**Integrated Modular Plant and Containerised Tools for Selective, Low-impact Mining of Small High-grade Deposits**

**Fact Sheet**

**Project Information**

<table>
<thead>
<tr>
<th>IMPaCT</th>
<th>Funded under H2020-EU.3.5.3.</th>
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<tr>
<td>Grant agreement ID: 730411</td>
<td>Overall budget € 6 991 820</td>
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<tr>
<td><a href="#">Project website</a></td>
<td>EU contribution € 6 991 820</td>
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**Status**

- Closed project

**Start date**

1 December 2016

**End date**

31 May 2020

**Coordinated by**

**THE UNIVERSITY OF EXETER**

United Kingdom

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**This project is featured in...**

**RESULTS PACK**

Mineral Extraction: Securing access to raw materials at minimum environmental and social costs

24 September 2020

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**Objective**
The current mining paradigm promotes extraction from large ‘world-class’ deposits that have required innovations in mining techniques to deal with low grades, large infrastructure to deal with high throughputs and large feasibility studies to prove long-term commercial viability. High investment in operations is no longer available in the current economic climate and many small companies have ceased to trade, concentrating production and limiting the ability of the raw materials market to respond to increased demand for raw materials or shortages in raw material supply. The problem is most extreme for critical raw materials that are produced in small quantities relative to traditional metal commodities because the potential return on investment is too low. The IMPaCT project proposes a solution that develops a new switch on-switch off (SOSO) mining paradigm to improve the viability of many critical metal and other small complex deposits.

The whole systems approach that we have adopted to realise the SOSO mining paradigm centres around technological innovations in mining equipment design and mine planning that would reduce the feasibility studies required, throughput of extracted material, infrastructure, land use, resource consumption and waste. Successful business models for SOSO mining require that mining and processing technologies can be adapted to multiple deposits and commodities. Risks that are associated with the approach concern geological uncertainty, metallurgical variability and social acceptance. The work programme aims 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. The companies involved in the project intend to commercialise the results. Dissemination activities include feedback to European and national policy makers, and the mining industry in general.

Field of science
/social sciences/economics and business/business and management/commerce
/social sciences/economics and business/business and management/business model
/social sciences/economics and business

Programme(s)

Topic(s)

Call for proposal
H2020-SC5-2016-OneStageB
Funding Scheme

RIA - Research and Innovation action

Coordinator

THE UNIVERSITY OF EXETER

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The Queen's Drive Northcote House
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Activity type
Higher or Secondary Education Establishments

EU contribution
€ 2 293 772.99

Website
Contact the organisation

Participants (9)

BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES

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Activity type
Research Organisations

Website
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MINECO LIMITED

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EU contribution
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Activity type
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(excluding Higher or Secondary Education Establishments)

Contact the organisation

RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN

Germany
<table>
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<th>Organisation</th>
<th>EU contribution</th>
<th>Address</th>
<th>Activity type</th>
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<td>Templergraben 55, 52062 Aachen</td>
<td>€ 419 781,25</td>
<td>Higher or Secondary Education Establishments</td>
<td>Website</td>
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<tr>
<td>South Kensington Campus, Exhibition Road, SW7 2AZ London</td>
<td>€ 664 956,25</td>
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<td>Chemin De Montfaucon 18, 30150 Saint-genies-de-comolas</td>
<td>€ 260 260,76</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
<td>Contact the organisation</td>
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<td>Elopellontie 1 G, 33470 Ylojarvi</td>
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CYMRU COAL LIMITED
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€ 1 359 622,50
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