SLIM

Project ID: 730294

Finanziato nell’ambito di:
H2020-EU.3.5.3. - Ensuring the sustainable supply of non-energy and non-agricultural raw materials

Sustainable Low Impact Mining solution for exploitation of small mineral deposits based on advanced rock blasting and environmental technologies

Dal 2016-11-01 al 2020-10-31, progetto in corso | SLIM Sito web

Dettagli del progetto

<table>
<thead>
<tr>
<th>Costo totale:</th>
<th>Argomento (i):</th>
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<tr>
<th>Contributo UE:</th>
<th>Invito a presentare proposte:</th>
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<tbody>
<tr>
<td>EUR 6 979 200</td>
<td>H2020-SC5-2016-OneStageB</td>
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<tr>
<th>Coordinato in:</th>
<th>Meccanismo di finanziamento:</th>
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<tbody>
<tr>
<td>Spain</td>
<td>RIA - Research and Innovation action</td>
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Obiettivo

The main economic, technological and environmental challenges of small mining include reducing high investment costs, reducing generation of waste and large tailings, identifying and addressing environmental impacts, and improving flexibility, automation and safety of operations. However, at the moment, there is no quick-fix available to reduce the environmental impact from mines, and it is neither realistic to expect production solutions very distant from today’s technologies. Considering that the present mining technology is based on rock blasting and mobile mining equipment for loading and transportation, the major challenge is to generate a new sustainable systemic solution that affects positively the relevant mining value chain.

SLIM aims 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) through a new generation of explosives and an advanced automatic blast design software based on improved rock mass characterisation and fragmentation models for optimum fragmentation and minimum rock damage and far-field vibrations.

SLIM consortium is led by UPM (es), with LTU (se), MUL (at) and TUG (at) as Research Institutions, 3GSM (at - Rock fragmentation and blasting software), MAXAM (es - Explosives), ORGIVA (es - Fluorite mine) and ERZBERG (at - Iron mine) and ARNO (es - Quarry) as validators in relevant environment. BRGM (fr), INVESTORNET (dk), MINPOL (at), and ZABALA (es) complement the Environmental and Economic assessments, the Communication and Dissemination activities and Social Awareness actions.

SLIM addresses the following issue: a) Sustainable selective low impact mining (2016), it has a planned duration of 48 months and a budget of €6,979,200 requesting €6,979,200 of EU funding.

Informazioni correlate

<table>
<thead>
<tr>
<th>Sintesi delle relazioni</th>
<th>Periodic Reporting for period 1 - SLIM (Sustainable Low Impact Mining solution for exploitation of small mineral deposits based on advanced rock blasting and environmental technologies)</th>
</tr>
</thead>
</table>
Contributo UE: EUR 798 212,50

Contributo UE: EUR 424 050

Contributo UE: EUR 373 250

Contributo UE: EUR 241 180

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