



ERA-MIN 2

RESEARCH & INNOVATION PROGRAMME ON RAW MATERIALS
TO FOSTER CIRCULAR ECONOMY

Acronym: ERA-MIN 2

Title: Implement a European-wide coordination of research and innovation programs on raw materials to strengthen the industry competitiveness and the shift to a circular economy

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Report on cooperation with EU initiatives and projects

WP 6: Strengthening the raw materials research community

Task 6.1: Cooperation with European RTD community, including related initiatives, EU projects, platforms.

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ERA-MIN 2 comprises a progressive, pan-European network of 21 public research funding organisations from 18 countries/regions (Argentina, Belgium-Flanders, Brazil, Chile, Finland, France, Germany, Ireland, Italy, Poland, Portugal, Romania, Slovenia, South Africa, Spain, Spain-Castilla y León, Sweden and Turkey).

Built on the experience of the EU project ERA-MIN (2011-2015), **ERA-MIN 2** aims to enhance and strengthen the coordination of research and innovation programmes in the field of non-energy, non-agricultural raw materials (construction, industrial and metallic minerals) to support the European Innovation Partnership on Raw Materials, the EU Raw Materials Initiative and further develop the raw materials sector, in Europe and globally, through funding of transnational research and innovation (R&I) activities.

ERA-MIN 2 will support demand driven research on primary and secondary resources, and substitution of critical raw materials under a circular economy approach, to give the opportunity to the R&I community to apply to world-wide coordinated funding, gaining access to leading knowledge and new markets, while reducing fragmentation of R&I funding across Europe and globally. This will be achieved through one EU co-funded call for R&I proposals in 2017 and two additional calls, in 2018 and in 2019, designed and developed specifically for the non-energy, non-agricultural raw materials sector.

Publishable summary: The work undertaken is contributing to strengthening ERA-MIN 2's connections with external EU stakeholders and related initiatives, EU projects and platforms to promote synergies and avoid duplication of efforts. This has been achieved by several ways: i) inviting research funding organisations from other EU countries and regions to participate in Joint calls 2018 and 2019 organised by ERA-MIN 2; ii) establishing an Advisory Board composed of the relevant initiatives, EU projects and industrial associations to provide advice and guidance on thematic areas of Joint Calls; iii) becoming a member of EIP on Raw Materials and FORAM Stakeholders; iv) presenting information about existing external stakeholders, initiatives and projects to the ERA-MIN 2 consortium; v) participating in international and national conferences, workshops and meetings to promote awareness of ERA-MIN 2 and its joint calls. ERA-MIN 2 partners will continue inviting more EU countries and regions for the future Joint Call 2019 and the new ERA-NET Cofund on Raw Materials in 2020 and will represent the consortium at international events and promote the activities of the network.

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1 INTRODUCTION

The objectives of the Work Package 6 “*Strengthening the raw materials research community*” are:

- Systematic mapping of research funding programmes by establishing a forum for regular consultations between national and international funding organisations and an information channel of main research funding, programmes, and projects across Europe and outside Europe.
- Identify overlaps, gaps, good practices and unsuccessful strategies.
- Establish a network with other EU stakeholders and identify the non-EU countries/regions and actors interested in cooperating with ERA-MIN 2 and evaluate the implementation of joint activities.

Under Task 6.1 “*Cooperation with European RTD community, including related initiatives, EU projects, platforms*” co-led by SGCTeP and GSI, a good permanent working relationship between the ERA-MIN 2 consortium and external EU stakeholders involved in long term planning and funding initiatives and closely related research should be established.

ERA-MIN 2 has already identified relevant on-going projects and initiatives with which we would like to establish strong and direct collaborations at the beginning of the project, as described in the Description of the Action (Annex 1 of the Grant Agreement) and an update is presented in Table 1.

Table 1 – List of initiatives and projects that could link with ERA-MIN 2.

Projects/Initiative relevant for ERA-MIN 2	Projects/Initiative area of focus	Specific interaction with ERA-MIN 2	Update (May 2019)
European Innovation Partnership on Raw Materials (EIP Raw Materials)	Initiative launched by EC. It is a stakeholder platform which main objective is to help raise industry's contribution to the EU's GDP to around 20% by 2020 by securing its access to raw materials. The SIP's EIP RM (2013) addresses R&I actions under three pillars: technology, non-technology and international cooperation.	ERA-MIN 2 will be represented at the EIP RM replacing ERA-MIN.	ERA-MIN 2 is represented at the EIP RM replacing ERA-MIN that has finished in 2015.
EIT Knowledge and Innovation Community (KIC) Raw Materials	EIT RM focuses on mineral raw materials. Bio-based and polymer materials are covered in view of their substitution potential. Other materials will also be considered in the context of	ERA-MIN 2 objectives are aligned with EIT RM strategies and R&I topics thus ERA-MIN 2 joint calls will	Is a member of the ERA-MIN 2 Advisory Board. The ERA-MIN 2 joint calls were disseminated among the KIC



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	<p>multi-material product recycling. The KIC will address challenges in the field of raw materials (sustainable exploration, extraction, processing, recycling and substitution). The KIC will integrate multiple disciplines, diversity and complementarity along the three sides of the knowledge triangle (business, education and research) and across the whole raw materials value chain.</p>	<p>complement the KIC activities by supporting research & innovation near to the market in the same field. This means that the research funded by ERA-MIN can enter the market with the KIC's support on dissemination and exploitation of projects results. KIC members are potential applicants to the ERA-MIN joint calls which will be disseminated to them. At the same time, ERA-MIN 2 joint call topics will be informed by the industrial view and needs through the KIC.</p>	<p>members which are potential applicants.</p>
<p>European Technology Platform on Sustainable Mineral Resources (ETP-SMR)</p>	<p>Aims at modernising and reshaping a fundamental pillar of the European economy: the European Minerals Industries. These include oil, gas, coal, metal ores, industrial minerals, ornamental stones, aggregates, smelters as well as technology suppliers and engineering companies.</p>	<p>ERA-MIN 2 can learn about the R&I needs and gaps of the industry through ETP-SMR. One of its members is EUROMINES.</p>	<p>ERA MIN 2 partners have attended ETP-SMR events and connected to the platform- EUROMINES/ETP-SMR is one of the members of the ERA-MIN 2 Advisory Board.</p>
<p>Horizon 2020 CSA VERAM (2016-2018)</p>	<p>Raw Materials Roadmap for Europe</p>	<p>JÜLICH is also a partner in VERAM thus is facilitating the inputs of ERA-MIN 2 to the update of the Roadmap. Invitation of VERAM representatives for ERA-MIN 2 meetings. ERA-</p>	<p>JUELICH on behalf of ERA MIN 2 has maintained connected with VERAM that has finished. The ERA-MIN 2 partners contributed to the VERAM survey.</p>





		MIN is represented by its coordinator (CNRS).	
Horizon 2020 2016 call topic for Cross thematic ERA NET on Applied Geosciences (GeoERA)	Minerals (ICT, Groundwater & Geothermal Energy).	Members of ERA-MIN 2 that are also member of GEO ERA (e.g. GSI) are providing inputs of ERA-MIN 2 at the respective meetings and could inform ERA-MIN 2 on their research interests. Joint calls on a topic of common interest could be considered.	ERA-MIN 2 and GeoERA projects are connect via ERA MIN 2 member GSI - updates of ERA MIN 2 has been presented at GeoERA meetings and vice versa. Through the GeoERA co-funded call, 4 minerals projects were supported: Mintel4EU, FRAME, Eurolithos, MINDeSEA
Horizon 2020 CSA INTRAW (International cooperation on Raw materials)	INTRAW project has been set up to map and develop new cooperation opportunities related to raw materials between the EU and other technologically advanced countries (Australia, Canada, Japan, South Africa and the United States, addressing: R&I, exploration, extraction, processing and recycling practices, management and substitution of critical raw materials, raw materials policies and strategies, joint educational and skills programmes, etc. INTRAW will launch the European Union's International Observatory for Raw Materials as a definitive raw materials intelligence infrastructure.	EFG is the INTRAW coordinator and will be an Observer organisation of ERA-MIN 2 facilitating international cooperation as well as cooperation with other EU funded projects. FCT as partner of INTRAW will assure cooperation between both projects.	The INTRAW project finished in 2018 and the main achievement was the establishment of the International Raw Materials Observatory as an international non-profit organisation (AISBL) in which FCT is a full member. Updates of ERA-MIN 2 have been presented at INTRAW meetings and vice-versa.
Horizon 2020 CSA MIN-GUIDE (Minerals Policy Guidance for Europe)	MIN-GUIDE is a project addressing the need for a secure and sustainable supply of minerals in Europe by developing a 'Minerals Policy Guide'.	ERA-MIN 2 has partners of the same countries as the MIN-GUIDE network (Portugal, Belgium, Spain, Sweden and	MIN-GUIDE has finished and project reports on policy were produced as well as country profiles (https://www.min-guide.eu/project-





		Finland) through which links and flows of information have been established.	results) that were disseminated among ERA-MIN 2 network
Horizon 2020 CSA MINATURA 2020 (Developing a concept for a European minerals deposit framework)	The overall objective of the project 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 and to be included in a harmonised European regulatory/guidance/Policy framework.	ERA-MIN 2 has funding partners of the same countries as the MINATURA 2020 partners (Belgium, France, Ireland, Poland, Portugal, Romania, Slovenia, Spain and Sweden) through which links and flows of information can be established.	MINATURA 2020 has finished and all interested stakeholders are invited to subscribe to the project’s Council of Stakeholders (https://www.linkedin.com/groups/13523850).
European industrial associations (International Mining Association ¹ , EUROMINES ² , EUROROC ³)	IMA-Europe provides sector-based representation for industrial minerals. EUROROC - European & International Federation of Natural Stone Industries. EUROMINES represents an interface between the European extractive industry and the European authorities and international or intergovernmental bodies.	ERA-MIN 2 will interact with the European industrial associations to learn about the R&I priorities in the sector that will contribute for more focused joint calls on demand side.	Representatives from EUROMINES and IMA-Europe are members of the ERA-MIN 2 Advisory Board .
CRM Alliance ⁴	The CRM Alliance is the representative body of primary producers, traders and associations of CRM (representing 15 out of the 20 listed CRMs) to advocate the importance of CRMs for the European economy and to promote a strong European CRM policy. They oversee an MEP Interest Group on Critical Raw Materials to connect	ERA-MIN 2 learns about the R&I needs and gaps of the industry related to Critical Raw Materials (CRM).	The ERA-MIN joint calls were disseminated to the members of CRM Alliance.

¹ International Mining Association (<http://www.ima-europe.eu/>)

² European Association of Mining Industries, Metal Ores & Industrial Minerals (: <http://www.euromines.org/>)

³ European & International Federation of Natural Stone Industries (<http://www.euroroc.net/>)

⁴ CRM Alliance (<http://criticalrawmaterials.org/>)





	industry with policy-makers through bi-annual political luncheon events.		
PROMETIA (international non-profit association in mineral processing and extractive metallurgy for mining and recycling of raw materials.	Aims to strengthen European technical skills and industrial know-how in raw materials processing and support industrial and economic development.	ERA-MIN 2 can learn about the R&I mining and recycling of raw materials needs and gaps from industry, SMEs and academia in mineral processing and extractive metallurgy. ICE is permanent observer of PROMETIA.	ERA MIN 2 members have attended PROMETIA workshops and have disseminated the calls. Representative from PROMETIA is a member of the ERA- MIN 2 Advisory Board
EuroGeoSurveys (EGS)	Minerals and Raw Materials Expert Group	ERA-MIN 2 partners (e.g. GSI) and Observer organisations that are also members of EGS will represent the network at EGS activities.	GSI has connected EGS and ERA-MIN 2 activities including feedback to Horizon2020 planning
Expert network on Critical Raw Materials (SCREEN)	This CSA will build an expert network for critical raw materials, covering all three pillars of primary, secondary and substitution.	ERA-MIN 2 will link with this Expert network not only to raise awareness and promote the joint calls but also to find experts for peer-review of proposals. ERA-MIN 2 will participate in meetings and workshops, share ideas and contribute with the needs of funding organisations.	Representatives from ERA MIN 2 have attended SCREEN workshops and webinars. FCT has translated to Portuguese the 10 visuals of the communication campaign on the EU 27 CRM
ERA-NET Cofund on marine and maritime technologies (MarTERA)	Open maritime and marine topics in line with the Strategic R&I Agenda and its Implementation Plan under the Joint Programming Initiative "Healthy and Productive Seas and Oceans"	Deep sea mining is one topic of common interest. Goal of cooperation would be to avoid overlapping and	FCT and the MarTERA coordinator discussed the future call topics in order to avoid duplication. Even if





	(JPI Oceans) and will contribute to the implementation of the European Blue Growth Agenda and marine and maritime-related Directives	to identify possible synergies. This will be facilitated by the participation of some ERA-MIN 2 partners in this network (e.g JÜLICH would be the coordinator and FCT a partner).	ERA-MIN 2 is not excluding deep sea mining in the call topics so far no project was selected in this area. MarTERA Call 2019 addresses the topic deep sea mining on sensors, automation, monitoring and observations.
M-ERA.NET 2 - ERA-NET for materials research and innovation (2016-2021)	Network of 42 funding programmes for the coordination of European research programmes and related funding in materials science and engineering	Secondary raw materials and substitution are topics of common interest and 10 ERA-MIN 2 partners (Tekes, JÜLICH, NCBR, FCT, Vinnova, TUBITAK, AEI, ICE, MIZS and UEFISCDI) are also M-ERA.NET 2 partners to avoid duplication of efforts and facilitate synergies and joint activities.	FCT has invited partners of M-ERA.NET 2 to associate to the ERA-MIN Joint Calls considering the topics of common interest. FCT has suggested to include the circular economy approach in the M-ERA.NET Call topics which are not duplicating with ERA-MIN 2 . The ERA-MIN call topics were presented by AEI to the Strategic Expert Group of M-ERA.NET 2.
JPI Oceans (Joint Programming Initiative "Healthy and Productive Seas and Oceans")	One of the 10 strategic areas of the JPI Oceans Strategic R&I Agenda is: " <i>Exploring Deep Sea Resources</i> ". The JPI Oceans' Member Country representatives launched a joint research activity - JPI Oceans' Pilot Action on "Ecological Aspects of Deep-Sea Mining" that analyses the long-term ecological consequences of deep-sea polymetallic nodule mining to inform the international regulation of deep sea mining activities.	The pilot action is coordinated by DE with partners from 11 countries (BE, DE, FR, IT, NL, NO, PL, PT, RO, SE, UK) out of which eight are also partners of ERA-MIN 2 . ERA-MIN 2 could support projects to address the strategic areas of JPI Oceans and networking is needed to avoid	The MiningImpact ⁵ project will follow up on the results of the first JPI Oceans supported Pilot Action concluded in 2017. FCT through JPI Oceans is supporting this project and will follow the outcomes.

⁵ <https://miningimpact.geomar.de/miningimpact-2>





		duplication of efforts and to promote synergies.	
EMODNET (European Marine Observation and Data Network)	The geology portal aims to provide free access to (i) geological data and metadata based on international standards and (ii) geological data products. EMODnet Geology data and map products contain information on the sea-bed substrate, including minerals.	GSI is a member of EMODNET and leads the EMODNET Geology WP which is focussed on marine minerals and aggregates. Successful R&I projects will be asked to provide relevant data to EMODNET.	GSI is a WP leader of EMODNET Geology (which includes marine minerals) and GSI staff working closely to connect these projects.
European Regions Research and Innovation Network (ERRIN)	Promotes knowledge exchange between its members, focusing on joint actions and project partnerships to strengthen regional R&I capacities.	ICE is a partner and can facilitate the dissemination of ERA-MIN 2 activities and results to the EU regions and through ERRIN. ERA-MIN 2 can learn about the R&I EU regions needs related to, for instance, circular economy.	The ERA-MIN joint calls were disseminated to the members of ERRIN.
European Federation of Geologists		EFG is an Observer organisation of ERA-MIN 2 contributing for dissemination activities, providing names of potential reviewers, facilitating international cooperation as well as cooperation with other EU funded projects. EFG is coordinating INTRAW.	The ERA-MIN joint calls were disseminated to the members of EFG.
COST (European Cooperation in	COST Actions are science and technology networks.	ERA-MIN 2 joint calls can	The ERA-MIN joint calls were





<p>Science and Technology) actions, e.g. CA15115 Mining the European Anthroposphere (MINEA), CA15102 Solutions for Critical Raw Materials Under Extreme Conditions (CRM-EXTREME) and ES1407 European network for innovative recovery strategies of rare earth and other critical metals from electric and electronic waste (ReCrew)</p>	<p>MINEA action aims to actuate the reporting of material resources/reserves in the anthroposphere. The focus is on (1) construction and demolition waste, (2) waste regained from landfills and (3) solid residues from waste incineration. CRM-EXTREME focuses on the substitution of CRMs (like Cr, Co, Nb, W, Y) in high value alloys and metal-matrix composites used under extreme conditions in Energy, Transportation and Machinery manufacturing industries. ReCrew aims to develop concerted collection, pre-treatment and refining processes for an utmost efficient critical metals recovery.</p>	<p>complement the networks established in COST actions through research funding which is not supported by COST.</p>	<p>disseminated to the members of the 3 COST actions relevant to raw materials.</p>
<p>Strategic Dialogue on Sustainable Raw Materials for Europe (STRADE)</p>	<p>STRADE addresses the long-term security and sustainability of the European raw material supply from European and non-European countries to develop dialogue-based, innovative policy recommendations for a European strategy on future raw-material supplies. The project brings together research, practical experience, legislation, best practice technologies and know-how in the following areas: Strengthening the European raw-materials sector; a European cooperation strategy with resource-rich countries; Internationally sustainable raw-material production & supply.</p>		<p>STRADE has finished and has published synthesis reports and policy briefs of interest to ERA-MIN 2 cooperation with Africa and Latin America</p>
<p>FORAM "Towards a World Forum on Raw Materials"</p>	<p>The project Towards a World Forum on Raw Materials (FORAM) will develop and set up an EU-based platform of international experts and</p>	<p>ERA-MIN 2 could be a stakeholder of FORAM</p>	<p>ERA-MIN 2 via FCT is a member of the FORAM stakeholders and has answered a</p>





	<p>stakeholders that will advance the idea of a World Forum on Raw Materials (WFRM) and enhance the international cooperation on raw material policies and investments. The FORAM project will contribute to consolidate the efforts towards a more joint and coherent approach towards raw materials policies and investments worldwide, by closely working with the relevant stakeholders in industry, European and international organisations, governments, academia and civil society. Synergies with relevant EU Member States initiatives will be explored and fostered. The project will in particular seek to engage the participation of G20 Member countries and other countries active in the mining and other raw materials sectors, so that experiences will be shared and understanding of all aspects of trade in raw materials will be increased.</p>		<p>survey.</p>
<p>The Near-zero European Waste Innovation Network (NEW_InnoNet)</p>	<p>NEW_InnoNet’s main goal is to mobilise stakeholders towards building a circular economy by developing and reinforcing solid foundations for building the European Near-Zero Waste Platform. More concretely, the NEW_InnoNet project has four specific objectives: Set-up and maintain near zero waste stakeholder platform; Analyse selected waste streams and develop innovation roadmaps per waste stream; Develop an integrated near zero waste strategic research and innovation agenda; Stakeholder mobilisation and interaction.</p>		<p>The project has finished in 2017 and Business Finland (former Tekes) and ICE (former ADE) have participated at the Stakeholder Conference.</p>



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The ERA-MIN 2 partners responsible to establish the link with the projects initiatives listed in table 1 have been identified in the Communication and Dissemination Plan (public at ERA-MIN 2 website).

The output of this task will be a list of main EU stakeholders and initiatives with which to cooperate and a description of the type and status of the cooperation.

2 OBJECTIVES

The main objective of this report is to present a list of main EU stakeholders and initiatives with which ERA-MIN 2 is cooperating with since the submission of the application on 8th March 2016 and why this cooperation is essential for the ERA-MIN 2 project. In addition, the report will present the next actions to promote engagement of ERA-MIN 2 with other EU countries and existing initiatives and platforms and identify the EU countries/regions and actors interested in cooperating with ERA-MIN 2 and evaluate the implementation of joint activities.

The objective is (i) to broaden the network of research funding organisations to support the network of research performing organisations in the raw materials sector and (ii) to ensure ERA-MIN 2 scope and objectives are relevant and timely.

ERA-MIN 2 aims to be represented at the High-level Steering Group of EIP Raw Materials.

A close link will be established with Horizon 2020 funded CSA VERAM through the ERA-MIN 2 German partner (JUELICH) contributing for the update of the Raw Materials Roadmap.

ERA-MIN 2 will be directly linked to external programmes and initiatives through the ERA-MIN 2 Advisory Board which will include representatives of the major 10 initiatives and projects, related to the sector. Others can be invited for ERA-MIN 2 meetings, when appropriate.

3 EXISTING COOPERATION WITH OTHER INITIATIVES, PROJECTS

3.1 ERA-MIN 2 OBSERVER ORGANISATIONS

As mentioned in the Grant Agreement, at the beginning of ERA-MIN 2 there were 11 Observer organisations of which 9 from Europe. It is expected to be extended to 24 at the end of the project. The 9 Observer organisations are:

- EIT Raw Materials
- Geological Survey of Denmark and Greenland (GEUS)
- Bulgarian Academy of Sciences – Geological Institute
- European Federation of Geologists (EFG)
- EUROMINES
- PROMETIA
- CSA INTRAW
- CSA MINATURA 2020
- CSA SCREEN



These have stated that they are willing to explore options for future cooperation with ERA-MIN 2. Later on IGME (Greece) has signed the letter of support.

In ERA-MIN Joint Call 2017, the German Ministry BMBF and the Irish Environmental Protection Agency (EPA) has committed funds through partners JUELICH and GSI, respectively.

ERA-MIN 2 has also developed relationships with funding organisations from other EU countries and regions not part of the ERA-MIN 2 consortium and encouraged their association to joint activities (e.g. joint call 2018 and 2019).

As a result, six new funding organisations have joined the ERA-MIN Joint Call 2018, in which a total of 24 funding organisations have participated. Five out of these 6 Observers organisations are from EU Member States countries or regions, namely: Brussels/Belgium (Innoviris), Wallonia/Belgium (SPW-Wallonie), Calabria/Italy (Calabria Regione), Greece (GSRT) and Slovakia (SAS).

In the future ERA-MIN Joint Call 2019, TACR (Czech Republic) has confirmed their participation and other national and regional funding organisations are expected to join.

Not only the 21 ERA-MIN 2 partners but also relevant funding organisations as Observers were asked to answer surveys about their research funding programmes to promote the knowledge sharing as well as about the potential interest in thematic areas of future Joint Calls and the new ERA-NET Cofund on Raw Materials (ERA-MIN 3) in late 2020.

3.2 ERA-MIN 2 ADVISORY BOARD

The Advisory Board supports a strong working relationship between ERA-MIN 2 and external international stakeholders involved in long term planning and funding initiatives and closely related science and technology. These stakeholders include industry, academia, national/regional research programming organisations, as well as other related platforms and industrial associations. The Advisory Board ensures that ERA-MIN 2 activities throughout the five year programme will remain relevant and positively impact the sector.

The Advisory Board provides ERA-MIN 2 with advice and guidance on the research priorities of the joint calls. It is not responsible for the final decisions made by the Network Steering Committee of ERA-MIN 2.

The Advisory Board will comprise a maximum of 10 persons. The Board comprises representatives of a large group, namely:

- EIT Knowledge and Innovation Community (KIC) Raw Materials
- Horizon 2020 CSA Veram (2016-2018)
- IMA-Europe - International Mining Association
- EUROMINES - European Association of Mining Industries, Metal Ores & Industrial Minerals
 - PROMETIA - International non-profit association in mineral processing and extractive metallurgy for mining and recycling of raw materials
- EuRIC - organisation for the recycling industries in Europe
- IUGS – International Union of Geological Sciences.

Representatives of these organisations were appointed as members of the ERA-MIN 2 Advisory Board, except for IUGS that no representative was indicated so far.

The Advisory Board meets once per year before the launch of a joint call.

The Terms of Reference that describe their role and responsibilities, conduct and meetings has been elaborated (Annex 1).

The first Advisory Board meeting took place on December 2nd 2017, where the call topics were discussed for the Joint Call 2017 with the participation of 3 members and EASME (Table 2).

The second Advisory Board meeting to discuss the topics of the Joint Call 2018 took place in Paris on February 27th 2018 with the participation of representatives from 7 organisations and DG GROW.

Table 2 – Participants at the Advisory Board (AB) meetings.

Institution	Representative at the first AB meeting	Representative at the second AB meeting
EIT Knowledge and Innovation Community (KIC) Raw Materials	Mr. Timo HAAPALEHTO	Dr. Laurence LAMM
Horizon 2020 CSA VERAM (2016-2018)	Ms. Elisabeth KOHLER	Ms. Corina HEBESTREIT
PROMETIA (nternational non-profit association in mineral processing and extractive metallurgy for mining and recycling of raw materials.	Mr. Stéphane BOURG	Mr. Stéphane BOURG
SCREEN -		Mr. Stéphane BOURG
EuRIC- Organisation for the recycling industries in Europe		Ms. Tess POZZI
EUROMINES – European Association of Mining Industries, Metal Ores & Industrial Minerals		Ms. Corina HEBESTREIT
IMA-Europe – International Mining Association		Dr. Roger DOOME
EASME - The Executive Agency for Small and Medium-sized Enterprises	Mr. Jonas Hedberg	
DG GROW - DG for Internal Market, Industry, Entrepreneurship and SMEs		Mr. Patrice MILLET

3.3 ERA-MIN 2 MEETINGS AND WORKSHOPS

More than 50 representatives of ministries, funding organisations, research and industry from EU and non-EU countries and the European Commission, have participated in a networking reception to welcome the official start of ERA-MIN 2 on Dec. 1st 2016. (<https://www.era-min.eu/news/era-min-2-kick>).

Representatives of two organisations interested in joining the ERA-MIN Joint Call 2018, namely Wallonia/Belgium (SPW-Wallonie) and Slovakia (SAS) have attended the Network Steering Committee in Dublin, Ireland, on June 27th 2018.

Five out of 6 Observers institutions that have associated to the ERA-MIN Joint Call 2018 from Brussels/Belgium (Innoviris), Wallonia/Belgium (SPW-Wallonie), Calabria/Italy (Calabria Regione), Greece (GSRT) and Slovakia (SAS) also attended not only the Call Steering Committee but also the Network Steering Committee meeting in Bled, Slovenia, on May 9th-10th 2019.

During these meetings an interactive workshop was organised to discuss the structure and thematic areas of the future ERA-NET Cofund on Raw Materials (ERA-MIN 3) that will follow the ERA-MIN 2 activities. DG GROW did an introduction on policy landscape and the success of ERA-MIN network since 2011 before the start of the workshop. Representatives from 22 different funding organisations participated in the workshop of which 19 from EU Member States countries/regions and one from EU Associated Country.

3.4 ERA-MIN 2 MEMBERSHIP

On July 18th, ERA-MIN 2 was nominated as member of the High-Level Steering Group of the European Innovation Partnership on Raw Materials for the period 2017-2020 following the submission of an application. The representative is the FCT's President and the Sherpa representative is the ERA-MIN 2 project coordinator (Dina Carrilho).

ERA-MIN 2 is a stakeholder member of the panel of EU project FORAM - "Towards a World Forum on Raw Materials" and Dina Carrilho as the ERA-MIN 2 coordinator is the representative. The WP2 Questionnaire for Stakeholders has been answered by July 14th 2017.

Holger Grunewald (JUELICH) has represented ERA-MIN 2 together with Elisabeth Kohler, as the official representative of ERA-MIN, in the VERAM consortium. ERA-MIN 2 partners contributed to the VERAM survey on funding programmes in September/October 2016 and have disseminated the ERA-MIN 2 activities at the VERAM meetings.

3.5 ERA-MIN 2 PARTNER SEARCH TOOL

Under this subject, collaboration was established between ERA-MIN 2 and EU project NCPs_CARE⁶.

The partner search tool developed by the EU project NCPs_CARE, that supports potential applicants for the Horizon 2020 Work programme of the Societal Challenge 5 "*Climate action, environment, resource efficiency and raw materials*" in finding partners and building a consortium for a project proposal, has been customised to allow partner searches and partner offers in the specific ERA-MIN 2 call main topics and sub-topics in 2017 and also in 2018.

Six partner searches and 22 partner offers related to topics of ERA-MIN Joint Call 2017 were publicly available at the online partner search. By the end of the proposal submission deadline of the Joint Call 2018 (in January 2019) the number of entries specific for the ERA-MIN

⁶ <http://partnersearch.ncps-care.eu/>

call topics has increased to 40, of which 21 aimed to search or reach new partners to build a proposal consortia.

Additionally, other general partner search tools were suggested:

- European Commission's partner search service⁷;
- Enterprise Europe Network (EEN).

3.6 ERA-MIN 2 PARTICIPATION IN CONFERENCES, WORKSHOPS, MEETINGS

ERA-MIN 2 consortium has been active before and since the official start date of the network. Not only the ERA-MIN 2 project coordinator (FCT) but also many partners, namely ADEME, ANR, AEI, CONICYT, DST, GSI, JUELICH, ICE, TUBITAK and Vinnova have presented ERA-MIN 2 at international conferences, workshops, meetings with other projects and initiatives, such as:

- 26 January 2016, Brussels - **Veram kick-off meeting**, the German partner JUELICH has attended (Holger Grunewald).
- 28-29 June 2016, Brussels - **Workshop "Exchange of best practices on mining policies and technologies: challenges in the current state of the global economy"**, ERA-MIN 2 poster
- 28-29 September 2016, Berlin, **Implementing ERA-NET Cofunds – ERA-LEARN workshop**, Holger Grunewald (JUELICH) and Pedro Figueroa (CONICYT) have participated representing ERA-MIN 2
- 19 October 2016, Antwerp, **Veram Stakeholder Workshop**, Elisabeth Kohler (ERA-MIN representative), Jean-Francois Renault and Holger Grunewald (JUELICH) have attended and Elisabeth presented an outlook on ERA-MIN 2.
- 26 Oct. 2016, Stockholm – **Workshop with the coordinators of the 17 ERA-MIN funded projects**, ERA-MIN 2 presentation by Dina Carrilho (FCT)
- 27 October, Burgos - **High Level Conference: European Regions in the CRM strategy and the CE Policy**, participation by partner ICE.
- 29 Nov. 2016, Brussels - **ETP SMR General Meeting**, ERA-MIN 2 presentation by Dina Carrilho (FCT);
- 29 Nov. 2016, Brussels - **Workshop FORAM "Towards a World Forum on Raw Materials"**, participation of Dina Carrilho (FCT)
- 30 November 2016, Brussels, **EGS Raw Materials Week Workshop**, both Aoife Braiden (GSI) and Severino Fálcon (AEI) represented ERA-MIN 2 and made a presentation
- 30 Nov. 2016, Brussels - **"Horizon 2020, EIT Raw Materials and ERA-MIN 2 Information and Brokerage event"**, ERA-MIN 2 Call 2017 presentation by Dina Carrilho, participation by Pedro Figueroa (CONICYT)
- 1 December 2016, Brussels - **4th Annual High Level Conference of the European Innovation Partnership (EIP) on Raw Materials**, participation by Dina Carrilho, Ufuk Atay, Severino Fálcon, Pedro Figueroa, etc. A poster was presented and call pre-announcements were distributed.
- 14-15 Dec. 2016, Berlin - **PROMETIA's third Scientific Seminar**, Holger Grunewald (JUELICH) presented ERA-MIN 2.

- 14 Feb. 2017, Kiev - **Romanian experience with PPP, JTI and JPI**, rep. UEFISCDI
- 2 March 2017, Lille - **Congress on recycling of strategic metals**, presentation by partner ADEME.
- 6 March 2017, Berlin - **Berlin Conference on Recycling and Raw Materials**, presentation by partner JUELICH.
- 9-10 March 2017, Brussels - **Circular Economy Stakeholder Conference**, Severino Fálcon (AEI) participated and distributed call announcement leaflets.
- 10 March 2017, Brussels - **REFRAM Final Conference (European Project on refractory metals)**, presentation by partner ADEME.
- 14 March 2017, Rio do Janeiro – **Workshop “Chamada publica conjunta ERA-MIN 2017 – Matérias-primas para o Desenvolvimento Sustentável e Economia Circular”**, organised by Finep and to promote the Call 2017, rep. FCT
- 13 June 2017, Brussels - **Veram Workshop "Europe 2050 - Preparing a Research & Innovation Roadmap for Raw Materials"**, Holger Grunewald (JUELICH) has represented ERA-MIN 2 together with Elisabeth Kohler as the official representative of ERA-MIN in the VERAM consortium.
- 28-29 June 2017, Brussels - **SCREEN Expert Group workshop on CRM ‘Resources’ issues - and SCREEN clustering event with Horizon 2020-projects** - Jean-François Renault (JUELICH) represented ERA-MIN 2
- 21-22 Sept 2017, Berlin – Implementing and ERA NET Cofund, **ERA LEARN Workshop**, represented by JUELICH and CONICYT
- 29 Sept 2017, Brussels – **EIP on Raw Materials Sherpa Meeting**, rep. FCT
- 24 Oct 2017, Bucharest – **ACT 2** knowledge sharing workshop
- 27 Oct 2017, Paris – Info Day on Raw Materials, **Ministry for Research France**, rep. ADEME and ANR
- 31 Oct 2017, Lisbon – **EIT Raw Materials** promotion event, rep. FCT
- 31 Oct 2017, Lisbon – **Horizon2020 Portuguese** Raw Materials Infoday, rep. FCT
- 8-9 Nov 2017, Brussels – **Raw Materials Week, 5th High Level Conference**, rep. FCT
- 16 Nov 2017, Valladolid, Spain – **Horizon2020 SC5** regional Infoday, rep ICE
- 1 Dec 2017, Brussels – **EIP Raw Materials HLSG** meeting, rep. FCT
- 22 Dec 2017, Valladolid, Spain – **REMIX Interreg** Project, Stakeholder Meeting, rep. ICE
- 11 Apr 2018, Madrid – **Ministry of Economy, Industry and Competitiveness of Spain**, rep. AEI
- 16 Apr 2018, - **ETP-SMR General Meeting**, rep. FCT
- 14-15 May 2018, Ispra – Workshop on **EU RMIS**, rep. FCT
- 11 July 2018, Madrid – **Materplat** General Assembly, rep. AEI
- 11 Sept 2018, Brussels – **Horizon2020 Env. & Resources information day**, rep. FCT
- 24-25 Sept 2018, Berlin – **Implementing and ERA NET Cofund – ERA LEARN workshop**, rep. FCT, AEI
- 27 Sept 2018, Lulea – **SIP STRIM** programme day, rep. Vinnova
- 9 Oct 2018, Brussels - **Combined Meeting of the Sherpa Group of European Innovation Partnership on Raw Materials and the Raw Materials Supply Group**, rep. FCT
- 11 Oct. 2018, Johannesburg - **ESASTAP 2020: Horizon 2020 Information Sharing Session on Funding Opportunities**, rep DST
- 15 Oct 2018, Berlin – **EIT Raw Materials Brokerage** Event, rep. JUELICH
- 23 Oct 2018, Madrid – **BIOPLAT** General Assembly, rep. AEI

- 25 Oct 2018, Madrid - **MATERPLAT** General Assembly, rep. AEI
- 23-25 Oct 2018, Antalya – **International Mineral Processing Symposium**, rep. TUBITAK
- 29 Oct 2018, Vienna – **Advanced Materials and Related Technologies**, rep. FCT
- 30-31 Oct 2018, Vienna – **Industrial Technologies Conference**, rep. FCT
- 12-16 Nov 2018, Brussels – **Raw Materials Week**, rep. FCT, ADEME, ANR
- 21 Nov 2018, Madrid – **M-ERA NET 2 SEG workshop**, rep. AEI
- 27-29 Nov 2018, Berlin – **European and National Resources Forum**, rep. JUELICH
- 13-14 Dec 2018, Berlin – **PROMETIA 5th scientific Seminar**, rep. JUELICH
- 1-3 March 2019, Dublin - Irish Geological Research meeting , rep GSI
- 15-16 May 2019, Brussels - **ERA-LEARN thematic partnership workshop: towards Horizon Europe** , rep. ANR
- 20 May 2019, Brussels – **Combined Meeting of Sherpa Group of The European Innovation Partnership on Raw Materials and Raw Materials Supply Group**. Rep. FCT

The majority of the events were announced at the ERA-MIN 2 website.

3.7 PUBLICATIONS

An article that analyses the cooperation established in the previous two ERA-MIN calls and increases awareness of the follow-up ERA-NET ERA-MIN 2 has been published at the European Geologist Journal on Dec. 2016 by the ERA-MIN 2 coordinator - *Carrilho, D. (2016) “Stepping up the international cooperation on raw materials for the sustainable supply of raw materials”, European Geologist Journal: 42, 33-36 (<http://eurogeologists.eu/journal/>)*, with the objective to make awareness of ERA-MIN activities following the success of ERA-MIN.

4 **FUTURE COOPERATION WITH EU COUNTRIES, INITIATIVES AND PROJECTS**

4.1 EU MEMBER STATES/ASSOCIATED COUNTRIES

ERA-MIN 2 has identified the following countries for future engagement (and specifically for involvement in joint calls in 2018 and 2019): Austria, Bulgaria, Czech Republic, Denmark, Hungary, Netherlands, Norway and Switzerland, among others.

An interest from researchers of Hungary, Norway and Switzerland has been demonstrated in the ERA-MIN Joint Call 2017 and from British researchers in Joint Call 2018 through their participation in applications with own funds. Representatives of the funding organisations of these countries will continue to be invited to join the ERA-MIN Joint Call 2019, as well as the future ERA-NET Cofund on Raw Materials to be published in the Horizon Europe Work Programme 2020, and to attend either an ERA-MIN 2 meeting or a specific dedicated workshop to discuss the topics of the future joint calls.

4.2 EU INITIATIVES AND PROJECTS

In addition to the EU initiatives and projects listed in Table 1, ERA-MIN 2 has also identified other projects and initiatives of interest with which could cooperate in the future, namely:

- CICERONE EU project
- DG JRC – Raw Materials Information System (RMIS)
- CRM Recovery - LIFE project
- GEOTHERMICA
- European Regions Research and Innovation Network (ERRIN)
- Synergic Circular Economy across European Regions (SCREEN)
- European Resource Efficiency Knowledge Centre (EREK)
- Ideas accelerator for European Projects (UP2Europe)

Cooperation with ERRIN and SCREEN would facilitate the integration of more regions in the ERA-MIN network.

UP2Europe has promoted the ERA-MIN Joint Call 2018 and could promote the future ERA-MIN calls and makes available a partner search tool as well as a database of EU funded projects.

5 CONCLUSIONS

ERA-MIN 2 has successfully engaged 5 new EU research funding organisations in the ERA-MIN Joint Call 2018 and others are expected to join the future Joint Call 2019 and the future ERA-NET Cofund on Raw Materials in 2020.

To ensure that activities throughout the five year programme will remain relevant and positively impact the sector, the two Advisory Board meetings provided ERA-MIN 2 with advice and guidance on the research priorities of the joint calls 2017 and 2018.

In respect to joint calls, the collaboration with EU projects such as, NCPs_CARE and ERA-LEARN was important for the call implementation.

The Joint Calls were disseminated through the external stakeholders and many of them have published and announced the ERA-MIN Calls in their institutional websites.

ERA-MIN 2 has successfully achieved the objective of establishing cooperation with near 30 EU initiatives, projects and industrial associations in order to promote synergies and avoid duplication of efforts.

In summary, to date ERA-MIN 2 has established collaboration with the following EU initiatives, projects :

- EIP Raw materials – ERA-MIN 2 is member of HLSG for period 2017-2020
- FORAM – ERA-MIN 2 is a stakeholder Forum member
- EIT Raw Materials, Veram, IMA-Europe, EUROMINES, PROMETIA, SCREEN, EURIC – are ERA-MIN 2 Advisory Board members
- NCPs_CARE – provided their partner search tool for ERA-MIN Joint Calls 2017 and 2018
- ERA-LEARN – the ERA-MIN Calls were announced in their Call calendar, the information on funded projects was provided, and ERA-MIN 2 has participated in their several workshops

- ETP-SMR – ERA-MIN 2 has participated in their meetings to share information on activities and joint calls
- INTRAW FCT is a full member of the International Raw Materials Observatory (AISBL) to ensure a close cooperation.
- EFG - is an Observer organisation of ERA-MIN 2
- two COST Actions – the joint calls were disseminated to these research networks
- EGS – ERA-MIN 2 participation in a workshop

6 NEXT STEPS

Having established cooperation with almost 30 European initiatives, networks or EU projects since 2016, ERA-MIN will continue strengthening these EU cooperation and also expects to collaborate with other EU projects related to raw materials recently supported by Horizon 2020 (e.g. CICERONE).

ERA-MIN 2 would like to contribute for the raw materials Information system (RMIS 2.0) developed by JRC. The results of the funded projects under ERA-MIN 2 should be promoted in this platform.

WP 6 partners have planned a meeting at Raw Materials Week in 2019 to further develop the connections to external stakeholders, specifically how best to engage and what level of involvement is appropriate, and draft a plan for the last two years of the ERA-MIN 2 project.

Dates for the next meetings and actions of the project ERA-MIN 2 related to this report:

- 25-26 September 2019, Call Steering Committee meeting, Lisbon, to consolidate the call documents of the Joint Call 2019 and meeting with EU funding organisations interested in joining the future ERA-NET Cofund on Raw Materials (ERA-MIN 3) which application needs to be submitted by 13 February 2020.
- 18-22 November 2019, Raw Materials Week, Brussels, ERA-MIN 2 partners will participate in the matchmaking events and Infoday to announce the publication of the ERA-MIN Joint Call 2019 and will organise a mid-term Seminar with the 16 funded projects of Joint call 2017 to promote liaison with other projects, disseminate results and promote the uptake of results by stakeholders.

Annex 1 – Advisory Board – Terms of Reference



ERAMIN 2

RESEARCH & INNOVATION PROGRAMME ON RAW MATERIALS
TO FOSTER CIRCULAR ECONOMY

Advisory Board

Terms of Reference

Version 1 | 23.11.2016



1. Background

ERA-MIN 2 is a pan-European network of the main R&I funding organisations consisting of 21 public funding organisations from 18 countries/regions: 13 EU Member States countries/regions (Belgium-Flanders, Finland, France, Germany, Ireland, Italy, Poland, Portugal, Romania, Slovenia, Spain, Spain-Castilla y León, Sweden), one EU Associated Country (Turkey) and four third countries (Argentina, Brazil, Chile and South Africa).

Building on the experience of the EU FP7 ERA-MIN (2011-2015), the main objective of the Horizon 2020 ERA-NET Cofund on Raw Materials (ERA-MIN 2) is to enhance and strengthen the coordination of national and regional European research and innovation (R&I) programmes in the field of non-energy, non-agricultural raw materials, namely, construction, industrial and metallic minerals, through the implementation of three joint calls for transnational collaborative R&I projects.

In line with the integrated strategy proposed in the EU Raw Materials Initiative and the Strategic Implementation Plan of the European Innovation Partnership on Raw Materials, ERA-MIN 2 aims at supporting the research and innovation co-ordination; improving synergy, co-ordination and coherence between regional, national and EU funding in the relevant research fields through international collaboration; reducing fragmentation of raw materials research and innovation efforts across Europe; and improving use of human and financial resources in the area of raw materials research and innovation.

As measures to maximise impact, ERA-MIN 2 will cooperate with the existing initiatives, projects and associations, by establishing an effective communication to assure that all dissemination activities, including the promotion and follow up of project results, will reach out to a wider audience of stakeholders, therefore strengthening the raw material community.

To further increase its impact and to better fulfil the overarching objectives, ERA-MIN-2 will implement a first joint call in 2017 with EU co-funding and further develop and implement at least two joint calls without EU co-funding, in topics of common interest between the participating funding organisations and considering the advice of the Advisory Board.

The total call budget for the ERA-MIN joint call 2017 is circa EUR 15 million, including the EU co-funding. The main joint call topics are based on the three technological themes of the ERA-MIN Research Agenda, namely: (a) Primary Resources, (b) Secondary Resources and (c) Substitution of Critical Raw Materials under a circular economy approach. In addition, the projects may address a number of cross-cutting themes, environmental and social impacts, policy and public perception.

2. Objectives

The Advisory Board will support a strong working relationship between ERA-MIN 2 and external international stakeholders involved in long term planning and funding initiatives and closely related science and technology. These stakeholders include industry, academia, national/regional research programming organisations, as well as other related Platforms and industry associations. Representatives of those relevant initiatives and projects will comprise the ERA-MIN 2 Advisory Board. They may be invited to participate in the Network Steering Committee and Call Steering Committee meetings but without voting rights (Figure 1).

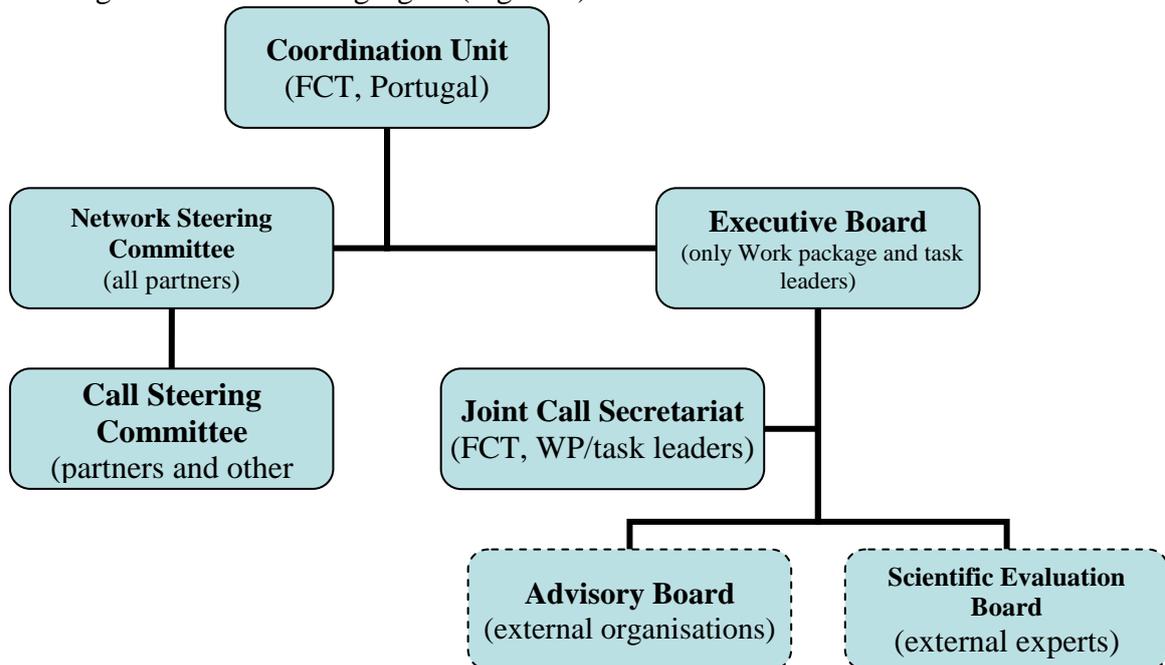


Figure 1 – Organisational structure of ERA-MIN 2.

The Advisory Board will ensure that activities throughout the five year programme will remain relevant and positively impact the sector.

3. Scope

ERA-MIN-2 joint transnational calls for R&I proposals will support demand driven research in exploration, extraction, processing/refining, recycling and substitution of raw materials covering the whole innovation chain, from basic to applied research and innovation. Thus, the research, technology development and innovation community has the opportunity to apply not only to coordinated funding in Europe but also world-wide, gaining access to leading knowledge and new markets.

The Advisory Board will provide ERA-MIN 2 with advice and guidance on the research priorities of the joint calls. It will not be responsible for the final decisions made by the Network Steering Committee.

4. Membership

4.1 Members,

Chair & Proxies

The Advisory Board (AB) will comprise a maximum of 10 persons. The Board will comprise representatives of large group, namely:

- EIT Knowledge and Innovation Community (KIC) Raw Materials
- Horizon 2020 CSA Veram (2016-2018)
- IMA-Europe - International Mining Association
- EUROMINES - European Association of Mining Industries, Metal Ores & Industrial Minerals
- PROMETIA - International non-profit association in mineral processing and extractive metallurgy for mining and recycling of raw materials
- EURIC - organisation for the recycling industries in Europe
- IUGS – International Union of Geological Sciences

Members may appoint proxies for any individual meeting but any proxy must be from the organisation represented by the Board member and must adhere to the rules and procedures outlined herein.

Any change to the Board must be approved by the ERA-MIN 2 Network Steering Committee.

4.2 Conduct

Members of the Board must;

- adhere to the highest standards of fairness, honesty and integrity and act with sound, unbiased judgement
- allocate sufficient time to fulfil their role and responsibilities;
- respect confidentiality rules;
- declare any conflict of interest and abide by ERA-MIN 2 rules and regulations
- not be personally involved in an application submitted to ERA-MIN 2 joint calls

5. Roles and responsibilities

Members of the Board will be required to provide advice and guidance on issues related to the implementation of joint calls for transnational R&I projects throughout the ERA-

MIN 2 project. In particular, the Board will advise on Scientific Evaluation Board members.

Their role is to help ensuring that international and European organisations' views and needs are included/taken into account in the definition of the topics in the joint calls, and thus guarantee an effective two-way communication.

Each member will represent the stakeholder organisation within their sector/sub-sector. Members of the Board will receive the documentation (i.e. draft call topics) by email by the Coordinator in advance of the meeting and all information provided must be kept confidential.

The Advisory Board will comment on the documents (i.e. call topics) proposed by the Call Steering Committee and other relevant committees within one week of receiving the documentation.

The members are expected to attend a meeting per year before the launch of a joint call.

6. Meetings

6.1 Agenda, Minutes and meeting procedures

The Executive Board will convene and steer the Advisory Board meetings. The ERA-MIN 2 coordinator will chair the Advisory Board meeting or appoint a representative.

The agenda and documentation for any individual meeting will be provided at least one week before any meeting. Members of the Board may include agenda items under Any Other Business (AOB).

The Advisory Board will meet once per year before the launch of a joint call once they receive the documentation (i.e. draft call topics) although inputs are also expected by email upon request.

ERA-MIN 2 will cover the costs associated to travel and accommodation of members to attend the Advisory Board meetings, if requested.

It is anticipated that the first meeting of the Advisory Board will take place on 2nd December 2016 in Brussels, taken advantage that Kick-off meeting is also scheduled for that date.

