This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101003750

WHAT IS DEQ?

DIGIECOQUARRY aims to design, develop and validate in **5 pilot environments an Innovative Quarrying System** (IQS) comprising sensors, processes, tools and methods for data capture, processing and sharing to provide **integrated digitalised, automatic and real-time process** control for **aggregates quarries**.

Health & Safety and Security

Upgraded H&S and Security conditions for workers, avoiding their exposure to dangerous operations through automated and controlled processes.

Efficiency, Selectivity and Profitability

Enhanced Selectivity and Efficiency of the aggregates sites, thus increasing the profitability of the processes, ensuring long-term operational sustainability and viability.

Environmental Impact

Maximised Sustainability and Resource Efficiency by reducing emissions, improving the management of water and fostering a sustainable supply of Raw Materials.

Social Acceptance

Improved social acceptance through the communication with policy makers, citizens and relevant actors to get them involved in the value chain

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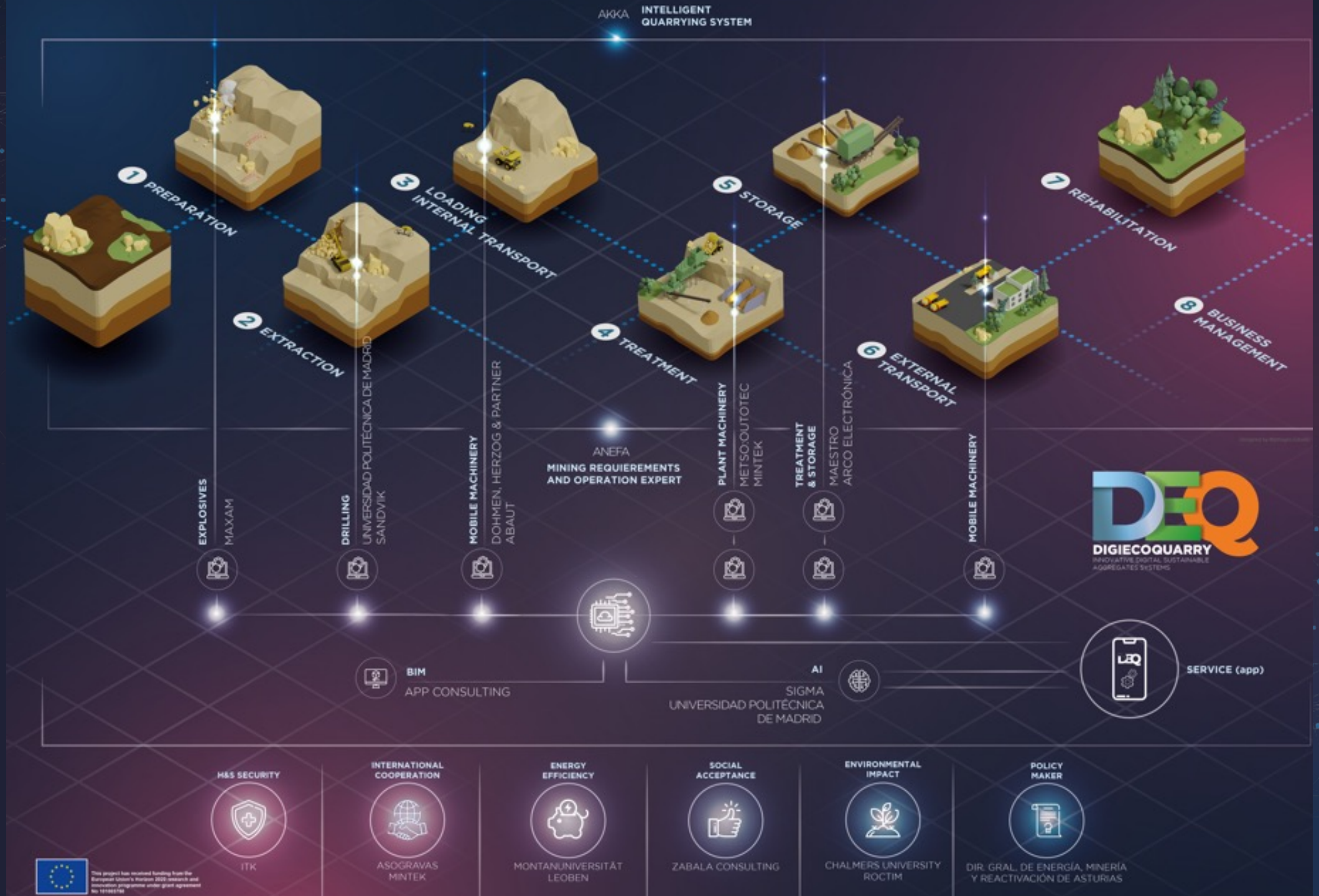

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101003758

OUR CONSORTIUM

CONSORTIUM PARTNERS: 25 organisations. 23 from 8 different EU countries + 2 international partners

QUARRYING INDUSTRY

TECHNOLOGY EXPERTS

RELEVANT STAKEHOLDERS

INTERNATIONAL ADVISORY BOARD

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OUR PILOTS

GRANULATS VICAT
Fenouillet

PUBLIC ACCEPTANCE

SOLUTIONS TO BE TESTED

Mobile crusher w/ advanced noise and dust capturing.
Continuous weighting systems.
Monitoring sensors for mobile machinery.

HANSON
Valdilecha

DRILLING & BLASTING

SOLUTIONS TO BE TESTED

Advanced rock mass characterisation.
New drilling technology and explosives.
Drill to mil concept implementation.
Monitoring sensors for mobile machinery.

HOLCIM
Pioltello San Bovio

CRUSHING OPTIMISATION

SOLUTIONS TO BE TESTED

Digital twin for crushing and screening optimisation.
Software for the automation of the treatment plant.
Continuous weighting systems.
Monitoring sensors for mobile machinery.

CSI
Mammendorf

ENERGY EFFICIENCY

SOLUTIONS TO BE TESTED

Mobile equipment real time modelling.
Geological deposit digitalisation.
Geofence system.

CIMPOR
Alenquer

TRANSPORT & STORAGE

SOLUTIONS TO BE TESTED

Software for the automation of the treatment plant.
Sensors for mobile machinery.
Continuous weighting systems.

3D BIM modelling – H&S technologies – Environmental platform simulation – Artificial Intelligence algorithms – Social License to Operate

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DIGIECOQUARRY
INNOVATIVE DIGITAL SUSTAINABLE AGGREGATES SYSTEMS

THANK YOU!

https://digiecoquarry.eu/

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