

PROJECT PARTNERS

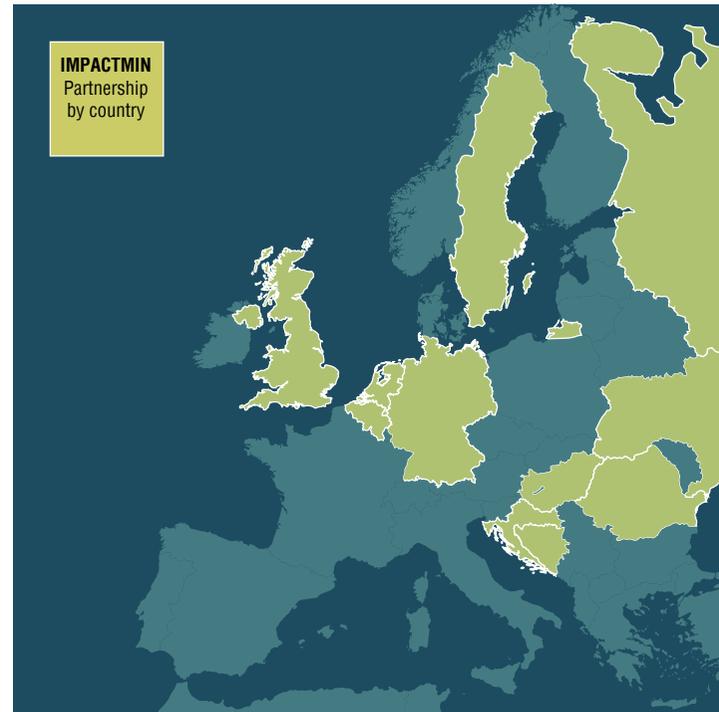
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| 1. Geonardo Ltd. | HU |
| 2. Geosense | NL |
| 3. University of Exeter, Camborne School of Mines | UK |
| 4. Lulea University of Technology | SE |
| 5. Photonsplit d.o.o. | HR |
| 6. University of Mostar | B&H |
| 7. Institute of Mineralogy, Russian Academy of Science | RU |
| 8. Babes-Bolyai University | RO |
| 9. Ukrainien Land and Resource Management Center | UA |
| 10. DMT GmbH & Co.KG | DE |
| 11. Flemish Institute for Technological Research | BE |

FACTS AND FIGURES

Instrument:	CP-SICA FP7
Total Cost:	3.313.473 €
EC Contribution:	2.613.824 €
Duration:	36 months
Start Date:	01/01/2010
Consortium:	11 partners from 11 countries

For more information please visit: www.impactmin.eu

NETWORK OF PARTNERS



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DG Research



IMPACT MONITORING OF MINERAL RESOURCES EXPLOITATION



www.impactmin.eu

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INTRODUCTION

The Challenge

Since the overall objective of ImpactMin is to develop new methods and a new toolset for impact monitoring of mining operations using Earth Observations and in-situ data, it points towards a future wherein decision making is based on coordinated, comprehensive and sustained Earth Observation and information, which is the main objective of the Global Earth Observation System of Systems (GEOSS). Moreover, in the implementation of GEOSS, increased sharing of methods for modeling and analysis needed to transform data into useful products will be advocated. ImpactMin will address the need of the provision of timely data and products for policy makers, thereby harmonizing observations, real- or near real-time monitoring, integration of information from in situ, airborne and satellite observation through data assimilation and models.

Project Objectives

ImpactMin will develop new methods and a corresponding toolset for the environmental impact monitoring of mining operations using Earth Observations. Cutting-edge technology will be proposed for the combined use of satellite remote sensing, aerial lightweight measurements including hyperspectral and gamma ray imaging spectroscopy and Unmanned Aerial Vehicles (UAVs). The proposed methods will be validated at four demonstration sites corresponding to different scales and scope.

In addition, ImpactMin project will address the major aspects of responsible mining by creating a better understanding for measuring the socio-economic elements of mining operations based on established indicators. By assessing society's perception of the extractive industry, and by determining the lowest carbon footprint options for the European minerals industry, ImpactMin seeks to enhance the awareness of the challenges and solutions for responsible mining.

The theoretical advancement in science and technology will be made public knowledge with the help of a free multimedia interactive e-learning programme whereas the tools and foreground knowledge generated by the project will be commercialised by the participating SMEs.

DEMONSTRATION SITES



Kristineberg, Sweden

Five ponds containing pyrite-rich tailings



Rosia Montana, Romania

Gold and silver deposits



Mostar Valley, Bosnia & Herzegovina

Abandoned coal mine



Orenburg Region, Russia

Centre for mining and precious and base metals production

NETWORK WITH THIRD PARTIES

Numerous ways are open to get in touch with ImpactMin project. The primary information source about the project is at our **official project home page** where public documents will be available about the knowledge generated by the project.

It is also possible for anyone to subscribe on our web page as an **end-user**, offering the possibility to comment or influence the project work by recommending, advising or specifically consulting with our experts about the project aims and its execution.

The project will disseminate information and knowledge via **project workshops** and other special interest **meetings and conferences**.

In the second half of the project, a **free interactive e-learning program** will be available to registered users making science and technology advancement public knowledge.

The Consortium is willing to collaborate with any actors from the **mining and EO industry** during the project course with **barter agreements** or through other forms even after the termination of the project.

The aim of any collaboration shall be to serve the technological and scientific excellence of the project in order to **achieve set goals of ImpactMin**.

– Thank you for your interest –