



Creation and Integration of novel industrial value chains for SMEs in the raw materials & mining sectors through ICT, Circular Economy, Resource Efficiency & Advanced Manufacturing innovation support



H2020-INNOSUP-01-2019 Grant Agreement:
873149





Participant organisation



1. FUNDACION ICAMCYL (ES)
2. IBERIAN SUSTAINABLE MINING CLUSTER (ES)
3. ASSOCIAÇÃO CLUSTER PORTUGAL MINERAL RESOURCES (PT)
4. ASSOCIACAO PORTUGUESA DOS INDUSTRIAIS DE MARMORES E RAMOS AFINS (PT)
5. GEOKOMPETENZZENTRUM FREIBERG EV (GE)
6. KEMIN DIGIPOLIS OY (FI)
7. INDUSTRIAL CLUSTER SREDNOGORIE (BU)
8. CENTRUM KOOPERACJI RECYKLINGU - not for profit system (PO)
9. AXELERA (FR)
10. CLUSTER DE FABRICACION AVANZADA DE LA INDUSTRIA DEL METAL DE ASTURIAS (ES)
11. ASOCIACION INVESTIGACION, DESARROLLO E INNOVACION EN ARAGON (ES)

MINE.THE.GAP target countries: Bulgaria, Finland, France, Germany, Poland, Portugal, Spain, Greece and Sweden.







The overall aim of **MINE.THE.GAP** is to provide a **support platform** for the reinforcement of existing value chains and the development of new **industrial value chains in the raw materials & mining sectors** by means of cross-sectoral and cross-regional innovation and support services in **cluster-related SMEs** through synergies and interactions with providers and facilitators from the existing and emerging fields of **ICT, circular economy, resource efficiency and advanced manufacturing**.



H2020-INNOSUP-01-2019 Grant Agreement:
873149





The main ambition of MINE.THE.GAP project is to provide SMEs from the raw materials and mining sectors the necessary tools to improve their competitiveness, boost their growth and implement new services, solutions and/or products through cross-sectorial and cross-regional collaboration.

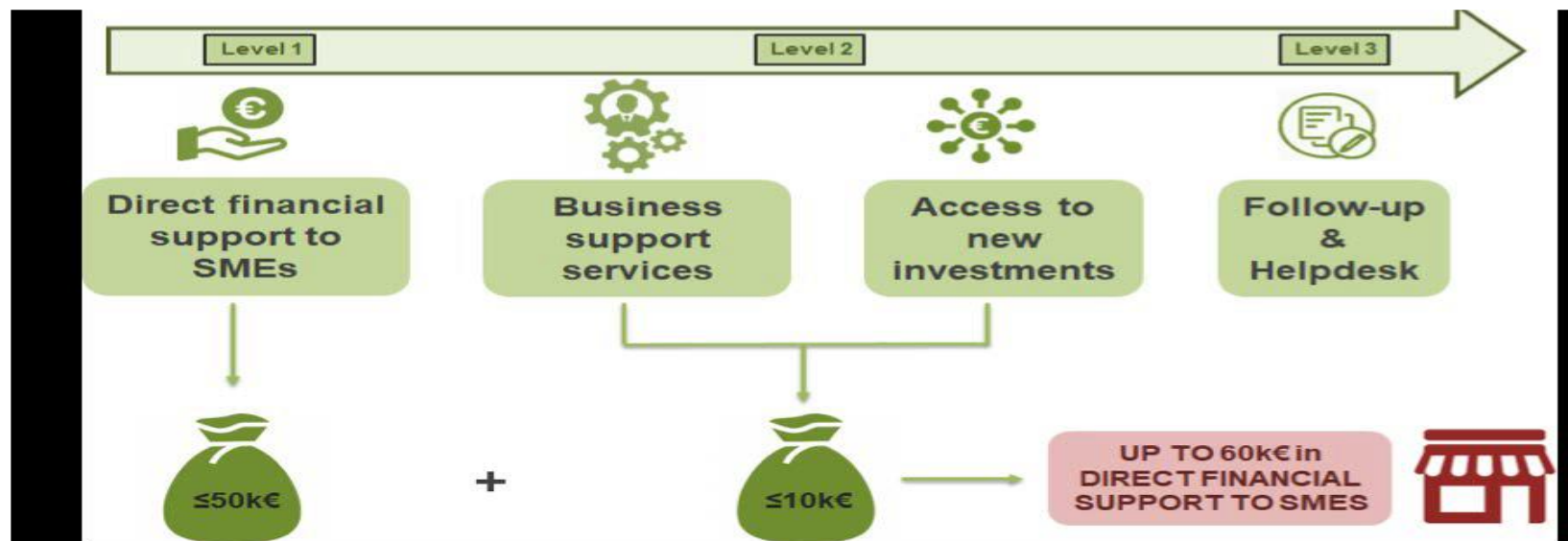
MINE.THE.GAP initiative is a fund based for the attribution of Vouchers to reinforce synergies between raw materials mining SMEs and providers from the existing fields of ICT, Circular Economy, Resources Efficiency and Advanced Manufacturing.



H2020-INNOSUP-01-2019 Grant Agreement:
873149



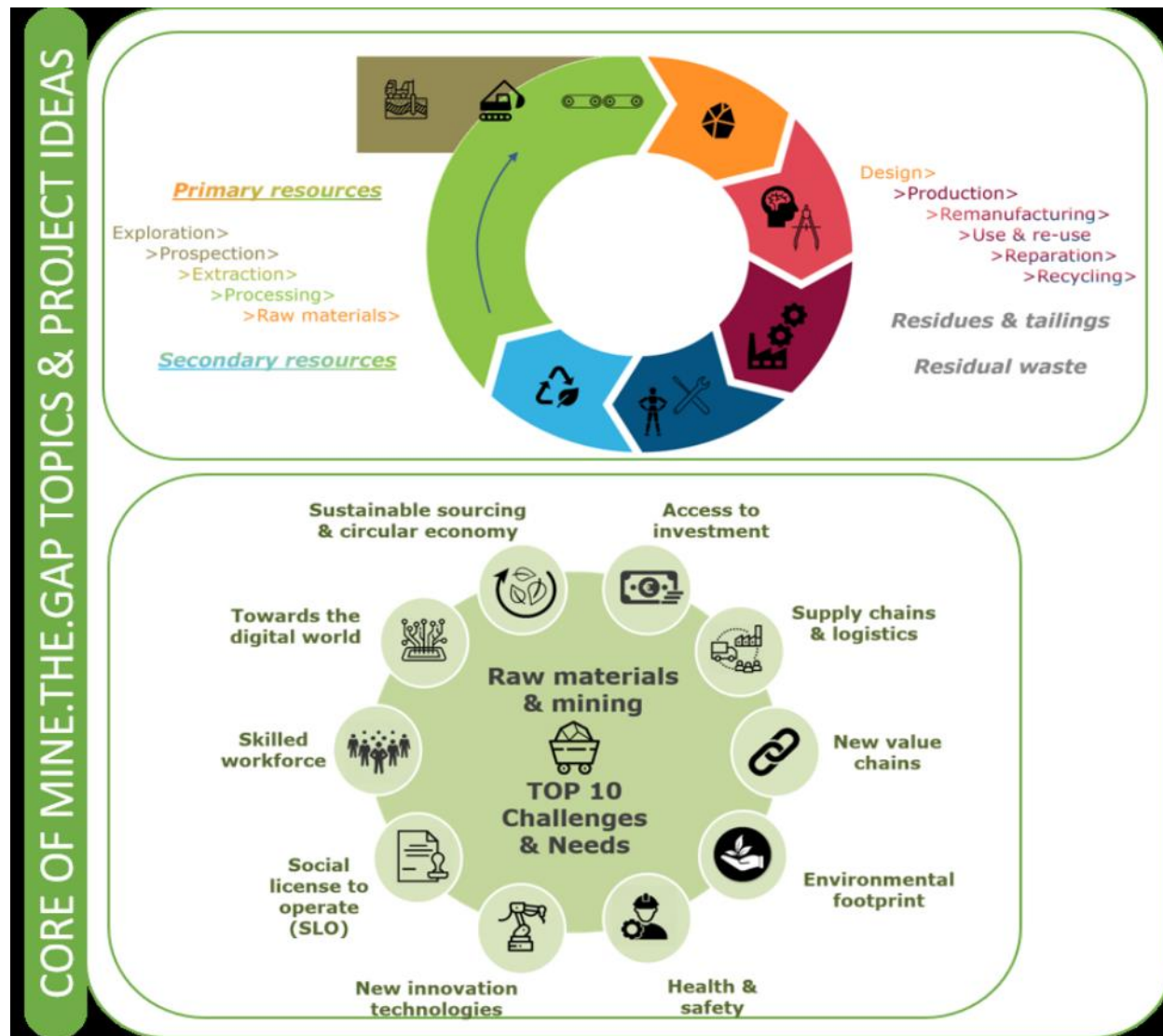
The main innovation support offered to the awarded SMEs through MINE.THE.GAP open calls



The total amount of direct financial support for SMEs in this Call, under MINE.THE.GAP is 1,5 Million of euros.



The MINE.THE.GAP vouchers will support projects that are aligned with the major challenges and needs of the raw materials and mining sectors,



Main key areas

KA1 - Adoption and implementation of innovative technologies oriented to improve the sustainable supply of raw materials from mineral resources and anthropogenic deposits, including innovative exploration technologies or technologies that will boost competitiveness in mining life cycle.

KA2 - Eco-friendly technologies and environmental actions to achieve a sustainable mining approach, technologies to mitigate the impact of mining or to reclaim post-operation mining land and/or revitalise the economy of the region.

KA3 - Circular economy plans, technologies, methods, analysis and business model (i.e., industrial symbiosis) to be applied at any stage of the operation cycle of raw materials value chain, ensuring an eco-efficient operation of a mining exploitation or related to the circular supply of raw materials.

KA4 - Process technologies, advanced manufacturing technologies, robotics, oriented to improve productivity and the efficient use of resources, recovery of raw materials (including co and by-product), recycling technologies or other approaches increasing eco-efficiency in the sector of raw materials.

.



Main key areas



KA5- Towards the digitalisation of the raw materials sector. Innovative technologies to be applied into mining, processing, smelting operations that improve SMEs competitiveness, contribute to an efficient use of resources, reduction of emissions, or ensure safe operations.

KA6 - Advanced training skills, methods, technologies and occupational safety innovative measures for the workers oriented to improve the operations and attract or recover jobs in a new transformed sector essential for the Just Transition.

KA7- Cross-cutting topics, highlighting the importance of new business models, new financial and investment methodologies for the raw materials sector, forefront methods or exploration data bases for low environmental impact exploration, and methods to improve public perception of mining and processing/metallurgy in addition to legislative obligations in order to better gain the social acceptance (Social License to operate – SLO.)





ADOPTERS

RAW MATERIALS AND MINING SECTORS

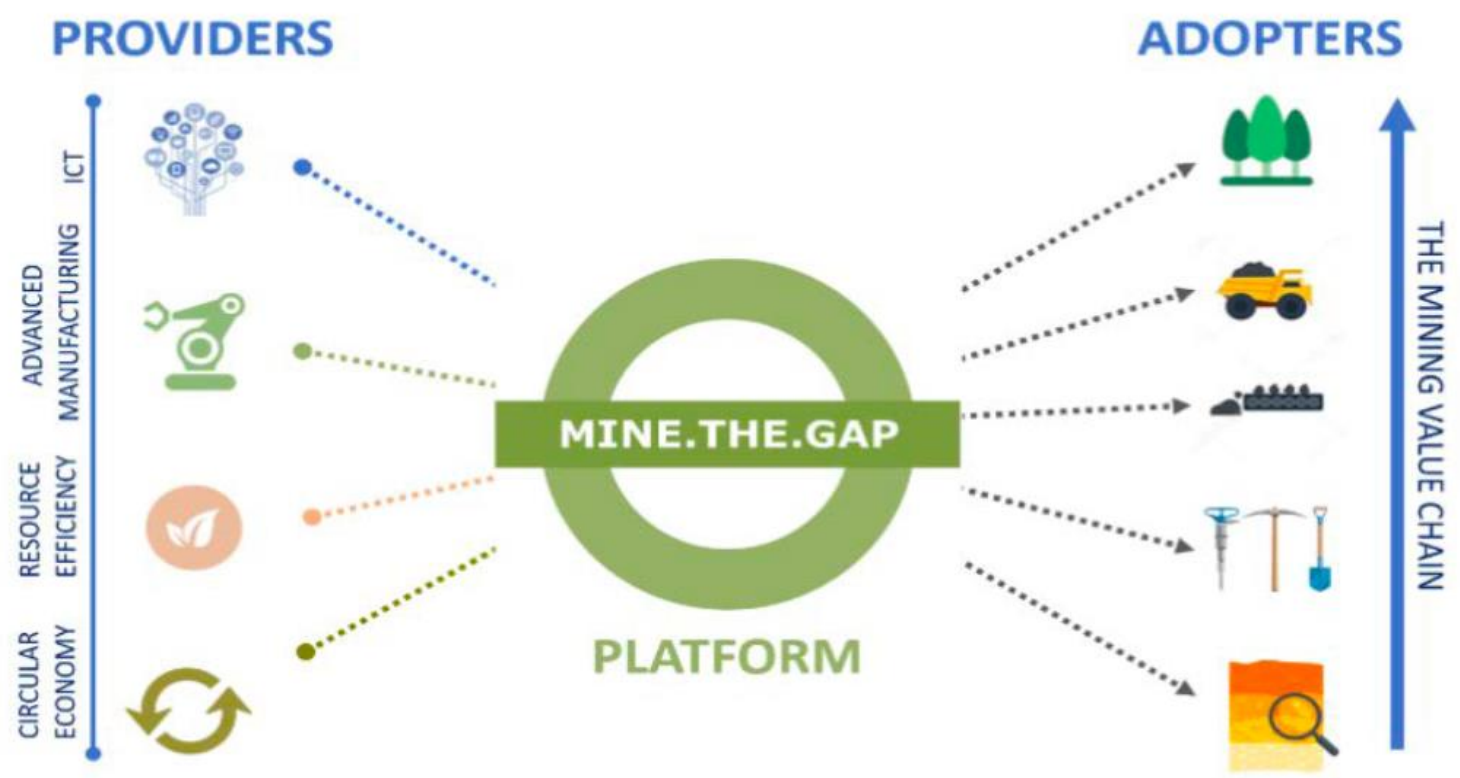
Any SME implementing technology and innovation value across the whole raw materials value-chain, including, but not limited to: Mining operation and exploitation companies, exploration, prospection, extraction, processing, design, production, remanufacturing, use, re-use, reparation, recycling.

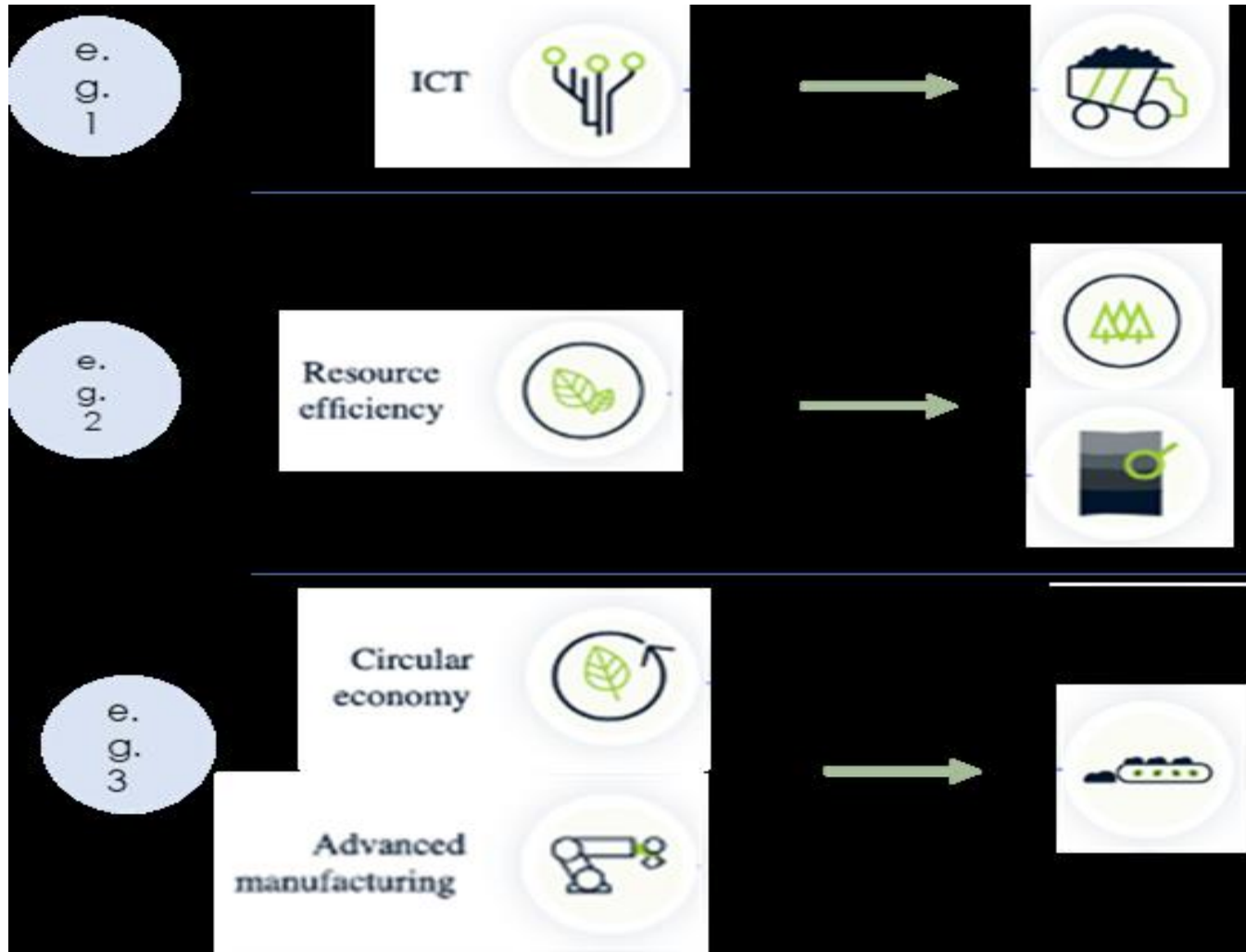
PROVIDERS

ICT, CIRCULAR ECONOMY, RESOURCE EFFICIENCY AND ADVANCED MANUFACTURING

Any SME providing technology and innovation value to be applied into the raw materials value chain from the following sectors: ICT, Circular Economy, Efficiency of resources/Sustainability, Green Technology and Advanced Manufacturing.









TYPE OF PROJECT	TRL	PROJECT DURATION
MINE-PoC: design and implementation of a prototype/proof-of-concept to demonstrate the viability of the proposed solution.	TRL6-7	9 Months
MINE-Demo: developing and testing in a production environment of a simple functional demo/pilot with all the major features of the product/service/solution.	TRL7-8	12 Months



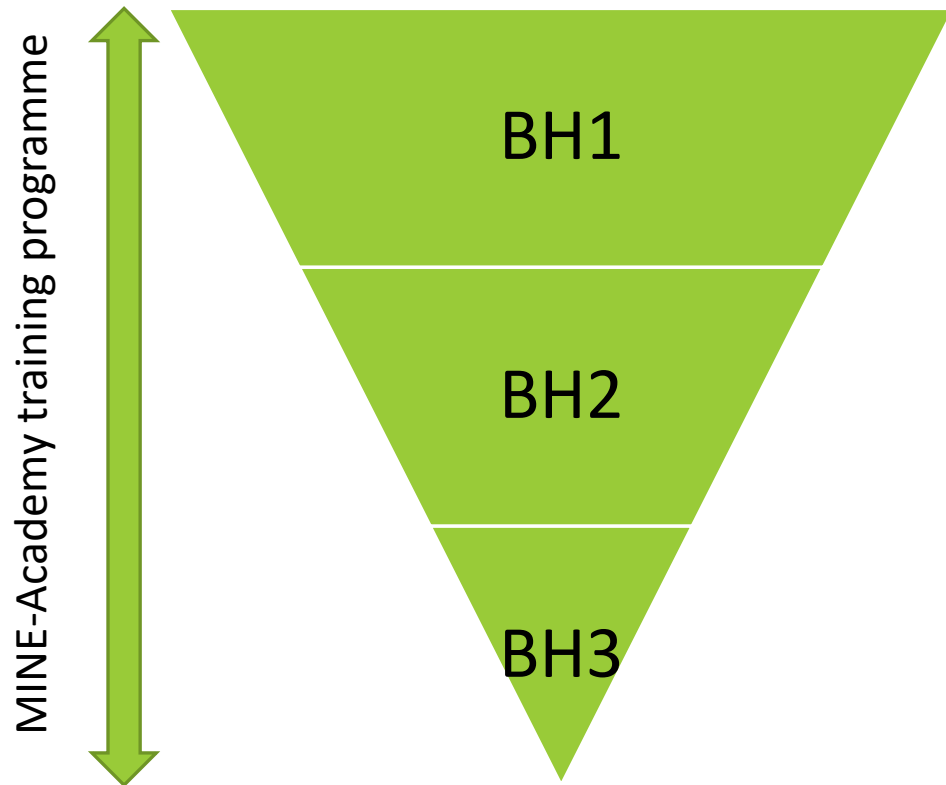


Maximum funding per SME/project	MINE-PoC	25.000,00 €
	MINE-Demo	50.000,00 €
Maximum funding per project:	MINE-PoC	75.000,00 €
	MINE-Demo	150.000,00 €

Type of financial support: Lump-sum



Business Innovation Support Services to SMEs



BH1 – Innovation support services

Through 2 open calls, **87 SMEs** will be selected and will receive a “Start-up Package” of 3k€ to perform support services related to innovation.

BH2 – Technology transfer & commercialisation support services

From BH1, **30 SMEs** will be selected and will receive a “Follow-up Package” of 2K€ to perform business support services related to technology transfer.

BH3 – Internationalisation support services

From BH2, **15 SMEs** will be selected and will receive a “Mobility Package” of 2k€ to perform a mobility/Exchange programme in another SME from a different sector and a different EU country.

Transversal to the 3 BH, a complete training programme based on online learning resources will be prepared



More information

<https://h2020-minethegap.eu>

<https://h2020-minethegap.eu/open-calls/>

www.klasterodpadowy.com





1. Indicate which trends in economic development will affect the world economy (3-5 trends) and which of them will be the greatest challenge for the raw materials and mining industries in the coming years.

2. How to stimulate innovation in the mining and raw materials industry to make it more sustainable - identify key technologies, industries, r & d and indicate how best to develop cross-industry cooperation (1-2 proposal).





Klaster Gospodarki
Odpadowej i Recyklingu



KRAJOWY
KLASTER
KLUCZOWY

SOCIAL MEDIA



Twitter

@KlasterOdpadowy



Facebook

@klasterodpadowy



Lindedin

@klaster gospodarki odpadowej i
recyklingu

www.klasterodpadowy.com



CENTRUM KOOPERACJI RECYKLINGU

not for profit system sp. z o.o.

This project has received funding from the European Union's EU Framework Programme for Research and Innovation Horizon 2020 under Grant Agreement No 873149

