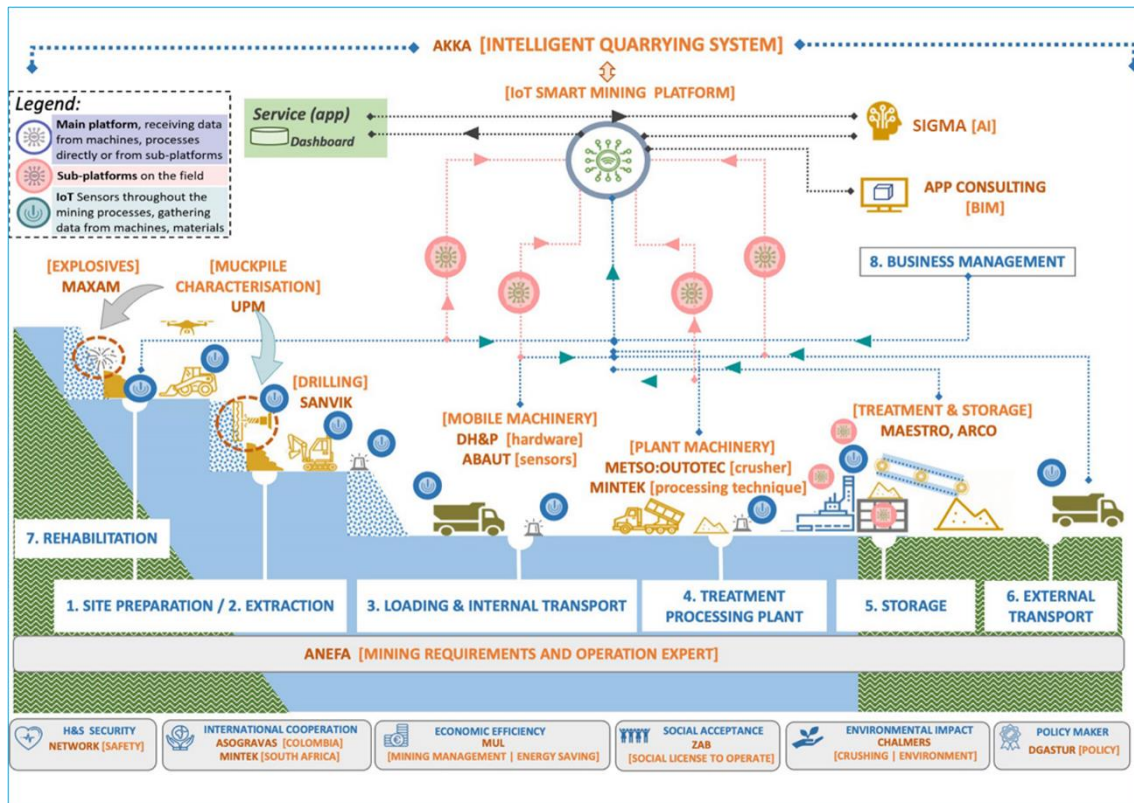


DIGIECOQUARRY



Summary:

DIGIECOQUARRY is a H2020 Project addressing the topic C5-10-2019-2020, which will exploit the aggregates industry's great potential through a coordinated approach towards construction materials management with the final goal of reducing EU external supply dependency as well as leading an efficient use of resources. The project will develop systems, technology and processes for integrated digitisation and automation real-time process control, to be piloted in 5 EU quarries. The development of innovative an Intelligent Quarrying System will increase the sustainable supply of minerals for the construction sector as well as enabling the sustainable extraction of EU's mineral resources in existing and new quarries.

Duration:

1 June 2021- 31 May 2025

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**. This will translate into:

1. Improved Health, Safety and Security conditions for workers, avoiding their exposure to dangerous operations through automated and controlled processes.

2. Improved Selectivity and Efficiency of the aggregates extractive sites, thus increasing the **profitability** of the quarrying processes, ensuring long-term operational sustainability.

3. Maximised Sustainability and Resource Efficiency in the quarry operations by reducing emissions, improving the management of water and fostering a sustainable supply of raw materials to feed new and existing value chains closing minerals loops and ensuring a long-lasting production.

4. Improved social acceptance through the communication with policy makers, citizens and relevant actors to get them involved in the value chain. DIGIECOQUARRY will seek for international cooperation within the EU but also beyond, to share knowledge and best practices and improve the general perception of the quarrying industry.

The novel technologies will be piloted in 5 EU quarries with different characteristics to demonstrate ensure representative and transferable results, with a market-oriented approach.

Use cases:

- 1.-Granulats Vicat (Fr) – **Fenouillet** (Excavation material from building sites and recycling)
- 2.-Hanson (Es) – **Valdilecha** (Hard rock limestone quarry)
- 3.-Holcim (It) – **Pioltello** (Sand and gravel under-water pit quarry)
- 4.-CSI (De) – **Mammendorf** (Hard rock andesite quarry)
- 5.-Cimpor (Pt) – **Alenquer** (Hard rock limestone quarry)

Budget: € 16 764 835,30

Consortium:

- Asociación Nacional de Empresarios Fabricantes de Áridos ([ANEFA](#))
- GRANULATS VICAT ([VICAT](#))
- HANSON HISPANIA SA ([HANSON](#))
- Holcim Agregati Calcestruzzi SRL([HOLCIM](#))
- Cronenberger Steinindustrie Franz Triches GMBH & CO KG ([CSI](#))
- AGREPOR AGREGADOS –Extraccao De Inertes, SA ([CIMPOR](#))
- Sandvik Mining And Construction OY ([SANDVIK](#))
- METSO OUTOTEC FINLAND OY ([Metso Minerals](#))
- MAXAMCORP INTERNATIONAL SL ([Maxam corp](#))
- ITK Engineering GMBH ([ITK](#))
- Montanuniversitaet Leoben ([MUL](#))
- Chalmers Tekniska Hoegskola AB ([CHALMERS](#))
- Universidad Politécnica De Madrid ([UPM](#))
- Akka High Tech ([AKKA](#))
- ARCO Electrónica Sociedad Anónima ([ARCO](#))
- MA ESTRO SRL ([Ma-estro SRL](#))
- Dohmen Herzog & Partner GMBH ([DH&P](#)) /
- ABAUT GMBH ([Abaut GmbH](#))
- APP Consultoria de Gestion De Proyectos S.L. ([APP Consultoria](#))
- SIGMA Technologies SLU ([SIGMA](#))
- Consejería de Industria, Empleo y Promoción Económica ([DGASTUR](#))
- Asocacion Colombiana de Productores de Agregados Pétreos ([Asogravas](#))
- MINTEK ([MINTEK](#))
- ZABALA Innovation Consulting, S.A. ([ZABALA](#))
- ROCTIM AB ([ROCTIM](#))

Social media:

Webpage: <https://digiecoquarry.eu/>

Twitter: @Digi_eco

Youtube: @digiecoquarry974

Instagram: @digiecoquarry

Linkedin: @Digiecoquarry