyna.Rogoz@kgm.com</a>  |                 |            |
|   | <b>PARTNERS</b>      | MINERAL INDUSTRY RESEARCH ORGANISATION<br>AKADEMIA GORNICZO-HUTNICZA IM. STANISLAWA STASZICA W KRAKOWIE<br>BANGOR UNIVERSITY<br>BUNDESANSTALT FUER GEOWISSENSCHAFTEN UND ROHSTOFFE<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>COBRE LAS CRUCES SA<br>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS<br>DMT GmbH & CO. KG<br>G.E.O.S.INGENIEURGESELLSCHAFT MBH<br>GEOLOGIAN TUTKIMUSKESKUS<br>HATCH ASSOCIATES LIMITED<br>HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV<br>SIEC BADAWCZA LUKASIEWICZ - INSTYTUT METALI NIEZELAZNYCH<br>KEMAKTA KONSULT AB<br>KGHM CUPRUM SPZOO ODPOWIEDZIALNOSCIA - CENTRUM BADAWCZO-ROZWOJOWE<br>KGHM KUPFER AG<br>MINTEK<br>TECHNISCHE UNIVERSITAET BERGAKADEMIE FREIBERG<br>TTY-SAATIO<br>TAMPEREEN KORKEAKOULUSAATIO SR<br>UMWELT- UND INGENIEURTECHNIK GMBH DRESDEN<br>TEKNOLOGIAN TUTKIMUSKESKUS VTT<br>Teknologian tutkimuskeskus VTT Oy<br>G.U.B. INGENIEUR AG<br>MINPOL GMBH |                 |            |
|   |                      | <b>BUDGET</b>   |                 |            |
|   |                      | € 8 564 961,75  |                 |            |
|   | <b>ACRONYM</b>       | VAMOS   |                 |            |
|   | <b>G.A. ID</b>       | 642477  |                 |            |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/193919/factsheet/en">https://cordis.europa.eu/project/rcn/193919/factsheet/en</a>   |                 |            |
|   | <b>WEBSITE</b>       | <a href="http://vamos-project.eu/">http://vamos-project.eu/</a>   |                 |            |
|   | <b>STARTING DATE</b> | 2015/02/01  | <b>END DATE</b> | 2019/01/31 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> BMT GROUP LTD  |                 |            |
|   |                      | <b>CONTACT:</b> <a href="mailto:john.pidgeon@bmtwbm.com.au">john.pidgeon@bmtwbm.com.au</a>  |                 |            |
|   | <b>PARTNERS</b>      | SOIL MACHINE DYNAMICS LIMITED<br>DAMEN DREDGING EQUIPMENT BV  |                 |            |

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|                 |                      | INESC TEC - INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES,<br>TECNOLOGIA E CIENCIA<br>FUGRO EMU LIMITED<br>Zentrum fuer Telematik e.V.<br>MONTANUNIVERSITAET LEOBEN<br>MINERALIA-MINAS, GEOTECNIA E CONSTRUCOES LDA<br>MARINE MINERALS LIMITED<br>EMPRESA DE DESENVOLVIMENTO MINEIRO<br>SANDVIK MINING AND CONSTRUCTION GMBH<br>GEOLOSKI ZAVOD SLOVENIJE<br>LA PALMA RESEARCH CENTRE FOR FUTURE STUDIES SL<br>FEDERATION EUROPEENNE DES GEOLOGUES<br>FEDERATION EUROPEENNE DES GEOLOGUES<br>TRELLEBORG EDE B.V.<br>FEDERALNI ZAVOD ZA GEOLOGIJU SARAJEVO<br>FONDACIJA ZA OBNOVU I RAZVOJ REGIJE VARES<br>TRELLEBORG RIDDERKERK BV<br>FUGRO GB MARINE LIMITED    |
|                 |                      | <b>BUDGET</b> € 9 200 000  |
| <b>OptimOre</b> | <b>ACRONYM</b>       | OptimOre   |
|                 | <b>G.A. ID</b>       | 642201   |
|                 | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/193894/factsheet/en">https://cordis.europa.eu/project/rcn/193894/factsheet/en</a>  |
|                 | <b>WEBSITE</b>       | <a href="https://www.optim-ore.eu/">https://www.optim-ore.eu/</a>  |
|                 | <b>STARTING DATE</b> | 2014/12/01   |
|                 |                      | <b>END DATE</b> 2018/02/28   |
|                 | <b>COORDINATOR</b>   | <b>ENTITY:</b> UNIVERSITAT POLITECNICA DE CATALUNYA<br><b>CONTACT:</b> Josep Oliva Moncunill ( <a href="mailto:josep@emrn.upc.edu">josep@emrn.upc.edu</a> )  |
|                 | <b>PARTNERS</b>      | CHALMERS TEKNiska HOEGSKOLA AB<br>THE UNIVERSITY OF EXETER<br>UNIVERSIDAD DE OVIEDO<br>TECHNISCHE UNIVERSITAET BERGAKADEMIE FREIBERG<br>INTERKONSULT LTD<br>EDMA INNOVA SL<br>HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV  |
|                 | <b>BUDGET</b>        | € 5 084 468,75   |
|                 |                      |  |
| <b>FAME</b>     | <b>ACRONYM</b>       | FAME   |
|                 | <b>G.A. ID</b>       | 641650   |
|                 | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/193843/factsheet/en">https://cordis.europa.eu/project/rcn/193843/factsheet/en</a>  |
|                 | <b>WEBSITE</b>       | <a href="http://www.fame-project.info/">http://www.fame-project.info/</a>  |
|                 | <b>STARTING DATE</b> | 2015/01/01   |
|                 |                      | <b>END DATE</b> 2018/12/31   |
|                 | <b>COORDINATOR</b>   | <b>ENTITY:</b> WARDELL ARMSTRONG LLP<br><b>CONTACT:</b> Chris Broadbent ( <a href="mailto:cbroadbent@wardell-armstrong.com">cbroadbent@wardell-armstrong.com</a> )   |
|                 | <b>PARTNERS</b>      | GEOKOMPETENZZENTRUM FREIBERG EV<br>G.E.O.S.INGENIEURGESELLSCHAFT MBH<br>NICKELHUTTE AUE GMBH<br>EUROCOLT RESOURCES UNIPESSOAL LDA<br>GEOMET SRO<br>Keliber Oy<br>GBM MINERALS ENGINEERING CONSULTANTS LIMITED<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>GEOLOGIAN TUTKIMUSKESKUS<br>Laboratorio Nacional de Energia e Geologia I.P.<br>THE UNIVERSITY OF EXETER<br>NATURAL HISTORY MUSEUM<br>UNIVERSITE DE LORRAINE<br>UNIVERSIDADE DO PORTO<br>LULEA TEKNiska UNIVERSITET<br>Asociación para la Investigación y Desarrollo Industrial de los Recursos Naturales<br>SAXORE BERGBAU GMBH<br>UVR-FIA VERFAHRENSENTWICKLUNG UMWELTSCHUTZTECHNIK-RECYCLING GMBH |
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|  | <b>BUDGET</b>  | € 7 458 064   |                 |            |
| <br><b>19</b> | <b>ACRONYM</b>   | AluSalt   |                 |            |
|  | <b>G.A. ID</b>   | 674683  |                 |            |
|  | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/198493/factsheet/en">https://cordis.europa.eu/project/rcn/198493/factsheet/en</a>   |                 |            |
|  | <b>WEBSITE</b>   | <a href="http://www.alusalt.eu/">http://www.alusalt.eu/</a>   |                 |            |
|  | <b>STARTING DATE</b>   | 2015/09/01  | <b>END DATE</b> | 2017/10/31 |
|  | <b>COORDINATOR</b>   | <b>ENTITY:</b> ALTEK EUROPE LIMITED   |                 |            |
|  |  | <b>CONTACT:</b> Alan Peel ( <a href="mailto:AlanPeel@altek-al.com">AlanPeel@altek-al.com</a> )  |                 |            |
|  | <b>BUDGET</b>  | Overall budget: € 3 509 357,43 / EU contribution: € 2 456 550   |                 |            |
|               | <b>ACRONYM</b>   | MetLeach  |                 |            |
|  | <b>G.A. ID</b>   | 782070  |                 |            |
|  | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/211256/factsheet/en">https://cordis.europa.eu/project/rcn/211256/factsheet/en</a>   |                 |            |
|  | <b>WEBSITE</b>   | <a href="http://biotatec.com/en">http://biotatec.com/en</a>   |                 |            |
|  | <b>STARTING DATE</b>   | 2017/08/01  | <b>END DATE</b> | 2018/01/31 |
|  | <b>COORDINATOR</b>   | <b>ENTITY:</b> BIOTATEC OU  |                 |            |
|  |  | <b>CONTACT:</b> Sirli Sipp Kulli ( <a href="mailto:sirli@biotatec.com">sirli@biotatec.com</a> )   |                 |            |
|  | <b>BUDGET</b>  | Overall budget: € 71 429 / EU contribution: € 50 000  |                 |            |
|             | <b>ACRONYM</b>   | Real-time-Mining  |                 |            |
|  | <b>G.A. ID</b>   | 641989  |                 |            |
|  | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/193870/factsheet/en">https://cordis.europa.eu/project/rcn/193870/factsheet/en</a>   |                 |            |
|  | <b>WEBSITE</b>   | <a href="http://www.realtime-mining.eu/">http://www.realtime-mining.eu/</a>   |                 |            |
|  | <b>STARTING DATE</b>   | 2015/04/01  | <b>END DATE</b> | 2019/03/31 |
|  | <b>COORDINATOR</b>   | <b>ENTITY:</b> TECHNISCHE UNIVERSITEIT DELFT  |                 |            |
|  |  | <b>CONTACT:</b> Mike Buxton ( <a href="mailto:M.W.N.Buxton@TUDelft.nl">M.W.N.Buxton@TUDelft.nl</a> )  |                 |            |
|  | <b>PARTNERS</b>  | RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN<br>IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE<br>ASSOCIAÇÃO DO INSTITUTO SUPERIOR TECNICO PARA A INVESTIGACAO E<br>DESENVOLVIMENTO<br>NEDERLANDSE ORGANISATIE VOOR TOEGEPAST<br>NATUURWETENSCHAPPELIJK ONDERZOEK TNO<br>GEOVARIANCES SA<br>DASSAULT SYSTEMES GEOVIA LTD<br>LSA-LASER ANALYTICAL SYSTEMS & AUTOMATION GMBH<br>XGRAPHIC INGENIERGESELLSCHAFT MBH<br>EIJKELKAMP SONICSAMPDRILL BV<br>TECHNISCHE UNIVERSITAET BERGAKADEMIE FREIBERG<br>SPECTRAL INDUSTRIES BV<br>INGENIEURPARTNERSCHAFT FUR BERGBAU WASSER UND DEPONIETECHNIK<br>WILSNACK & PARTNER |                 |            |
|  |  |   |                 |            |
|  |  |   |                 |            |
|  |  |   |                 |            |
|  |  |   |                 |            |
|  |  |   |                 |            |
|  |  | <b>BUDGET</b>   |                 |            |
|  | Overall budget: € 6 566 702,50 / EU contribution: € 5 629 199,75 |   |                 |            |
|             | <b>ACRONYM</b>   | REWO-SORT   |                 |            |
|  | <b>WEBSITE</b>   | -   |                 |            |
|  | <b>STARTING DATE</b>   | 2018/05/01  | <b>END DATE</b> | 2021/04/30 |
|  | <b>COORDINATOR</b>   | <b>ENTITY:</b> Fraunhofer Gesellschaft  |                 |            |
|  |  | <b>CONTACT:</b> Markus Firsching ( <a href="mailto:markus.firsching@iis.fraunhofer.de">markus.firsching@iis.fraunhofer.de</a> )   |                 |            |
|  | <b>PARTNERS</b>  | LULEÅ UNIVERSITY OF TECHNOLOGY<br>SECOPTA ANALYTICS GMBH<br>UNIVERSITY OF CHILE   |                 |            |
|  |  | <b>BUDGET</b>   |                 |            |
|  | Total cost: € 714 840 / Total requested funding: € 608 340.      |   |                 |            |
|             | <b>ACRONYM</b>   | SecREEts  |                 |            |
|  | <b>G.A. ID</b>   | 776559  |                 |            |
|  | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/216075/factsheet/en">https://cordis.europa.eu/project/rcn/216075/factsheet/en</a>   |                 |            |
|  | <b>WEBSITE</b>   | <a href="https://www.sintef.no/projectweb/secreets">https://www.sintef.no/projectweb/secreets</a>   |                 |            |
|  | <b>STARTING DATE</b>   | 2018/05/01  | <b>END DATE</b> | 2022/05/31 |
|  | <b>COORDINATOR</b>   | <b>ENTITY:</b> SINTEF AS  |                 |            |
|  |  | <b>CONTACT:</b> Arne Petter Ratvik ( <a href="mailto:Arne.P.Ratvik@sintef.no">Arne.P.Ratvik@sintef.no</a> )   |                 |            |
|  | <b>PARTNERS</b>  | YARA INTERNATIONAL ASA<br>LESS COMMON METALS LIMITED<br>REETEC AS   |                 |            |

|                          |                      |  |
|--------------------------|----------------------|--|
|                          |                      | QUANTIS<br>VACUUMSCHMELZE GMBH & CO KG<br>PROSPEX INSTITUTE<br>INSTITUT NATIONAL DE L'ENVIRONNEMENT ET DES RISQUES (INERIS)  |
|                          | <b>BUDGET</b>        | Overall budget: € 17 224 132,31 // EU contribution: € 12 880 031,87  |
| MINERAL EYE<br>(no logo) | <b>ACRONYM</b>       | MINERAL EYE  |
|                          | <b>G.A. ID</b>       | 673303   |
|                          | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/196996/factsheet/en">https://cordis.europa.eu/project/rcn/196996/factsheet/en</a>  |
|                          | <b>WEBSITE</b>       | <a href="https://www.timegate.com/">https://www.timegate.com/</a>  |
|                          | <b>STARTING DATE</b> | 2015/06/01 <b>END DATE</b> 2015/11/30  |
|                          | <b>COORDINATOR</b>   | <b>ENTITY:</b> TIMEGATE INSTRUMENTS OY<br><b>CONTACT:</b> Bryan Heilala ( <a href="mailto:bryan.heilala@timegate.com">bryan.heilala@timegate.com</a> )   |
|                          | <b>BUDGET</b>        | Overall budget: € 71 429 / EU contribution: € 50 000   |
| 2D3DSCOPY<br>(no logo)   | <b>ACRONYM</b>       | 2D3Dscopy  |
|                          | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/2d3dsscopy/">https://eitrawmaterials.eu/project/2d3dsscopy/</a>  |
|                          | <b>STARTING DATE</b> | 2019/01/01 <b>END DATE</b> 2022/12/31  |
|                          | <b>COORDINATOR</b>   | <b>ENTITY:</b> Helmholtz-Zentrum Dresden-Rossendorf e.V. (HZDR)<br><b>CONTACT:</b> Petya Atanasova ( <a href="mailto:p.atanasova@hzdr.de">p.atanasova@hzdr.de</a> )                              |
|                          | <b>PARTNERS</b>      | Ghent University<br>Outotec Oy<br>TESCAN XRE NV  |
| MICRO-EC<br>(no logo)    | <b>ACRONYM</b>       | Micro-EC   |
|                          | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/micro-ec/">https://eitrawmaterials.eu/project/micro-ec/</a>  |
|                          | <b>STARTING DATE</b> | 2019/05/10 <b>END DATE</b> 2019/12/31  |
|                          | <b>COORDINATOR</b>   | <b>ENTITY:</b> Sandvik SRP AB<br><b>CONTACT:</b> Pekka Nieminen ( <a href="mailto:pekka.nieminen@sandvik.com">pekka.nieminen@sandvik.com</a> )   |
|                          | <b>PARTNERS</b>      | McGill University<br>University of British Columbia  |
| NEWECO<br>(no logo)      | <b>ACRONYM</b>       | NewEco   |
|                          | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/neweco/">https://eitrawmaterials.eu/project/neweco/</a>  |
|                          | <b>STARTING DATE</b> | 2016 <b>END DATE</b> 2018  |
|                          | <b>COORDINATOR</b>   | <b>ENTITY:</b> ERAMET Research<br><b>CONTACT:</b> <a href="mailto:ir@erametgroup.com">ir@erametgroup.com</a>   |
|                          | <b>PARTNERS</b>      | Aalto-Korkeakoulusaatio (Aalto University)<br>Boliden Harjavalta Oy<br>ERAMET<br>Université de Liège   |
| ROSTAR<br>(no logo)      | <b>ACRONYM</b>       | RoStar   |
|                          | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/rostar/">https://eitrawmaterials.eu/project/rostar/</a>  |
|                          | <b>STARTING DATE</b> | 2016/04/01 <b>END DATE</b> 2018/12/31  |
|                          | <b>COORDINATOR</b>   | <b>ENTITY:</b> Technische Universität Bergakademie Freiberg (TUBAF)<br><b>CONTACT:</b> Maike Baudauch ( <a href="mailto:Maike.Baudach@zuv.tu-freiberg.de">Maike.Baudach@zuv.tu-freiberg.de</a> ) |
|                          | <b>PARTNERS</b>      | Agencia Estatal Consejo Superior de Investigaciones Científicas, CSIC<br>Assarel Medet<br>CEMTEC<br>Maelgwyn Mineral Services Limited<br>Sandvik AB<br>Sandvik SRP AB<br>Université de Liège     |
| THERMOSPRAY<br>(no logo) | <b>ACRONYM</b>       | ThermoSpray  |
|                          | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/thermospray/">https://eitrawmaterials.eu/project/thermospray/</a>  |
|                          | <b>STARTING DATE</b> | 2019/01/01 <b>END DATE</b> 2020/09/30  |
|                          | <b>COORDINATOR</b>   | <b>ENTITY:</b> H.C. Starck Tantalum and Niobium GmbH<br><b>CONTACT:</b> Silvana Fehling ( <a href="mailto:silvana.fehling@hcstarck.com">silvana.fehling@hcstarck.com</a> )                       |
|                          | <b>PARTNERS</b>      | AGH University of Science and Technology<br>Clausthal University of Technology<br>H. C. Starck Smelting GmbH & Co. KG  |
|                          | <b>ACRONYM</b>       | BioLeach   |
|                          | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/bioleach/">https://eitrawmaterials.eu/project/bioleach/</a>  |

|   |                      |   |                 |            |
|---|----------------------|---|-----------------|------------|
|    | <b>WEBSITE</b>       | <a href="http://bioleach.website2.me/">http://bioleach.website2.me/</a>   |                 |            |
|   | <b>STARTING DATE</b> | 2019/04/01  | <b>END DATE</b> | 2022/03/31 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Technical University of Košice<br><b>CONTACT:</b> <a href="mailto:sekrd.berg@tuke.sk">sekrd.berg@tuke.sk</a>   |                 |            |
|   | <b>PARTNERS</b>      | ALMA MATER STUDIORUM – UNIVERSITÀ DI BOLOGNA<br>BAY ZOLTAN NONPROFIT LTD. FOR APPLIED RESEARCH<br>CAOBAR, S.A.<br>EKOLIVE S.R.O.<br>G.U.B. INGENIEUR AG<br>GOMEZ PARDO FOUNDATION<br>HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF E.V. (HZDR)<br>NAJPI A.A.<br>POLITECHNIKA WROCŁAWSKA<br>SIFUCEL – SÍLICAS, S.A.<br>TRINITY DUBLIN COLLEGE<br>UNIVERSIDAD POLITÉCNICA DE MADRID<br>UNIVERSIDADE NOVA DE LISBOA – FACULTY OF SCIENCES AND TECHNOLOGY (FCT NOVA)<br>UNIVERSITÀ DEGLI STUDI DI MILANO<br>ZEOCEM, A.S. |                 |            |
|  | <b>ACRONYM</b>       | INSPIRE   |                 |            |
|   | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/inspire/">https://eitrawmaterials.eu/project/inspire/</a>   |                 |            |
|  | <b>WEBSITE</b>       | <a href="https://inspire-eit.eu/">https://inspire-eit.eu/</a>   |                 |            |
|   | <b>STARTING DATE</b> | 2016/10/01  | <b>END DATE</b> | 2019/09/30 |
|  | <b>COORDINATOR</b>   | <b>ENTITY:</b> Katholieke Universiteit te Leuven (KU Leuven)<br><b>CONTACT:</b> Philippe Muchez ( <a href="mailto:philippe.muchez@kuleuven.be">philippe.muchez@kuleuven.be</a> )  |                 |            |
|   | <b>PARTNERS</b>      | ARKEMA<br>CONSIGLIO NAZIONALE DELLE RICERCHE (CNR, NATIONAL RESEARCH COUNCIL)<br>KUNGLIGA TEKNISKA HÖGSKOLAN, KTH (ROYAL INSTITUTE OF TECHNOLOGY)<br>LODZ UNIVERSITY OF TECHNOLOGY<br>MEAM BVBA<br>TECHNISCHE UNIVERSITEIT DELFT (DELFT UNIVERSITY OF TECHNOLOGY)<br>UNIVERSITY OF LIMERICK   |                 |            |
|  | <b>ACRONYM</b>       | MetNet  |                 |            |
|   | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/metnet/">https://eitrawmaterials.eu/project/metnet/</a>   |                 |            |
|  | <b>WEBSITE</b>       | <a href="http://metnet.eu/">http://metnet.eu/</a>   |                 |            |
|   | <b>STARTING DATE</b> | 2016/01/01  | <b>END DATE</b> | 2018/12/31 |
|  | <b>COORDINATOR</b>   | <b>ENTITY:</b> Swerea MEFOS AB<br><b>CONTACT:</b> Marianne Magnelöv ( <a href="mailto:marianne.magnelov@swerea.se">marianne.magnelov@swerea.se</a> )  |                 |            |
|   | <b>PARTNERS</b>      | CEA<br>Bureau de Recherches Géologiques et Minières (BRGM)<br>INSTITUTE OF NON-FERROUS METALS (IMN)<br>GEOLOGICAL SURVEY OF FINLAND (GTK)<br>ERAMET RESEARCH<br>CRM GROUP<br>ELKEM AS<br>EXTRACTHIVE<br>MATERIALS PROCESSING INSTITUTE (MPI)  |                 |            |
|  | <b>ACRONYM</b>       | PreFlex   |                 |            |
|   | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/preflex/">https://eitrawmaterials.eu/project/preflex/</a>   |                 |            |
|  | <b>WEBSITE</b>       | <a href="http://www.zerowastecluster.eu/partner-networks/preflex/">http://www.zerowastecluster.eu/partner-networks/preflex/</a>   |                 |            |
|   | <b>STARTING DATE</b> | 2016/01/01  | <b>END DATE</b> | 2018/12/31 |
|  | <b>COORDINATOR</b>   | <b>ENTITY:</b> Flemish Institute for Technological Research NV (VITO)<br><b>CONTACT:</b> Kris Broos ( <a href="mailto:kris.broos@vito.be">kris.broos@vito.be</a> )  |                 |            |
|   | <b>PARTNERS</b>      | AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS, CSIC<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES, BRGM<br>CENTRE DE RECHERCHES METALLURGIQUES ASBL (CRM GROUP)<br>HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF E.V. (HZDR)   |                 |            |

|  |  |   |
|--|--|---|
|  |  | OUTOTEC OY<br>RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN, RWTH AACHEN<br>TECHNISCHE UNIVERSITAET BERGAKADEMIE FREIBERG<br>UNIVERSITE DE LIEGE (UNIVERSITY OF LIEGE) |
|--|--|---|

**TABLE 15- Comprehensive information of projects linked to TARANTULA (Project category: Residues and tailings)**

|   |               |   |
|---|---------------|---|
|  <b>CHROMIC</b>    | ACRONYM       | CHROMIC   |
|   | G.A. ID       | 730471  |
|   | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/206225/factsheet/en">https://cordis.europa.eu/project/rcn/206225/factsheet/en</a>   |
|   | WEBSITE       | <a href="http://www.chromic.eu/">http://www.chromic.eu/</a>   |
|   | STARTING DATE | 2016/11/01  |
|   |               | END DATE  |
|   |               | 2020/10/31  |
|   | COORDINATOR   | <b>ENTITY:</b> VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.<br>(VITO)<br><b>CONTACT:</b> Liesbeth Horckmans ( <a href="mailto:Liesbeth.horckmans@vito.be">Liesbeth.horckmans@vito.be</a> )  |
|   | PARTNERS      | MICROWAVE ENERGY APPLICATIONS MANAGEMENT<br>ELEKTROWERK WEISWEILER GMBH<br>ORBIX PRODUCTIONS<br>FORMICABLU SRL<br>ARCHE<br>TECHNICKA UNIVERZITA V KOSICIACH<br>HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV<br>VDEH-BETRIEBSFORSCHUNGSIINSTITUT GMBH<br>INSTITUT FUR BAUSTOFF-FORSCHUNG EV<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES   |
|   | BUDGET        | € 4 869 687,50  |
|  <b>Platirus</b> | ACRONYM       | PLATIRUS  |
|   | G.A. ID       | 730224  |
|   | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/206334/factsheet/en">https://cordis.europa.eu/project/rcn/206334/factsheet/en</a>   |
|   | WEBSITE       | <a href="http://www.platirus.eu/">http://www.platirus.eu/</a>   |
|   | STARTING DATE | 2016/11/01  |
|   |               | END DATE  |
|   |               | 2020/10/31  |
|   | COORDINATOR   | <b>ENTITY:</b> FUNDACION TECNALIA RESEARCH & INNOVATION<br><b>CONTACT:</b> Amal Siriwardana ( <a href="mailto:Amal.Siriwardana@tecnalia.com">Amal.Siriwardana@tecnalia.com</a> )  |
|   | PARTNERS      | MONOLITHOS KATALITES KE ANAKIKLOSI ETAIREIA PERIORISMENIS EVTHINIS<br>KATHOLIEKE UNIVERSITEIT LEUVEN<br>TECHNISCHE UNIVERSITAET WIEN<br>VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.<br>STIFTELSEN SINTEF<br>CENTRO RICERCHE FIAT SCPA FORD OTOMOTIV SANAYI ANONIM SIRKETI<br>BOLIDEN HARJAVALTA OY<br>JOHNSON MATTHEY PLC<br>ENV-AQUA SOLUTIONS LTD<br>PNO INNOVATION<br>SINTEF AS |
|   | BUDGET        | € 6 994 210   |
|  <b>SCALE</b>    | ACRONYM       | SCALE   |
|   | G.A. ID       | 730105  |
|   | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/206331/factsheet/en">https://cordis.europa.eu/project/rcn/206331/factsheet/en</a>   |
|   | WEBSITE       | <a href="http://scale-project.eu/">http://scale-project.eu/</a>   |
|   | STARTING DATE | 2016/12/01  |
|   |               | END DATE  |
|   |               | 2020/11/30  |
|   | COORDINATOR   | <b>ENTITY:</b> MYTILINEOS ANONIMI ETAIRIA - OMILOS EPICHEIRISEON<br><b>CONTACT:</b> Stergios Delipaltas ( <a href="mailto:stergios.delipaltas@ahlellas.gr">stergios.delipaltas@ahlellas.gr</a> )  |
|   | PARTNERS      | II-VI GMBH<br>NATIONAL TECHNICAL UNIVERSITY OF ATHENS – NTUA<br>RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN<br>KUNGLIGA TEKNISKA HOEGSKOLAN<br>BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYESUM<br>BUNDESANSTALT FUER MATERIALFORSCHUNG UND -PRUEFUNG  |

|  |   |   |   |            |  |
|--|---|---|---|------------|--|
| <br><b>scale</b><br>SCANDIUM ALUMINIUM EUROPE | FACHHOCHSCHULE NORDWESTSCHWEIZ<br>FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.<br>MEAB CHEMIE TECHNIK GMBH<br>STIFTESN SINTEF<br>IOLITEC IONIC LIQUIDS TECHNOLOGIES GMBH<br>KBM MASTER ALLOYS BV<br>LESS COMMON METALS LIMITED<br>TRONOX PIGMENTS (HOLLAND) BV<br>ALUMINIUM OXID STADE<br>GESELLSCHAFTMIT BESCHRANKTER HAFTUNG<br>ITRB LTD<br>WAVESTONE LUXEMBOURG SA<br>SINTEF AS |   |   |            |  |
|  | <b>BUDGET</b><br>Overall budget: € 7 706 625 / EU contribution: € 7 000 000.  |   |   |            |  |
| <br><b>ITERAMS</b>                           | <b>ACRONYM</b>  | ITERAMS   |   |            |  |
|  | <b>G.A. ID</b>  | 730480  |   |            |  |
|  | <b>CORDIS LINK</b>  | <a href="https://cordis.europa.eu/project/rcn/210182/factsheet/en">https://cordis.europa.eu/project/rcn/210182/factsheet/en</a>   |   |            |  |
|  | <b>WEBSITE</b>  | <a href="http://www.iterams.eu/">http://www.iterams.eu/</a>   |   |            |  |
|  | <b>STARTING DATE</b>  | 2017/06/01  | <b>END DATE</b>   | 2020/05/31 |  |
|  | <b>COORDINATOR</b>  | <b>ENTITY:</b> Teknologian tutkimuskeskus VTT Oy<br><b>CONTACT:</b> Päivi Kinnunen ( <a href="mailto:päivi.kinnunen@vtt.fi">päivi.kinnunen@vtt.fi</a> )   |   |            |  |
|  |   |   |   |            |  |
|  | <br><b>CROCODILE</b>   | <b>PARTNERS</b>   | OUTOTEC OYJ<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>MONTANUNIVERSITAT LEOBEN<br>BOLIDEN KEVITSÄ MINING OY<br>HACETTEPE MINERAL TECHNOLOGIES LTD<br>OULUN YLIOPISTO<br>GREENDELTA GMBH<br>IMA ENGINEERING LTD OY<br>ANGLO AMERICAN PLC<br>AALTO KORKEAKOULUSAATIO SR<br>UNIVERSITY OF CAPE TOWN<br>CASPEO SARL<br>LAPPEENRANNAN-LAHDEN TEKNILLINEN YLIOPISTO LUT<br>AMPHOS 21 CONSULTING SL<br>SOMINCOR - SOCIEDADE MINEIRA DE NEVES-CORVO SA<br>OUTOTEC (FINLAND) OY |            |  |
|  |   | <b>BUDGET</b>   | € 7 915 364,25  |            |  |
|  | <br><b>CROCODILE</b>   | <b>ACRONYM</b>  | CROCODILE   |            |  |
| <b>G.A. ID</b>   |   | 776473  |   |            |  |
| <b>CORDIS LINK</b>   |   | <a href="https://cordis.europa.eu/project/rcn/214467/factsheet/en">https://cordis.europa.eu/project/rcn/214467/factsheet/en</a>   |   |            |  |
| <b>WEBSITE</b>   |   | <a href="https://h2020-crocodile.eu/">https://h2020-crocodile.eu/</a>   |   |            |  |
| <b>STARTING DATE</b>   |   | 2018/06/01  | <b>END DATE</b>   | 2022/05/31 |  |
| <b>COORDINATOR</b>   |   | <b>ENTITY:</b> FUNDACION TECNALIA RESEARCH & INNOVATION<br><b>CONTACT:</b> Amal Siriwardana ( <a href="mailto:Amal.Siriwardana@tecnalia.com">Amal.Siriwardana@tecnalia.com</a> )  |   |            |  |
|  |   |   |   |            |  |
| <b>PARTNERS</b>  |   | FREEPORT COBALT OY<br>GLENCORE NIKKELVERK AS<br>STENA RECYCLING INTERNATIONAL AB<br>ECO RECYCLING SOCIETA A RESPONSABILITA LIMITATA<br>GENIKI METALLEUTIKI KAI METALLOURGIKI ANONIMI ETAIRIA<br>RELIGHT SRL<br>LOMARTOV SL<br>KOPACEK KEG<br>AKKUSER OY<br>ACCUREC-RECYCLING GMBH<br>SAUBERMACHER DIENSTLEISTUNGS AG<br>SOCIETE NOUVELLE D'AFFINAGE DES METAUX-SNAM<br>COMET TRAITEMENTS SA<br>MONOLITHOS KATALITES KE ANAKIKLOSI ETAIREIA PERIORISMENIS EVTHINIS<br>TECNALIA VENTURES SL |   |            |  |

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|   |                      | PNO INNOVATION<br>OPTIMIZACION ORIENTADA A LA SOSTENIBILIDAD SL<br>ENV-AQUA SOLUTIONS LTD<br>KATHOLIEKE UNIVERSITEIT LEUVEN<br>SINTEF AS<br>NATURAL HISTORY MUSEUM<br>BANGOR UNIVERSITY<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES   |
|   | <b>BUDGET</b>        | Overall budget: € 14 890 408,75 / EU contribution: € 11 625 289,01  |
| <b>FineFuture</b>                             | <b>ACRONYM</b>       | FineFuture  |
|   | <b>G.A. ID</b>       | 821265  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/223268/factsheet/en">https://cordis.europa.eu/project/rcn/223268/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | -   |
|   | <b>STARTING DATE</b> | 2019/06/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV<br><b>CONTACT:</b> Kerstin Eckert ( <a href="mailto:k.eckert@hzdr.de">k.eckert@hzdr.de</a> )   |
|   | <b>PARTNERS</b>      | BASF SE<br>KGHM POLSKA MIEDZ SA<br>MAELGWYN MINERAL SERVICES LIMITED<br>ELLINIKI LEFKOLITHI ANONYMOS METALLEFTIKI VIOMIHANIKI NAFTILIAKI KAI<br>EMPORIKI ETERIA<br>ERAMET IDEAS<br>MAGNESITAS NAVARRAS SA<br>TURBOFLOTSERVICE<br>INDUSTRIAL MINERALS ASSOCIATION EUROPE<br>UNIVERSITE DE LORRAINE, SOFIA UNIVERSITY ST KLIMENT OHRIDSKI<br>ARISTOTELIO PANEPISTIMIO THESSALONIKIS<br>SIEC BADAWCZA LUKASIEWICZ - INSTYTUT METALI NIEZELAZNYCH<br>IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE<br>POLITECNICO DI MILANO<br>ISTANBUL TEKNIK UNIVERSITESI |
|   | <b>BUDGET</b>        | € 6 195 022,50  |
|   | <b>ACRONYM</b>       | SOCRATES  |
|   | <b>G.A. ID</b>       | 721385  |
| <b>SOCRATES</b><br><small>EU MSCA-ETN</small> | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/205514/factsheet/en">https://cordis.europa.eu/project/rcn/205514/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="https://etn-socrates.eu/">https://etn-socrates.eu/</a>   |
|   | <b>STARTING DATE</b> | 2016/09/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> KATHOLIEKE UNIVERSITEIT LEUVEN<br><b>CONTACT:</b> Koen Binnemans ( <a href="mailto:koen.binnemans@kuleuven.be">koen.binnemans@kuleuven.be</a> )  |
|   | <b>PARTNERS</b>      | UNIVERSITY OF LEICESTER<br>UNIVERSITEIT UTRECHT<br>RHEINISCHE FRIEDRICH-WILHELMUS-UNIVERSITAT BONN<br>TECHNISCHE UNIVERSITAET BERGAKADEMIE FREIBERG<br>OUTOTEC (FINLAND) OY<br>KERNEOS<br>METALLO-CHIMIQUE N.V.   |
|   | <b>BUDGET</b>        | € 3 858 940,08  |
|   | <b>ACRONYM</b>       | SOLCRIMET   |
|   | <b>G.A. ID</b>       | 694078  |
| <b>SOLCRIMET</b>                              | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/203410/factsheet/en">https://cordis.europa.eu/project/rcn/203410/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="http://solcrimet.eu/">http://solcrimet.eu/</a>   |
|   | <b>STARTING DATE</b> | 2016/09/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> KATHOLIEKE UNIVERSITEIT LEUVEN<br><b>CONTACT:</b> Koen Binnemans ( <a href="mailto:koen.binnemans@kuleuven.be">koen.binnemans@kuleuven.be</a> )  |
|   | <b>BUDGET</b>        | € 2 496 250   |
|   | <b>ACRONYM</b>       | SULTAN  |

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| <br><b>SULTAN</b><br><small>MSCA-ETN</small>                              | <b>COORDINATOR</b>   | <b>ENTITY:</b> KATHOLIEKE UNIVERSITEIT LEUVEN<br><b>CONTACT:</b> Philippe Muchez ( <a href="mailto:philippe.muchez@kuleuven.be">philippe.muchez@kuleuven.be</a> )   |
|  |  | TECHNISCHE UNIVERSITAT CLAUSTHAL<br>OULUN YLIOPISTO<br>FCIENCIAS.ID - ASSOCIACAO PARA A INVESTIGACAO E DESENVOLVIMENTO DE CIENCIAS<br>EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH<br>HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV<br>WIENERBERGER NV<br>VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.<br>GEOLOGIAN TUTKIMUSKESKUS<br>SHELL GLOBAL SOLUTIONS INTERNATIONAL BV<br>FUNDACION TECNALIA RESEARCH & INNOVATION<br>SOMINCOR - SOCIEDADE MINEIRA DE NEVES-CORVO SA<br>SAXONIA STANDORTENTWICKLUNGS- UND -VERWALTUNGSGESELLSCHAFT MBH<br>OUTOTEC (FINLAND) OY<br>TECHNISCHE UNIVERSITAET BERGAKADEMIE FREIBERG |
|  | <b>PARTNERS</b>  | <b>BUDGET</b><br>€ 3 910 958,64   |
|  |  |   |
| <br><b>BIORECOVER</b><br><small>New Materials Sustainable Init.</small> | <b>ACRONYM</b><br><b>G.A. ID</b><br><b>CORDIS LINK</b><br><b>WEBSITE</b><br><b>STARTING DATE</b> | BIORECOVER<br>821096<br><a href="https://cordis.europa.eu/project/rcn/223260/factsheet/en">https://cordis.europa.eu/project/rcn/223260/factsheet/en</a><br><a href="https://www.biorecover.eu/">https://www.biorecover.eu/</a><br>2019/06/01 <b>END DATE</b> 2023/05/31   |
|  |  | <b>COORDINATOR</b><br><b>ENTITY:</b> FUNDACION CENTRO TECNOLOGICO DE INVESTIGACION MULTISECTORIAL (CETIM)<br><b>CONTACT:</b> Lucía Vázquez ( <a href="mailto:lvezquez@cetim.es">lvezquez@cetim.es</a> )   |
|  |  | <b>PARTNERS</b><br>MYTILINEOS ANONIMI ETAIRIA - OMILOS EPICHEIRISEON<br>MAGNESITAS NAVARRAS SA<br>KOBENHAVNS UNIVERSITET<br>UNIVERSIDADE DE COIMBRA<br>UNIVERSITY OF THE WITWATERSRAND JOHANNESBURG<br>LINNEUNIVERSITETET<br>UNIVERSITY OF CAPE TOWN<br>TECNICAS REUNIDAS SA<br>ALGAENERGY SA<br>JOHNSON MATTHEY PLC<br>FRANCISCO ALBERO SA<br>VERTECH GROUP<br>LGI CONSULTING  |
|  |  | <b>BUDGET</b><br>€ 6 337 277,50   |
|  |  |   |
| <br><b>CREATOR</b><br><small>COLLECT • PURIFY • REUSE</small>           | <b>ACRONYM</b><br><b>G.A. ID</b><br><b>CORDIS LINK</b><br><b>WEBSITE</b><br><b>STARTING DATE</b> | CREAToR<br>820477<br><a href="https://cordis.europa.eu/project/rcn/223234/factsheet/en">https://cordis.europa.eu/project/rcn/223234/factsheet/en</a><br><a href="https://www.creatorproject.eu/">https://www.creatorproject.eu/</a><br>2019/06/01 <b>END DATE</b> 2022/11/30  |
|  |  | <b>COORDINATOR</b><br><b>ENTITY:</b> FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.<br><b>CONTACT:</b> Peter Ohlhausen ( <a href="mailto:peter.ohlhausen@iao.fraunhofer.de">peter.ohlhausen@iao.fraunhofer.de</a> )  |
|  |  | <b>PARTNERS</b><br>VOLBAS SA<br>MACHINEFABRIEK OTTO SCHOUTEN BV<br>COOLREC BV<br>RELIGHT SRL<br>FUNDACION GAIKER<br>TRANSFERCENTER FUR KUNSTSTOFFTECHNIK GMBH<br>EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN GESELLSCHAFT MBH<br>CENTRE SCIENTIFIQUE & TECHNIQUE DE L'INDUSTRIE TEXTILE BELGE<br>MAIER SCOOP<br>DAW SE  |
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|   |                      | CYCLEFIBER SL<br>FUNDACION CIDAUT<br>KUHNE LOGISTICS UNIVERSITY GGMBH<br>OPENBARE VLAAMSE AFVALSTOFFENMAATSCHAPPIJ<br>WUDARCZYK ROBERT<br>ITRB LTD   |                 |            |
|   |                      | <b>BUDGET</b> € 4 985 853,75   |                 |            |
|    | <b>ACRONYM</b>       | ION4RAW  |                 |            |
|   | <b>G.A. ID</b>       | 815748   |                 |            |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/223201/factsheet/en">https://cordis.europa.eu/project/rcn/223201/factsheet/en</a>  |                 |            |
|   | <b>WEBSITE</b>       | <a href="http://ion4raw.eu/">http://ion4raw.eu/</a>  |                 |            |
|   | <b>STARTING DATE</b> | 2019/06/01   | <b>END DATE</b> | 2023/05/31 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> OPTIMIZACION ORIENTADA A LA SOSTENIBILIDAD SL<br><b>CONTACT:</b> Maria Tripiana Serrano ( <a href="mailto:maria.tripiana@idener.es">maria.tripiana@idener.es</a> )  |                 |            |
|   | <b>PARTNERS</b>      | BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>SCOTGOLD RESOURCES LIMITED<br>CUMBRES EXPLORACIONES SAC<br>WARDELL ARMSTRONG LLP<br>FUNDACION TECNALIA RESEARCH & INNOVATION<br>SINTEF AS<br>TECHNISCHE UNIVERSITAET BERGAKADEMIE FREIBERG<br>HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV<br>L'UREDERRA FUNDACION PARA EL DESARROLLO TECNOLOGICO Y SOCIAL<br>LGI CONSULTING<br>RINA CONSULTING - CENTRO SVILUPPO MATERIALI SPA<br>PNO INNOVATION |                 |            |
|   | <b>BUDGET</b>        | € 5 684 450  |                 |            |
|   | <b>ACRONYM</b>       | MINTECO  |                 |            |
|   | <b>WEBSITE</b>       | -  |                 |            |
|  | <b>STARTING DATE</b> | 2018/04/01   | <b>END DATE</b> | 2021/03/31 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> BRGM<br><b>CONTACT:</b> Erika Levei ( <a href="mailto:erika.levei@icia.ro">erika.levei@icia.ro</a> )  |                 |            |
|   | <b>PARTNERS</b>      | NATIONAL R&D INSTITUTE FOR NONFERROUS AND RARE METALS<br>NATIONAL INSTITUTE FOR RESEARCH AND DEVELOPMENT IN<br>OPTOELECTRONICS INOE 2000<br>ESKISEHIR OSMANGAZI UNIVERSITY<br>ROMALTYN MINING SRL<br>MINERAL AND ENERGY ECONOMY RESEARCH INSTITUTE OF THE POLISH<br>ACADEMY OF SCIENCES<br>TEAM GROUP METALS SP. Z O.O., AJELIS.   |                 |            |
|   | <b>BUDGET</b>        | Total cost: € 973 834 / Total requested funding: € 639 700.  |                 |            |
|  | <b>ACRONYM</b>       | Removal  |                 |            |
|   | <b>G.A. ID</b>       | 776469   |                 |            |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/216074/factsheet/en">https://cordis.europa.eu/project/rcn/216074/factsheet/en</a>  |                 |            |
|   | <b>WEBSITE</b>       | <a href="https://www.removal-project.com/">https://www.removal-project.com/</a>  |                 |            |
|   | <b>STARTING DATE</b> | 2018/05/01   | <b>END DATE</b> | 2022/04/30 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> MYTILINAIOS ANONIMI ETAIREIA<br><b>CONTACT:</b> Efthymios Balomenos( <a href="mailto:efthymios.balomenos-external@alellas.gr">efthymios.balomenos-external@alellas.gr</a> )   |                 |            |
|   | <b>PARTNERS</b>      | ALUMINIUM PECHINEY<br>AUGHINISH ALUMINA LTD<br>ALUM SA<br>EUROPEAN ALUMINIUM ASSOCIATION<br>INTERNATIONAL PRIMARY ALUMINIUM INSTITUTE LBG<br>NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA<br>KATHOLIEKE UNIVERSITEIT LEUVEN<br>NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU<br>RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN<br>UNIVERSITY OF LIMERICK<br>SINTEF AS  |                 |            |

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|    | ELKEM AS<br>INNCEINNMAT SL<br>MEAB CHEMIE TECHNIK GMBH<br>DRYSEP AS<br>ZAAK TECHNOLOGIES GMBH<br>RESOURCEFULL<br>KAINOTOMIES AXIOPOIISIS GEOYLIKON IDIOTIKI KEFALAIOUCHIKI ETAIREIA<br>HEIDELBERGCEMENT AG<br>ACCIONA CONSTRUCCION SA<br>ROCKWOOL INTERNATIONAL AS<br>ADVANCED MINERALS AND RECYCLING INDUSTRIAL SOLUTIONS IKE<br>GREEN2SUSTAIN IDIOTIKI KEFALAIOUCHIKI ETAIREIA<br>ITRB LTD<br>WAVESTONE LUXEMBOURG SA   |  |  |
|   | <b>BUDGET</b><br>Overall budget: € 14 658 966,24 / EU contribution: € 11 481 599,13   |  |  |
|  | <b>ACRONYM</b> e.THROUGH<br><b>G.A. ID</b> 778045<br><b>CORDIS LINK</b> <a href="https://cordis.europa.eu/project/rcn/213000/factsheet/en">https://cordis.europa.eu/project/rcn/213000/factsheet/en</a><br><b>WEBSITE</b> <a href="https://ethrough.wordpress.com/">https://ethrough.wordpress.com/</a><br><b>STARTING DATE</b> 2018/01/01 <b>END DATE</b> 2021/12/31<br><b>COORDINATOR</b><br><b>ENTITY:</b> NOVA ID FCT - ASSOCIACAO PARA A INOVACAO E<br>DESENVOLVIMENTO DA FCT<br><b>CONTACT:</b> Alexandra B. Ribeiro ( <a href="mailto:abr@fct.unl.pt">abr@fct.unl.pt</a> )<br><br><b>PARTNERS</b><br>DANMARKS TEKNISKE UNIVERSITET<br>UNIVERSIDAD DE MALAGA<br>ECO RECYCLING SOCIETA A RESPONSABILITA LIMITATA<br>AMPHOS 21 CONSULTING SL<br>E-MINES<br>LOMARTOV SL<br><br><b>BUDGET</b> Overall budget: € 733 500 / EU contribution: € 693 000  |  |  |
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|  | <b>ACRONYM</b> PROSUM<br><b>G.A. ID</b> 641999<br><b>CORDIS LINK</b> <a href="https://cordis.europa.eu/project/rcn/193869/factsheet/en">https://cordis.europa.eu/project/rcn/193869/factsheet/en</a><br><b>WEBSITE</b> <a href="http://prosumproject.eu/">http://prosumproject.eu/</a><br><b>STARTING DATE</b> 2015/01/01 <b>END DATE</b> 2017/12/31<br><b>COORDINATOR</b><br><b>ENTITY:</b> WASTE OF ELECTRICAL AND ELECTRONICAL EQUIPMENT FORUM<br>AISBL<br><b>CONTACT:</b> James Horne <a href="mailto:james.horne@weee.org">james.horne@weee.org</a><br><br><b>PARTNERS</b><br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>C-TECH INNOVATION LIMITED<br>CENTRAAL BUREAU VOOR DE STATISTIEK<br>CESKA GEOLOGICKA SLUZBA<br>CHALMERS TEKNiska HOEGSKOLA AB<br>EUROGEOSURVEYS - EGS<br>EIDGENOSSISCHE MATERIALPRUFUNGS- UND FORSCHUNGSASTALT<br>EUROPEAN COMPLIANCE ORGANIZATIONS FOR BATTERIES<br>GEOLOSKI ZAVOD SLOVENIJE<br>GEOLOGICAL SURVEY OF DENMARK AND GREENLAND<br>RECHARGE<br>SVERIGES GEOLOGiska UNDERSOKNING<br>TECHNISCHE UNIVERSITEIT DELFT<br>TECHNISCHE UNIVERSITAT BERLIN<br>UNITED NATIONS UNIVERSITY<br>THE WASTE AND RESOURCES ACTION PROGRAMME<br>EC CONSULTING<br><br><b>BUDGET</b> Overall budget: € 3 704 327,57 / EU contribution: € 3 051 577,57 |  |  |
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|    | STARTING DATE  | 2015/10/01   | END DATE                      | 2018/03/31                    |  |
|   | COORDINATOR  | <b>ENTITY:</b> ENCO SRL<br><b>CONTACT:</b> Marco de la Feld ( <a href="mailto:m.delafeld@enco-consulting.it">m.delafeld@enco-consulting.it</a> )   |                               |                               |  |
|   | <b>PARTNERS</b>  | MIKKELIN AMMATTIKORKEAKOULU OY<br>KAAKKOIS-SUOMEN AMMATTIKORKEAKOULU OY<br>GEOLOGIAN TUTKIMUSKESKUS<br>METSASAIRILA OY<br>RAMBOLL FINLAND OY<br>PECSI TUDOMANYEGYETEM - UNIVERSITY OF PECS<br>BAY ZOLTAN ALKALMAZOTT KUTATASI KOZHASNNU NONPROFIT KFT.<br>MKM CONSULTING MERNOKI KORNYEZETVEDELMI ES MENDZSMENT<br>TANACSADO KORLATOLT FELELOSSEGU TARSASAG<br>UNIVERSITA DEGLI STUDI DI TORINO<br>IMAGEO SRL<br>ATOS SPAIN SA<br>CRANFIELD UNIVERSITY<br>REGIONE PIEMONTE<br>BIOAZUL, SL<br>TEKNOLOGIAN TUTKIMUSKESKUS VTT OY |                               |                               |  |
|   |  | <b>BUDGET</b><br>€ 2 496 800,10  |                               |                               |  |
|   |  | <b>ACRONYM</b><br>AVAR   |                               |                               |  |
|   |  | <b>EIT LINK</b><br><a href="https://eitrawmaterials.eu/project/avar/">https://eitrawmaterials.eu/project/avar/</a>   |                               |                               |  |
|   |  | <b>STARTING DATE</b><br>2017/10/25   |                               | <b>END DATE</b><br>2019/10/24 |  |
|   |  | <b>COORDINATOR</b><br><b>ENTITY:</b> Aughinish Alumina Ltd<br><b>CONTACT:</b> ( <a href="mailto:inforusal@ugh.com">inforusal@ugh.com</a> )   |                               |                               |  |
|   |  | <b>PARTNERS</b><br>AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE (ENEA)<br>UNIVERSITY OF LIMERICK<br>VOTECHNICK (ALR)   |                               |                               |  |
|   | <b>CARSIFER</b><br>(no logo)   | <b>ACRONYM</b><br>CarSiFer   |                               |                               |  |
|   |  | <b>EIT LINK</b><br><a href="https://eitrawmaterials.eu/project/carsifer/">https://eitrawmaterials.eu/project/carsifer/</a>   |                               |                               |  |
|   |  | <b>STARTING DATE</b><br>2019/01/01   |                               | <b>END DATE</b><br>2022/06/30 |  |
|   |  | <b>COORDINATOR</b><br><b>ENTITY:</b> Recyclage et Valorisation Technique<br><b>CONTACT:</b> Michel Bauduin ( <a href="mailto:info@revatech.be">info@revatech.be</a> )  |                               |                               |  |
|   |  | <b>PARTNERS</b><br>CENTRE DE RECHERCHES METALLURGIQUES ASBL (CRM GROUP)<br>ECO'RING<br>FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.<br>SUEZ GROUPE SAS   |                               |                               |  |
|  | <b>ACRONYM</b><br>FLAME  |  |                               |                               |  |
|   | <b>EIT LINK</b><br><a href="https://eitrawmaterials.eu/project/flame/">https://eitrawmaterials.eu/project/flame/</a>   |  |                               |                               |  |
|   | <b>WEBSITE</b><br><a href="https://flame.vito.be/">https://flame.vito.be/</a>  |  |                               |                               |  |
|   | <b>STARTING DATE</b><br>2017/04/01   |  | <b>END DATE</b><br>2020/03/31 |                               |  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Vlaamse Instelling voor Technologisch Onderzoek NV – (Flemish Institute for Technological Research NV VITO)<br><b>CONTACT:</b> Kris Broos ( <a href="mailto:kris.broos@vito.be">kris.broos@vito.be</a> )  |                               |                               |  |
|   |  | <b>PARTNERS</b><br>ATLAS COPCO AIRPOWER N.V.<br>ATLAS COPCO ROCK DRILLS AB<br>KAUNO TECHNOLOGIES UNIVERSITETAS (KTU)<br>TALLINNA TEHNIAKÜLIKOOLO, TTÜ – TALLINN UNIVERSITY OF TECHNOLOGY<br>VALUE ASH TECHNOLOGIES NV (VASHT NV)<br>ZAVOD ZA GRADBENISTVO SLOVENIJE, ZAG (SLOVENIAN NATIONAL BUILDING AND CIVIL ENGINEERING INSTITUTE)   |                               |                               |  |
| <b>GREENY</b><br>(no logo)  | <b>ACRONYM</b><br>GREENY   |  |                               |                               |  |
|   | <b>EIT LINK</b><br><a href="https://eitrawmaterials.eu/project/greeny/">https://eitrawmaterials.eu/project/greeny/</a> |  |                               |                               |  |
|   | <b>STARTING DATE</b><br>2019/01/01   |  | <b>END DATE</b><br>2021/06/30 |                               |  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Metso Minerals Oy<br><b>CONTACT:</b> <a href="mailto:steve.lamb@metso.com">steve.lamb@metso.com</a>   |                               |                               |  |
|   |  | <b>PARTNERS</b><br>ERAMET IDEAS<br>LULEÅ UNIVERSITY OF TECHNOLOGY (LTU)<br>TECHNISCHE UNIVERSITÄT BERGAKADEMIE FREIBERG (TUBAF)  |                               |                               |  |

|                         |               |  |          |            |
|-------------------------|---------------|--|----------|------------|
|                         |               | TEKNOLOGIAN TUTKIMUSKESKUS VTT   |          |            |
| MORECOVERY<br>(no logo) | ACRONYM       | Morecovery   |          |            |
|                         | EIT LINK      | <a href="https://eitrawmaterials.eu/project/morecovery/">https://eitrawmaterials.eu/project/morecovery/</a>  |          |            |
|                         | WEBSITE       | <a href="http://newprojects.gtk.fi/Morecovery/">http://newprojects.gtk.fi/Morecovery/</a>  |          |            |
|                         | STARTING DATE | 2019/01/01   | END DATE | 2021/12/31 |
|                         | COORDINATOR   | <b>ENTITY:</b> Geologian tutkimuskeskus, GTK<br><b>CONTACT:</b>  |          |            |
|                         | PARTNERS      | AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS M.P., CSIC<br>LTU BUSINESS AB<br>SAVONIA UNIVERSITY OF APPLIED SCIENCES LTD<br>SUOMEN MALMIJALOSTUS OY (FORMERLY TERRAFAME GROUP OY)<br>UNIVERSITY OF EASTERN FINLAND<br>UNIVERSITY OF HUELVA  |          |            |
| OPTAREC<br>(no logo)    | ACRONYM       | OpTaRec  |          |            |
|                         | EIT LINK      | <a href="https://eitrawmaterials.eu/project/optarec/">https://eitrawmaterials.eu/project/optarec/</a>  |          |            |
|                         | STARTING DATE | 2017/04/01   | END DATE | 2020/03/31 |
|                         | COORDINATOR   | <b>ENTITY:</b> H.C. Starck GmbH<br><b>CONTACT:</b> Silvana Fehling ( <a href="mailto:silvana.fehling@hcstarck.com">silvana.fehling@hcstarck.com</a> )  |          |            |
|                         | PARTNERS      | CLAUSTHAL UNIVERSITY OF TECHNOLOGY<br>MONTANUNIVERSITÄT LEOBEN<br>RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN, RWTH AACHEN  |          |            |
| RECLAMET<br>(no logo)   | ACRONYM       | ReclaMet   |          |            |
|                         | EIT LINK      | <a href="https://eitrawmaterials.eu/project/reclamet/">https://eitrawmaterials.eu/project/reclamet/</a>  |          |            |
|                         | STARTING DATE | 2018/01/01   | END DATE | 2021/03/31 |
|                         | COORDINATOR   | <b>ENTITY:</b> TATA STEEL NEDERLAND TECHNOLOGY B.V.<br><b>CONTACT:</b> <a href="mailto:secretariat@tatasteel-europe.com">secretariat@tatasteel-europe.com</a>  |          |            |
|                         | PARTNERS      | CRM GROUP<br>NYRSTAR<br>DELFT UNIVERSITY OF TECHNOLOGY   |          |            |
| RIGAT<br>(no logo)      | ACRONYM       | RIGaT  |          |            |
|                         | EIT LINK      | <a href="https://eitrawmaterials.eu/project/rigat/">https://eitrawmaterials.eu/project/rigat/</a>  |          |            |
|                         | STARTING DATE | 2016/04/01   | END DATE | 2018/12/31 |
|                         | COORDINATOR   | <b>ENTITY:</b> Instytut Metali Nielaznych, IMN<br><b>CONTACT:</b> <a href="mailto:imn@imn.gliwice.pl">imn@imn.gliwice.pl</a>   |          |            |
|                         | PARTNERS      | HUTA CYNKU MIASTECZKO ŚLĄSKIE S.A.<br>TECHNISCHE UNIVERSITÄT BERGAKADEMIE FREIBERG (TUBAF)<br>TEKNOLOGIAN TUTKIMUSKESKUS VTT   |          |            |
| STINGS                  | ACRONYM       | STINGS   |          |            |
|                         | CORDIS LINK   | <a href="https://eitrawmaterials.eu/project/stings/">https://eitrawmaterials.eu/project/stings/</a>  |          |            |
|                         | WEBSITE       | <a href="http://www.euromines.org/news/newsletters/1-2018/stings-an-integrated-novel-approach-for-tailing-supervision">http://www.euromines.org/news/newsletters/1-2018/stings-an-integrated-novel-approach-for-tailing-supervision</a>  |          |            |
|                         | STARTING DATE | 2017/04/01   | END DATE | 2020/09/30 |
|                         | COORDINATOR   | <b>ENTITY:</b> DMT GmbH & Co. KG<br><b>CONTACT:</b> Karsten Zimmermann ( <a href="mailto:Karsten.Schischke@izm.fraunhofer.de">Karsten.Schischke@izm.fraunhofer.de</a> )  |          |            |
|                         | PARTNERS      | E F T A S FERNERKUNDUNG TECHNOLOGIETRANSFER GMBH (EFTAS)<br>GEOLOGICAL SURVEY OF SLOVENIA, GEOZS<br>LTU BUSINESS AB<br>OVIDIUS UNIVERSITY OF CONSTANTA<br>STUTTGART UNIVERSITY – INSTITUT FÜR PHOTOGRAMMETRIE<br>TECHNISCHE UNIVERSITÄT BERGAKADEMIE FREIBERG (TUBAF)<br>UNIVERSIDAD PONTIFICIA CATÓLICA DE VALPARAISO |          |            |
|                         | ACRONYM       | iTARG3T  |          |            |
|                         | EIT LINK      | <a href="https://eitrawmaterials.eu/project/itarg3t/">https://eitrawmaterials.eu/project/itarg3t/</a>  |          |            |
|                         | STARTING DATE | 2019/01/01   | END DATE | 2021/12/31 |
|                         | COORDINATOR   | <b>ENTITY:</b> Agencia Estatal Consejo Superior de Investigaciones Cientificas M.P., CSIC  |          |            |

|   |                      |   |
|---|----------------------|---|
|  |                      | <b>CONTACT:</b> Fernando Tornos ( <a href="mailto:f.tornos@csic.es">f.tornos@csic.es</a> )  |
|   | <b>PARTNERS</b>      | AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY<br>FAKULTA GEOLOGIE NARODNEJ UNIVERZITY TARASA SZEVCZENKA V KIEVE<br>GEOMET S.R.O.<br>LITHICA SCCL<br>LULEÅ UNIVERSITY OF TECHNOLOGY (LTU)<br>MARTIN LUTHER UNIVERSITÄT HALLE-WITTENBERG<br>MINERAL AND ENERGY ECONOMY RESEARCH INSTITUTE OF THE POLISH ACADEMY OF SCIENCES (MEERI)<br>REDSTONE EXPLORATION SERVICES SP. Z O.O.<br>SOCIEDADE MINEIRA DE PEGMATITES LTDA (PEGMATÍTICA)<br>UNIVERSIDAD POLITÉCNICA DE MADRID, UPM (TECHNICAL UNIVERSITY OF MADRID)<br>UNIVERSITY OF ZAGREB – FACULTY OF MINING, GEOLOGY AND PETROLEUM ENGINEERING (UNIZG-RGNF)<br>VALORIZA MINERÍA SLU |
| <b>REEBAUX</b><br><span style="color: blue;">(no logo)</span>                     | <b>ACRONYM</b>       | REEBAUX   |
|   | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/reebaux/">https://eitrawmaterials.eu/project/reebaux/</a>   |
| <b>REEBAUX</b><br><span style="color: blue;">(no logo)</span>                     | <b>WEBSITE</b>       | <a href="http://reebaux.gfz.hr/">http://reebaux.gfz.hr/</a>   |
|   | <b>STARTING DATE</b> | 2018/01/01  |
| <b>REEBAUX</b><br><span style="color: blue;">(no logo)</span>                     | <b>COORDINATOR</b>   | <b>ENTITY:</b> University of Zagreb – Faculty of Science (UNIZG – PMF)<br><b>CONTACT:</b> <a href="mailto:AAI@EDU.HR">AAI@EDU.HR</a>  |
|   | <b>PARTNERS</b>      | CROATIAN GEOLOGICAL SURVEY (HGI-CGS)<br>DMT GMBH & CO. KG<br>EÖTVÖS LORÁND UNIVERSITY BUDAPEST (ELTE)<br>GEOLOGICAL SURVEY OF MONTENEGRO (GSM)<br>MONTANUNIVERSITÄT LEOBEN<br>UNIVERSITY OF MISKOLC<br>UNIVERSITY OF ZAGREB<br>UNIVERSITY OF ZAGREB – FACULTY OF MINING, GEOLOGY AND PETROLEUM ENGINEERING (UNIZG-RGNF)<br>SLOVENIAN NATIONAL BUILDING AND CIVIL ENGINEERING INSTITUTE (ZAG)  |
| <b>RIS-CURE</b>   | <b>ACRONYM</b>       | RIS-Cure  |
|   | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/ris-cure/">https://eitrawmaterials.eu/project/ris-cure/</a>   |
| <b>RIS-CURE</b>   | <b>WEBSITE</b>       | <a href="http://ris-cure.zag.si/">http://ris-cure.zag.si/</a>   |
|   | <b>STARTING DATE</b> | 2019/01/01  |
| <b>RIS-CURE</b>   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Zavod za gradbenistvo Slovenije, ZAG (Slovenian National Building and Civil Engineering Institute)<br><b>CONTACT:</b> <a href="mailto:ris.cure@zag.si">ris.cure@zag.si</a>   |
|   | <b>PARTNERS</b>      | CHAMBER OF COMMERCE AND INDUSTRY OF SERBIA<br>CHAMBER OF COMMERCE AND INDUSTRY VRATSA<br>CIVIL ENGINEERING INSTITUTE MACEDONIA,<br>DPTU BUCHIM DOO, RADOVISH<br>ELEM MACEDONIAN POWER PLANTS<br>GEOLOGICAL SURVEY OF SLOVENIA, GEOZS<br>GOCE DELCEV UNIVERSITY ŠTIP<br>GOMEZ PARDO FOUNDATION<br>IRGO CONSULTING<br>MINING AND SMELTING COMBINE BOR<br>OUTOTEC (FINLAND) OY<br>UNIVERSITY OF BELGRADE, TECHNICAL FACULTY IN BOR<br>UNIVERSITY OF PETROSANI  |
| <b>BioFlex</b>  | <b>ACRONYM</b>       | BioFlex   |
|   | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/bioflex/">https://eitrawmaterials.eu/project/bioflex/</a>   |
| <b>BioFlex</b>  | <b>WEBSITE</b>       | <a href="http://www.zerowastecluster.eu/partner-networks/bioflex/">http://www.zerowastecluster.eu/partner-networks/bioflex/</a>   |
|   | <b>STARTING DATE</b> | 2016/01/01  |
| <b>BioFlex</b>  | <b>COORDINATOR</b>   | <b>ENTITY:</b> Ghent University<br><b>CONTACT:</b> <a href="mailto:info@ugent.be">info@ugent.be</a>   |
|   | <b>PARTNERS</b>      | UNIVERSITY OF LIEGE<br>KU LEUVEN<br>TU BERGAKADEMIE FREIBERG<br>VTT TECHNICAL RESEARCH CENTRE OF FINLAND LTD<br>RISE HOLDING (RISE RESEARCH INSTITUTES OF SWEDEN)   |

|  |               |  |
|--|---------------|--|
|  |               | BAY ZOLTAN   |
| <b>ELECTROFLEX</b>   | ACRONYM       | ElectroFlex  |
|  | EIT LINK      | <a href="https://eitrawmaterials.eu/project/electroflex/">https://eitrawmaterials.eu/project/electroflex/</a>  |
|  | WEBSITE       | <a href="http://www.zerowastecluster.eu/partner-networks/electroflex/">http://www.zerowastecluster.eu/partner-networks/electroflex/</a>  |
|  | STARTING DATE | 2017/04/01   |
|  | END DATE      | 2020/03/31   |
|  | COORDINATOR   | <b>ENTITY:</b> Vlaamse Instelling voor Technologisch Onderzoek NV – (Flemish Institute for Technological Research NV VITO)<br><b>CONTACT:</b> Kris Broos ( <a href="mailto:kris.broos@vito.be">kris.broos@vito.be</a> )  |
|  | PARTNERS      | AALTO-KORKEAKOULUSAATIO (AALTO UNIVERSITY)<br>CHALMERS TEKNISKA HÖGSKOLA AB (CHALMERS UNIVERSITY OF TECHNOLOGY)<br>GHENT UNIVERSITY<br>KATHOLIEKE UNIVERSITEIT TE LEUVEN (KU LEUVEN)<br>RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN, RWTH AACHEN<br>STICHTING WETSUS EUROPEAN CENTRE OF EXCELLENCE FOR SUSTAINABLE WATER TECHNOLOGY, (WETSUS)<br>TECHNISCHE UNIVERSITÄT BERGAKADEMIE FREIBERG (TUBAF)<br>TEKNOLOGIAN TUTKIMUSKESKUS VTT (TECHNICAL RESEARCH CENTRE OF FINLAND LTD. VTT)<br>UMICORE NV |
|  | ACRONYM       | PyroFlex   |
|  | EIT LINK      | <a href="https://eitrawmaterials.eu/project/pyroflex/">https://eitrawmaterials.eu/project/pyroflex/</a>  |
|  | WEBSITE       | <a href="https://pyroflex-eit.eu/">https://pyroflex-eit.eu/</a>  |
|  PyroFlex | STARTING DATE | 2016/01/01   |
|  | END DATE      | 2018/12/31   |
|  | COORDINATOR   | <b>ENTITY:</b> Katholieke Universiteit te Leuven (KU Leuven)<br><b>CONTACT:</b> Philippe Muchez ( <a href="mailto:philippe.muchez@kuleuven.be">philippe.muchez@kuleuven.be</a> )   |
|  | PARTNERS      | GHENT UNIVERSITY<br>INSPYRO N.V.<br>MONTANUNIVERSITÄT LEOBEN<br>OUTOTEC OYJ<br>RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN (RWTH AACHEN)<br>TECHNISCHE UNIVERSITEIT DELFT (DELFT UNIVERSITY OF TECHNOLOGY)<br>UMICORE   |

**TABLE 16- Comprehensive information of projects linked to TARANTULA (Project category: Geomodels, mapping and exploration)**

|   |               |  |
|---|---------------|--|
|   | ACRONYM       | HiTech AlkCarb   |
|  | G.A. ID       | 689909   |
|   | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/200299/factsheet/en">https://cordis.europa.eu/project/rcn/200299/factsheet/en</a>  |
|   | WEBSITE       | <a href="http://www.bgs.ac.uk/hiTechAlkCarb/home.html">http://www.bgs.ac.uk/hiTechAlkCarb/home.html</a>  |
|   | STARTING DATE | 2016/02/01   |
|   | END DATE      | 2020/01/31   |
|   | COORDINATOR   | <b>ENTITY:</b> THE UNIVERSITY OF EXETER<br><b>CONTACT:</b> Frances Wall ( <a href="mailto:F.Wall@exeter.ac.uk">F.Wall@exeter.ac.uk</a> )   |
|   | PARTNERS      | GEO-AFRICA PROSPECTING SERVICES CC<br>UNITED KINGDOM RESEARCH AND INNOVATION<br>NATURAL ENVIRONMENT RESEARCH COUNCIL<br>TERRATEC GEOPHYSICAL SERVICES GMBH & CO KG<br>EBERHARD KARLS UNIVERSITAET TUEBINGEN<br>MENDELOVA UNIVERZITA V BRNE<br>THE UNIVERSITY COURT OF THE UNIVERSITY OF ST ANDREWS<br>UNIVERSITA DEGLI STUDI GABRIELE D'ANNUNZIO DI CHIETI-PESCARA<br>LANCASTER EXPLORATION LIMITED<br>NATURAL HISTORY MUSEUM<br>A. SPEISER-ENVIRONMENTAL CONSULTANTS CC<br>GEOLOGICAL SURVEY OF DENMARK AND GREENLAND |
|   | BUDGET        | € 5 395 296  |

|   |                      |   |                 |            |
|---|----------------------|---|-----------------|------------|
|    | <b>ACRONYM</b>       | SOLSA   |                 |            |
|   | <b>G.A. ID</b>       | 689868  |                 |            |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/199901/factsheet/en">https://cordis.europa.eu/project/rcn/199901/factsheet/en</a>   |                 |            |
|   | <b>WEBSITE</b>       | <a href="http://www.solsa-mining.eu/">http://www.solsa-mining.eu/</a>   |                 |            |
|   | <b>STARTING DATE</b> | 2016/02/01  | <b>END DATE</b> | 2020/01/31 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> ERAMET SA<br><b>CONTACT:</b> Monique le Guen ( <a href="mailto:monique.le-guen@erametgroup.com">monique.le-guen@erametgroup.com</a> )  |                 |            |
|   | <b>PARTNERS</b>      | EIJKELKAMP SONICSAMPDRILL BV<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>INEL S.A.S<br>VILNIAUS UNIVERSITETAS<br>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS<br>UNIVERSITA DEGLI STUDI DI TRENTO<br>UNIVERSITA DEGLI STUDI DI VERONA<br>TECHNISCHE UNIVERSITEIT DELFT  |                 |            |
|   | <b>BUDGET</b>        | € 9 775 488,25  |                 |            |
|   | <b>ACRONYM</b>       | UNEXMIN   |                 |            |
|   | <b>G.A. ID</b>       | 690008  |                 |            |
|  | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/199904/factsheet/en">https://cordis.europa.eu/project/rcn/199904/factsheet/en</a>   |                 |            |
|   | <b>WEBSITE</b>       | <a href="https://www.unexmin.eu/">https://www.unexmin.eu/</a>   |                 |            |
|   | <b>STARTING DATE</b> | 2016/02/01  | <b>END DATE</b> | 2019/10/31 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> MISKOLCI EGYETEM<br><b>CONTACT:</b> Norbert Zajzon ( <a href="mailto:nzajzon@uni-miskolc.hu">nzajzon@uni-miskolc.hu</a> )  |                 |            |
|   | <b>PARTNERS</b>      | GEOLOSKI ZAVOD SLOVENIJE<br>TTY-SAATIO<br>TAMPEREEN KORKEAKOULUSAATIO SR<br>UNIVERSIDAD POLITECNICA DE MADRID<br>LA PALMA RESEARCH CENTRE FOR FUTURE STUDIES SL<br>INESC TEC - INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES<br>TECNOLOGIA E CIENCIA<br>RESOURCES COMPUTING INTERNATIONAL LTD<br>GEOPLANO CONSULTORES SA<br>ECTON MINE EDUCATIONAL TRUST<br>FEDERATION EUROPEENNE DES GEOLOGUES<br>FEDERATION EUROPEENNE DES GEOLOGUES<br>GEO-MONTAN GEOLOGUS<br>KORNYEZETVEDOMEGUJULO ENERGETIKAI TOLMACSFORDITOKFT<br>EMPRESA DE DESENVOLVIMENTO MINEIRO<br>CENTER ZA UPRAVLJANJE Z DEDISCINO ZIVEGA SREBRA IDRIJA |                 |            |
|   | <b>BUDGET</b>        | € 4 862 865   |                 |            |
|   | <b>ACRONYM</b>       | NEXT  |                 |            |
|   | <b>G.A. ID</b>       | 776804  |                 |            |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/214770/factsheet/en">https://cordis.europa.eu/project/rcn/214770/factsheet/en</a>   |                 |            |
|   | <b>WEBSITE</b>       | <a href="http://www.new-exploration.tech/">http://www.new-exploration.tech/</a>   |                 |            |
|  | <b>STARTING DATE</b> | 2018/05/01  | <b>END DATE</b> | 2021/04/30 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> GEOLOGIAN TUTKIMUSKESKUS (GTK)<br><b>CONTACT:</b> Vesa Nykänen ( <a href="mailto:vesa.nykainen@gtk.fi">vesa.nykainen@gtk.fi</a> )  |                 |            |
|   | <b>PARTNERS</b>      | AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS<br>RADAI OY<br>BEAK CONSULTANTS GMBH<br>UNIVERSITE DE LORRAINE<br>DMT GMBH & CO. KG<br>LULEA TEKNiska UNIVERSITET<br>HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV<br>INTEGRATED RESOURCES MANAGEMENT (IRM) COMPANY LIMITED<br>EFTAS FERNERKUNDUNG TECHNOLOGIETRANSFER GMBH<br>MINAS DE AGUAS TENIDAS SA<br>LAPIN YLIOPISTO<br>LOOP AND LINE OY<br>MAWSON OY  |                 |            |

|   |                      |   |
|---|----------------------|---|
|   |                      | VALORIZA MINERIA SL<br>YARA SUOMI OY  |
|   | <b>BUDGET</b>        | € 6 901 276,25  |
|  <p>SMART EXPLORATION<br/>NEW WAYS TO EXPLORE THE SUBSURFACE</p> | <b>ACRONYM</b>       | Smart Exploration   |
|   | <b>G.A. ID</b>       | 775971  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/212897/factsheet/en">https://cordis.europa.eu/project/rcn/212897/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="https://smartexploration.eu/">https://smartexploration.eu/</a>   |
|   | <b>STARTING DATE</b> | 2017/12/01  |
|   |                      | <b>END DATE</b>   |
|   |                      | 2020/11/30  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Uppsala University<br><b>CONTACT:</b> Alireza Malehmir ( <a href="mailto:Alireza.Malehmir@geo.uu.se">Alireza.Malehmir@geo.uu.se</a> )  |
|   | <b>PARTNERS</b>      | SVERIGES GEOLOGISKA UNDERSOKNING<br>NORDIC IRON ORE AB<br>LUDVIKA KOMMUN<br>GEOVISTA AKTIEBOLAG<br>MIC NORDIC AB<br>BITSIM AB<br>AMKVO AB<br>YARA SUOMI OY<br>HELSINGIN YLIOPISTO<br>TURUN YLIOPISTO<br>SKYTEM SURVEYS APS<br>AARHUS UNIVERSITET<br>TECHNISCHE UNIVERSITEIT DELFT<br>SEISMIC MECHATRONICS BV<br>EAGE EVENTS BV<br>POLITECNICO DI TORINO, SOMINCOR - SOCIEDADE MINEIRA DE NEVES-CORVO SA<br>LABORATORIO NACIONAL DE ENERGIA E GEOLOGIA I.P.<br>TECHNISCHE UNIVERSITAET BERGAKADEMIE FREIBERG<br>INSTYTUT GEOFIZYKI POLSKIEJ AKADEMII NAUK<br>GEOPARTNER SP ZOO<br>PROXIS SP ZOO<br>NATIONAL TECHNICAL UNIVERSITY OF ATHENS – NTUA<br>HELLAS GOLD S.A.<br>SEISMOTECH GEOFISIKES MELETES ANONIMOS ETAIREIA<br>DELPHI-DISTOMON ANONYMOS METALLEFTIKI ETAIREIA |
|   | <b>BUDGET</b>        | € 5 217 843,75  |
|  <p>GeoERA</p>   | <b>ACRONYM</b>       | GeoERA  |
|   | <b>G.A. ID</b>       | 731166  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/207192/factsheet/en">https://cordis.europa.eu/project/rcn/207192/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="https://geoera.eu/">https://geoera.eu/</a>   |
|   | <b>STARTING DATE</b> | 2017/01/01  |
|   |                      | <b>END DATE</b>   |
|   |                      | 2021/12/31  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK (TNO)<br><b>CONTACT:</b> Paul Bogaard ( <a href="mailto:paul.bogaard@tno.nl">paul.bogaard@tno.nl</a> )   |
|   | <b>PARTNERS</b>      | PER SHERBIMIN GJEOLQJIK SHQIPTAR<br>GEOLOGISCHE BUNDESANSTALT<br>INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE<br>VLAAMSE GEWEST<br>VLAAMSE MILIEUMAATSCHAPPIJ<br>FEDERALNI ZAVOD ZA GEOLOGIJU SARAJEVO<br>HRVATSKI GEOLOSKI INSTITUT<br>MINISTRY OF AGRICULTURE, RURAL DEVELOPMENT AND ENVIRONMENT OF CYPRUS<br>CESKA GEOLOGICKA SLUZBA<br>GEOLOGICAL SURVEY OF DENMARK AND GREENLAND<br>GEOLOGIAN TUTKIMUSKESKUS<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>BUNDESANSTALT FUER GEOWISSENSCHAFTEN UND ROHSTOFFE<br>REGIERUNGSPRASIDIUM FREIBURG<br>BAYERISCHES LANDESAMT FUR UMWELT   |

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|                      | LANDESAMT FUER BERGBAU, GEOLOGIE UND ROHSTOFFE BRANDENBURG<br>LANDESAMT FÜR BERGBAU, ENERGIE UND GEOLOGIE<br>LANDESAMT FÜR GEOLOGIE UND BERGWESEN SACHSEN-ANHALT<br>INSTITUTO GEOLOGIKON KAI METALLEFTIKON EREVNON<br>MINING AND GEOLOGICAL SURVEY OF HUNGARY<br>MAGYAR FOLDTANI ES GEOFIZIKAI INTEZET<br>ISLENSKAR ORKURANNSOKNIR<br>COMMUNICATIONS, CLIMATE ACTION AND ENVIRONMENTS<br>ISTITUTO SUPERIORE PER LA PROTEZIONE E LA RICERCA AMBIENTALE<br>REGIONE EMILIA ROMAGNA, REGIONE MARCHE, AGENZIA REGIONALE PER<br>LA PROTEZIONE AMBIENTALE DEL PIEMONTE<br>REGIONE TOSCANA<br>REGIONE UMBRIA<br>REGIONE AUTONOMA VALLE D'AOSTA<br>LATVIJAS VIDES<br>GEOLOGIJAS UN METEOROLOGIJAS CENTRS SIA<br>LIETUVOS GEOLOGIJOS TARNYBA PRIE aplinkos MINISTERIJOS<br>ADMINISTRATION DES PONTS ET CHAUSSEES DIRECTION<br>MINISTRY FOR TRANSPORT<br>INFRASTRUCTURE AND CAPITAL PROJECTS<br>NORGES GEOLOGISKE UNDERSOKELSE<br>PANSTWOWY INSTYTUT GEOLOGICZNY - PANSTWOWY INSTYTUT BADAWCZY<br>LABORATORIO NACIONAL DE ENERGIA E GEOLOGIA I.P.<br>INSTITUTUL GEOLOGIC AL ROMANIEI<br>STATNY GEOLOGICKY USTAV DIONYZA STURA<br>GEOLOSKI ZAVOD SLOVENIJE<br>INSTITUTO GEOLÓGICO Y MINERO DE ESPAÑA<br>INSTITUT CARTOGRAFIC I GEOLÒGIC DE CATALUNYA<br>SVERIGES GEOLOGISKA UNDERSOKNING<br>STATE RESEARCH AND DEVELOPMENT ENTERPRISE STATE INFORMATION<br>GEOLOGICAL FUND OF UKRAINE<br>NATURAL ENVIRONMENT RESEARCH COUNCIL<br>UNITED KINGDOM RESEARCH AND INNOVATION<br>LANDESAMT FUER UMWELT<br>NATURSCHUTZ UND GEOLOGIE MECKLENBURG-VORPOMMERN<br>GEOLOGICAL SURVEY OF THE REPUBLIC OF MACEDONIA<br>GEOLOGICAL SURVEY OF SERBIA<br>OFFICE OF THE PRIME MINISTER |                 |            |
| <b>BUDGET</b>        | Overall budget: € 31 303 030,39 / EU contribution: € 10 000 000.   |                 |            |
| <b>ACRONYM</b>       | E-SHAPE  |                 |            |
| <b>G.A. ID</b>       | 820852   |                 |            |
| <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/223250/factsheet/en">https://cordis.europa.eu/project/rcn/223250/factsheet/en</a>  |                 |            |
| <b>WEBSITE</b>       | <a href="http://www.e-shape.eu/">http://www.e-shape.eu/</a>  |                 |            |
| <b>STARTING DATE</b> | 2019/05/01   | <b>END DATE</b> | 2023/04/30 |
| <b>COORDINATOR</b>   | <b>ENTITY:</b> ASSOCIATION POUR LA RECHERCHE ET LE DEVELOPPEMENT DES<br>METHODES ET PROCESSUS INDUSTRIELS<br><b>CONTACT:</b> Thierry Ranchin ( <a href="mailto:thierry.ranchin@mines-paristech.fr">thierry.ranchin@mines-paristech.fr</a> )  |                 |            |
| <b>PARTNERS</b>      | CONSIGLIO NAZIONALE DELLE RICERCHE<br>ILMATIETEEN LAITOS<br>NATIONAL OBSERVATORY OF ATHENS<br>INTERNATIONALES INSTITUT FUER ANGEWANDTE SYSTEMANALYSE<br>CENTRO DE INVESTIGACION ECOLOGICA Y APLICACIONES FORESTALES<br>EUROPEAN ASSOCIATION OF REMOTE SENSING COMPANIES<br>DEIMOS SPACE SOCIEDAD LIMITADA UNIPERSONAL<br>DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV<br>EVENFLOW<br>HELSINGIN YLIOPISTO<br>ZENTRALANSTALT FÜR METEOROLOGIE UND GEODYNAMIK<br>UMWELTBUNDESAMT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG (UBA<br>GMBH)<br>HELMHOLTZ-ZENTRUM FÜR UMWELTFORSCHUNG GMBH – UFZ<br>ACADEMY OF ATHENS   |                 |            |



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|   | DEUTSCHER WETTERDIENST<br>VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.<br>OPEN GEOSPATIAL CONSORTIUM (EUROPE) LIMITED LBG<br>FONDAZIONE CENTRO EURO-MEDITERRANEOSUI CAMBIAMENTI CLIMATICI<br>UNIVERSITA DELLA CALABRIA<br>HELMHOLTZ-ZENTRUM GEESTHACHT ZENTRUM FUR MATERIAL- UND<br>KUSTENFORSCHUNG GMBH<br>INTEGRATED CARBON OBSERVATION SYSTEM EUROPEAN RESEARCH<br>INFRASTRUCTURECONSORTIUM<br>MASARYKOVA UNIVERZITA<br>DRAXIS ENVIRONMENTAL S.A.<br>TRANSMVALOR S.A.<br>DANMARKS TEKNISKE UNIVERSITET<br>UNIVERSITEIT TWENTE<br>MEKELLE UNIVERSITY<br>COLLECTE LOCALISATION SATELLITES<br>SVERIGES METEOROLOGiska OCH HYDROLOGiska INSTITUT<br>PLYMOUTH MARINE LABORATORY<br>LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY<br>INSTITUTO PORTUGUES DO MAR E DA ATMOSFERA IP<br>UNIVERSITAET BAYREUTH<br>ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS<br>STICHTING DELTARES<br>BIOSENSE INSTITUTE - RESEARCH AND DEVELOPMENT INSTITUTE FOR<br>INFORMATION TECHNOLOGIES IN BIOSYSTEMS<br>SCHWEIZERISCHES FORSCHUNGSIINSTITUT FUER HOCHGEBIRGSKLIMA UND<br>MEDIZIN IN DAVOS<br>CENTRE FOR ENVIRONMENT AND DEVELOPMENT FOR THE ARAB REGION<br>AND EUROPE<br>ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA<br>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS<br>CENTRO INTERNAZIONALE IN MONITORAGGIO AMBIENTALE - FONDAZIONE<br>CIMA<br>EUROGEOSURVEYS – EGS<br>PLANETEK ITALIA SRL<br>NEUROPUBLIC AE PLIROFORIKIS & EPIKOINONION<br>EUROPEAN UNION SATELLITE CENTRE<br>VEDURSTOFA ISLANDS<br>TEL AVIV UNIVERSITY<br>DIABALKANIKO KENTRO PERIBALLONTOS<br>MARTIN-LUTHER-UNIVERSITAET HALLE-WITTENBERG<br>SUOMEN YMPARISTOKESKUS<br>STICHTING WAGENINGEN RESEARCH<br>MARIENE INFORMATIE SERVICE MARIS BV<br>ASSOCIATION EUROPEENNE EURISY |
|   | <b>BUDGET</b> Overall budget: € 15 876 336,75 / EU contribution: € 14 998 976,27.  |
|  | <b>ACRONYM</b> ROBOMINERS  |
|   | <b>G.A. ID</b> 820971  |
|   | <b>CORDIS LINK</b> <a href="https://cordis.europa.eu/project/rcn/223247/factsheet/en">https://cordis.europa.eu/project/rcn/223247/factsheet/en</a>   |
|   | <b>WEBSITE</b> <a href="https://robominers.eu/">https://robominers.eu/</a>   |
|   | <b>STARTING DATE</b> 2019/06/01 <b>END DATE</b> 2023/05/31   |
|   | <b>COORDINATOR</b> <b>ENTITY:</b> UNIVERSIDAD POLITECNICA DE MADRID<br><b>CONTACT:</b> Claudio Rossi ( <a href="mailto:claudio.rossi@upm.es">claudio.rossi@upm.es</a> )  |
|   | <b>PARTNERS</b> TAMPEREEN KORKEAKOULUSAATIO SR<br>MONTANUNIVERSITAT LEOBEN<br>INSTITUT ROYAL DES SCIENCES NATURELLES DE BELGIQUE<br>ASSOCIAÇÃO PORTUGUESA DOS INDUSTRIALIS DE MARMORES E RAMOS AFINS<br>LA PALMA RESEARCH CENTRE FOR FUTURE STUDIES SL<br>MISKOLCI EGYESUM<br>FEDERATION EUROPEENNE DES GEOLOGUES  |

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|   |                      | GEOLOSKI ZAVOD SLOVENIJE<br>RESOURCES COMPUTING INTERNATIONAL LTD<br>GEO-MONTAN GEOLOGUS<br>KORNYEZETVEDOMEGUJULO ENERGETIKAI TOLMACSFORDITOKFT<br>TALLINNA TEHNIKAULIKOOL<br>POLSKA ACADEMIA NAUK INSTYTUT GOSPODARKI SUROWCAMI<br>MINERALNYMI I ENERGIA<br>K-UTEC AG SALT TECHNOLOGIES. |
|   | <b>BUDGET</b>        | € 7 445 900   |
| <br><b>ERA-MIN 2</b><br>RESEARCH & INNOVATION PROGRAMME ON RAW MATERIALS<br>TO FOSTER CIRCULAR ECONOMY | <b>ACRONYM</b>       | Gold_Insight  |
|   | <b>WEBSITE</b>       | -   |
|   | <b>STARTING DATE</b> | 2018/04/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Trinity College Dublin<br><b>CONTACT:</b> Linda Doyle ( <a href="mailto:dean.of.research@tcd.ie">dean.of.research@tcd.ie</a> )   |
|   | <b>PARTNERS</b>      | LULEÅ UNIVERSITY OF TECHNOLOGY<br>SWEDISH MUSEUM OF NATURAL HISTORY   |
|   | <b>BUDGET</b>        | Total cost: € 727 550 / Total requested funding: € 484 550  |
| <br><b>ERA-MIN 2</b><br>RESEARCH & INNOVATION PROGRAMME ON RAW MATERIALS<br>TO FOSTER CIRCULAR ECONOMY | <b>ACRONYM</b>       | LIGHTS  |
|   | <b>WEBSITE</b>       | -   |
|   | <b>STARTING DATE</b> | 2018/05/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Université de Lorraine<br><b>CONTACT:</b> Stéphanie Gallaire ( <a href="mailto:stephanie.gallaire@univ-lorraine.fr">stephanie.gallaire@univ-lorraine.fr</a> )  |
|   | <b>PARTNERS</b>      | FACULTY OF SCIENCES, UNIVERSITY OF PORTO<br>LABORATOIRE DE GÉOLOGIE DE LYON - UNIVERSITÉ LYON 1<br>HELMHOLTZ-ZENTRUM POTSDAM - DEUTSCHES GEOFORSCHUNGZENTRUM<br>BEAK CONSULTANTS GMBH   |
|   | <b>BUDGET</b>        | Total cost: € 1 547 140 / Total requested funding: € 1 189 919.   |
| <br><b>ROBUST</b>  | <b>ACRONYM</b>       | ROBUST  |
|   | <b>G.A. ID</b>       | 690416  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/199910/factsheet/en">https://cordis.europa.eu/project/rcn/199910/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="http://eu-robust.eu/">http://eu-robust.eu/</a>   |
|   | <b>STARTING DATE</b> | 2015/12/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> TWI LIMITED<br><b>CONTACT:</b> Graham Edwards ( <a href="mailto:graham.edwards@twi.co.uk">graham.edwards@twi.co.uk</a> )   |
| <br><b>MinFuture</b>   | <b>PARTNERS</b>      | CGG SERVICES SAS<br>ALS MARINE CONSULTANTS LTD<br>LZH LASERZENTRUM HANNOVER EV<br>HELMHOLTZ ZENTRUM FUR OZEANFORSCHUNG KIEL<br>GRAAL TECH SRL<br>NEOLASE GMBH<br>UNIVERSITA DEGLI STUDI DI GENOVA<br>CORONIS COMPUTING SL   |
|   | <b>BUDGET</b>        | € 5 986 722,50  |
|   | <b>ACRONYM</b>       | MinFuture   |
|   | <b>G.A. ID</b>       | 730330  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/206335/factsheet/en">https://cordis.europa.eu/project/rcn/206335/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="https://minfuture.eu/">https://minfuture.eu/</a>   |
| <br><b>MinFuture</b>   | <b>STARTING DATE</b> | 2016/12/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU<br><b>CONTACT:</b> Daniel Beat Müller ( <a href="mailto:daniel.mueller@ntnu.no">daniel.mueller@ntnu.no</a> )   |
|   | <b>PARTNERS</b>      | SYDDANSK UNIVERSITET<br>TECHNISCHE UNIVERSITAET WIEN<br>NATURAL ENVIRONMENT RESEARCH COUNCIL<br>UNITED KINGDOM RESEARCH AND INNOVATION<br>ECOLOGIC INSTITUT GEMEINNÜTZIGE GMBH<br>DELOITTE CONSEIL SAS<br>BIO INTELLIGENCE SERVICE<br>NORGES GEOLOGISKE UNDERSOKELSE                      |

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|   |                      | THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE<br>INSTYTUT GOSPODARKI SUROWCAMI MINERALNYMI I ENERGIA PAN<br>UNIVERZITA KARLOVA<br>UNIVERSITAT AUTONOMA DE BARCELONA<br>IFEU - INSTITUT FUR ENERGIE UND UMWELTFORSCHUNG HEIDELBERG GMBH<br>MINPOL GMBH<br>THE RITSUMEIKAN TRUST ACADEMIC JURIDICAL PERSON<br>MASSACHUSETTS INSTITUTE OF TECHNOLOGY<br>COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION |
|   | <b>BUDGET</b>        | Overall budget: € 1 162 835 // EU contribution: € 999 710  |
|  ENEX<br>(no logo)   | <b>ACRONYM</b>       | EnEx   |
|   | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/enex/">https://eitrawmaterials.eu/project/enex/</a>  |
|   | <b>STARTING DATE</b> | 2017/04/01 <b>END DATE</b> 2020/04/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Chalmers tekniska högskola AB<br><b>CONTACT:</b> <a href="mailto:chalmers@chalmers.se">chalmers@chalmers.se</a>   |
|   | <b>PARTNERS</b>      | DDH1 DRILLING<br>FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V. (FRAUNHOFER)<br>LTU BUSINESS AB<br>LULEÅ UNIVERSITY OF TECHNOLOGY (LTU)<br>MINALYZE AB<br>PLUTO INVESTMENT AG  |
|   | <b>ACRONYM</b>       | I-EDDA-TC  |
|  I-EDDA  | <b>CORDIS LINK</b>   | <a href="https://eitrawmaterials.eu/project/i-edda-tc/">https://eitrawmaterials.eu/project/i-edda-tc/</a>  |
|   | <b>WEBSITE</b>       | <a href="https://www.iudda.eu/">https://www.iudda.eu/</a>  |
|   | <b>STARTING DATE</b> | 2019/01/01 <b>END DATE</b> 2021/12/31  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Uppsala Universitet<br><b>CONTACT:</b> Alireza Malehmir ( <a href="mailto:Alireza.Malehmir@geo.uu.se">Alireza.Malehmir@geo.uu.se</a> )  |
|   | <b>PARTNERS</b>      | EPIROC ROCK DRILLS AB<br>HELMHOLTZ- ZENTRUM POTSDAM DEUTSCHES GEOFORSCHUNGZENTRUM GFZ<br>LTU BUSINESS AB<br>LULEÅ UNIVERSITY OF TECHNOLOGY (LTU)<br>LUND UNIVERSITY<br>RISE RESEARCH INSTITUTES OF SWEDEN AB<br>TECHNISCHE UNIVERSITÄT BERGAKADEMIE FREIBERG (TUBAF)   |
|   | <b>ACRONYM</b>       | InnoLOG  |
|  InnoLOG<br>INNOVATIVE GEOPHYSICAL LOGGING TOOLS FOR MINERAL EXPLORATION | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/innolog/">https://eitrawmaterials.eu/project/innolog/</a>  |
|   | <b>WEBSITE</b>       | <a href="http://innolog.eitrawmaterials.eu/">http://innolog.eitrawmaterials.eu/</a>  |
|   | <b>STARTING DATE</b> | 2017/04/01 <b>END DATE</b> 2020/03/31  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Agencia Estatal Consejo Superior de Investigaciones Científicas, CSIC<br><b>CONTACT:</b> Maria José Jurado ( <a href="mailto:mjurado@ictja.csic.es">mjurado@ictja.csic.es</a> )   |
|   | <b>PARTNERS</b>      | GENERAL COUNCIL OF THE CATALAN CHAMBERS OF COMMERCE<br>CONSIGLIO NAZIONALE DELLE RICERCHE (CNR)<br>GEOLOGICAL SURVEY OF SLOVENIA, GEOZS<br>GEOLOGICAL SURVEY OF SWEDEN, SGU<br>MAGNESITAS NAVARRAS S.A.<br>UNIVERSIDAD POLITECNICA DE CATALUNYA (UPC SARTI)<br>UNIVERSIDAD POLITECNICA DE MADRID, UPM  |
|   | <b>ACRONYM</b>       | MAP  |
|  MAP<br>Mineral Resource Assessment Platform                             | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/innolog/">https://eitrawmaterials.eu/project/innolog/</a>  |
|   | <b>WEBSITE</b>       | <a href="http://innolog.eitrawmaterials.eu/">http://innolog.eitrawmaterials.eu/</a>  |
|   | <b>STARTING DATE</b> | 2018/01/01 <b>END DATE</b> 2021/03/21  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Agencia Estatal Consejo Superior de Investigaciones Científicas, CSIC<br><b>CONTACT:</b> Maria José Jurado ( <a href="mailto:mjurado@ictja.csic.es">mjurado@ictja.csic.es</a> )   |
|   | <b>PARTNERS</b>      | GENERAL COUNCIL OF THE CATALAN CHAMBERS OF COMMERCE<br>CONSIGLIO NAZIONALE DELLE RICERCHE (CNR)<br>GEOLOGICAL SURVEY OF SLOVENIA, GEOZS<br>GEOLOGICAL SURVEY OF SWEDEN, SGU  |

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|   |               | MAGNESITAS NAVARRAS S.A.<br>UNIVERSIDAD POLITECNICA DE CATALUNYA (UPC SARTI)<br>UNIVERSIDAD POLITECNICA DE MADRID, UPM   |
|  MULSEDRO<br>(no logo) | ACRONYM       | MULSEDRO   |
|   | EIT LINK      | <a href="https://eitrawmaterials.eu/project/mulsedro/">https://eitrawmaterials.eu/project/mulsedro/</a>  |
|   | STARTING DATE | 2017/04/01   |
|   | COORDINATOR   | ENTITY: GEOLOGIAN TUTKIMUSKESKUS (GTK)<br>CONTACT: Juha Kaja ( <a href="mailto:juha.kaja@gtk.fi">juha.kaja@gtk.fi</a> )  |
|   | PARTNERS      | DMT GMBH & CO. KG<br>GEOLOGICAL SURVEY OF DENMARK AND GREENLAND, GEUS<br>HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF E.V. (HZDR)<br>LTU BUSINESS AB<br>RADAI OY   |
|  RESEERVE              | ACRONYM       | RESEERVE   |
|   | EIT LINK      | <a href="https://eitrawmaterials.eu/project/reseerve/">https://eitrawmaterials.eu/project/resevere/</a>  |
|   | STARTING DATE | 2018/04/01   |
|   | COORDINATOR   | ENTITY: Geological Survey of Slovenia (GeoZS)<br>CONTACT: Duška Rokavec ( <a href="mailto:duska.rokavec@geo-zs.si">duska.rokavec@geo-zs.si</a> )   |
|   | PARTNERS      | DMT GMBH & CO. KG<br>NATIONAL TECHNICAL UNIVERSITY OF ATHENS (NTUA)<br>UNIVERSITY OF ZAGREB – FACULTY OF MINING, GEOLOGY AND PETROLEUM ENGINEERING<br>MONTANUNIVERSITÄT LEOBEN<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES – BRGM (THE FRENCH GEOLOGICAL SURVEY)<br>GEOLOGICAL SURVEY OF DENMARK AND GREENLAND (GEUS)<br>CROATIAN GEOLOGICAL SURVEY<br>GEOLOGICAL SURVEY OF ALBANIA<br>GEOLOGICAL SURVEY OF MONTENEGRO (GSM)<br>UNIVERSITY OF BELGRADE – FACULTY OF MINING AND GEOLOGY<br>GEOLOGICAL SURVEY OF THE FEDERATION OF BOSNIA AND HERZEGOVINA<br>GEOLOGICAL SURVEY OF THE REPUBLIC OF MACEDONIA, FYRO<br>GEOLOGICAL SURVEY OF THE REPUBLIC OF SRPSKA |
|  VISUAL<br>3D        | ACRONYM       | Visual3D   |
|   | EIT LINK      | <a href="https://eitrawmaterials.eu/project/visual3d/">https://eitrawmaterials.eu/project/visual3d/</a>  |
|   | WEBSITE       | <a href="https://www.visual3d.info/">https://www.visual3d.info/</a>  |
|   | STARTING DATE | 2017/04/01   |
|   | COORDINATOR   | ENTITY: Luleå University of Technology (LTU)<br>CONTACT: Tobias C. Kampmann ( <a href="mailto:tobias.kampmann@ltu.se">tobias.kampmann@ltu.se</a> )   |
|   | PARTNERS      | BOLIDEN MINERAL AB<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES, BRGM<br>DMT GMBH & CO. KG<br>GEOLOGIAN TUTKIMUSKESKUS, GTK<br>GEOLOGICAL SURVEY OF DENMARK AND GREENLAND, GEUS<br>KGHM CUPRUM SP. Z O.O. CENTRUM BADAWCZO-ROZWOJOWE<br>MONTANUNIVERSITÄT LEOBEN<br>RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN, RWTH AACHEN<br>TALLINNA TEHNICAÜLIKOOL, TTÜ – TALLINN UNIVERSITY OF TECHNOLOGY<br>TECHNISCHE UNIVERSITÄT BERGAKADEMIE FREIBERG (TUBAF)<br>UNIVERSITY OF TURKU<br>UPPSALA UNIVERSITET (UPPSALA UNIVERSITY)<br>ZAVOD ZA GRADBENISTVO SLOVENIJE, ZAG   |

**TABLE 17- Comprehensive information of projects linked to TARANTULA (Project category: Circular economy)**

|   |                      |  |
|---|----------------------|--|
|    | <b>ACRONYM</b>       | CICERONE   |
|   | <b>G.A. ID</b>       | 820707   |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/218531/factsheet/en">https://cordis.europa.eu/project/rcn/218531/factsheet/en</a>  |
|   | <b>WEBSITE</b>       | <a href="http://cicerone-h2020.eu/">http://cicerone-h2020.eu/</a>  |
|   | <b>STARTING DATE</b> | 2018/11/01   |
|   |                      | <b>END DATE</b>  |
|   |                      | 2020/10/31   |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> EIT CLIMATE-KIC SL<br><b>CONTACT:</b> Cliona Howie ( <a href="mailto:cliona.howie@climate-kic.org">cliona.howie@climate-kic.org</a> )   |
|   | <b>PARTNERS</b>      | BLUENOVE<br>COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES<br>CENTRE FOR EUROPEAN POLICY STUDIES<br>EIT RAW MATERIALS GMBH<br>AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO<br>ECONOMICO SOSTENIBILE<br>SIHTASUTUS EESTI TEADUSAGENTUUR<br>GEOKOMPETENZZENTRUM FREIBERG EV<br>INSTYTUT EKOLOGII TERENOW UPRZEMYSLOWIONYCH<br>IVL SVENSKA<br>ILJOEINSTITUTET AB<br>FORSCHUNGSZENTRUM JULICH GMBH<br>LGI CONSULTING<br>NATIONAL CHENG KUNG UNIVERSITY<br>PNO CONSULTANTS BV<br>MINISTERIE VAN ECONOMISCHE ZAKEN EN KLIMAAT<br>ASSOTSATSIA ZA RAZVITIE NA SOFIA<br>NEDERLANDSE ORGANISATIE VOOR TOEGEPAST<br>NATUURWETENSCHAPPELIJK ONDERZOEK TNO<br>UNITATEA EXECUTIVA PENTRU FINANTAREA INVATAMANTULUI SUPERIOR, A<br>CERCETARII, DEZVOLTARII SI INOVARII<br>UNIVERZA V MARIBORU<br>VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.<br>TEKNOLOGIAN TUTKIMUSKESKUS VTT OY<br>WUPPERTAL INSTITUT FUR KLIMA<br>UMWELT<br>ENERGIE GMBH<br>WORLD RESOURCES FORUM ASSOCIATION<br>CONSELLERIA DE MEDIO AMBIENTE E ORDENACION DO TERRITORIO - XUNTA<br>DE GALICIA |
|   | <b>BUDGET</b>        | Overall budget: € 2 027 611,25 / EU contribution: € 1 998 860  |
|  | <b>ACRONYM</b>       | NEMO   |
|   | <b>G.A. ID</b>       | 776846   |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/214771/factsheet/en">https://cordis.europa.eu/project/rcn/214771/factsheet/en</a>  |
|   | <b>WEBSITE</b>       | <a href="https://h2020-nemo.eu/">https://h2020-nemo.eu/</a>  |
|   | <b>STARTING DATE</b> | 2018/05/01   |
|   |                      | <b>END DATE</b>  |
|   |                      | 2022/04/30   |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Teknologian tutkimuskeskus VTT Oy<br><b>CONTACT:</b> Mika Paajanen ( <a href="mailto:Mika.Paajanen@vtt.fi">Mika.Paajanen@vtt.fi</a> )   |
|   | <b>PARTNERS</b>      | VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.<br>OPTIMIZACION ORIENTADA A LA SOSTENIBILIDAD SL<br>KATHOLIEKE UNIVERSITEIT LEUVEN<br>TERRAFAME GROUP OY<br>THYSSENKRUPP INDUSTRIAL SOLUTIONS AG<br>RESOURCEFULL<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>SKYSCAPE OY<br>JACOBS NV<br>COBRE LAS CRUCES SA<br>INSTITUTUL NATIONAL DE CERCETARE-DEZVOLTARE PENTRU METALE<br>NEFEROASE SIRARE-IMNR<br>COMITE ACADEMICO TECNICO DE ASESORAMIENTO A PROBLEMAS<br>AMBIENTALES VZW<br>THE UNIVERSITY OF EXETER   |

|   |               |   |
|---|---------------|---|
|   |               | DMT GMBH & CO. KG   |
|   | BUDGET        | Overall budget: € 14 941 396,50 / EU contribution: € 12 407 294,63  |
|    | ACRONYM       | CEWASTE   |
|   | G.A. ID       | 820859  |
|   | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/218283/factsheet/en">https://cordis.europa.eu/project/rcn/218283/factsheet/en</a>   |
|   | WEBSITE       | <a href="https://cewaste.eu/">https://cewaste.eu/</a>   |
|   | STARTING DATE | 2018/11/01  |
|   |               | END DATE  |
|   |               | 2020/10/31  |
|   | COORDINATOR   | <b>ENTITY:</b> WORLD RESOURCES FORUM ASSOCIATION<br><b>CONTACT:</b> Shahrzad Manoochehri<br><a href="mailto:shahrzad.manoochehri@wforum.org">shahrzad.manoochehri@wforum.org</a>  |
|   | PARTNERS      | OEKO-INSTITUT E.V. - INSTITUT FUER ANGEWANDTE OEKLOGIE<br>SOFIES SA<br>UNITED NATIONS UNIVERSITY<br>WASTE OF ELECTRICAL AND ELECTRONICAL EQUIPMENT FORUM AISBL<br>AUSTRIAN STANDARDS INTERNATIONAL<br>EUROPEAN ELECTRONICS RECYCLERS ASSOCIATION<br>EUROPEAN ENVIRONMENTAL CITIZENS ORGANISATION FOR<br>STANDARDISATION<br>SGS FIMKO OY   |
|   | BUDGET        | € 1 924 717,50  |
|  | ACRONYM       | ADIR  |
|   | G.A. ID       | 680449  |
|   | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/198364/factsheet/en">https://cordis.europa.eu/project/rcn/198364/factsheet/en</a>   |
|   | WEBSITE       | <a href="https://www.adir.eu/">https://www.adir.eu/</a>   |
|   | STARTING DATE | 2015/09/01  |
|   |               | END DATE  |
|   |               | 2019/08/31  |
|   | COORDINATOR   | <b>ENTITY:</b> FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER<br>ANGEWANDTEN FORSCHUNG E.V.<br><b>CONTACT:</b> Reinhard Noll ( <a href="mailto:reinhard.noll@ilt.fraunhofer.de">reinhard.noll@ilt.fraunhofer.de</a> )   |
|   | PARTNERS      | SIEC BADAWCZA LUKASIEWICZ - INSTYTUT METALI NIEZELAZNYCH<br>ELECTROCYCLING GMBH<br>PRO AUTOMATION GMBH<br>I-CUBE RESEARCH<br>OSAI AUTOMATION SYSTEM SPA<br>LSA-LASER ANALYTICAL SYSTEMS & AUTOMATION GMBH<br>H.C. STARCK GMBH<br>AURUBIS AG<br>TRE TAU ENGINEERING SRL<br>H.C. STARCK TANTALUM AND NIOBIUM GMBH.  |
|   | BUDGET        | Overall budget: € 6 504 763,39 / EU contribution: € 5 262 200,39  |
|  | ACRONYM       | SUSMAGPRO   |
|   | G.A. ID       | 821114  |
|   | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/223261/factsheet/en">https://cordis.europa.eu/project/rcn/223261/factsheet/en</a>   |
|   | WEBSITE       | -   |
|   | STARTING DATE | 2019/06/01  |
|   |               | END DATE  |
|   |               | 2023/05/31  |
|   | COORDINATOR   | <b>ENTITY:</b> HOCHSCHULE PFORZHEIM<br><b>CONTACT:</b> Ulrich Jautz ( <a href="mailto:ulrich.jautz@hs-pforzheim.de">ulrich.jautz@hs-pforzheim.de</a> )  |
|   | PARTNERS      | THE UNIVERSITY OF BIRMINGHAM<br>STENA RECYCLING INTERNATIONAL AB<br>RISE RESEARCH INSTITUTES OF SWEDEN AB<br>INSERMA ANOIA SL<br>LESS COMMON METALS LIMITED<br>MIMPLUS TECHNOLOGIES GMBH & CO KG<br>MAGNETI LJUBLJANA PODJETJE ZA PROIZVODNJO MAGNETNIH MATERIALOV DD<br>KOLEKTOR MAGNET TECHNOLOGY GMBH<br>ZF FRIEDRICHSHAFEN AG<br>B&C SPEAKERS<br>GRUNDFOS HOLDING AS<br>BUNTING MAGNETICS EUROPE LIMITED<br>UNIVERSITEIT LEIDEN |

|   |                      |   |                 |            |
|---|----------------------|---|-----------------|------------|
|   |                      | FOTEC FORSCHUNGS- UND TECHNOLOGIETRANSFER GMBH<br>SENNHEISER ELECTRONIC GMBH & CO KG<br>MONTANUNIVERSITAT LEOBEN<br>INSTITUT JOZEF STEFAN<br>STEINBEIS INNOVATION GGMBH   |                 |            |
|   |                      | <b>BUDGET</b><br>Overall budget: € 14 741 592,11 / EU contribution: € 12 977 445,62   |                 |            |
|    | <b>ACRONYM</b>       | TRIS  |                 |            |
|   | <b>WEBSITE</b>       | <a href="https://www.interregeurope.eu/tris/">https://www.interregeurope.eu/tris/</a>   |                 |            |
|   | <b>STARTING DATE</b> | 2016/04/01  | <b>END DATE</b> | 2021/03/31 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Birmingham City Council<br><b>CONTACT:</b> Ian MacLeod ( <a href="mailto:ian.macLeod@birmingham.gov.uk">ian.macLeod@birmingham.gov.uk</a> )  |                 |            |
|   | <b>PARTNERS</b>      | EMILIA-ROMAGNA REGION-GENERAL DIRECTORATE FOR TERRITORIAL AND ENVIRONMENTAL CARE<br>ASTER INNOVACIONE ATTIVA<br>VALENCIAN INSTITUTE OF BUSINESS COMPETITIVENESS<br>ENERGY AGENCY FOR SOUTHEAST SWEDEN<br>IFKA PUBLIC BENEFIT NON-PROFIT LIMITED FOR THE DEVELOPMENT OF INDUSTRY<br>HERMAN OTTO INSTITUTE<br>INDUSTRIAL SYMBIOSIS LIMITED<br>AIDIMME INSTITUTE OF TECHNOLOGY<br>METALMECHANIC, FURNITURE, WOOD, PACKAGING AND ALLIED |                 |            |
|   | <b>BUDGET</b>        | €1 848 850.   |                 |            |
|  | <b>ACRONYM</b>       | SYMBI   |                 |            |
|   | <b>WEBSITE</b>       | <a href="https://www.interregeurope.eu/symbi/">https://www.interregeurope.eu/symbi/</a>   |                 |            |
|   | <b>STARTING DATE</b> | 2016/04/01  | <b>END DATE</b> | 2021/03/31 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Fundation FUNDECYT Scientific and Technological Park of Extremadura<br><b>CONTACT:</b> Maria Gracia Benitez Jaramillo <a href="mailto:gracia.benitez@fundecyt-pctex.es">gracia.benitez@fundecyt-pctex.es</a>   |                 |            |
|   | <b>PARTNERS</b>      | REGIONAL MINISTRY OF AGRICULTURE, LIVESTOCK, FISHERIES AND SUSTAINABLE DEVELOPMENT<br>THE MAŁOPOLSKA REGION POLAND<br>CHAMBER OF COMMERCE OF MOLISE<br>GOVERNMENT OFFICE FOR DEVELOPMENT AND EUROPEAN COHESION POLICY<br>MUNICIPALITY OF KOZANI<br>DEVELOPMENT AND PLANNING BUREAU<br>PANNON NOVUM WEST-TRANS DANUBIAN REGIONAL INNOVATION NON-PROFIT LTD<br>REGIONAL COUNCIL OF HAME<br>HAME UNIVERSITY OF APPLIED SCIENCES LTD.   |                 |            |
|   | <b>BUDGET</b>        | €1,599,365.00   |                 |            |
|  | <b>ACRONYM</b>       | CloseWEEE   |                 |            |
|   | <b>G.A. ID</b>       | 641747  |                 |            |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/193849/factsheet/en">https://cordis.europa.eu/project/rcn/193849/factsheet/en</a>   |                 |            |
|   | <b>WEBSITE</b>       | <a href="http://closewegee.eu/">http://closewegee.eu/</a>   |                 |            |
|   | <b>STARTING DATE</b> | 2014/12/01  | <b>END DATE</b> | 2018/11/30 |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.<br><b>CONTACT:</b> Karsten Schischke ( <a href="mailto:Karsten.Schischke@izm.fraunhofer.de">Karsten.Schischke@izm.fraunhofer.de</a> )  |                 |            |
|   | <b>PARTNERS</b>      | VERTECH GROUP<br>COOLREC BV<br>FUNDACION GAIKER<br>ARGUS ADDITIVE PLASTICS GMBH<br>TP VISION BELGIUM NV<br>FUNDACION TECNALIA RESEARCH & INNOVATION<br>EXERGY LTD<br>IFIXIT GMBH<br>ACCUREC-RECYCLING GMBH<br>DIE WIENER VOLKSHOCHSCHULEN GMBH  |                 |            |

|   |               |   |
|---|---------------|---|
|   |               | SITRAPLAS GMBH<br>PHILIPS CONSUMER LIFESTYLE BV   |
|   | BUDGET        | € 5 890 660   |
| ALSiment<br>(no logo)   | ACRONYM       | ALSiment  |
|   | G.A. ID       | 773577  |
|   | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/210652/factsheet/es">https://cordis.europa.eu/project/rcn/210652/factsheet/es</a>   |
|   | WEBSITE       | <a href="http://gerosion.com/projects">http://gerosion.com/projects</a>   |
|   | STARTING DATE | 2017/05/01  |
|   | COORDINATOR   | ENTITY: GEROSION EHF<br>CONTACT: <a href="mailto:info@gerosion.com">info@gerosion.com</a>   |
|   | BUDGET        | Overall budget: € 71 429 / EU contribution: € 50 000  |
|   |               |   |
| <br><b>CABRISS</b> | ACRONYM       | CABRISS   |
|   | G.A. ID       | 641972  |
|   | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/196816/factsheet/en">https://cordis.europa.eu/project/rcn/196816/factsheet/en</a>   |
|   | WEBSITE       | <a href="https://www.spire2030.eu/cabriss/">https://www.spire2030.eu/cabriss/</a>   |
|   | STARTING DATE | 2015/06/01  |
|   | COORDINATOR   | ENTITY: COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES<br>CONTACT: Luc Federzoni ( <a href="mailto:luc.federzoni@cea.fr">luc.federzoni@cea.fr</a> )   |
|   | PARTNERS      | STIFTELSEN SINTEF<br>INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM<br>LOSER CHEMIE GMBH<br>FERROATLANTICA I & D SL<br>UAB SOLI TEK R&D<br>PYROGENESIS SA<br>RHP TECHNOLOGY GMBH<br>RESITEC AS<br>TECHNISCHE UNIVERSITAET WIEN<br>SUNPLUGGED - SOLARE ENERGIESYSTEME GMBH<br>FRAUNHOFER GESELLSCHAFT<br>PV CYCLE FRANCE<br>INKRON OY<br>ECM GREENTECH<br>SINTEF AS   |
|   | BUDGET        | Overall budget: € 9 266 682,65 / EU contribution: € 7 844 564,54  |
|   |               |   |
| <br><b>Hiser</b> | ACRONYM       | HISER   |
|   | G.A. ID       | 642085  |
|   | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/196611/factsheet/en">https://cordis.europa.eu/project/rcn/196611/factsheet/en</a>   |
|   | WEBSITE       | <a href="http://www.hiserproject.eu/">http://www.hiserproject.eu/</a>   |
|   | STARTING DATE | 2015/02/01  |
|   | COORDINATOR   | ENTITY: FUNDACION TECNALIA RESEARCH & INNOVATION<br>CONTACT: David García ( <a href="mailto:david.garcia@tecnalia.com">david.garcia@tecnalia.com</a> )  |
|   | PARTNERS      | ACCIONA CONSTRUCCION SA<br>GROUPE ARCHIMEN<br>ASM - CENTRUM BADAN I ANALIZ RYNKU SPOLKA Z OGRANICZONA<br>ODPOWIEDZIALNOSCIA<br>CONENOR OY<br>RINA CONSULTING SPA<br>DUMOULIN BRICKS<br>INASHCO R&D B.V<br>KNAUF GMBH<br>KS LAATUENERGIA OY<br>LAFARGE CENTRE DE RECHERCHE SAS<br>MEBIN BV<br>RINA SERVICES SPA<br>RTT STEINERT GMBH<br>STRUKTON CIVIEL BV<br>TIIHONEN ISMO<br>CONFEDERATION NATIONALE DE LA CONSTRUCTION ASBL<br>SOCIEDAD PUBLICA DE GESTION AMBIENTAL IHODE SA |

|   |                      |   |
|---|----------------------|---|
|   |                      | BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>UNIVERSITEIT LEIDEN<br>FUNDACION GAIKER<br>TECHNISCHE UNIVERSITEIT DELFT<br>VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.<br>TEKNOLOGIAN TUTKIMUSKESKUS VTT OY<br>TEKNOLOGIAN TUTKIMUSKESKUS VTT<br>SELFRAF AG<br>ADR TECHNOLOGY BV  |
|   | <b>BUDGET</b>        | Overall budget: € 7 665 262,50 / EU contribution: € 7 511 870   |
| <b>METALLICA</b><br><i>(no logo)</i>  | <b>ACRONYM</b>       | METALLICA   |
|   | <b>G.A. ID</b>       | 781060  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/211253/factsheet/en">https://cordis.europa.eu/project/rcn/211253/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="https://www.urbangold.at/">https://www.urbangold.at/</a>   |
|   | <b>STARTING DATE</b> | 2018/08/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> URBANGOLD GMBH<br><b>CONTACT:</b> <a href="mailto:recycling@urbangold.at">recycling@urbangold.at</a>   |
|   | <b>BUDGET</b>        | Overall budget: € 71 429 / EU contribution: € 50 000  |
| <b>MRP</b><br><i>(no logo yet)</i>  | <b>ACRONYM</b>       | MRP   |
|   | <b>G.A. ID</b>       | 858064  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/224152/factsheet/en">https://cordis.europa.eu/project/rcn/224152/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="https://www.guidettisrl.com/en/">https://www.guidettisrl.com/en/</a>   |
|   | <b>STARTING DATE</b> | 2017/11/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> GUIDETTI SRL<br><b>CONTACT:</b> <a href="mailto:info@guidettisrl.com">info@guidettisrl.com</a>   |
|   | <b>BUDGET</b>        | Overall budget: € 2 723 904,50 / EU contribution: € 1 906 733,15  |
| <b>ULTROSLAG</b><br><i>(no logo)</i>  | <b>ACRONYM</b>       | Ultroslag   |
|   | <b>G.A. ID</b>       | 651407  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/196637/factsheet/en">https://cordis.europa.eu/project/rcn/196637/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="https://www.ultromex.com/">https://www.ultromex.com/</a>   |
|   | <b>STARTING DATE</b> | 2014/10/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> ULTROMEX LTD<br><b>CONTACT:</b> <a href="mailto:sales@ultromex.com">sales@ultromex.com</a>   |
|   | <b>BUDGET</b>        | Overall budget: € 71 429 / EU contribution: € 50 000  |
| <b>SOLVOFLEX</b><br><i>(no logo)</i>  | <b>ACRONYM</b>       | SOLVOFLEX   |
|   | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/solvoflex/">https://eitrawmaterials.eu/project/solvoflex/</a>   |
|   | <b>WEBSITE</b>       | <a href="http://www.zerowastecluster.eu/partner-networks/solvoflex/">http://www.zerowastecluster.eu/partner-networks/solvoflex/</a>   |
|   | <b>STARTING DATE</b> | 2016/01/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Teknologian tutkimuskeskus VTT<br><b>CONTACT:</b> Juha Kaija ( <a href="mailto:juha.kaija@gtk.fi">juha.kaija@gtk.fi</a> )  |
|   | <b>PARTNERS</b>      | AALTO-KORKEAKOULUSAATIO (AALTO UNIVERSITY)<br>FUNDACIÓN TECNALIA RESEARCH & INNOVATION<br>INSTYTUT METALI NIEZELAZNYCH, IMN (INSTITUTE OF NON-FERROUS METALS)<br>IVL SVENSKA MILJOEINSTITUTET AB (IVL SWEDISH ENVIRONMENTAL RESEARCH INSTITUTE)<br>KATHOLIEKE UNIVERSITEIT TE LEUVEN (KU LEUVEN)<br>LAPPEENRANTA UNIVERSITY OF TECHNOLOGY<br>LULEÅ UNIVERSITY OF TECHNOLOGY (LTU)<br>OUTOTEC OY<br>RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN (RWTH AACHEN)<br>VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK NV |
|   | <b>ACRONYM</b>       | REE4EU  |
|  | <b>G.A. ID</b>       | 680507  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/id/680507">https://cordis.europa.eu/project/id/680507</a>   |
|   | <b>WEBSITE</b>       | <a href="http://www.ree4eu.eu/">http://www.ree4eu.eu/</a>   |
|   | <b>STARTING DATE</b> | 2015/10/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> SINTEF AS  |
|   | <b>END DATE</b>      | 2019/09/30  |

|               |   |
|---------------|---|
|               | <b>CONTACT:</b> Ana María Martínez ( <a href="mailto:AnaMaria.Martinez@sintef.no">AnaMaria.Martinez@sintef.no</a> ) |
| <b>BUDGET</b> | Overall budget: € 9 063 772,50 / EU contribution: € 7 522 490,63  |

**TABLE 18- Comprehensive information of projects linked to TARANTULA (Project category: Substitution of materials and extreme conditions)**

|   |                      |   |
|---|----------------------|---|
|    | <b>ACRONYM</b>       | Flintstone2020  |
|   | <b>G.A. ID</b>       | 689279  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/199891/factsheet/en">https://cordis.europa.eu/project/rcn/199891/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="https://flintstone2020.eu/">https://flintstone2020.eu/</a>   |
|   | <b>STARTING DATE</b> | 2016/02/01  |
|   |                      | <b>END DATE</b>   |
|   |                      | 2020/01/31  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> LUNDUS UNIVERSITET<br><b>CONTACT:</b> Volodymyr Bushlya ( <a href="mailto:volodymyr.bushlya@iprod.lth.se">volodymyr.bushlya@iprod.lth.se</a> )   |
|   | <b>PARTNERS</b>      | TECHNISCHE UNIVERSITAET BERGAKADEMIE FREIBERG<br>V.N. BAKUL INSTITUTE FOR SUPERHARD MATERIALS OF THE NATIONAL ACADEMY OF SCIENCES<br>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS<br>BIFA UMWELTINSTITUT GMBH<br>SECO TOOLS AB<br>ELEMENT SIX (UK) LIMITED<br>BOUKJE.COM CONSULTING BV<br>SANDVIK MINING & CONSTRUCTION TOOLS AB                           |
|   | <b>BUDGET</b>        | € 4 996 180   |
|  | <b>ACRONYM</b>       | EQUINOX   |
|   | <b>G.A. ID</b>       | 689510  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/199894/factsheet/en">https://cordis.europa.eu/project/rcn/199894/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="http://equinox-project.eu">http://equinox-project.eu</a>   |
|   | <b>STARTING DATE</b> | 2016/02/01  |
|   |                      | <b>END DATE</b>   |
|   |                      | 2019/07/31  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA<br><b>CONTACT:</b> Costas A. Charitidis ( <a href="mailto:charitidis@chemeng.ntua.gr">charitidis@chemeng.ntua.gr</a> )  |
|   | <b>PARTNERS</b>      | ELASTOTEC GMBH ELASTOMERTECHNIKEN<br>DR. KOCHANEK ENTWICKLUNGSGESELLSCHAFT<br>FUNDACION IMDEA MATERIALES<br>TECHNICKA UNIVERZITA V LIBERCI<br>ACCESS E.V.<br>OPEN SOURCE MANAGEMENT LIMITED<br>CES OPERATION AS<br>FRENI BREMBO SPA<br>DERZHAVNE PIDPRIEMSTVO "KONSTRUKTORSKE BYURO "PIVDENIE" IM. M.K.YANGELYA" INNOVATION IN RESEARCH & ENGINEERING SOLUTIONS |
|   | <b>BUDGET</b>        | € 4 678 345   |
|  | <b>ACRONYM</b>       | FASTRAM   |
|   | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/fastram/">https://eitrawmaterials.eu/project/fastram/</a>   |
|   | <b>WEBSITE</b>       | <a href="https://www.fastram.eu/">https://www.fastram.eu/</a>   |
|   | <b>STARTING DATE</b> | 2017/04/01  |
|   |                      | <b>END DATE</b>   |
|   |                      | 2020/03/31  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Fundación Tecnalia Research & Innovation<br><b>CONTACT:</b> Amal Siriwardana ( <a href="mailto:Amal.Siriwardana@tecnalia.com">Amal.Siriwardana@tecnalia.com</a> )  |
|   | <b>PARTNERS</b>      | ALEACIONES DE METALES SINTETIZADOS, S.A. (AMES)<br>EXOTE OY<br>H.C. STARCK GMBH<br>METSO MINERALS OY<br>TEKNOLOGIAN TUTKIMUSKESKUS VTT  |
|   | <b>ACRONYM</b>       | EXTREME   |
|   | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/extreme/">https://eitrawmaterials.eu/project/extreme/</a>   |
|  | <b>WEBSITE</b>       | <a href="http://www.network-extreme.eu/">http://www.network-extreme.eu/</a>   |
|   | <b>STARTING DATE</b> | 2016/03/15  |
|   |                      | <b>END DATE</b>   |
|   |                      | 2018/12/31  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Agenzia Nazionale per le Nuove Tecnologie, l'Energia e lo Sviluppo Economico Sostenibile (ENEA)<br><b>CONTACT:</b> Daniele Valerini ( <a href="mailto:daniele.valerini@enea.it">daniele.valerini@enea.it</a> )   |

|                                    |                      |  |
|------------------------------------|----------------------|--|
|                                    | <b>PARTNERS</b>      | BAY ZOLTAN NONPROFIT LTD. FOR APPLIED RESEARCH<br>FUNDACIÓN TECNALIA RESEARCH & INNOVATION<br>INSTYTUT METALI NIEZELAZNYCH, IMN (INSTITUTE OF NON-FERROUS METALS)<br>SANDVIK AB<br>TECHNISCHE UNIVERSITEIT DELFT (TU DELFT, DELFT UNIVERSITY OF TECHNOLOGY)<br>TEKNOLOGIAN TUTKIMUSKESKUS VTT (TECHNICAL RESEARCH CENTRE OF FINLAND LTD. VTT)<br>UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA (UNIVERSITY OF MILANO-BICOCCA)<br>ZAVOD ZA GRADBENISTVO SLOVENIJE, ZAG |
| <b>MIRACLE</b><br><i>(no logo)</i> | <b>ACRONYM</b>       | MiRaCLE  |
|                                    | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/miracle/">https://eitrawmaterials.eu/project/miracle/</a>  |
|                                    | <b>STARTING DATE</b> | 2016/01/01   |
|                                    | <b>COORDINATOR</b>   | <b>ENTITY:</b> Consiglio Nazionale delle Ricerche<br><b>CONTACT:</b> <a href="mailto:protocollo-ammcen@pec.cnr.it">protocollo-ammcen@pec.cnr.it</a>  |
|                                    | <b>PARTNERS</b>      | AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC)<br>TECHNICAL UNIVERSITY OF MADRID (UPM)<br>UNIVERSITY OF BOLOGNA<br>UNIVERSITY OF MILANO-BICOCCA  |

**TABLE 19- Comprehensive information of projects linked to TARANTULA (Project category: Minerals supply information)**

|   |                      |   |
|---|----------------------|---|
|  | <b>ACRONYM</b>       | ORAMA   |
|   | <b>G.A. ID</b>       | 776517  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/213522/factsheet/en">https://cordis.europa.eu/project/rcn/213522/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="https://orama-h2020.eu/">https://orama-h2020.eu/</a>   |
|   | <b>STARTING DATE</b> | 2017/12/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> GEOLOGIAN TUTKIMUSKESKUS (GTK)<br><b>CONTACT:</b> Perttu Mikkola ( <a href="mailto:perttu.mikkola@gtk.fi">perttu.mikkola@gtk.fi</a> )  |
|   | <b>PARTNERS</b>      | BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>CHALMERS TEKNiska HOEGSKOLA AB<br>COMMUNICATIONS, CLIMATE ACTION AND ENVIRONMENTS<br>EIDGENOSSISCHE MATERIALPRUFUNGS- UND FORSCHUNGSASTALT<br>GEOLOSKI ZAVOD SLOVENIJE<br>GEOLOGICAL SURVEY OF DENMARK AND GREENLAND<br>INSTITUTO GEOLÓGICO Y MINERO DE ESPAÑA<br>JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION<br>MINING AND GEOLOGICAL SURVEY OF HUNGARY<br>UNITED KINGDOM RESEARCH AND INNOVATION<br>NATURAL ENVIRONMENT RESEARCH COUNCIL<br>NORGES GEOLOGISKE UNDERSØKELSE<br>TECHNISCHE UNIVERSITÄT BERLIN<br>UNIVERSITEIT LEIDEN, UNITED NATIONS UNIVERSITY<br>WASTE OF ELECTRICAL AND ELECTRONICAL EQUIPMENT FORUM AISBL |
|   | <b>BUDGET</b>        | € 1 731 230   |
|   | <b>ACRONYM</b>       | X-MINE  |
|   | <b>G.A. ID</b>       | 730270  |
|  | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/210175/factsheet/en">https://cordis.europa.eu/project/rcn/210175/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="http://www.xmine.eu/">http://www.xmine.eu/</a>   |
|   | <b>STARTING DATE</b> | 2017/06/01  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Teknologian tutkimuskeskus VTT Oy<br><b>CONTACT:</b> Jouko Malinen ( <a href="mailto:jouko.malinen@vtt.fi">jouko.malinen@vtt.fi</a> )  |
|   | <b>PARTNERS</b>      | OREXPLORÉ AB<br>ADVACAM OY<br>ADVACAM SRO<br>ANTMICRO SP. Z O. O.   |

|   |                      |  |
|---|----------------------|--|
|   |                      | SWICK MINING SERVICES LTD<br>LOVISAGRUVAN AB<br>HELLAS GOLD S.A.<br>ASAREL MEDET AD<br>HELLENIC COPPER MINES LTD<br>SVERIGES GEOLOGISKA UNDERSOKNING<br>INSTITUTUL GEOLOGIC AL ROMANIEI<br>UPPSALA UNIVERSITY<br>BERGSKRAFT BERGSLAGEN AB<br>COMEX POLSKA SPOLKA Z OGROMICZONA ODPOWIEDZIALNOSCIA  |
|   | <b>BUDGET</b>        | Overall budget: € 12 064 712,50 / EU contribution: € 9 318 197,25  |
|  | <b>ACRONYM</b>       | MSP-REFRAM   |
|   | <b>G.A. ID</b>       | 688993   |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/199884/factsheet/en">https://cordis.europa.eu/project/rcn/199884/factsheet/en</a>  |
|   | <b>WEBSITE</b>       | <a href="http://prometia.eu/msp-refram/">http://prometia.eu/msp-refram/</a>  |
|   | <b>STARTING DATE</b> | 2015/12/01   |
|   |                      | <b>END DATE</b> 2017/06/30   |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES<br><b>CONTACT:</b> Stephane Bourg ( <a href="mailto:stephane.bourg@cea.fr">stephane.bourg@cea.fr</a> )   |
|   | <b>PARTNERS</b>      | AMPHOS 21 CONSULTING SL<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>FUNDACION CARTIF<br>CHALMERS TEKNiska HOEGSKOLA AB<br>E-MINES<br>ERAMET IDEAS<br>GEOLOGIAN TUTKIMUSKESKUS<br>UNIVERSIDAD DE BURGOS<br>OPTIMIZACION ORIENTADA A LA SOSTENIBILIDAD SL<br>SIEC BADAWCZA LUKASIEWICZ - INSTYTUT METALI NIEZELAZNYCH<br>INSTITUTO PARA LA COMPETITIVIDAD EMPRESARIAL DE CASTILLA Y LEON<br>TECHNISCHE UNIVERSITAET KAISERSLAUTERN<br>LAPPEENRANNAN-LAHDEN TEKNILLINEN YLIOPISTO LUT<br>INSTITUT NATIONAL POLYTECHNIQUE DE TOULOUSE<br>SWERIM AB<br>NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA<br>TECHNISCHE UNIVERSITEIT DELFT<br>TEKNOLOGIAN TUTKIMUSKESKUS VTT OY<br>LGI CONSULTING<br>MINERAL PROCESSING AND EXTRACTIVE METALLURGY FOR MINING AND RECYCLINGINNOVATION ASSOCIATION |
|   | <b>BUDGET</b>        | € 1 499 760  |
|   | <b>ACRONYM</b>       | MICA   |
|  | <b>G.A. ID</b>       | 689648   |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/200297/factsheet/en">https://cordis.europa.eu/project/rcn/200297/factsheet/en</a>  |
|   | <b>WEBSITE</b>       | <a href="http://www.mica-project.eu/">http://www.mica-project.eu/</a>  |
|   | <b>STARTING DATE</b> | 2015/12/01   |
|   |                      | <b>END DATE</b> 2018/01/31   |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Geological Survey of Denmark and Greenland<br><b>CONTACT:</b> Erika Machacek ( <a href="mailto:em@geus.dk">em@geus.dk</a> )   |
|   | <b>PARTNERS</b>      | FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.<br>NATURAL ENVIRONMENT RESEARCH COUNCIL<br>UNIVERSITEIT LEIDEN<br>GUENTER TIESS<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>EUROGEOSURVEYS - EGS<br>BUNDESANSTALT FUER GEOWISSENSCHAFTEN UND ROHSTOFFE<br>GEOLOGIAN TUTKIMUSKESKUS<br>UNIVERSITE GRENOBLE ALPES<br>UNIVERSITE JOSEPH FOURIER GRENOBLE 1<br>LA PALMA RESEARCH CENTRE FOR FUTURE STUDIES SL<br>FEDERATION EUROPEENNE DES GEOLOGUES  |

|   |                      |   |
|---|----------------------|---|
|   |                      | NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU<br>UNIVERSITY COLLEGE LONDON<br>GEOLOSKI ZAVOD SLOVENIJE<br>JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION<br>MINPOL GMBH  |
|   | <b>BUDGET</b>        | Overall budget: € 2 005 205 / EU contribution: € 1 998 955  |
|    | <b>ACRONYM</b>       | MIN-GUIDE   |
|   | <b>G.A. ID</b>       | 689527  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/199896/factsheet/en">https://cordis.europa.eu/project/rcn/199896/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="https://www.min-guide.eu/">https://www.min-guide.eu/</a>   |
|   | <b>STARTING DATE</b> | 2016/02/01  |
|   |                      | <b>END DATE</b>   |
|   |                      | 2019/01/31  |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> WIRTSCHAFTSUNIVERSITAT WIEN<br><b>CONTACT:</b> Gerald Berger & Andreas Endl ( <a href="mailto:info@min-guide.eu">info@min-guide.eu</a> )   |
|  | <b>PARTNERS</b>      | THE UNIVERSITY OF WESTMINSTER LBG<br>MONTANUNIVERSITAET LEOBEN<br>LULEA TEKNiska UNIVERSITET<br>NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA<br>INSTITUTO GEOLÓGICO Y MINERO DE ESPAÑA<br>UNIVERSIDADE DE AVEIRO<br>GOPA COM.<br>SVEUCILISTE U ZAGREBU RUDARSKO-GEOLOSKO-NAFTNI FAKULTET<br>TYÖ- JA ELINKIENOMINISTERIÖ   |
|   | <b>BUDGET</b>        | € 1 999 625   |
|   | <b>ACRONYM</b>       | INTRAW  |
|   | <b>G.A. ID</b>       | 642130  |
|   | <b>CORDIS LINK</b>   | <a href="https://cordis.europa.eu/project/rcn/193886/factsheet/en">https://cordis.europa.eu/project/rcn/193886/factsheet/en</a>   |
|   | <b>WEBSITE</b>       | <a href="https://intraw.eu/">https://intraw.eu/</a>   |
|   | <b>STARTING DATE</b> | 2015/02/01  |
|   |                      | <b>END DATE</b>   |
|  | <b>COORDINATOR</b>   | <b>ENTITY:</b> FEDERATION EUROPEENNE DES GEOLOGUES<br><b>CONTACT:</b> Vítor Correia ( <a href="mailto:efg.president@eurogeologists.eu">efg.president@eurogeologists.eu</a> )  |
|   | <b>PARTNERS</b>      | COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH<br>THE UNIVERSITY OF EXETER<br>FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.<br>FUNDACAO PARA A CIENCIA E A TECNOLOGIA<br>ASSOCIACAO PORTUGUESA DOS INDUSTRIAIS DE MARMORES E RAMOS AFINS<br>AUSTRALIAN ACADEMY OF TECHNOLOGICAL SCIENCES AND ENGINEERING LIMITED<br>GEOLOSKI ZAVOD SLOVENIJE<br>LA PALMA RESEARCH CENTRE FOR FUTURE STUDIES SL<br>MISKOLCI EGYETEM<br>PAN EUROPEAN RESERVES AND RESOURCES REPORTING COMMITTEE<br>GUENTER TIESS<br>RECIFEMETAL-RECICLAGEM DE FERROS E METAIS SA<br>RESOURCES COMPUTING INTERNATIONAL LIMITED<br>AMERICAN GEOLOGICAL INSTITUTE<br>MINPOL GMBH |
|   | <b>BUDGET</b>        | Overall budget: € 2 111 375 / EU contribution: € 2 104 800,88   |
|   | <b>ACRONYM</b>       | PANORAMA  |
|   | <b>EIT LINK</b>      | <a href="https://eitrawmaterials.eu/project/panorama/">https://eitrawmaterials.eu/project/panorama/</a>   |
|   | <b>STARTING DATE</b> | 2019/01/01  |
|   |                      | <b>END DATE</b>   |
|   | <b>COORDINATOR</b>   | <b>ENTITY:</b> Leiden University<br><b>CONTACT:</b> <a href="mailto:info@leidenuniv.nl">info@leidenuniv.nl</a>  |
|   | <b>PARTNERS</b>      | BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES, BRGM<br>FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V. (FRAUNHOFER)<br>GEOLOGICAL SURVEY OF DENMARK AND GREENLAND, GEUS<br>GHENT UNIVERSITY   |

|   |               |  |
|---|---------------|--|
|   |               | NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK, TNO<br>UNITED NATIONS UNIVERSITY<br>UNIVERSITE DE BORDEAUX  |
|    | ACRONYM       | GloREIA  |
|   | EIT LINK      | <a href="https://eitrawmaterials.eu/project/gloreia/">https://eitrawmaterials.eu/project/gloreia/</a>  |
|   | WEBSITE       | <a href="https://gloreia.org/news/">https://gloreia.org/news/</a>  |
|   | STARTING DATE | 2018/03/01   |
|   | COORDINATOR   | ENTITY: Katholieke Universiteit te Leuven (KU Leuven)<br>CONTACT: Philippe Muchez ( <a href="mailto:philippe.muchez@kuleuven.be">philippe.muchez@kuleuven.be</a> )   |
|   | PARTNERS      | GEOLOGICAL SURVEY OF DENMARK AND GREENLAND (GEUS)<br>KOLEKTOR MAGNET TECHNOLOGY GMBH<br>LEIDEN UNIVERSITY<br>MAGNETI LJUBLJANA D.D<br>NEO PERFORMANCE MATERIALS  |
|  | ACRONYM       | IRTC   |
|   | EIT LINK      | <a href="https://eitrawmaterials.eu/project/irtc/">https://eitrawmaterials.eu/project/irtc/</a>  |
|   | WEBSITE       | <a href="https://irtc.info/">https://irtc.info/</a>  |
|   | STARTING DATE | 2018/01/01   |
|   | COORDINATOR   | ENTITY: ESM Foundation<br>CONTACT: Alessandra Hool ( <a href="mailto:alessandra.hool@esmfoundation.org">alessandra.hool@esmfoundation.org</a> )  |
|   | PARTNERS      | THE FRENCH GEOLOGICAL SURVEY (BRGM)<br>CHINESE ACADEMY OF SCIENCES<br>COLORADO SCHOOL OF MINES<br>CRITICAL MATERIALS INSTITUTE, US DEPARTMENT OF ENERGY<br>EMPA MATERIALS SCIENCE AND TECHNOLOGY<br>FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.<br>GHENT UNIVERSITY<br>JOINT RESEARCH CENTRE OF THE EUROPEAN COMMISSION, DIRECTORATE D:<br>SUSTAINABLE RESOURCES<br>KOREA INSTITUTE OF INDUSTRIAL TECHNOLOGY KITECH<br>LEIDEN UNIVERSITY<br>LOS ALAMOS LABORATORY<br>NATIONAL INSTITUTE FOR ENVIRONMENTAL STUDIES (NIES) JAPAN<br>ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY<br>DELFT UNIVERSITY OF TECHNOLOGY<br>US GEOLOGICAL SURVEY (USGS)<br>UNIVERSITÉ DE BORDEAUX<br>UNIVERSITY OF SOUTHERN DENMARK<br>UNIVERSITY OF WATERLOO – SCHOOL OF ENVIRONMENT, ENTERPRISE AND DEVELOPMENT<br>UNIVERSITY OF YORK<br>YALE UNIVERSITY |

TABLE 20- Comprehensive information of projects linked to TARANTULA (Project category: R&amp;I networking)

|   |               |   |
|---|---------------|---|
|   | ACRONYM       | VERAM   |
|   | G.A. ID       | 690388  |
|   | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/200555/factsheet/en">https://cordis.europa.eu/project/rcn/200555/factsheet/en</a>   |
|   | WEBSITE       | <a href="http://veram2050.eu/">http://veram2050.eu/</a>   |
|   | STARTING DATE | 2015/12/01  |
|  | COORDINATOR   | ENTITY: EUROPEAN TECHNOLOGY PLATFORM ON SUSTAINABLE MINERAL RESOURCES<br>CONTACT: Patrick Wall <a href="mailto:info@eurogeosurveys.org">info@eurogeosurveys.org</a>   |
|   | PARTNERS      | FOREST-BASED SECTOR TECHNOLOGY PLATFORM<br>VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.<br>CONSEIL EUROPÉEN DE L'INDUSTRIE CHIMIQUE AISBL<br>UNIVERSITA POLITECNICA DELLE MARCHE<br>CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS |

|  |               |   |          |            |
|--|---------------|---|----------|------------|
|  |               | FACHAGENTUR NACHWACHSENDE ROHSTOFFE EV<br>RINA CONSULTING SPA<br>FORSCHUNGSZENTRUM JULICH GMBH<br>FUNDACION TECNALIA RESEARCH & INNOVATION<br>TEKNOLOGIAN TUTKIMUSKESKUS VTT OY   |          |            |
|  | BUDGET        | € 1 431 498,75  |          |            |
| <br><b>INTERMIN</b> | ACRONYM       | INTERMIN  |          |            |
|  | G.A. ID       | 776642  |          |            |
|  | CORDIS LINK   | <a href="https://cordis.europa.eu/project/rcn/212922/factsheet/en">https://cordis.europa.eu/project/rcn/212922/factsheet/en</a>   |          |            |
|  | WEBSITE       | <a href="https://interminproject.org/">https://interminproject.org/</a>   |          |            |
|  | STARTING DATE | 2018/02/01  | END DATE | 2021/01/31 |
|  | COORDINATOR   | <b>ENTITY:</b> INSTITUTO GEOLÓGICO Y MINERO DE ESPAÑA<br><b>CONTACT:</b> Luis Jorda ( <a href="mailto:L.jorda@igme.es">L.jorda@igme.es</a> )  |          |            |
|  | PARTNERS      | EUROGEOSURVEYS - EGS<br>BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES<br>ASOCIACION DE SERVICIOS DE GEOLOGIA Y MINERIA IBEROAMERICANOS<br>LA PALMA RESEARCH CENTRE FOR FUTURE STUDIES SL<br>UNIVERSIDAD POLITECNICA DE MADRID<br>FEDERATION EUROPEENNE DES GEOLOGUES<br>FEDERATION EUROPEENNE DES GEOLOGUES<br>MONTANUNIVERSITAET LEOBEN<br>COORDINATING COMMITTEE FOR GEOSCIENCE PROGRAMMES IN EAST AND SOUTHEASTASIA<br>AMERICAN GEOLOGICAL INSTITUTE<br>THE UNIVERSITY OF QUEENSLAND<br>YOUNG EARTH SCIENTIST NETWORK<br>SVERIGES GEOLOGISKA UNDERSOKNING |          |            |
|  | BUDGET        | € 1 266 021,25  |          |            |

## 8.2. ANNEX 2: ATTACHED FILES

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Attached in digital, XLS file associated to this deliverable.