

## BRIGHT CONCEPTS FOR A SAFE & SUSTAINABLE DIGITAL MINING FUTURE



9

Mio. Funding

**19** Project Partners



**European Countries** 



**5** Use Cases



SAFE ZONE CONCEPT FOR THE MINING INDUSTRY



ADVANCED PREDICTIVE MAINTENANCE & EFFICIENT OPERATION



SUSTAINABLE & INTELLIGENT MINERAL RESOURCE EXTRACTION



DEPENDABLE MULTI-LEVEL DISTRIBUTED INDUSTRIAL INTERNET OF THINGS PLATFORM & NOVEL USER INTERFACES



Europe urgently needs to reduce its import dependency in respect to a multitude of raw materials. In order to do so, the process of traditional mining must be entirely redesigned via the adoption of pioneering innovations, accompanied by extensive use of data analytics and new types of Industrial Internet of Things devices.

Comprehensive digitization of important mining aspects, such as the mineral deposit, rock mass stability or equipment condition, safety and environmental monitoring, the illuMINEation project addresses all of the three key factors that influence the sustainability and profitability of mining operations: occupational health & safety performance, environmental impacts and efficient resource extraction.

## **Further information**

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