



MINE.IO

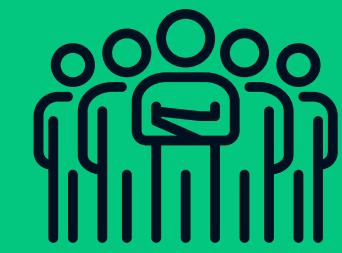
A Holistic Digital Mine 4.0 Ecosystem

Mine.io aims to provide solutions that will build a novel mining digital ecosystem and a systemic structure for the implementation of Industry 4.0 in mining industrial environments.

HORIZON CL4 2022 RESILIENCE 01 06
Start date 01/01/2023
GA No: 101091885

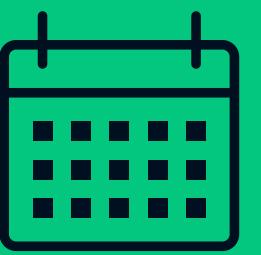


Co-funded by
the European Union



Partners

25



Duration

42 months



Budget

€ 14M



Demonstrations

7 Pilots



Co-funded by
the European Union



Digitization of all
mine procedures



Workload
optimization



Application
marketplace



Environmental
footprint reduction

mineio-horizon.eu



Increase of energy
efficiency and production



Workflow
automation



Waste reduction
and reuse



Electrification of
underground trucks



Co-funded by
the European Union



MINE.IO

Expected Impact



Mine.io project will be energy saving and production improvement, through electrification and process automation.



Contribute to the creation of environmentally friendly, resource-efficient, and production-efficient sustainable mining practices.



Technologies and processes focused on making the production of raw materials more automated and digitalized.



The novel digital infrastructure will embrace the technologies, facilitating openness, sharing, and collaboration.

mineio-horizon.eu



Co-funded by
the European Union



Innov-acts



Tele and Radio Research Institute



Łukasiewicz
EMAG



UNIVERSIDAD
DE SALAMANCA



AGH



ENRX



Politecnico
di Torino



UNIVERSITY
OF OULU



TUBAF
The University of Resources.
Since 1765.



ERZGEBIRGISCHE FLUSS- und SCHWERSPATWERKE GmbH



LULEÅ
UNIVERSITY
OF TECHNOLOGY



ACCELIGENCE



LAVRION
TECHNICAL
CULTURAL
PARK



ICCS



MEMBER OF BASQUE RESEARCH
& TECHNOLOGY ALLIANCE

Pilot sites

ML and AI tech optimize flotation process control in mineral plants



Ore Processing Plants,
KGHM Polska Miedź S.A.,
Polkowice, Poland

Fusing geophysical data for tailings facilities monitoring and management



Pyhäsalmi Mine,
North Ostrobothnia,
Finland

Digitalization Drill Operations and Advanced Digital Mining Maintenance & Digital Smelter



Research and Education Mine
“Reiche Zeche”,
Freiberg, Germany

Active fluorspar mine - primary use case for electrification and automation



Oberwiesenthal, Germany

Underwater tech validation for mines. UX-1Neo robot maps environments



Malaposta open pit site,
Urgeiriça mine,
Portugal

Digital waste solutions with Muon Tech for mining environmental management



Lavrion Ancient Silver Mines,
Attica Region,
Greece





MINE.IO

Contact us



mineio-horizon.eu



info@mineio-horizon.eu



linkedin.com/company/mineio-horizon



x.com/mineio_horizon



facebook.com/mineio.horizon



Co-funded by
the European Union