



PROJECT

DigiEcoQuarry

The future of quarries - A significant breakthrough in process digitalisation and automation capabilities for the aggregates industry.

Currently, quarries are missing the great opportunities of digitalisation. In fact, they use $\leq 1\%$ of the data produced. The biggest challenge is to connect all the quarry processes and integrate their management in real-time, to improve and optimise their operating regime. DIGIECOQUARRY's ambition is to tap the full potential of "Digital Quarries" through a significant breakthrough in process digitalisation and automation capabilities for the aggregates sector.



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PARTNERS

8

COUNTRIES

€13 M

TOTAL BUDGET

4

YEARS



IN ONE CLICK		
Coordinator ANEFA	Programme Horizon 2020	Period 2021-2025
Sector Environment	Web https://digiecoquarry.eu/	

01

Objectives

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.

02

Solutions

- Digital innovative quarry requirements definition, to establish the basis for the development of the Key Technology Areas.
- Selection, development and integration of technologies towards Industry 4.0.
- Implementation and validation of all the developments in the different pilots, including the operation, monitoring and assessment of the results.
- Definition of mechanisms for social acceptance, clustering activities for knowledge improvement in the sector of RM and dissemination, communication & exploitation activities.

03

Impacts

- Improved H&S and Security conditions for workers.
- Improved Selectivity and Efficiency of the aggregates extractive sites, increasing the profitability of the quarrying processes, ensuring long-term operational sustainability and viability.
- Maximised Sustainability and Resource Efficiency in the quarry operations by reducing emissions, improving the management of water and fostering a sustainable supply of RM.
- Improved social acceptance through the communication with policy makers, citizens and relevant actors.