

Deliverable D9.3.

DISSEMINATION AND COMMUNICATION MATERIALS





Deliverable report

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List of Abbreviations

ABBREVIATION	DESCRIPTION
CA	Consortium Agreement
DoA	Description of Action
DCEP	Dissemination, Communication and Exploitation Plan
ЕВ	Exploitation Board
EC	European Commission
GA	Grant Agreement
IQS	Intelligent Quarrying System
KPI	Key Performance Indicator
MoM	Minutes of Meetings
PCo	Project Coordinator
RP	Reporting Period
WP	Work Package



1 Executive Summary

This document constitutes the first version of the Dissemination and Communication Materials of the DIGIECOQUARRY project.

This deliverable will be updated in months 24 and 36 to keep the strategies set in D9.1 Dissemination, Communication and Exploitation Plan up to date.

DIGIECOQUARRY is a Horizon 2020 project aiming 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.

The DIGIECOQUARRY consortium will combine the latest researched and advanced technologies applied to quarry operation together with the integration of selected innovative digital solutions to boost the capacity of the aggregates industry, to enhance Health & Safety conditions for workers, to improve the Process and Efficiency of the aggregates extractive sites, to maximise Sustainability and Resource Efficiency in the quarry operations and to foster Social Acceptance.

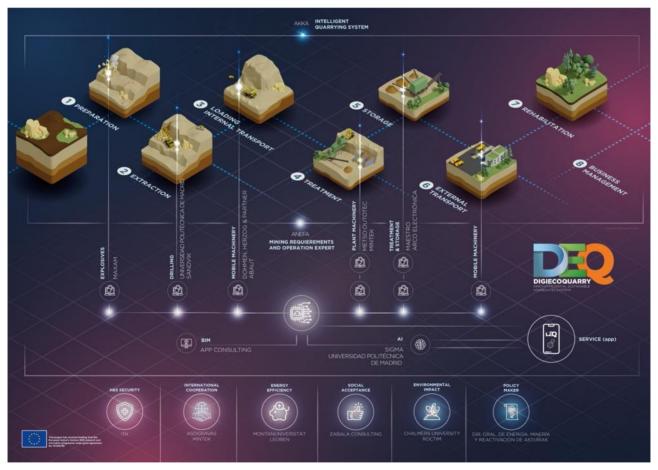


Figure 1. DIGIECOQUARRY's concept.

GA # 101003750

This document describes the current status of the overall awareness raising process, the management and monitoring of the dissemination activities and partners' responsibilities. It includes specific actions and activities that have been carried out by the DIGIECOQUARRY consortium members to ensure success and maximum publicity for the project and its results.

With that said, this deliverable outlines (see Figure 2):

- What has been disseminated. Devoting to the basic project-related information that will be conveyed throughout the project.
- To whom the project has been disseminate to. Consisting of the key stakeholder groups that will serve as the main audiences for the project's dissemination, awareness raising and communication campaign.
- How the project has been disseminated. Including all the channels and tools that will be used by project partners to successfully implement the dissemination activities.
- When the project has been disseminated. Providing the time frame to ensure that the timing of the dissemination activities is appropriate, during the lifespan of the project and beyond.
- Monitoring of the process. Indicating the indicators to gauge success on the dissemination, awareness raising and communication actions, enabling partners to refine efforts over the course of the project.

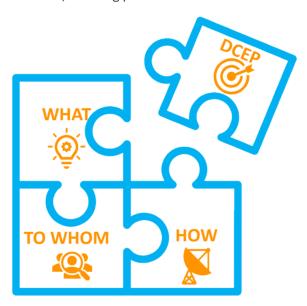


Figure 2. DCEP strategy.

2 Introduction

2.1 Scope of the deliverable

This report, titled 'D9.3: Dissemination and Communication Materials', aims to follow up on the designed strategy, plan and activities implemented under the DIGIECOQUARRY project, whose goal is to maximise the project's visibility and impact.

With the plans and actions described, the DIGIECOQUARRY Consortium aims to meet the following dissemination objectives:

- To effectively promote the project and its results to all possible target groups and audiences at national and a European level.
- To establish links and liaisons with international organisations and other interested stakeholders to provide wider dissemination.
- To establish synergies with other relevant projects and initiatives.
- To validate the project outcomes, to obtain feedback from expert groups, scientists and interested user communities.

Dissemination, Communication and Exploitation strategies and actions are the cornerstone for generating a deep impact of the DIGIECOQUARRY results in terms of attracting the interest of the main stakeholders and social acceptance.

To maximise the impact beyond the project lifetime, these actions will be undertaken within three WPs: WP7. Mechanisms for social acceptance and interaction with policy makers; WP8. Clustering activities for a solid EU knowledge base on RM; and WP9. Dissemination, Communication and Exploitation.

These activities will be articulated with 4 master plans: [1] Dissemination strategy, [2] Clustering plan, [3] Exploitation strategy and [4] Communication strategy (all of them based on this D9.1).

2.2 Relation to other activities and deliverables

The Dissemination, Communication and Exploitation Plan will serve as the basis for the dissemination, communication, exploitation activities together with the monitoring of related intellectual property rights facts foreseen in Tasks 9.1, 9.2 and WP7 and WP8. This deliverable will also provide the guidelines for the organization of the project events and workshops as well as for the participation to external events and other relevant initiatives.



Figure 3. Relationship between WPs.



2.3 Structure of the deliverable

With the above in mind, the "Dissemination and Communication Materials" is structured as follows:

Section 1 – Executive summary. Contains a brief fact sheet about the project.

Section 2 – Introduction. Provides meaningful information regarding the DCEP and its structure as well as its scope and its relation to other tasks, activities and deliverables.

Section 3 – Dissemination assets.

Section 4 – Target groups.

Section 5 – Dissemination and communication materials & tools.

Section 6 – Performance indicators and monitoring.

Section 7 – Timetable.

Section 8 - Conclusions: Summarises the conclusions of this report as well as the way forward.

Annexes

2.4 Partners' role in the dissemination strategy

DIGIECOQUARRY partners and their strategic positioning in Europe (and also ASOGRAVAS and MINTEK in Colombia and South Africa, respectively) count with vast capacities to influence the target communities and will act as multipliers. Table 1 summarises the main dissemination strategies to be implemented:

Table 1. Dissemination Strategy per partner profile.

PARTNERS	DISSEMINATION STRATEGY
Large companies: SANDVIK, METSO, MAXAM, AKKA	They have an important influence and impact in the aggregates industry, quarry technology providers, construction and complementary sectors (such as OEMs and 1 st tier providers) including their client networks and commercialisation channels. Dissemination will focus on engaging potential customers interested in exploiting product/services generated.
SMEs: ITK, ARCO, MAESTRO, DH&P, ABAUT, APP, SIGMA, ZABALA	They are mainly interested in attracting new clients and reinforcing the loyalty of customer portfolio thanks to the new competitive advantages acquired related to the KTAs and the IQS. SMEs will make available to DIGIECOQUARRY their existing client/supplier networks as well as the involvement of their Marketing and Communication departments.
Quarries: VICAT, HANSON, HOLCIM, CSI, CIMPOR	They are eager to extend their client portfolio and strengthen links with the already existing ones. Their Dissemination actions will be based on the presentation of improved products (in quality, economic, environmental and social terms) to engage specific stakeholders and end users, mainly in the construction sector (e.g., cement, RMC, road base and subbase, mortar, asphalt, etc). Also, they would like to influence positively the perception of quarrying in the society (see section 2.3).
R&D and Academia: MUL, CHALMERS, UPM, MINTEK, ROCTIM	They aim at engaging with the EU (and also international) scientific and industrial communities to raise awareness about the project and contribute to knowledge generation and sharing. They pursue the generation of new research lines and training programmes aligned with the key pillars established in H2020. They are seeking to Involve their research groups and communication departments in dissemination activities. Reinforcement of the EU RM' sector.
International cooperation, Promoters & Public bodies: ANEFA, DGASTUR, ASOGRAVAS	They will engage with their network of contacts to maximise their dissemination impact by using their wide partners network, benefiting from their experience/expertise in meetings, workshops and conferences to establish contact and bound relations with target groups of the wide range of themes of DIGIECOQUARRY. They would like to bridge the gap between science, practice and society by organising targeted stakeholder workshops to bring together stakeholders, industry, policy makers and citizens to facilitate public acceptance.

3 Dissemination Assets

The Project's assets and outcomes that are here described, have been disseminated by all partners with a view to maximise the project's impact and visibility. This information is being conveyed in a meaningful way and tailored to each stakeholder group, in order to promote not only the DIGIECOQUARRY's results, but also its vision and aim.

- The conceptual aspects of the project, meaning the whole project concept, its innovative characteristics, its impact both on business and at social level, etc.
- The technical achievements of the project like the DIGIECOQUARRY IQS platform and the respective ICT infrastructure and needed toolkits. The assets of this category will be highly disseminated on appropriate channelonce these tools are developed and thus a more detailed communication strategy will be contained in the next version of the DCEP.
- The scientific knowledge that derives from the project in the form of reports, scientific articles, etc.
- All the spectrum of the project's activities, like the four workshops that will be organized in the framework
 of DIGIECOQUARRY, the closing event, the participation in external events and every other action that
 could be of interest to the project's target groups.

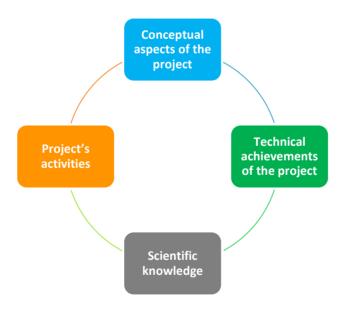


Figure 4. DIGIECOQUARRY's dissemination assets

4 Target groups

The key stakeholders of DIGIECOQUARRY can be segmented into the four target groups outlined below. The actual stakeholders have been identified and registered in a stakeholders Excel worksheet.

- Business stakeholders: with potential interest in the project's successful execution and results that will
 expand the project's scope towards new market opportunities to maximise its impact.
- Academic and research stakeholders: Academics, researchers and experts focused on advancing the scientific fields cross-cutting DIGIECOQUARRY.
- Governmental and policy stakeholders: policy makers are of primary interest for the consortium given that they are responsible for setting the guidelines of the current and future mining policies that will affect the commercial feasibility of DIGIECOQUARRY.
- General public stakeholders: non-governmental organizations, civil society groups or simply citizens, interested in the potential of DIGIECOQUARRY to address needs relevant to them.



Figure 5. DIGIECOQUARRY's stakeholders.



Table 2. Target audiences, aims and key messages.

TARGET AUDIENCE	AIM	KEY MESSAGES
1.Aggregates industries & Quarries / RM Stakeholders and end users Material providers Industry associations and representatives	Final users of DIGIECOQUARRY's result Commercial exploitation Project involvement Clustering via WP8	Main results and experience from pilots Improved performance, H&S, social and environmental indicators Economic, investment & cost analysis Prospects of prolonging the productive life cycles of quarries
ICT industry Technology providers Associations and representatives	New range of services in Quarrying Commercial exploitation Open and flexible methodologies for interoperability of ICT tools	Main results and experience reports from the pilots Available materials/services and knowledge generated
3.Researchers at universities, R&D centres or and Scientific societies in RM	Enhanced scientific knowledge R&D cooperation and promotion Clustering via WP8	Increase data available for research Main results shared in EURMKB and RMIS
4.Construction sector and other clients	Promote the development of new or improved products and services based on DIGIECOQUARRY results	Improved cost-efficient products, H&S, social & environmental KPIs Raise awareness
5. Citizens and civil society	General awareness Social acceptance (SLO) Project involvement via WP7	Community Engagement Strategies Social Awareness plan Local engagement plan
6. Policy makers and funding bodies (Government, Regulatory agencies) at local, national and EU level	Provide strong evidence to establish new policies, initiatives and roadmaps for RM Interaction in WP7	Reinforcement of the Quarrying sector Improved performance, H&S, social and environmental indicators Raise awareness
7. Media, journalists and other groups at European level (e.g., environment, energy, safety, NGOs, Consumer's organisations)	General awareness Improved perception of the extractive industry Trend setters	Improved performance, H&S, social and environmental indicators Available materials/services for communication purposes

A preliminary list of identified stakeholders is included in Annex I of the Dissemination, Communication and Exploitation Plan (D9.1).



5 Dissemination and Communication materials and tools

5.1 Promotional materials

Based on the project's identity, as seen in Annex I, the following items have been created.

5.1.1 Roll up

A roll up has been designed for partners attending events where DIGIECOQUARRY is being disseminated.

In the top left corner DIGIECOQUARRY's logo can be found. In the middle is placed the project's motto 'the future of quarries', a brief text, and the four main pillars it leans on. Between the moto and the pillars, it has been decided to big print the logo of the partner who is attending the event. In this example, this would be CSI's roll up.

Finally, at the bottom the logos of all the partners of the consortium are inserted, as well as the disclaimer for EU H2020 projects.



Figure 6. DEQ Rolll up.



Other Roll up will be produced during the project.

5.1.2 Infographics

An overall conceptual diagram of the project (as a one pager) has been designed where all the stages of the quarrying process are shown highlighting the participating partner name active on each of the stages.

Other infographics will be produced during the project.

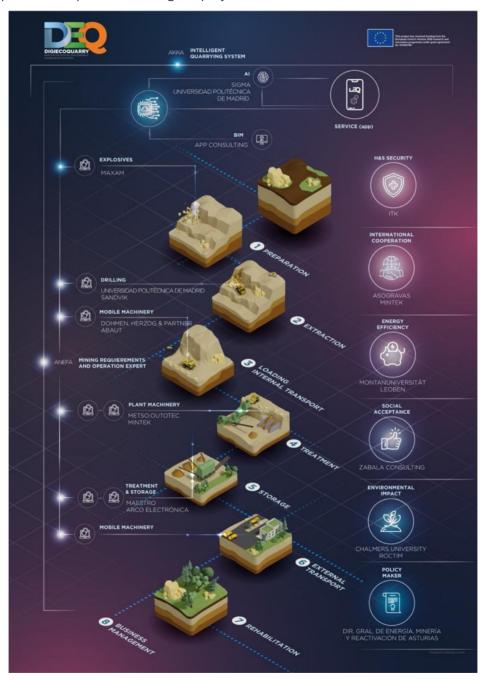


Figure 7. DEQ vertical infographic.

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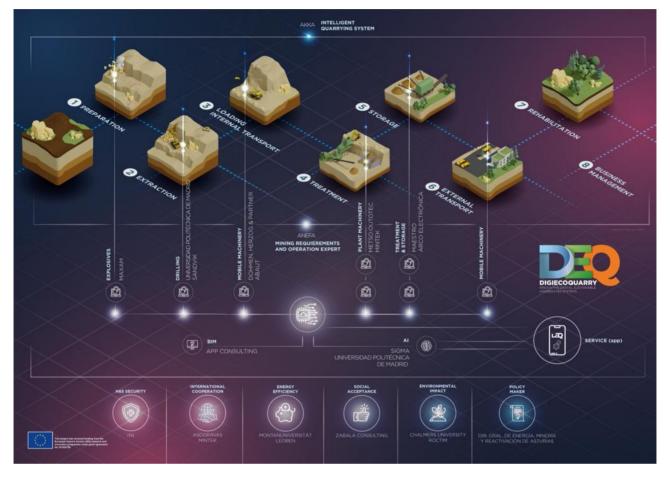


Figure 8. DEQ horizontal infographic.





5.1.3 Leaflets

A leaflet containing general information of the project has been designed. Both in print and online versions.

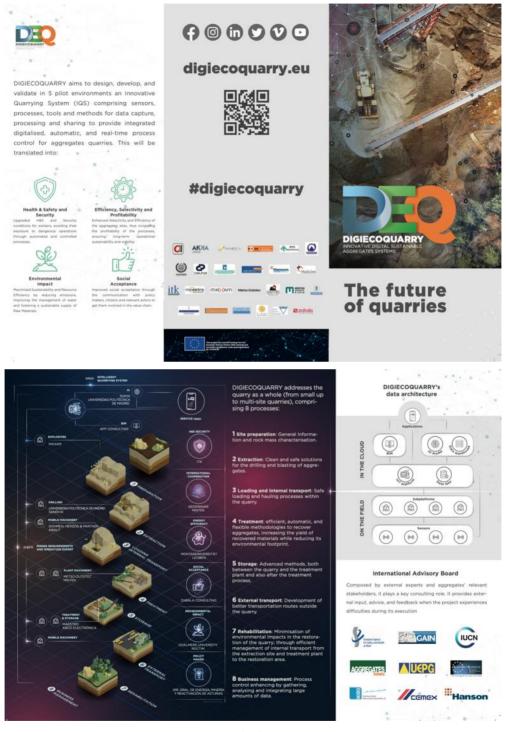


Figure 9. DEQ leaflet print version

GA # 101003750







The future of quarries



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 be translated into:



Health & Safety and

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



Environmental

Maximised Sustainability and Resource Efficiency by reducing emissions, im-proving the management of water and fostering a sustainable supply of Raw



Efficiency, Selectivity and Profitability

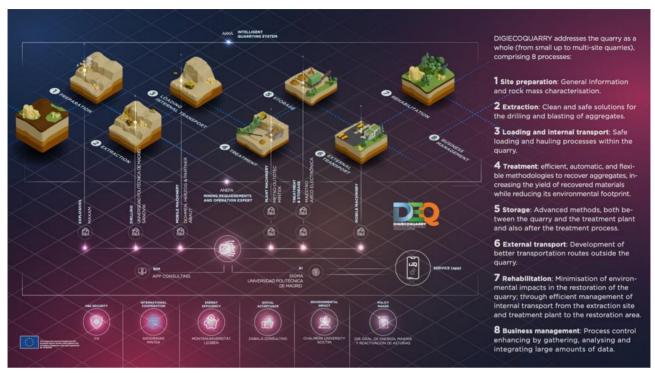
Enhanced Selectivity and Efficiency of the aggregates sites, thus increasing the profitability of the processes, ensuring long-term operational sustaina-

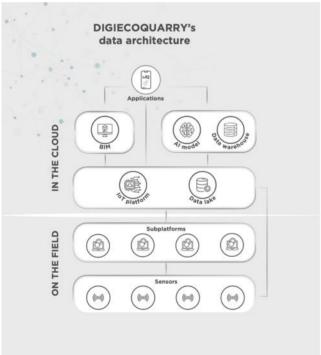


Social Acceptance

Improved social acceptance through the communication with policy makers, citizens and relevant actors to









International Advisory Board

Composed by external experts and aggregates' relevant stakeholders, it plays a key consulting role. It provides external input, advice, and feedback when the project experiences difficulties during its execution

























Figure 10. DEQ leaflet online version.

Other leaflets will be produced during the project.



5.1.4 Posters

A 50 x 70 cm poster has been created, which highlights the 4 main pillars of the project.



Figure 11. DEQ poster.

Other posters will be produced during the project.



5.1.5 Flyers

Also, flyers with specific information about the partners have been produced. Below the one corresponding to ITK is displayed.



Figure 12. DEQ flyer.

Other flyers will be produced during the project.

The list of future communication materials is shown in Annex II.

5.2 Publications

5.2.1 Press releases

Several press clips have been released since the start of the project. They can be found in Annex III . The tittles are the following:

- DIGIECOQUARRY a key project for the digitalisation of the aggregates industry, has been launched.
- ANEFA visits Hanson Heidelberg.
- ANEFA visits Holcim.
- ANEFA team visited Agrepor Agregados Extracção de Inertes.
- Granulats Vicat the French pilot site of the project DigiEcoQuarry.



ANEFA visited Cronenberger Steinindustrie.

5.2.2 Online newsletter

An online newsletter is under preparation to outline the achieved results, upcoming activities and events, news from similar initiatives and news in the relevant scientific fields.

The frequency of the newsletter will depend on the amount and importance of news to be presented, with the target to produce a newsletter at least every 6 months, however additional ad-hoc newsletters may be added if deemed necessary.

5.2.3 Dissemination and communication articles in journals and magazines

Technical and Business-wise publications will be also pursued. DIGIECOQUARRY aims to use such channels and perform targeted dissemination towards business and technical oriented audiences, through publications at relevant business journals and magazines.

'ANEFA actualidad', ANEFA's quarterly magazine has published news about the project on all 2021 issues.

ANEFA actualizad su Código Ético La junta Directiva de ANEFA ha Lagrobado la actualización de los contrados y del formato del Código Etico de la Asociación, para mejor arus difusidos y comunicación hacia los miembros y tercesa pesonas. Una ver más, ANEFA es sitúa a la vanquantida de los organizaciones empresariales, en este casa, en cuestiones de gobernatia y cumplimiento fetro y normativo. Electrivamente, los Códigos Éticos se contrados de complimiento hormativo de Compliance, en la medida en que recogen la misión, vivistos y mortaniano. Electrivamente, los Códigos Éticos se contrados de Complimiento hormativo de Compliance, en la medida en que recogen la misión, vivistos y compartidos de la Asociación, para mentro de Compliance, en la medida en que recogen la misión, vivistos y compartidos. Electros de la Asociación, para mentro de Compliance, en la medida en que recogen la misión, vivistos y compartidos. Electros de la Asociación, para la compliance de la compartación y de acuellas personas que ejercano y un terrado y compliance, en la medida en que recogen la misión, vivistos y un del participa de la compliance de la compartación y de acuellas personas que ejercano y compartido. Electros de la deficiación de la compartación y de acuellas personas que ejercano y compartido. Electros de la decidad de actualizar parte de les conferios de la conficiación de la vista familia parte de les conferios de la conficiación de la vista familia parte de la securio de conficiación de la vista familia de la co

Figure 13. Anefa actualidad. Jan - Feb - Mar issue

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Actualidaddelsector



Comienzan las visitas a las explotaciones piloto del proyecto

El pasado dia 16 de julio tuvo augar sa primer Evisita del equipo de ANEFA, como cuordinado de DIGIECOQUARRY, a la cantera de la compaña Hanson Heidelberg de Valdilecha (Madrid), qui participa en el projecto.

Tras una larga y fructifera reunión, en la cual s pusieron sobre la mesa las prioridades de la e piotación y se afianzaron los objetivos a alca za, se procedió a una visita guiada por las in tábriones.

La primera parada fue la planta de tratamiento, de la que se realizó una explicación en profundidad. A continuación, los trabajadores del taller describieron el automatizado procedimiento a seguir para el mantenimiento de la maquinaria, tanto preventivo como correctivo, que realiPor último, se visitó el hueco y las medidas de remediación que se están llevando allí a cabo.

Además, en el marco del proyecto DIGECOQUI.

825 se vanto le explosación de desida relacionario actual
gregati. Calcestruari (Málin, talla) el pasado a
junio fin esta esplosación se acadisperi Quarvinga Sysmerposo que el 195 (intelligent Quarvinga System ya a logaz fin especial en el estado de la
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valviendos actuaciones para mejora la concetividad del
se visiones para mejora la concetividad del
se mismo y sin dejar de la dolo los problemos
los que se literario de cuarta la actual
so que se literar que entertrata.

En cuanto al impulso del IQS, se profundizo en el desarrollo de los principales KPI (Indicador Clave de Desempeño o Medidor de Desempeño) para impulsar las explotaciones de áridos y permire el diagnostico de las mismas. En ambas esperimientos comisenes se amiliarios miscolares, que permittian aprovechar las oportunidades que ofrece la digislatación, destanción el sos de maisma de para adaptar las explotaciones a lastos masivos) para adaptar las explotaciones a lasdemandas del miscola actual. Cade desistar el apoye recibido por parte del esparo técnico de ambas explosicones.

En los próximas meses, esta prevista la visita al resto de canteiras que farman parte del consorcio. Tras amalizar el estado inicial (se esta desarrollado a taveis de una encuesta específica muy detallada a tados los participantes del proyecto) donde se finene en cuenta las necesidades de las cantense, esta previsto dar a conocer los primeros contratas de la cantense, esta previsto dar a conocer los primeros.



Figure 14. Anefa actualidad. Apr – May – Jun



ANEFA participa en SMOPYC 2021 ANIFA contrar can un stand, el en femenco de Macanamia de Macana

Figure 15. Anefa actualidad. Jul - Aug - Sep.

Another article of DIGIECOQUARRY has been published by the specialized journal Aggregates Business Europe posted the 26th October 2021, with an interview to the project coordinator.



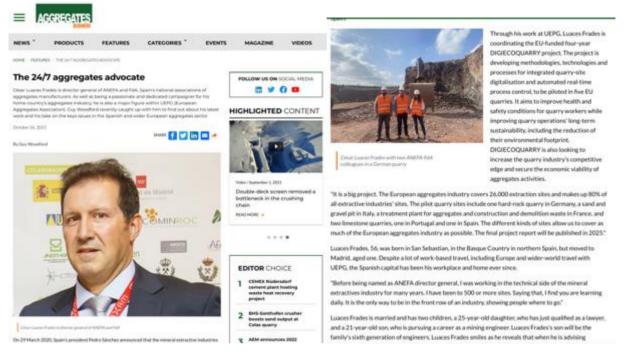


Figure 16. DEQ in Aggregates Business Europe.

A list of identified journals and magazines for dissemination and communication articles can be seen in D9.1 Annex V.

5.2.4 Scientific publications

Scientific knowledge generated during the project will be shared, as far as possible, in open-access scientific conferences and journals.

Each beneficiary will be able to freely choose where to publish. In the event of no preferences, the WP leader will suggest Open Research Europe, an open-access publishing platform for the publication of research stemming from Horizon 2020, Horizon Europe and Euratom (https://open-researcheurope.ec.europa.eu/about).

The project will use Zenodo and ResearchGate as its online repository:

https://zenodo.org/communities/digiecoquarry/?page=1&size=20

https://www.researchgate.net/profile/Digiecoquarry-Project

Targeted scientific publications can be found in D9.1 Annex VII.

5.2.5 Public deliverables

DIGIECOQUARRY's public deliverables are being posted on the website without any access restriction. By now, the following public deliverables have been released.

- D7.6 Requirements for Communication with policy makers & public bodies.
- D8.1 Clustering plan.



- D8.2 Protocols to cooperate with RMIS and EURMKB.
- D9.2 DIGIECOQUARRY's website.
- D9.3. Dissemination and Communication Materials (1|3).
- D10.4 Data Management Plan (1|2).
- D11.1 Ethics Requirements.

The list of public deliverables and their publication date is shown in D9.1 Annex IX.

5.2.6 Joint public-private publications coming from the project, from partners or from organisations outside the consortium

At least 3 joint publications are expected from the Project:

- A technical roadmap for the implementation and improvement of sustainable management of climate change prevention and ecological transition in the extractive industry (including better energy and water efficiency and a reduction in waste, wastewater and emissions) and significantly improving the performance of the solutions provided throughout the whole life cycle.
- A technical roadmap for the implementation and improvement of H&S performance in the extractive industry.
- An improvement roadmap for SMEs with technical proposals to improve each indicator in each production process phase.

5.3 Events

5.3.1 Participation in scientific conferences

The partners of the DIGIECOQUARRY consortium will participate in several scientific conferences, presenting papers, networking with relevant market players for future collaborations, publications, finding out what's new, adding research value, etc.

In the Spanish National Congress, that is going to be held in Oviedo – Spain in May 2022, DIGIECOQUARRY has already committed the following presentations:

- DIGIECOQUARRY: the future of the aggregates sector is already the present.
- The four main pillars for optimal aggregates operation management.
- Benchmarking and Balanced Scorecard in the aggregates sector Transfer of best practice and continuous improvement.
- Digitisation in the Aggregates Industry Implementation Uses and Success Stories.

A list of identified scientific conferences can be found in D9.1 Annex X.

5.3.2 Participation in events, trade fairs and workshops

The partners of the DIGIECOQUARRY consortium have participated in some external events with the aim to boost the dissemination of project's activities and results.



During this six months, DIGIECOQUARRY has been disseminated in SMOPYC, International Show of Public Works, Construction and Mining Machinery (17 to 19 November 2021 – Zaragoza – Spain) and MIRO Forum (24 to 26 November – Berlin – Germany).

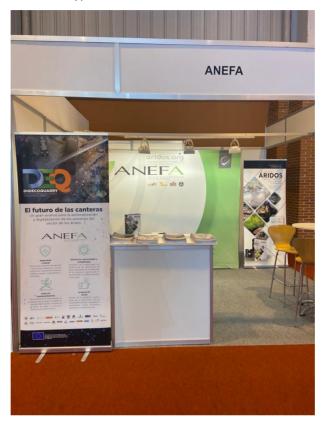


Figure 17. DEQ in SMOPYC.



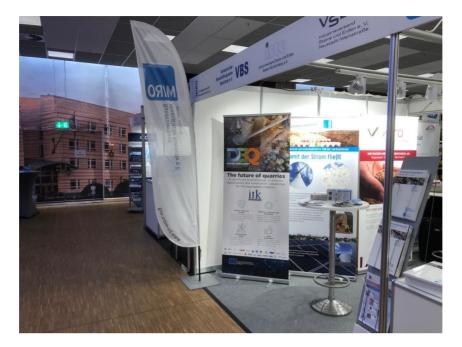


Figure 18. DEQ in MIRO Forum.

A list of identified events, fairs and workshops can be found in D9.1 Annex XII.

5.3.3 DIGIECOQUARRY's workshops, seminars & panel presentations

During the project, four workshops will take place.

The first workshop, organised by ANEFA, aims to familiarise all interested parties with the project and the IQS platform and to obtain insights from relevant stakeholders. This will take place In the Spanish National Congress, that is going to be held in Oviedo – Spain in May 2022, where DIGIECOQUARRY has already committed a Workshop Aggregates 4.0 – DIGIECOQUARRY (Thursday, 22nd May).

The remaining workshops, seminars & panel presentations will include parallel demonstrations and training sessions, so as to showcase the project's benefits, gather end-user feedback for further improvements, as well as to investigate the interest for the commercial exploitation of the DIGIECOQUARRY solution.

A list of identified workshops, seminars & panel presentations can be found in D9.1 Annex XIV.

5.4 On-line presence

5.4.1 Project's website to foster the IQS platform, dissemination and act as a central point to reach the network of partners sites

The project's web portal (https://digiecoquarry.eu/) has already been developed, in its first version, by M2 of the project and it constitutes the main gateway to DIGIECOQUARRY's activities, deliverables, news and events.

At this point the web portal contains information about the project's concept and approach, its objectives, the consortium, the most recent and active related projects as well as some initial news.

As the project evolves, the web portal will be permanently updated and further enriched with all publishable deliverables, promotional material and events. Links to relevant initiatives, to social media accounts of the project and to project partner's webpages are also included.

ANEFA is responsible for the design, operation and update of the project's web-portal. All partners are required to create links (banners) to the project web-portal on their websites and to contribute with the news to be uploaded as well as to publish occasionally news of the project to the web-portals of their organisations.

The DIGIECOQUARRY's portal will be mentioned in all publicity material generated by the project Consortium.

The current simplified structure of the website is:

- What is DEQ?
- About us
- Objectives
- Concept
- News
- Contact us

This simplified structure is temporary, to avoid sections without any relevant content.

In the coming months, according with the developments and new materials, this simplified structure will be improved and extended (see Figure 19), in order to gather all the information about the project:

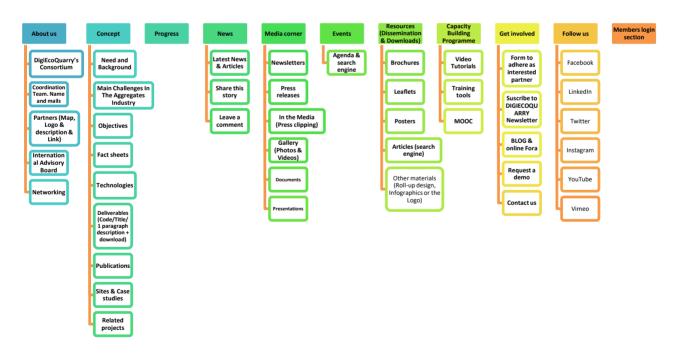


Figure 19. DIGIECOQUARRY's final structure of the Website.

Other sections of the Website will be:



- Follow us on social media: Facebook / LinkedIn / Twitter / Instagram / YouTube / Vimeo.
- DIGIECOQUARRY PROJECT CONCEPT (text + visual description with infographics) / AIMS (text + visual description with infographics) / APPROACH (text + visual description with infographics) / IMPACTS (text + visual description with infographics).
- Next Event Announcement & Registration.
- Access to the DIGIECOQUARRY platform.
- Videos.
- Partner Logos Display.
- Map.
- International Advisory Board.
- Drone video-visits to the sites.
- Agenda.
- NEWS (latest news).
- Contact.
- EU Flag "This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement № 101003750".
- Members only section.

The traceability between the first version of the site and the final configuration is shown in Table 3.

Table 3. Evolution of www.digiecoquarry.eu.

Initial configuration of www.digiecoquarry.eu	Final configuration of www.digiecoquarry.eu
What is DEQ?	What is DEQ?
About us	About us
DigiEcoQuarry's Consortium	DigiEcoQuarry's Consortium
Coordination Team. Name and mails	Coordination Team. Name and mails
Partners (Map, Logo & description & Link)	Partners (Map, Logo & description & Link
International Advisory Board	International Advisory Board
Networking	Networking
Objectives	Concept
Health & Safety and Security	Need and Background
Efficiency, Selectivity and Profitability	Main Challenges In The Aggregates Industry
Environmental Impact	Objectives
Social Acceptance	Health & Safety and Security
	Efficiency, Selectivity and Profitability
	Environmental Impact
Concept	Social Acceptance
Need and Background	Fact Sheets
Main Challenges In The Aggregates Industry	Technologies
Fact Sheets	Deliverables (Code/Title/1 paragraph description + download)
	Publications
	Sites & Case studies
	Related projects
	Progress
News	News



Latest news and articles	Latest news and articles
Share This Story, Choose Your Platform!	Share This Story, Choose Your Platform!
Leave a comment	Leave a comment
	Media corner
	Newsletters
	Press releases
	In the Media (Press clipping)
	Gallery (Photos & Videos)
	Documents
	Presentations
	Events
	Agenda & search engine
	Resources (Dissemination & Downloads)
	Brochures
	Leaflets
	Posters
	Articles (search engine)
	Other materials (Roll-up design, Infographics or the Logo)
	Capacity Building Programme
	Video Tutorials
	Training tools
	Massive Online Open Course – MOOC
Contact us	Get involved
How Can We Help?	Form to adhere as interested partner
Follow us in social media	Subscribe to DIGIECOQUARRY Newsletter
Get In Touch	BLOG & online Fora
	Request a demo
	Contact us
	How Can We Help?
	Follow us in social media
	Get In Touch
Follow us	Follow us
Facebook	Facebook
LinkedIn	LinkedIn
Twitter	Twitter
Instagram	Instagram
YouTube	YouTube
Vimeo	Vimeo
	Member's login section

The list of websites of the partners is shown in Annex IV and a further explanation on the website in D9.2.

5.4.2 Project's social media accounts & network with partner's social media profiles

The creation of accounts & channels in Facebook, LinkedIn, Twitter, Instagram, YouTube and Vimeo is considered key to the communication of the project's news, events and outcomes.

The list of URLs of DIGIECOQUARRY's social media is:

■ Facebook: https://www.facebook.com/Digiecoquarry





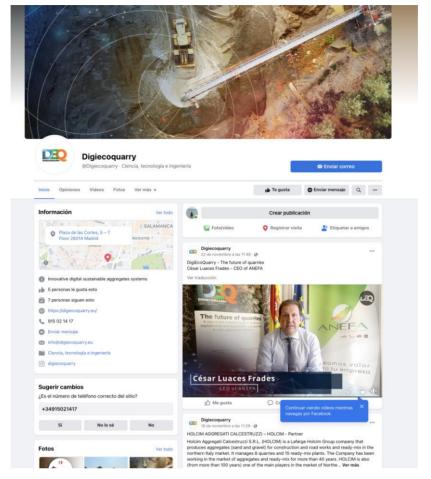


Figure 20. Facebook profile.

LinkedIn: https://www.linkedin.com/company/digiecoquarry/





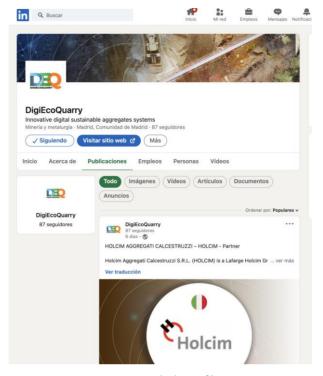


Figure 21. LinkedIn profile.

Instagram: @digiecoquarry

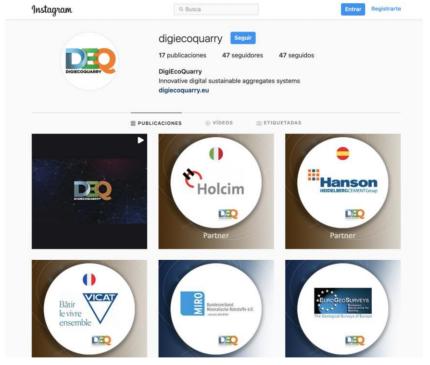


Figure 22. Instagram profile.

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Twitter: @digi_eco

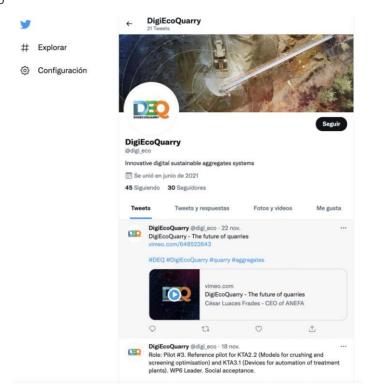


Figure 23. Twitter profile.

YouTube: https://www.youtube.com/channel/UCdxX0C0k6kY5YEiW-sw1McA

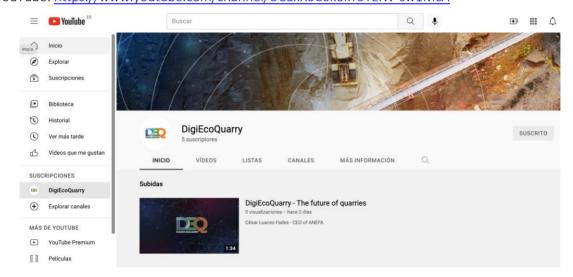


Figure 24. YouTube profile.

GA # 101003750

Vimeo: https://vimeo.com/digiecoquarry

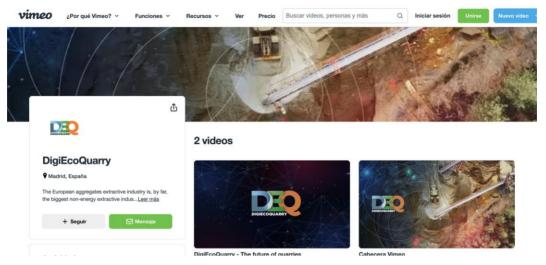


Figure 25. Vimeo profile.

The project's social media are continuously updated in English with news about the project's activities and results, various events, scientific news, news from several organizations and associations, news from related EU projects etc.

The frequency of social media posts depends on the availability of news about the activities and results of the project.

Regarding the YouTube channel, promotional videos will be produced so as not only to create awareness but also to exploit viral marketing effects.

The videos will be uploaded to the project's YouTube & Vimeo channels and emphasize on promoting the project's results along with their value propositions as well as its events and demonstration activities.

ANEFA is responsible for the administration of the DIGIECOQUARRY's social media sites.

All partners are required to become a member or a follower of the social media accounts, to actively comment the social media posts of the project and also to disseminate publishable material through their contact networks. Partners are also asked to interact with news, uploads, tweets and retweets, conversations and comments in the social media sites of the project, during the whole three-years duration of the grant, as well as to publish posts and news about DIGIECOQUARRY regularly, through the social media of their organizations.

The list of social media of the partners is shown in Annex V.

The direct accesses to DIGIECOQUARRY's social media is available on the website.

5.4.3 Blog and on-line Fora

All partners will contribute to the blog and on-line fora with scientific (articles in scientific journals / conferences) and non-scientific (press releases, magazine articles, blogs) publications, that is currently under design.



5.4.4 Videos

Drone flight videos of each site are being currently recorded and dissemination and communication videos will be produced in the next months.

The script of the videos is under preparation.



Figure 26. Bumper video.

5.4.5 Capacity Building Programme (CBP) oriented to potential users and adopters

This will comprise video tutorials, a Massive Online Open Course – MOOC, a simulator for professionals and virtual workshops with third parties, but this will be detailed later.

The actions of the DIGIECOQUARRY's Capacity Building Program (CBP) will be included and announced in the agenda of the website.

The programmes of the DIGIECOQUARRY's Capacity Building Program (CBP) will be available in the project website.

5.5 Other channels & tools

5.5.1 Partners' communication channels

DIGIECOQUARRY takes advantage of the support of Partners' communication channels. Some of them, have published press clips about the project, that can be found in Annex VI

The list of Partners' communication channels is shown in Annex VII.

5.5.2 EU dissemination channels

DIGIECOQUARRY's communication and dissemination plan will take advantage of the following EU dissemination channels that could be used during the project:

■ EU-OSHA.





- CEDEFOP. The European Centre for the Development of Vocational Training brings together policymakers, social partners, researchers and practitioners to share ideas and debate the best ways to improve vocational education and training policies.
- European Enterprise Network (EEN). The EEN is an EU network of around 600 business support
 organizations from more than 60 countries, including chambers of commerce and industry, technology
 centres, research institutes and development agencies.
- CORDIS (Community Research and Development Information Service) WIRE. CORDIS WIRE is a CORDIS
 online service that helps research and business community to promote projects' activities by publishing
 news and events on CORDIS
- EU Info-days, workshops and conferences.

5.5.3 Links and interactions with the exploitation plan

A specific strategy will be defined to create synergies between the DIGIECOQUARRY communication and dissemination plan and the exploitation plan, in order to optimise them.

5.5.4 IP and knowledge management plan

The IP and knowledge management strategy for DIGIECOQUARRY will be defined according to the background of each partner, the ownership of the foreground identified and the exploitation agreements among the parties (in line with the Data Management Plan defined in WP10).

5.5.5 Synergies with relevant projects and initiatives

So far, DIGIECOQUARRY has been disseminated within two clustering activities of other H2020 projects.

On 29th September, a presentation was made in SUMEX clustering activities under the theme 'E-learning'. The SUMEX Project (Sustainable Management in the Extractive Industries) aims to promote increased but sustainable mineral production in the EU, establishing a sustainability framework for the extractive industries in Europe. It will take into account the Sustainable Development Goals, the European Green Pact and the EU's Social License to Operate considerations, and will involve stakeholders from civil society, industry, academia and governments across the EU.

The project coordinator is Montanuniversität Leoben and the clustering activities leader is the University of Lapland. The following links leads to their press clip about it:

https://www.sumexproject.eu/2021/10/12/sustainability-outside-the-box-lessons-from-natural-resource-projects-architecture-and-e-learning/

On 18th November, the coordination participated in ROBOMINERS clustering activities on the topic of 'The key technological obstacles towards a fully autonomous robotic mining (eco)system'. Their press clip can be found here:

https://robominers.eu/2021/10/01/robominers-twinning-clustering-event-18-november-2021/

5.5.6 Meetings with neighbourhood or community reference groups

Under WP7 it is foreseen to organise meetings at pilot site level with neighbourhood representatives or community reference groups to address social issues.



5.5.7 Enquiries and surveys for citizens

In connection to the previous activities (section 5.5.6), it is foreseen to organise enquiries & surveys for citizens to address social issues.

5.5.8 Meetings with policy makers (at EU and national levels)

ANEFA and WP8 leader (UPM-AI) are closely collaborating and coordinating the organisation of meetings with policy makers at EU and national levels to explain DIGIECOQUARRY. Also, to discuss potential issues and difficulties identified that could require political actions (draft of new policies, legislation or other).

5.5.9 Meetings with relevant related organisations (at EU and national levels)

ANEFA and WP8 Leader (UPM-AI) are closely collaborating and coordinating the organisation of meetings with related organisations (entrepreneur organisations, Trade Unions, Accademia, Technological Centres, NGOs, etc.) at EU and national level to explain DIGIECOQUARRY. Also, to discuss potential issues and difficulties identified that could require political actions (policy, legislation or other).

ANEFA has made a preliminar announcement of DIGIECOQUARRY in the European Aggregates Association — UEPG Committee Meetings (Health & Safety Committee, Environment Committee and Economic Committee) held in Brussels in the 14 & 15 October 2021, and it has been agreed that a permanent updated presentation will be made in the biannual meetings in the coming years. The attendants to this meetings are the technical representatives of the EU National Aggregates Associations.

5.5.10 Ensuring the development of the Gender Management Plan (under WP10)

DIGIECOQUARRY's Gender Management Plan deals with the implementation of the evaluation and monitorization of women and men in the team, as part of H2020 principles.

This Plan and its objectives have been developed through a series of specific activities that will be carried out for its achievement, and indicators that will allow to measure and evaluate its level of success and fulfilment.

The DIGIECOQUARRY Gender Action Plan will analyse the gender dimension and propose measures regarding:

- 1 Gender dimension throughout research: gender impact within the European aggregates sector and in the field of technological development and ICT solutions will be analysed.
- 2 Measures to ensure gender-balanced research team: decision-making process and total number of workers involved in research teams.





6 KPIs

An evaluation of the KPIs for the implementation of the Dissemination and Communication Plan will be prepared and shared by M12 of the project.





7 Timetable

A table with the name of the activity, the responsible partner and the 48 months of the project has been prepared and updated, to organise and prioritise the dissemination, communication and exploitation plan.

This table, enclosed in Annex VIII, will be used as a management tool and updated when required.

The final timetable of the dissemination, communication and exploitation plan will be reported in an updated version of the "DIGIECOQUARRY Communication and Dissemination Activities report" (deliverable D9.4).





8 Conclusions

This document, titled "Dissemination and Communication Materials", describes the activities and materials that have been done and produced during this months to disseminate DIGIECOQUARRY.

As the project evolves, this document will be updated in months 24 and 36.



9 References

The following references have been used for the preparation of this deliverable:

- EU Horizon 2020 call.
- DIGIECOQUARRY Grant Agreement number 101003750.
- DIGIECOQUARRY Consortium Agreement.





10Annex I. DIGIECOQUARRY's branding report



D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1|3).

Dissemination level: PU

use and graphic application of the visual identity ele-tion to the recommendations set forth in this manual, ments of the DigEcoQuarry project in all their pos- as a document that guarantees a unity of criteria in sible expressions. It has been designed taking into our communication and public dissemination. account the needs of the people responsible for interpreting, articulating and implementing the brand. The correct and consistent use of the brand will help.

This document gathers the basic tools for the correct. The consolidation of the brand requires special atten-

us achieve the objectives of identification, coherence and reinforcement of the project.

DigEcoQuarry must be understood and recognized as an ambitious project, but also well defined, well structured, serious, solid and powerful. The name itself contains the three basic concepts of the project, which are Its especifial values

The project, in all its communicative aspects, must clearly transmit these values and intentions. For this reason, the correct management and use of the set of assets linked directly or indirectly to the name or visual identity of the project is important.

brand is a primary commercial identification and / or the sid of various identifiers with which it blats and affers a product or service in the market.

The trademark is one or the set of districtive signs of a product or service in the market. Some peo-pie hydright the sputhing-cost aspect of the brand from the experimental aspect. The experimental aspect constant of the sum of all the points of consist with the brand and is invision as the brand ex-perience. The psychological aspect conditions referred to a formal image, it is symbolic constitution invested within peoplet minds and constituting of all the information and expectations associated with the produkt services, or in our costs, the project.



Lettermarks (Monograms)



Concept development

stencity's development was based on the three key concepts of the project. Digitalisation, Ecology (blodiversity, environment) and the Aggregates Industry. And we have tried to avoid the simple grouping of easy and hackneyed graphic representations of each of the concepts. For this revision, a clear and simple Monogram has been chosen, easily recognizable, and without isotypes or iconography that would limit the scape of the project.

The representation of each concept is simply abstracted in the colors of each letter, only the "D" incorporates a development of almost metallic layers that add more weight to its complex technological significance and that will serve us for more elaborate animated devel-

The arrangement of the letters superimposed on top of each other, on the one hand, gives the monogram solidity and unity, cessing to be single letters to be a single symbol of identity, and on the other hand, it gives each concept specific weight and supports it in the following, being a clear representation of the structure and philosophy of the project.







Conformation









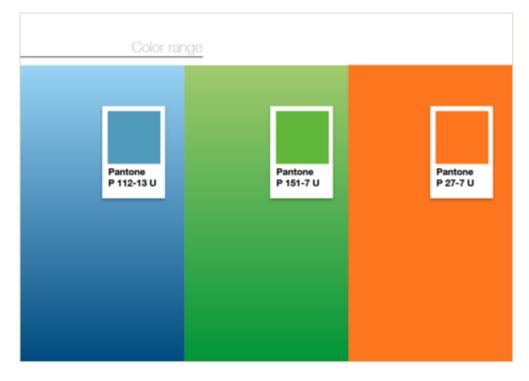














Main type

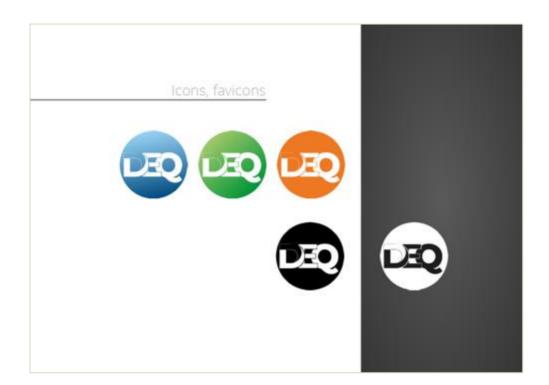
Gotham Black

abcdefghijklmnñopqrstuvwxyz ABCDEFGHIJKLMNÑOPQRSTUVWXY 1234567890

Secondary type

Gotham Light

abcdefghijklmnňopqrstuvwxyz ABCDEFGHIJKLMNŇOPQRSTUVWXY 1234567890

















11Annex II. List of brochures, leaflets, flyers, posters and roll-up

Table 4. Annex II. List of brochures, leaflets and posters.

	POSTERS	LEAFLETS	FLYERS	BROCHURES	ROLL-UP	INFOGRAPHICS	AVAILABILITY DATE
CONCEPT & PRESENTATION	1	1	1	0	1	1	M6
INTERIM STATUS & PRELIMINARY CONCLUSIONS	1	1	1	2	1	1	M24
PLATFORM	1	1	1	1	1	1	M46
CONCLUSIONS	1	1	1	1	1	1	M48



12 Annex III. Press releases

12.1 DigiEcoQuarry a key project for the digitalisation of the aggregates industry, has been launched

On June 2 & 3, 2021, took place DIGIECOQUARRY's Kick-off Meeting. This new European project, named 'INNOVATIVE DIGITAL SUSTAINABLE AGGREGATES SYSTEMS — DIGIECOQUARRY', which receives funding under the EU Horizon 2020 program (No 101003750), 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.

The DIGIECOQUARRY consortium will combine the latest researched and advanced technologies applied to quarry operation together with the integration of selected innovative digital solutions to boost the capacity of the aggregates industry, to enhance Health & Safety conditions for workers, to improve Selectivity and Efficiency of the aggregates extractive sites, to maximise Sustainability and Resource Efficiency in the quarry operations and to foster Social Acceptance.

Over the next 4 years, hard work will be carried out by the 25 partners and the outstanding professional team of nearly 100 experts involved in it. Led by the Spanish Aggregates Association ANEFA, this international project gathers 25 partners from Spain, Portugal, France, Germany, Italy, Austria, Sweden, Finland, Colombia and South Africa.

Due to the current pandemic situation, the meeting was held telematically. The Teams meeting was attended by more than 70 people from all the entities that make up the consortium: quarries (Granulats Vicat, Hanson Hispania SA, Holcim Aggregati Calcestruzzi SRL, Cronenberger Steinindustrie Franz Triches GmbH & Co and Agrepor Agregados — Extracção de Inertes, S.A), technology and mining companies (Sandvik Mining and Construction OY, Metso Outotec Finland OY, Maxamcorp International S.L., ITK Engineering GMBH, Akka High Tech, Arco Electrónica SA, Ma-estro SRL, DOHMEN



HERZOG & Partner GmbH, Abaut GmbH, Sigma Technologies S.L.U., Mintek, ROCTIM AB), consultancy firms (APP Consultoria de Gestión de Proyectos SL, Zabala Innovation Consulting SA), accademia (Universidad Politécnica de Madrid, Montanuniversität Leoben, Chalmers Tekniska Hoegskola AB) and other entities (Asociacion Colombiana de Productores de Agregados Pétreos, Consejería de Industria, Empleo y Promoción Económica del Principado de Asturias).

On these two sessions, participants introduced their 10 work packages, tasks, global schedules and work plans for the next 6 months. It culminated with a virtual cocktail in which attendees were able to network and get to know each other.

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12.2 ANEFA visits Holcim

Last 19th of July, ANEFA visited Holcim Aggregati Calcestruzzi's aggregates quarry in Milan (Italy), to analyse the improvements that the IQS (Intelligent Quarrying System) will bring to the site.

Emphasis was placed on the improvement of the aggregates sector activities' connection, considering the nature of these actions and without neglecting the problems they must face.

Also, the main KPIs (Key Performance Indicator) to promote the quarry's operation and enable its correct diagnosis were discussed. A set of initiatives were analysed to take advantage of the opportunities offered by digitalisation, highlighting the use of machine learning and big data to adapt the site to the demands of the current market.

In the coming months, visits to the other quarries comprising the consortium are planned. After analysing their initial state, where the needs of the quarries will be considered, the first results and initial conclusions of the project are expected to be announced.







https://digiecoquarry.eu/2021/08/18/anefa-visits-holcim/



12.3 ANEFA visits Hanson Heidelberg

On the 16th of July, ANEFA's team — DIGIECOQUARRY's coordinator — visited Valdilecha's quarry in Madrid, property of Hanson HeidelbergCement group. This quarry participates on the project as one of the five pilot sites, where advanced rock mass characterisation and innovative drilling & blasting technologies will be tested.

After a long and fruitful meeting, in which the priorities of the site were manifested and the objectives to be achieved were consolidated, a guided tour of the facilities took place.

The first stop was the treatment plant, which was fully explained. Then, the warehouse workers described the automated procedure to be followed for the maintenance of the machinery, both preventive and corrective, which they monitor from their smartphones.



Finally, a visit was made to the pit and the company's manager listed the remediation measures that are being carried out there.





https://digiecoquarry.eu/2021/08/18/anefa-visits-hanson-heidelberg/

GA # 101003750



12.4 ANEFA's team visited Agrepor Agregados – Extracção de Inertes

The ANEFA team met with Agrepor Agregados members at their facilities near Lisbon (Portugal) on Monday 30 August. This visit provided first-hand knowledge of their facilities as part of DigiEcoQuarry.

The meeting was part of the scheduled work plan to visit all the quarries that are integrated in the project (5 European quarries) in the first months since the launch of the project. This meeting allowed ANEFA to learn more about the pilot problems associated with the project as well as to document its requirements.

During the working session, Agrepor Agregados presented the company and described their project. Subsequently, ANEFA had the opportunity to analyse the project in situ, visiting the quarry, the production facilities and product dispatch. The meeting was used to discuss fundamental issues for the development of the IQS (Intelligent Quarrying System). Among the topics discussed was the development of the main KPIs (Key Performance Indicators) that would help in the efficient and intelligent management of a quarry. These KPIs cover different aspects that affect the management of a quarry including economic, technical, environmental, and social perspectives.



https://digiecoquarry.eu/2021/09/13/anefa-team-visited-agrepor-agregados-extraccao-de-inertes/



12.5 Granulats Vicat – the French pilot site of the project DigiEcoQuarry

ANEFA's team arrived at Granulats Vicat, the French pilot site of the project DigiEcoQuarry, on Tuesday, 24th of August. The day started with a visit around the site, Fenouillet, where the facilities were explained, as well as the casuistry of the quarry.

Originally, Fenouillet was located in the surroundings of Toulouse, but nowadays, as the city has dramatically grown, it is right in the middle of an industrial area. To give the reader an idea, right next door there is a shop of the French sports giant, Decathlon and opposite we can find both McDonald's and Burger King.

There is no excavation on this site but the washing of materials brought to it. On the other hand, waste is also stored here, which the company treats and uses as backfilling in other of their quarries. This is due to the strategic location of the site.



In the afternoon the team got to know another quarry property of Granulats Vicat, Carbonne.

It must be highlighted the great rehabilitation plan that is being carried out by Vicat in both sites. In Fenouillet, they are building land walls, growing grass, and conditioning a lake, to mate the quarry better looking for their local community. While in Carbonne, a useless land, a former cornfield, has been turned into a huge lake. It even has a restaurant and water adventure activities, such as water air mats, and water skiing!

On the afternoon, as well as on the following morning, meetings were held with the workers of the quarries. They detailed their KPIs, procedures, and stated what they expect from DIGIECOQUARRY.

https://digiecoguarry.eu/2021/09/14/granulats-vicat-the-french-pilot-site-of-the-project-digiecoguarry/

GA # 101003750



12.6 ANEFA visited Cronenberger Steinindustrie

On Wednesday, 1st of September, ANEFA visited Cronenberger Steinindustrie, thus concluding the tour of DigiEcoQuarry's pilot sites. Part of Pescher Beteiligungen GmbH & Co. KG, CSI is an andesite quarry located near the city of Magdeburg, Germany.



After a company presentation, the coordination team was given an explanatory walk through the quarry and got to see a blasting. The treatment plant as well as the auxiliary facilities were also shown. In addition to all this, the hosts took ANEFA's team to see the environmental and social measurements they are taken to improve the impact the site makes in the surroundings.

CSI is the reference pilot for mobile equipment digitalisation, real-time modelling, and data collection and geofence, so, once the dynamic of the site was understood, meetings during two days were held to clarify the priorities of the company within the project.

https://digiecoguarry.eu/2021/09/14/anefa-visited-cronenberger-steinindustrie/



13 Annex IV. List of websites of the partners

Table 5. Annex IV. List of websites of the partners

PARTNER	WEBSITE					
ANEFA	https://www.aridos.org					
GRANULATS VICAT	http://www.granulats-vicat.fr https://www.vicat.com					
HANSON	https://www.heidelbergcement.com					
HOLCIM	https://www.holcim.it					
CSI	https://www.cronenberger-steinindustrie.de					
CIMPOR	https://www.cimpor.com					
SANDVIK	https://www.sandvik.coromant.com					
METSO OUTOTEC	www.mogroup.com					
MAXAM	https://www.maxamcorp.com					
ITK	https://www.itk-engineering.de					
MUL	https://www.unileoben.ac.at	www.unileoben.ac.at/bbk				
CHALMERS	https://www.chalmers.se	https://www.chalmers.se				
UPM	https://www.upm.es	https://www.minasyenergia.upm.es				
AKKA	https://www.akka-technologies.com					
ARCO	https://www.arcoelectronica.es	https://www.arcoelectronica.es				
MAESTRO	http://www.ma-estro.com					
DH&P	https://www.dhp-gmbh.de					
ABAUT	https://abaut.de					
APP	https://www.app-consultoria.com					
SIGMA	https://sigma-ai.com					
DGASTUR	https://www.asturias.org					
ASOGRAVAS	https://asogravas.org					
MINTEK	https://www.mintek.co.za					
ROCTIM	https://www.roctim.com					
ZABALA	https://www.zabala.es					



14Annex V. List of social media of the partners

Table 6. Annex V. List of social media of the partners.

PARTNER	LinkedIn	Twitter	Instagram	Facebook	YouTube
ANEFA	https://www.linkedin.com/ company/asociaci%C3%B3 n-nacional-de-empresarios- fabricantes-de- %C3%A1ridos-anefa/	@ANEFAridos		https://www.facebook.com /ANEFAridos/	https://www.youtube.com/c hannel/UC4ACayc0OwcxAHW aFQnh9gA
GRANULATS VICAT	https://www.linkedin.com/ company/vicat/?originalSu bdomain=fr	@GroupeVicat		https://www.facebook.com /Groupe.Vicat/	https://www.youtube.com/Vi catGroupe
HANSON	https://www.linkedin.com/company/heidelbergcement/	@HC_Hispania	@heidelberg cement_grou p		https://www.youtube.com/u ser/HeidelbergCementCom
HOLCIM	https://www.linkedin.com/company/holcim-italia-spa				
CSI			Incluir cuenta		
CIMPOR	https://www.linkedin.com/ company/grupo-cimpor/				
SANDVIK	https://www.linkedin.com/ company/sandvik- coromant/	@SandvikCorom ant		https://www.facebook.com /SandvikCoromantOfficial	https://www.youtube.com/u ser/sandvikcoromant
METSO OUTOTEC	https://www.linkedin.com/ company/metsooutotec	@MetsoOutotec	@metsoouto tec	https://www.facebook.com /MetsoOutotec	https://www.youtube.com/c/ MetsoOutotec
MAXAM	https://www.linkedin.com/ company/maxam/	@MAXAMCorp	@Maxamcor p	https://www.facebook.com /MAXAMCorp	https://www.youtube.com/c hannel/UCuqAZPgay4halxYTj a1pWiw
ITK	https://de.linkedin.com/co mpany/itk-engineering/				https://www.youtube.com/c hannel/UChdFA7NS5L8jiacKK 0HL5nA
MUL	https://www.linkedin.com/ school/montanuniversität- leoben	@unileoben	@montanuni leoben	https://www.facebook.com /MULeoben	https://www.youtube.com/c/ MontanuniversitätLeoben
CHALMERS	https://www.linkedin.com/ school/chalmers- university-of-technology/		@chalmers_ production	https://www.facebook.com /ChalmersProduction/	
	https://www.linkedin.com/ school/universidad- politecnica-de- madrid/?originalSubdomai n=es	@La_UPM	@somosupm	https://www.facebook.com /universidadpolitecnicadem adrid	https://www.youtube.com/u ser/UPM
UPM	https://www.linkedin.com/ company/etsimeupm/?orig inalSubdomain=es	@minasenergiau pm	@etsimeupm	https://www.facebook.com /etsimeupm/	https://www.youtube.com/u ser/EscueladeMinas
	https://www.linkedin.com/ company/explosives- blasting-lab/				

PARTNER	LinkedIn	Twitter	Instagram	Facebook	YouTube
AKKA	https://www.linkedin.com/ company/akka- technologies/	@akka_tech	@akkatechnol ogies	https://www.facebook.com /AKKATechnologiesGroup/	https://://www.youtube.com /user/AKKATechnologies1
ARCO	https://www.linkedin.com/ company/arco- electr%C3%B3nica-s-a- /?originalSubdomain=es				https://www.youtube.com/c hannel/UCnNwPatyjED9Fj31S xtgvHg
MA ESTRO	https://www.linkedin.com/ company/ma-estro/			https://www.facebook.com/maestrocrushingcontrol	https://www.youtube.com/u ser/mestrosrl
DH&P	https://www.linkedin.com/ company/dohmen-herzog- &-partner- gmbh/mycompany/				
ABAUT	https://www.linkedin.com/ company/abaut-gmbh/				
АРР	https://www.linkedin.com/ company/appconsultoria- project-management- consulting/	@APP_Consult oria	@app.consulto ria	https://www.facebook.com /APP.Consultoria	https://www.youtube.com/c hannel/UCIWOQBIRQxIQiBfH 1NEBTpQ
SIGMA	https://www.linkedin.com/ company/sigma- ai/mycompany/				
DGASTUR	https://es.linkedin.com/co mpany/gobierno-de- asturias	@GobAsturias		https://es- es.facebook.com/gobierno deasturias/	https://www.youtube.com/c hannel/UCyssDZ4splBnG9 jD- FOpFA
DGASTUR	https://www.linkedin.com/ company/fundacionfaen	@FundacionFa en	@FundacionFa en	https://www.facebook.com/FAEN.FundacionAsturiana/DeLaEnergia	https://www.youtube.com/c hannel/UCQVhIMG2- dgL8FJftf8-yQ
ASOGRAVAS	https://www.linkedin.com/ in/asogravas-org- 7bb72b112	@Asogravas	@asogravas	https://www.facebook.com /ASOGRAVAS/	https://www.youtube.com/c hannel/UC301rVZjpxOzoIsIV0 0-nSA
MINTEK	https://www.linkedin.com/ company/mintek/	@Mintek_RSA	@Mintek_RSA	https://www.facebook.com/minteksa	
ROCTIM	https://www.linkedin.com/ company/roctim/				
ZABALA	https://www.linkedin.com/ company/zabala- innovation/	@Zabala_IC	@Zabala_IC		https://www.youtube.com/c hannel/UCkjodHs_4czqN9llgb 82QGA

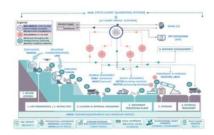


15 Annex VI. Press clips released by the partners

15.1 ANEFA I:



H2020 de la Comisión Europea aprueba financiar el Proyecto DIGIECOQUARRY ideado y liderado por ANEFA



ANEFA, con el apoyo de ZABALA INNOVATION CONSULTING, S.A. y la Escuela de Minas y Energía de Madrid de la Universidad Politécnica de Madrid, ha ideado, organizado y

promovido la preparación de una solicitud de subvención de fondos europeos H2020 para el proyecto DIGIECOQUARRY, para la digitalización de la industria europea de áridos.

Actualmente, las canteras están perdiendo las grandes oportunidades de la digitalización. De hecho, utilizan ≤1% de los datos producidos. Así, el mayor desafío es conectar todos los procesos que tienen lugar en una explotación e

https://www.aridos.org/h2020-de-la-comision-europea-aprueba-financiar-el-proyecto-digiecoquarry-ideado-y-liderado-por-anefa/l

Entradas recientes

- Conoce la Hoja de Ruta 2030 para los áridos de la UEPG en español
- Código de Conducta para la Protección de las Especies del Sector Extractivo
- Queda un mes para poder presentar tu candidatura a los
 Premios Nacionales de Desarrollo Sostenible
 2022 - PNDS 2022
- > Disponible la nueva App del VI CNA

> Finalizados con los cursos de

1





D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1|3).

Dissemination level: PU

16/11/21 9:59 H2020 de la Comisión Europea aprueba financiar el Proyecto DIGIECOQUARRY ideado y liderado por ANEFA - ANEFA

integrar su gestión en tiempo real, para mejorar y optimizar su régimen operativo.

El objetivo es gestionar integradamente todos los elementos de una explotación de áridos, a través de sensores y de inteligencia artificial.

- 1. Preparación de la explotación: Información general y caracterización del macizo rocoso.
- 2. Extracción: soluciones limpias y seguras para la extracción de áridos mediante perforación y voladura.
- 3. Carga y transporte interno: procesos seguros de carga y transporte dentro de la explotación.
- 4. Planta de tratamiento de tratamiento: implementación de metodologías eficientes, automáticas y flexibles para la producción de áridos, aumentando la calidad y las prestaciones de los materiales procesados, al tiempo que se reduce la huella ambiental del proceso.
- Almacenamiento: tanto entre la cantera y la planta de tratamiento como después del proceso de producción.
- 6. Transporte externo: rutas de transporte optimizadas fuera de la cantera, en el transporte al cliente.
- 7. Rehabilitación: minimización de impactos ambientales en la restauración de canteras en términos de gestión eficiente del transporte interno desde el sitio de extracción y planta de tratamiento hasta el área de restauración.
- Gestión empresarial: desarrollo de un control de procesos optimizado integrando y gestionando las enormes cantidades de datos que se pueden generar.

DIGIECOQUARRY es un gran proyecto, uno de los más importantes destinados a áridos, con una subvención de alrededor de 12.980.000 de euros por un total de alrededor de 16.714.828 de euros, con una duración de 4 años.

Se ha presentado en el marco de la iniciativa Acción climática, medio ambiente, eficiencia de recursos y materias primas, a la convocatoria – Greening the economy in line with the Sustainable Development Goals (SDGs) (Ecologizar la economía de acuerdo con los Objetivos de Desarrollo Sostenible (ODS)), dentro de la línea SC5-10-2019-2020: Acciones de innovación de materias primas: exploración y observación de la Tierra en apoyo de la minería sostenible.

Tras haber superado la primera fase de selección, entre cerca de 30 proyectos, a mediados de diciembre, se ha recibido la comunicación de la Comisión Europea confirmando que el proyecto ha sido uno de los dos seleccionados, con el 100% de la cantidad solicitada.

https://www.aridos.org/h2020-de-la-comision-europea-aprueba-financiar-el-proyecto-digiecoquarry-ideado-y-liderado-por-anefa/









D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1|3).

Dissemination level: PU

H2020 de la Comisión Europea aprueba financiar el Proyecto DIGIECOQUARRY ideado y liderado por ANEFA - ANEFA

En estos momentos, se está procediendo a las formalidades administrativas, con los restantes 23 miembros del consorcio internacional que cubre Europa, América del Sur y Sudáfrica y que forman una gran asociación internacional: España- 10 socios, Suecia - 1 socio, Finlandia- 2 socios, Alemania- 3 socios, Francia- 2 socios, Italia- 2 socios, Portugal- 1 socio, Austria- 1 socio, Colombia- 1 socio, Sudáfrica- 1 socio.

Además de ANEFA, participan:

• 5 empresas de áridos: Vicat (Francia), Hanson Hispania, S.A. Heidelberg Cement Group (España), LafargeHolcim (Italia), Cronenberger Steinindustrie Franz Triches GmbH & Co. KG (Alemania), CIMPOR (Portugal).



- 8 empresas de bienes de equipo y servicios: Sandvik, Metso: Outotec, Maxam, Arco Electronica S.A., Maestro, Abaut GmbH, DOHMEN, HERZOG & Partner GmbH, ITK / NW Baumaschinen- Network Construction Machinery and Commercial Vehicles.
- 3 Universidades: Montan University of Leoben (Austria), Chalmers University of Technology (Suecia), Universidad Politécnica de Madrid (España).
- 3 empresas expertas en digitalización, inteligencia artificial y BIM: AKKA (Francia), APP Consultoría de Proyectos, Sigma.
- La Dirección General de Energía, Minas y Reactivación del Principado de Asturias, como representación de la Administración.
- 2 entidades que aseguran la dimensión internacional: ASOGRAVAS, asociación de áridos de Colombia y MINTEK, centro tecnológico
- · Zabala Innovation Consulting.

El proyecto se iniciará en mayo de 2021 y se desarrollará hasta mayo de 2025.

En próximos números, se irán ofreciendo más detalles del proyecto, que está llamado a contribuir decisivamente al salto digital de la industria de los áridos en Europa y, desde luego, en España.

Para compartir esta historia, elija f 🎔 🐯 in t







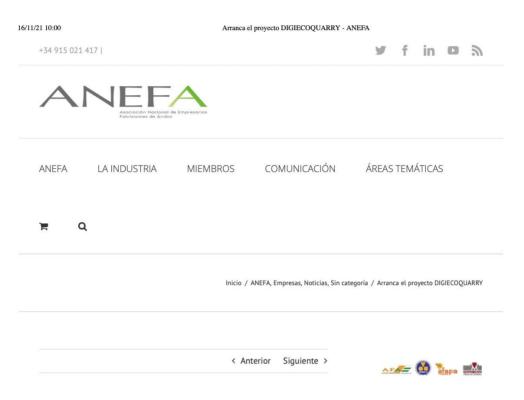


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15.2 ANEFA II:



Arranca el proyecto DIGIECOQUARRY



El pasado miércoles 2 de junio tuvo lugar la primera sesión del Kick off Meeting, la reunión de lanzamiento oficial del proyecto europeo DigiEcoQuarry, en el cual ANEFA participa como coordinador del proyecto y líder de varias de sus tareas.

El objetivo de este proyecto, que ha recibido una subvención de fondos europeos H2020 de 13 millones de euros, es desarrollar una aplicación para la gestión integral de una explotación de áridos. Durante los próximos 4 años, se trabajará en proporcionar una solución que resuelva el problema

https://www.aridos.org/arranca-el-proyecto-digiecoquarry/

Entradas recientes

- Conoce la Hoja de Ruta 2030 para los áridos de la UEPG en español
- Código de Conducta para la Protección de las Especies del Sector Extractivo
- Queda un mes para poder presentar tu candidatura a los
 Premios Nacionales de Desarrollo Sostenible
 2022- PNDS 2022
- > Disponible la nueva App del VI CNA
- > Finalizados con e los cursos de

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D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1|3).

Dissemination level: PU

16/11/21 10:00

Arranca el proyecto DIGIECOQUARRY - ANEFA

del manejo de los datos generados en el proceso productivo, y que cree nuevas propuestas de valor para los usuarios.

Debido a la situación actual provocada por la pandemia, la reunión se realizó de forma telemática. A la convocatoria de Teams se unieron más de 60 personas pertenecientes a las 25 entidades que conforman el consorcio del proyecto: canteras (Granulats Vicat, Hanson, Holcim, CSI y CIMPOR), empresas tecnológicas y mineras (Sandvik, Metso: Outotec, Maxam, ITK Engineering, AKKA, Arco Electrónica, Ma-estro, Dohmen, Herzog & Partner, Abaut, SIGMA Technologies, Mintek, Roctim), consultoras (APP Consultoría, Zabala Innovation Consulting), universidades (Universidad Politécnica de Madrid, Montanuniversität Leoben, Chalmers Tekniska Hoegskola AB) y otras entidades (ASOGRAVAS, DGASTUR).

En esta primera jornada se han presentado los planes de trabajo para los próximos 6 meses de la mitad de los grupos de trabajo, culminando con un cóctel virtual en el que



los asistentes han podido hacer networking y conocerse los unos a los otros.

formación en seguridad subvencionados por el MITERD



Para compartir esta historia, elija cualquier plataforma









Artículos relacionados







WFB

Presentación

Contacto

Aviso Legal

ANEFA

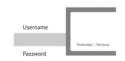
Asociación Nacional de **Empresarios Fabricantes** de Áridos

Plaza de las Cortes, 5 -7°

Política de Privacidad https://www.aridos.org/arranca-el-proyecto-digiecoquarry/

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D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1|3).

Dissemination level: PU

15.3 ANEFA III

16/11/21 10:01

El "International Advisory Board" del proyecto DIGIECOOUARRY - ANEFA



ANEFA LA INDUSTRIA MIEMBROS COMUNICACIÓN ÁREAS TEMÁTICAS

Inicio / Noticias / Empresas / ANEFA / El "International Advisory Board" del proyecto DIGIECOQUARRY

Q

< Anterior Siguiente >



El "International Advisory Board" del proyecto DIGIECOQUARRY

El proyecto DIGIECOQUARRY cuenta con un "International Advisory Board" compuesto por actores relevantes de la cadena de valor de los áridos para dar una visión externa, consejo y feedback cuando DEQ se tope con alguna dificultad.

Esta mesa la forman las siguientes entidades:

- European Agency for Safety and Health at Work (OSHA): EU-OSHA es la agencia de información de la Unión Europea en materia de seguridad y salud en el trabajo. Su trabajo contribuye al Marco Estratégico de Salud y Seguridad en el Trabajo 2021-2027 de la Comisión Europea y a otras estrategias y programas pertinentes de la UE.
- Global Aggregates Information Network (GAIN): Es una red totalmente voluntaria de las principales asociaciones regionales de áridos del mundo; no tiene intereses comerciales. El objetivo de GAIN es compartir las experiencias y las mejores prácticas del sector con el fin de promover una mayor sostenibilidad y rendimiento de la industria a nivel mundial.
- International Union for Conservation of Nature's (IUCN): La UICN es una Unión democrática que reúne a las organizaciones más influyentes del mundo y a los mejores expertos en un esfuerzo conjunto para conservar la naturaleza y acelerar la transición al desarrollo sostenible. Compuesta por organizaciones gubernamentales y de la sociedad civil, aprovecha la experiencia, los recursos y el alcance de sus más de 1.400 organizaciones miembros y la aportación de más de 18.000 expertos. Esta diversidad y amplia experiencia convierten a la UICN en la autoridad mundial sobre el estado del mundo natural y las medidas necesarias para salvaguardarlo.

Entradas recientes

- Conoce la Hoja de Ruta 2030 para los áridos de la UEPG en español
- Código de Conducta para la Protección de las Especies del Sector Extractivo
- Queda un mes para poder presentar tu candidatura a los Premios Nacionales de Desarrollo Sostenible 2022- PNDS 2022
- Disponible la nueva
 App del VI CNA
- > Finalizados con éxito los cursos de formación en seguridad subvencionados por el MITERD



https://www.aridos.org/el-international-advisory-board-del-proyecto-digiec oquarry/

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D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1|3).

Dissemination level: PU

16/11/21 10:01

El "International Advisory Board" del proyecto DIGIECOQUARRY - ANEFA



Route One Publishing son expertos reconocidos cuyos escritos gozan de una gran confianza y que son invitados regularmente a moderar en las ANEFA LA INDUSTRIA MIEMBROS COMUNICACIÓN principales conferencias del sector.



- European Aggregates Association (UEPG): Desde 1987, la UEPG representa ar sector europeo de los áridos en Bruselas, con 26 miembros en 25 países. Lleva a cabo actividades de asuntos públicos. Promueve los intereses de los miembros a nivel nacional y europeo en políticas económicas, técnicas, de seguridad y salud y medioambientales. Coordina la red de la UE e identifica de forma proactiva las iniciativas y políticas de la UE que puedan tener un impacto en los productores europeos de áridos, manteniendo a los miembros actualizados sobre los desarrollos políticos relevantes y asegurando que las posiciones de la UEPG sean consideradas por los responsables de la toma de
- EuroGeoSurveys (EGS): Es una organización que representa a 38 Servicios Geológicos Nacionales en Europa y cuenta con una plantilla de varios miles de expertos. La misión de EuroGeoSurveys (EGS) es proporcional conocimientos públicos sobre las ciencias de la Tierra para apoyar la competitividad, el bienestar social, la gestión medioambiental y los compromisos internacionales de la UE.
- German Federal Association of Mineral Raw Materials E.V. (BV MIRO): MIRO es el organismo que representa a la industria de los áridos en Alemania, con sede en Duisburgo y Berlín. Representa los intereses de la industria de la piedra natural, la grava, la arena y la arena de cuarzo a nivel federal y europeo. La asociación esta formada por a unas 1.600 empresas que explotan unas 2.700 plantas.



Para compartir esta historia, elija cualquier plataforma











https://www.aridos.org/el-international-advisory-board-del-proyecto-digiecoquarry/



15.4 ARCO ELECTRÓNICA

16/11/21 9:52

Participación Proyecto DIGIECOQUARRY - AUTOMATIZACION PROCESOS - ARCO ELECTRONICA

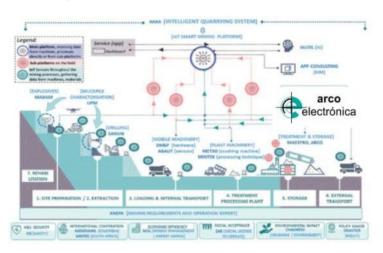






Participación Proyecto DIGIECOQUARRY

Mar 18, 2021 | ÁRIDOS, NOTICIAS



Vamos a participar en el **Proyecto Europeo Digiecoquarry**, promovido y organizado por ANEFA, para la digitalización y automatización de la industria europea de áridos.

Para la realización del proyecto se ha formado un consorcio internacional, con 24 miembros.

El objetivo es gestionar íntegramente todos los elementos de una explotación de áridos, a través de sensores de inteligencia artificial.

En concreto, participaremos en la planta de tratamiento / producción, donde se

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https://www.arcoelectronica.es/noticias/participacion-proyecto-digiecoquarry/

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D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1|3).

Dissemination level: PU

16/11/21 9:52 Participación Proyecto DIGIECOQUARRY - AUTOMATIZACION PROCESOS - ARCO ELECTRONICA El proyecto se desarrollará en 5 empresas productoras de áridos: VICAT (Francia), Hanson Hispania (España), LafargeHolcim (Italia), Cronenberger Steinindustrie (Alemania), Cimpor (Portugal). **Arco Electrónica** implantará el sistema de automatización bajo los estándares de la Industria 4.0 y **Arco Met 7** maquinaria de ensacado completamente automática y eficiente que incorporará tecnología Machine Learnig y cálculo del OEE (Overall Equipment Effectiveness o Eficiencia General de los Equipos). El proyecto empezará a de desarrollarse en mayo de este año. Además, para obtener más información sobre el proyecto puede consultar esta noticia de ANEFA. **BUSCAR** Buscar **ENTRADAS RECIENTES** Arco Electrónica en SMOPYC 2021 Industria 4.0 en el sector del hormigón Arco Electrónica en ExpoBiomasa 2021 Participación Proyecto DIGIECOQUARRY Importancia de la medición de humedad en la fabricación de hormigón / prefabricado. Compartir esta noticia Empresas del grupo Miembro de:

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ACEPTAB

https://www.arcoelectronica.es/noticias/participacion-proyecto-digiecoquarry/

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15.5 FAEN

16/11/21 9:50

Arranca el proyecto DIGIECOQUARRY - FAEN



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(https://www.faen.es/index.php)

Arranca el proyecto DIGIECOQUARRY

Inicio (https://www.faen.es) / Noticias (https://www.faen.es/noticias/) / Arranca el proyecto DIGIECOQUARRY



INNOVATIVE DIGITAL SUSTAINABLE AGGREGATES SYSTEMS



Horizon 2020 research and innovation programme (N° 101003750)

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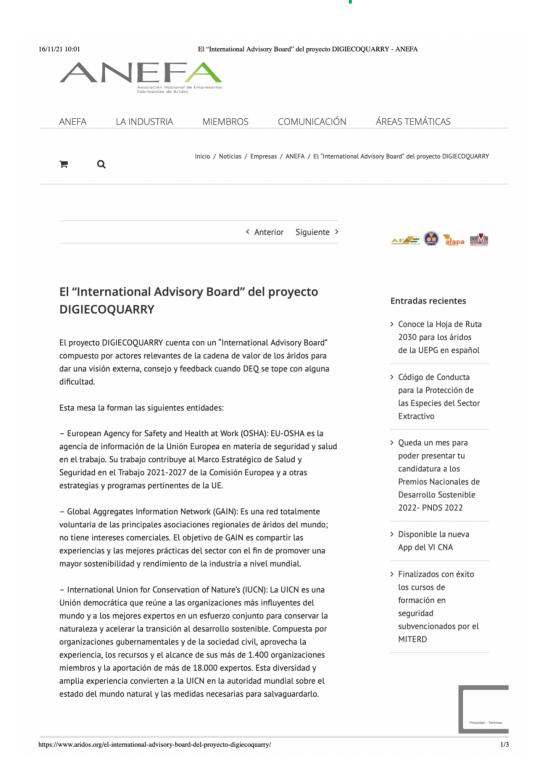
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ACEPTAR

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1/4







15.6 HOLCIM



Lanciato Digiecoquarry: il progetto chiave per la digitalizzazione del settore degli Aggregati

9 Giugno 2021



La scorsa settimana 2021 si è aperto ufficialmente, in modalità virtuale, Digiecoquarry: il progetto chiave per la digitalizzazione del settore degli aggregati, di cui Holcim è sito pilota.

Il progetto è stato selezionato tra oltre 80 progetti concorrenti, e co-finanziato dalla Commissione EU nell'ambito del programma Horizon2020 con circa 13 Milioni di euro.

Il Consorzio, di cui Holcim Aggregati Calcestruzzi fa parte per l'Italia, conta 25 partner a livello Europeo e internazionale tra Società (Metso, Sandvik, Akka, Maxam, ecc) Università (Chalmers, Universidad Politecnica de Madrid, ecc), Associazioni di categoria (ANEFA, Asogravas) e centri di ricerca (Mintek, Zabala, ecc).

Il progetto, coordinato da César Luaces Frades (Segretario Generale di ANEFA - Asociación nacional de empresarios fabricantes da áridos) con il supporto di Zabala, si svilupperà su un periodo di 4 anni. E' finalizzato a sviluppare e testare un nuovo sistema digitale nelle cave di aggregati dall'escavazione, alla produzione e trasporto.





l'elaborazione e la condivisione dei dati per fornire un controllo di processo integrato digitalizzato, automatico con l'Al in tempo reale per le cave di aggregati. Questo si tradurrà in:

- 1 Migliori condizioni di salute e sicurezza per i lavoratori, che attraverso processi automatizzati e controllati non verranno più esposti ad operazioni pericolose;
- 2 Miglioramento dell'efficienza dei siti estrattivi degli inerti, con conseguente aumento della redditività dei processi estrattivi e della sostenibilità operativa a lungo termine;
- 3 Massima sostenibilità ed efficienza delle risorse nelle operazioni di cava attraverso la riduzione delle emissioni, il miglioramento della gestione dell'acqua e la promozione di un approvvigionamento sostenibile delle materie prime per alimentare le catene del valore nuove ed esistenti chiudendo i cicli dei materiali e garantendo la produzione a lungo termine;
- 4 Migliore accettazione sociale attraverso la comunicazione con i responsabili politici, i cittadini e gli attori rilevanti.

Holcim Aggregati Calcestruzzi, coordinerà i 5 siti pilota europei dove il sistema verrà testato (Vicat-Francia, Hanson-Spagna, Holcim Aggregati Calcestruzzi-Italia, Cronenberger-Germania, Cimpor-Portogallo) sperimentando il nuovo sistema per la parte di lavorazione dei materiali alluvionali (Sabbia e la Ghiaia).

Visita anche

- > Holcim Italia Iancia ECOPlanet Prime (https://www.holcim.it/holcim-italia-lancia-ecoplanet-prime)
- Calcestruzzo Ductal al Lake Como Design Festival (https://www.holcim.it/calcestruzzo-ductal-al-lake-como-design-festival)
- > Holcim Italia sponsor della terza edizione del Lake Como Design Festival (https://www.holcim.it/holcim-italia-sponsor-della-terza-edizione-del-lake-como-design-festival)
- > Inaugurato Striatus, il ponte unico nel suo genere realizzato in calcestruzzo stampato in 3D (https://www.holcim.it/inaugurato-striatus-il-ponte-unico-nel-suo-genere-realizzato-calcestruzzo-stampato-3d)
- > Il brand Holcim al convegno "Tall Buildings": soluzioni sostenibili e innovative per le torri di Milano. (https://www.holcim.it/comstampa-july7th-2021)

15.7 MAXAM

16/11/21 9:55

@ CONTACT

MAXAMEWS











NEWS

6/2/2021

MAXAM announces its participation in the DIGIECOQUARRY project

INNOVATIVE DIGITAL SUSTAINABLE AGGREGATES SYSTEMS. A consortium of 24 entities from eight countries, comprising of universities, institutions, and leading European companies, will be partnering in this project. MAXAM is proud to be part of the DIGIECOQUARRY project.

The 4-year DIGIECOQUARRY project begins this week and represents a significant breakthrough to digitalize and automate the operations of the European aggregate industry to make them safer and more sustainable.

As part of its work in the DIGIECOQUARRY project, MAXAM will develop innovative technologies of its X-Energy platform in a quarry of the project of the pr $the \ Hanson \ group, a \ member \ of \ the \ project \ consortium. \ X-Energy \ digitalization \ tools \ like \ the \ MAXAM \ Blast \ Center, \ X-Logger \ and \ the \ MAXAM \ Blast \ Center, \ A-Logger \ and \ A-Logger \ and$ RIOBLAST, combined with smart explosives and adaptive delivery systems, will enable quarries to leverage data and the use of selective and the selective systems.



D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1|3).

Dissemination level: PU

16/11/21 9:55

energy to enhance safety, reduce environment impact, and optimize the total cost of ownership.

Vicente Huelamo, MAXAM's Senior Technical Advisor, explains, "MAXAM is delighted to be part of the DIGIECOQUARRY project. We look forward to developing new technologies of our X-Energy platform specifically for the aggregate industry. Our focus would be to improve rock fragmentation, wall damage,ground vibrations, and airblast overpressure. The work will also help improve the performance of downstream operations like excavation, hauling, conveying, and crushing."

The DIGIECOQUARRY project is receiving funding under the Horizon 2020 program.



Our company

Global Presence

Management Team

Technology

Our Brand

Blasting Solutions

Cartridges and Components

Defense & Security

Nitro chemical Products

OUR COMMITMENT

Safety Culture

D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1|3).

Dissemination level: PU

15.8 MONTANUNIVERSITÄT LEOBEN

16/11/21 9:53

Digitalisation for a more sustainable mining industr



Montanuniversität Leober

Digitalisation for a more sustainable mining industry

Making mining greener is a major goal of a new EU project in which Montanuniversität Leoben is significantly involved. Digital o6/22/2021 solutions are to make mining and the associated framework conditions more efficient and resource-conserving.

At the beginning of June, the official starting signal was given for DIGIECOQUARRY - INNOVATIVE DIGITAL SUSTAINABLE AGGREGATES SYSTEMS. This new European project is funded under Horizon 2020 (No. 101003750), runs for four years (until May 2025) and aims to design, develop and validate an Innovative Quarry System (IQS). The project includes sensors, process tools and methods for data collection, processing and sharing to enable integrated, digitised, automated, real-time process control for quarries.

More safety

"The DIGIECOQUARRY - consortium combines the latest technology with innovative digital solutions to increase capacity, improve health and safety conditions for workers, increase mining selectivity and efficiency, and promote sustainability, resource efficiency and social and acceptance," explains Dr Philipp Hartlieb from the Chair of Mining Engineering and Mineral Economics, who is largely responsible for the project on site of Montanuniversität Leoben.

Montanuniversität Leoben is one of 25 partners from Spain, Portugal, France, Germany, Italy, Austria, Sweden, Finland, Columbia and South Africa. "The team from the Chair of Mining Engineering will work on the digitalisation of mining and automated process recognition, with a special focus on the environmental impact of individual process steps and innovative tools based on image recognition," Hartlieb outlines

More Information

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BACK

https://www.unileoben.ac.at/en/newsdetail/durch-digitalisierung-zu-einem-nachhaltigerem-bergbaten ac. at/en/newsdetail/durch-digitalisierung-zu-einem-nachhaltigerem-bergbaten ac. at/en/newsdetail/durch-digitalisierung-zu-einem-nachhaltigerem-nachhaltig

1/2

GA # 101003750

16Annex VII. List of partner's communication channels

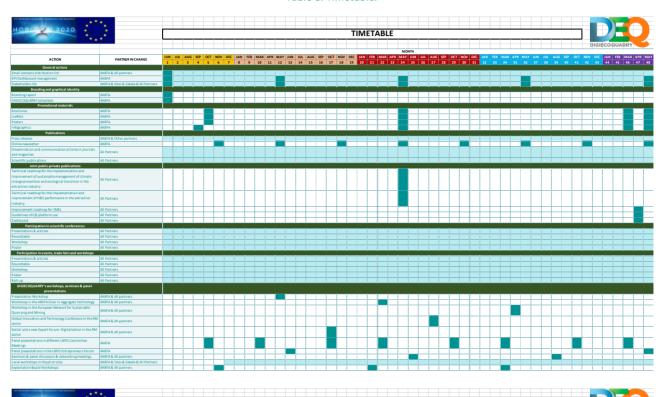
Table 7. Annex VII. List of partner's communication channels.

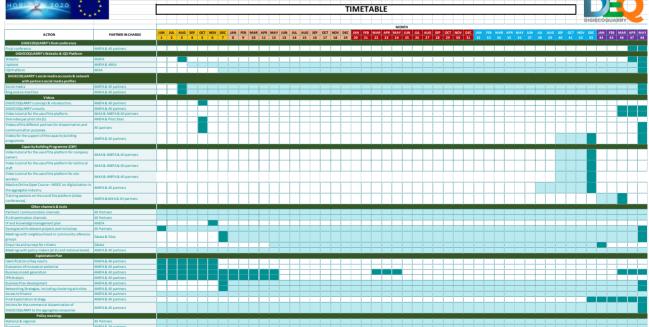
PARTNER	NEWSLETTER & PUBLICATION	PRESS RELEASES
ANEFA	ANEFAonline Monthly	Yes
GRANULATS VICAT	Yes	Yes (punctually)
HANSON	Yes Quarterly	Yes
HOLCIM	Yes (in ANEPLA – FEDERBETON)	Yes
CSI	No	Yes
CIMPOR	No	Yes
SANDVIK	No	Yes
METSO OUTOTEC	Yes	Yes
MAXAM	Yes	Yes
ITK	No	Yes
MUL	Yes	Yes
CHALMERS	Yes (in Swedish aggregate producers' association) Quarterly	No
UPM	No	No
AKKA	No	Yes
ARCO	No	Yes
MA ESTRO	Yes Quarterly	No
DOHMEN	No	No
ABAUT	No	No
APP	Yes	Yes
SIGMA	No	Yes
DG ASTUR	No	No
ASOGRAVAS	Yes Monthly	Yes
MINTEK	Yes Monthly	Yes
ROCTIM	No	No
ZABALA	Yes	Yes



17Annex VIII. Timetable

Table 8. Timetable.







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D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1 \mid 3).

Dissemination level: PU

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20Annex XI. Partners' dissemination track record

Tables 9 - 34 show dissemination-related activities carried out by each partner since the beginning of the project. This table will be updated in D9.6: Report on dissemination and communication activities.

Table 9. ANEFA's dissemination track record.

PARTNER: ANEFA					
1. SCIENTIFIC PUBLICATIONS					
Expected n	umber of publication	s by M48		3	
Title		Link	Details	in Deliverable	
	2. SCIENTIF	IC CONFERENCES			
Expected number of part	cicipations in scientific	c conferences by M48		4	
Name of the conference		Date	Details	in Deliverable	
VI Congreso Nacional de Áridos	26 th May 20	22. Oviedo, Spain		D9.4	
	3. JOURNALS	AND MAGAZINES			
Expected	d number of articles b	oy M48		4	
Title	Link		Details in Deliverable		
Anefa actualidad. Jan - Feb - Mar 20.	021 issue https://issuu.com/mythagosestudio/docs/an efa-actuliadad 64		D9.3		
Anefa actualidad. Apr – May – Jun 20	https://issuu.com/mythagosestudio/docs/an efa_65		D9.3		
Anefa actualidad. Jul - Aug – Sep 202	https://issuu.com/mythagosestudio/docs/an efa66		D9.3		
H2020 de la Comisión Europea aprueba financiar el proyecto DIGIECOQUARRY ideado y liderado por ANEFA https://www.aridos.ocomision-europea-apr proyecto-digiecoquarry por-ane		ueba-financiar-el- ideado-y-liderado-	D9.3		
Arranca el proyecto DIGIECOQUARRY https://www.aridos.org/arranca-el-proyecto-digiecoquarry/		D9.3			
El "international Advisory Board" del Proyecto	https://www.aridos.org/el-international-advisory-board-del-proyecto-digiecoquarry/		D9.3		
Anefa actualidad. Oct - Nov – Dec 20	21 issue	https://issuu.com/mytha efaactualid		9.4	



Interview to César Luaces Frades (PC) in Aggro	D9.3			
Action	Details in Deliverable			
5. OTHER				
European Minerals Days	March 2022	D9.4		
SMOPYC, International Show of Public Works, Construction and Mining Machinery	17 - 19 November 2021. Zaragoza, Spain	D9.3		
Name of the conference	Date	Details in Deliverable		
Expected number of participations in	events by M48	4		
4. EVENTS, FAI	RS AND WORKSHOPS			
Anefa Online 184	https://www.aridos.org/digiecoquarry- continua-su-trabajo-de-campo/	9.4		
Anefa Online 183	https://www.aridos.org/olimpiadas-y-sprints- finales/	9.4		
Anefa Online 182	https://www.aridos.org/primer-hito-del- proyecto-digiecoquarry-superado/	9.4		
Anefa Online 181	https://www.aridos.org/digiecoquarry- empieza-a-tomar-forma-la-plataforma-para- la-gestion-inteligente-de- la-cantera/	9.4		
Anefa Online 180	https://www.aridos.org/reunion-del-comite- tecnico-del-proyecto-digiecoquarry/	9.4		
Anefa Online 179	https://www.aridos.org/novedades-en-el- proyecto-digiecoquarry/	9.4		
Anefa actualidad. Apr - May – Jun 2022 issue	https://issuu.com/mythagosestudio/docs/an efa_actualidad_69	9.4		
Anefa actualidad. Jan - Feb – Mar 2022 issue	https://issuu.com/mythagosestudio/docs/an efa 68 v2	9.4		

Table 10. GRANULATS VICAT's dissemination track record.

PARTNER: GRANULATS VICAT						
1. SCIENTIFIC PUBLICATIONS						
Expected number of pu	Expected number of publications by M48 0					
Title	Link	Link		ls in Deliverable		
	2. SCIENTIFIC CONFERENCE	ES				
Expected number o	f participations in scientific conferences b	y M48		1		
Name of the conference	Date		Detai	ls in Deliverable		
	3. JOURNALS AND MAGAZI	NES				
Expected number of	articles by M48		1			
Title	Link		Details in De	eliverable		
	4. EVENTS, FAIRS AND WORKS	HOPS				
Expected number of particip	ations in events by M48		1			
Name of the conference	Date	Details in Deliverable		eliverable		
5. OTHER						
Action	Action		Details in De	eliverable		



Table 11. HANSON's dissemination track record.

PARTNER: HANSON					
1. SCIENTIFIC PUBLICATIONS					
Expected number of pu	Expected number of publications by M48 0				
Title	Link		Details in Deliverable		
	2. SCIENTIFIC CONFERENCE	ES			
Expected number o	f participations in scientific conferences b	y M48		1	
Name of the conference	Date		Detai	ls in Deliverable	
	3. JOURNALS AND MAGAZIN	NES			
Expected number of	articles by M48		1		
Title	Link		Details in De	eliverable	
	4. EVENTS, FAIRS AND WORKS	HOPS			
Expected number of particip	ations in events by M48		1		
Name of the conference	Date	Details in Deliverable		eliverable	
	5. OTHER				
Action	Action		Details in De	eliverable	

D9.3. DISSEMINATION AND COMMUNICATION



Dissemination level: PU

Table 12. HOLCIM's dissemination track record.

	DADTNIED, HOLCIA		
	PARTNER: HOLCIM 1. SCIENTIFIC PUBLICATIONS		
5			0
	mber of publications by M48		0
Title	Link	Details in	Deliverable
	2. SCIENTIFIC CONFERENCES		
Expected number of partici	pations in scientific conferences by M48		1
Name of the conference	Date	Details in	Deliverable
VI Congreso Nacional de Áridos	26 th May 2022	С	99.4
	3. JOURNALS AND MAGAZINES		I
Expected	number of articles by M48		1
Title	Link		Details in Deliverable
	https://concretenews.it/2021/06/11/lanciato-digiecoquarry-il- progetto-chiave-per-la-digitalizzazione-del-settore-degli- aggregati/		D9.3
Lanciato Digiecoquarry: il Progetto chiave per la digitalizzazione del settore degli Aggregati	https://www.edizionipei.it/notizie/news/lanciato-digiecoquarry-il- progetto-chiave-per-la-digitalizzazione-del-settore-degli- aggregati.htm		D9.3
	https://www.gowem.it/DigiEcoQu	uarry-Holcim	D9.3
	4. EVENTS, FAIRS AND WORKSHOPS		
Expected number	of participations in events by M48		1
Name of the conference	of the conference Date		Details in Deliverable
	5. OTHER		
	Action		Details in Deliverable



D9.3. DISSEMINATION AND COMMUNICATION

Table 13. CSI's dissemination track record.

PARTNER: CSI						
	1. SCIENTIFIC PUBLICATIONS					
Expected number of pu	Expected number of publications by M48 0					
Title	Link		Details in Deliverable			
	2. SCIENTIFIC CONFERENCE	ES				
Expected number of	participations in scientific conferences b	y M48		1		
Name of the conference	Date		Detai	ls in Deliverable		
	3. JOURNALS AND MAGAZIN	IES				
Expected number of	articles by M48		1			
Title	Link		Details in Deliverable			
	4. EVENTS, FAIRS AND WORKS	HOPS				
Expected number of participa	ations in events by M48		1			
Name of the conference	Date	Details in Deliverable		eliverable		
5. OTHER						
Action			Details in De	eliverable		



D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1|3).

Dissemination level: PU

Table 14. CIMPOR's dissemination track record.

PARTNER: CIMPOR					
1. SCIENTIFIC PUBLICATIONS					
Expected number of pu	Expected number of publications by M48 0				
Title	Link		Details in Deliverable		
	2. SCIENTIFIC CONFERENCE	ES			
Expected number o	f participations in scientific conferences b	y M48		1	
Name of the conference	Date		Detai	ls in Deliverable	
	3. JOURNALS AND MAGAZIN	NES			
Expected number of	articles by M48		1		
Title	Link		Details in De	eliverable	
	4. EVENTS, FAIRS AND WORKS	HOPS			
Expected number of particip	ations in events by M48		1		
Name of the conference	Date	Details in Deliverable		eliverable	
	5. OTHER				
Action	Action		Details in De	eliverable	



D9.3. DISSEMINATION AND COMMUNICATION

Table 15. SANDIVIK's dissemination track record.

PARTNER: SANDIVK						
1. SCIENTIFIC PUBLICATIONS						
Expected number of pu	Expected number of publications by M48 1					
Title	Link		Details in Deliverable			
	2. SCIENTIFIC CONFERENC	ES				
Expected number of	participations in scientific conferences b	y M48		2		
Name of the conference	Date		Detai	ls in Deliverable		
VI Congreso Nacional de Áridos	26 th May 2022. Oviedo, Spa	ain		D9.4		
	3. JOURNALS AND MAGAZIN	NES				
Expected number of	articles by M48		1			
Title	Link		Details in De	eliverable		
	4. EVENTS, FAIRS AND WORKS	HOPS				
Expected number of participa	ations in events by M48		1			
Name of the conference	Date	Details in Deliverable		eliverable		
	5. OTHER					
Action	Action		Details in De	eliverable		

D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1 \mid 3).

Dissemination level: PU

Table 16. METSO OUTOTEC's dissemination track record.

PARTNER: METSO OUTOTEC					
1. SCIENTIFIC PUBLICATIONS					
Expected number of pu	ublications by M48		1		
Title	Link	De	tails in Deliverable		
	2. SCIENTIFIC CONFERENCES				
Expected number o	f participations in scientific conferences b	y M48	2		
Name of the conference	Date	De	tails in Deliverable		
	3. JOURNALS AND MAGAZIN	NES			
Expected number of	articles by M48	1			
Title	Link	Details in	Deliverable		
	4. EVENTS, FAIRS AND WORKS	HOPS			
Expected number of particip	ations in events by M48		1		
Name of the conference	Date	Details in	Deliverable		
	5. OTHER				
Action	1	Details in	Deliverable		

D9.3. DISSEMINATION AND COMMUNICATION



Dissemination level: PU

Table 17. MAXAM's dissemination track record.

PARTNER: MAXAM					
	1. SCIENTIFI	C PUBLICATIONS			
Expected	d number of publication	ns by M48		1	
Title		Link	Details in	n Deliverable	
A novel borehole surveying system for underground mining: Design and performance assessment	https://www.sciencedirect.com/science/article/pi i/S0263224122002895			D9.4	
	2. SCIENTIFI	C CONFERENCES			
Expected number of pa	rticipations in scientific	conferences by M48		2	
Name of the conference	Date Details			n Deliverable	
	3. JOURNALS	AND MAGAZINES			
Expec	ted number of articles	by M48		1	
Title		Link		Details in Deliverable	
MAXAM announces its participation in the DIGI	https://www.maxamcorp.com/en/newsinsights/ news/maxamannouncesparticipationdigiecoqua rry			D9.3	
	4. EVENTS, FAIF	s and workshops		I	
Expected num	ber of participations in	events by M48		1	
Name of the conference	Date			Details in Deliverable	
5. OTHER					
	Action			Details in Deliverable	



D9.3. DISSEMINATION AND COMMUNICATION

Table 18. ITK's dissemination track record.

PARTNER: ITK					
1. SCIENTIFIC PUBLICATIONS					
Expected number of pu	Expected number of publications by M48 1				
Title	Link		Detai	ls in Deliverable	
	2. SCIENTIFIC CONFERENC	ES			
Expected number o	f participations in scientific conferences b	y M48		2	
Name of the conference	Date		Detai	ls in Deliverable	
	3. JOURNALS AND MAGAZIN	NES			
Expected number of	articles by M48	1			
Title	Link		Details in Deliverable		
	4. EVENTS, FAIRS AND WORKS	HOPS			
Expected number of particip	ations in events by M48		1		
Name of the conference	Date		Details in De	eliverable	
MIRO Forum	MIRO Forum 24 - 26 November 2021. Berlin, Germany		D9	3	
	5. OTHER				
Action	1		Details in De	eliverable	

D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1 \mid 3).

Dissemination level: PU

Table 19. MONTANUNIVERSITÄT LEOBEN'S dissemination track record.

PARTNER: MONTANUNIVERSITÄT LEOBEN					
	1. SCIENTI	FIC PUBLICATIONS			
Expected	number of publicati	ons by M48		3	
Title		Link	Details	in Deliverable	
	2. SCIENTI	FIC CONFERENCES			
Expected number of pa	ticipations in scientif	ic conferences by M48		2	
Name of the conference		Date	Details	in Deliverable	
	3. JOURNA	LS AND MAGAZINES			
Expect	ed number of article	s by M48		1	
Title		Link		Details in Deliverable	
Digitalisation for a more sustainable mini	ng industry	https://www.unileoben.ac.a h-digitalisierung-zu-eine bergbar	m-nachhaltigerem-	D9.3	
Stein und Kies		Paper	-	D9.4	
	4. EVENTS, FA	IRS AND WORKSHOPS			
Expected num	ber of participations	in events by M48		1	
Name of the conference		Date		Details in Deliverable	
	5. OTHER				
	Action			Details in Deliverable	

Table 20. CHALMER's dissemination track record.

PARTNER: CHALMERS					
1. SCIENTIFIC PUBLICATIONS					
Expected number of pu	ublications by M48		3		
Title	Link		Detai	ls in Deliverable	
	2. SCIENTIFIC CONFERENCE	ES			
Expected number o	f participations in scientific conferences b	y M48		2	
Name of the conference	Date		Detai	ls in Deliverable	
	3. JOURNALS AND MAGAZIN	NES			
Expected number of	articles by M48	1			
Title	Link		Details in Deliverable		
	4. EVENTS, FAIRS AND WORKS	HOPS			
Expected number of particip	ations in events by M48	1			
Name of the conference	Date		Details in De	eliverable	
	5. OTHER				
Action	1		Details in De	eliverable	



D9.3. DISSEMINATION AND COMMUNICATION

Table 21. UPM-M's dissemination track record.

PARTNER: UPM-M					
1. SCIENTIFIC PUBLICATIONS					
Expected number of pub	lications by M48		3		
Title	Link		Detai	ls in Deliverable	
A novel borehole surveying system for underground mining: Design and performance assessment	https://www.sciencedirect.com/scier i/S0263224122002895	nce/article/pi	D9.4		
	2. SCIENTIFIC CONFERENC	ES			
Expected number of	participations in scientific conferences b	y M48		2	
Name of the conference	Date	Date		Details in Deliverable	
VI Congreso Nacional de Áridos	26 th May 2022. Oviedo, Spain		D9.4		
	3. JOURNALS AND MAGAZIN	NES			
Expected number of a	rticles by M48	1			
Title	Link		Details in Deliverable		
	4. EVENTS, FAIRS AND WORKS	HOPS			
Expected number of participa	tions in events by M48	1			
Name of the conference	Date		Details in De	eliverable	
5. OTHER					
Action		Details in Deliverable			



Table 22. UPM-Al's dissemination track record.

	PARTN	ER: UPM-AI		
	1. SCIENTIFI	C PUBLICATIONS		
Expecte	d number of publication	ns by M48		3
Title		Link	Details	in Deliverable
	2. SCIENTIFI	C CONFERENCES		
Expected number of pa	articipations in scientific	conferences by M48		2
Name of the conference		Date	Details	in Deliverable
XIII Iberian Geochemical Congress	25 th – 27 th April 20	022. Puertollano, Spain		D9.4
VI Congreso Nacional de Áridos	26 th May 20	22. Oviedo, Spain		D9.4
	3. JOURNALS	AND MAGAZINES		
Exped	cted number of articles	by M48		1
Title		Link		Details in Deliverable
	4. EVENTS, FAIF	rs and workshops		
Expected nun	nber of participations in	events by M48		1
Name of the conference		Date	е	Details in Deliverable
JRC / HaDEA Technical Workshop "Channellin European projects into the Raw Materials Ir		3 rd December 2021		D9.4
Spanish Geology Olympics		3 rd March 2022 -	Madrid, Spain	D9.4
Expominerals		13 th March 2022 - Madrid, Spain		D9.4
Field trips of the School of Mines and Energy of	Madrid	April 2022 - Madrid, Spain		D9.4
Raw materials for the Green Transition		April 2	022	D9.4
	5.	OTHER		
	Action			Details in Deliverable



D9.3. DISSEMINATION AND COMMUNICATION

Table 23. AKKA's dissemination track record.

PARTNER: AKKA					
1. SCIENTIFIC PUBLICATIONS					
Expected number of pu	ublications by M48		1		
Title	Link		Detai	ls in Deliverable	
	2. SCIENTIFIC CONFERENCE	ES			
Expected number o	f participations in scientific conferences b	y M48		2	
Name of the conference	Date		Detai	ls in Deliverable	
	3. JOURNALS AND MAGAZIN	NES			
Expected number of	articles by M48	1			
Title	Link		Details in Deliverable		
	4. EVENTS, FAIRS AND WORKS	HOPS			
Expected number of particip	ations in events by M48	1			
Name of the conference	Date		Details in De	eliverable	
	5. OTHER				
Action	Action		Details in De	eliverable	



Table 24. ARCO's dissemination track record.

PARTNER: ARCO					
1. SCIENTIFIC PUBLICATIONS					
Expected	number of publication	ns by M48		0	
Title		Link	Details ir	n Deliverable	
	2. SCIENTIFI	C CONFERENCES			
Expected number of par	ticipations in scientific	conferences by M48		2	
Name of the conference		Date Details in			
VI Congreso Nacional de Áridos	26 th May 2022. Oviedo, Spain			09.4	
	3. JOURNALS	AND MAGAZINES			
Expect	ed number of articles l	ру М48		2	
Title		Link		Details in Deliverable	
Participación Proyecto DIGIECOQI	JARRY			D9.3	
	4. EVENTS, FAIR	S AND WORKSHOPS			
Expected num	ber of participations in	events by M48		1	
Name of the conference		Date	2	Details in Deliverable	
5. OTHER					
	Action			Details in Deliverable	



Table 25. MAESTRO's dissemination track record.

PARTNER: MAESTRO						
1. SCIENTIFIC PUBLICATIONS						
Expected number of pu	ublications by M48		0			
Title	Link		Detai	ls in Deliverable		
	2. SCIENTIFIC CONFERENCES					
Expected number o	f participations in scientific conferences b	y M48		2		
Name of the conference	Date		Detai	ls in Deliverable		
	3. JOURNALS AND MAGAZIN	NES				
Expected number of	articles by M48	2				
Title	Link		Details in Deliverable			
	4. EVENTS, FAIRS AND WORKS	HOPS				
Expected number of particip	ations in events by M48	1				
Name of the conference	Date		Details in De	eliverable		
	5. OTHER					
Action	า		Details in De	eliverable		

Table 26. DH&P's dissemination track record.

PARTNER: DH&P					
1. SCIENTIFIC PUBLICATIONS					
Expected	number of publication	s by M48		1	
Title		Link	Details in	Deliverable	
	2. SCIENTIFI	C CONFERENCES			
Expected number of par	ticipations in scientific	conferences by M48		2	
Name of the conference	Date Details in			Deliverable	
	3. JOURNALS	AND MAGAZINES			
Expect	ed number of articles b	oy M48		1	
Title		Link	:	Details in Deliverable	
	4. EVENTS, FAIR	s and workshops			
Expected num	ber of participations in	events by M48		1	
Name of the conference	Name of the conference Date			Details in Deliverable	
MIRO Forum 24 th - 26 th November. Berlin, Germany			D9.4		
5. OTHER					
	Action			Details in Deliverable	



Table 27. ABAUT's dissemination track record.

PARTNER: ABAUT					
1. SCIENTIFIC PUBLICATIONS					
Expected number of pu	Expected number of publications by M48				
Title	Link		Detai	ls in Deliverable	
	2. SCIENTIFIC CONFERENCE	ES			
Expected number of	f participations in scientific conferences b	y M48		2	
Name of the conference	Date	Details in Deliverable			
VI Congreso Nacional de Áridos	26 th May 2022. Oviedo, Spa	iin		D9.4	
	3. JOURNALS AND MAGAZIN	NES			
Expected number of	articles by M48		1		
Title	Link		Details in Deliverable		
	4. EVENTS, FAIRS AND WORKS	HOPS			
Expected number of participa	ations in events by M48		1		
Name of the conference	Date		Details in De	eliverable	
	5. OTHER				
Action	1		Details in De	eliverable	

Table 28. APP's dissemination track record.

PARTNER: APP					
1. SCIENTIFIC PUBLICATIONS					
Expected number of pu	Expected number of publications by M48				
Title	Link		Details in Deliverable		
	2. SCIENTIFIC CONFERENC	ES			
Expected number o	Expected number of participations in scientific conferences b			2	
Name of the conference	Date		Detail	etails in Deliverable	
	3. JOURNALS AND MAGAZIN	NES			
Expected number of	articles by M48	1			
Title	Link	Details in Deliv		eliverable	
	4. EVENTS, FAIRS AND WORKS	HOPS			
Expected number of particip	ations in events by M48	1			
Name of the conference	Date	Details in Deliverable		eliverable	
5. OTHER					
Action	Action		Details in De	eliverable	

D9.3. DISSEMINATION AND COMMUNICATION



Dissemination level: PU

Table 29. SIGMA's dissemination track record.

PARTNER: SIGMA					
1. SCIENTIFIC PUBLICATIONS					
Expected	Expected number of publications by M48				
Title		Link	Details ir	Deliverable	
	2. SCIENTIFI	C CONFERENCES			
Expected number of pa	rticipations in scientific	conferences by M48		2	
Name of the conference	Date Details in		n Deliverable		
	3. JOURNALS	AND MAGAZINES			
Expect	Expected number of articles by M48				
Title		Link		Details in Deliverable	
Sigma cognition	https://sigmacognition.ai/digiecoquarry/		D9.4		
	4. EVENTS, FAIR	S AND WORKSHOPS			
Expected num	ber of participations in	events by M48		1	
Name of the conference	of the conference Date		Details in Deliverable		
5. OTHER					
Action			Details in Deliverable		



D9.3. DISSEMINATION AND COMMUNICATION

Table 30. DGASTUR's dissemination track record.

PARTNER: DGASTUR					
1. SCIENTIFIC PUBLICATIONS					
Expected	d number of publication	ns by M48		0	
Title		Link	Details ir	n Deliverable	
	2. SCIENTIFI	C CONFERENCES			
Expected number of pa	rticipations in scientific	conferences by M48		2	
Name of the conference	Date Details in		n Deliverable		
	3. JOURNALS	AND MAGAZINES			
Expec	Expected number of articles by M48				
Title	Link		Details in Deliverable		
Arranca el Proyecto DIGIECOQU	Arranca el Proyecto DIGIECOQUARRY https://www.faen.es/arranca-el-prodigiecoquarry/			D9.3	
4. EVENTS, FAIRS AND WORKSHOPS					
Expected num	1				
Name of the conference		Date		Details in Deliverable	
5. OTHER					
Action			Details in Deliverable		



Table 31. ASOGRAVAS's dissemination track record.

PARTNER: ASOGRAVAS						
1. SCIENTIFIC PUBLICATIONS						
Expected number of pu	Expected number of publications by M48			1		
Title	Link		Details in Deliverable			
	2. SCIENTIFIC CONFERENC	ES				
Expected number o	f participations in scientific conferences b	y M48		3		
Name of the conference	Date		Details in Deliverable			
	3. JOURNALS AND MAGAZII	NES				
Expected number of	articles by M48	1				
Title	Link		Details in Deliverable			
	4. EVENTS, FAIRS AND WORKS	HOPS				
Expected number of particip	ations in events by M48	1				
Name of the conference	Date	Date Details in Deliverable		eliverable		
5. OTHER						
Actio	Action		Details in Deliverable			

D9.3. DISSEMINATION AND COMMUNICATION



Dissemination level: PU

Table 32. MINTEK's dissemination track record.

	PARTNER: MINTEK			
	1. SCIENTIFIC PUBLICATION	NS		
Expected number of pu	blications by M48		1	
Title	Link	De	Details in Deliverable	
	2. SCIENTIFIC CONFERENCE	ES		
Expected number of	participations in scientific conferences b	y M48	2	
Name of the conference	Date	De	Details in Deliverable	
	3. JOURNALS AND MAGAZIN	IES		
Expected number of	articles by M48		1	
Title	Link	Details in	Details in Deliverable	
	4. EVENTS, FAIRS AND WORKS	HOPS		
Expected number of participations in events by M48			1	
Name of the conference	Date	Details in	Details in Deliverable	
Joint Research Centre (JRC) Training Webinar	21 st October 2021]	D9.4	
South African Institute of Quarrying Conference	16 th March 2022	D.4		
5. OTHER				
Action		Details in Deliverable		



D9.3. DISSEMINATION AND COMMUNICATION MATERIALS (1 \mid 3).

Dissemination level: PU

Table 33. ROCTIM's dissemination track record.

PARTNER: ROCTIM						
1. SCIENTIFIC PUBLICATIONS						
Expected number of pu	Expected number of publications by M48			0		
Title	Link	Link		ls in Deliverable		
	2. SCIENTIFIC CONFERENCE	ES				
Expected number o	f participations in scientific conferences b	y M48		2		
Name of the conference	Date	Date		Details in Deliverable		
	3. JOURNALS AND MAGAZIN	NES				
Expected number of	articles by M48	1				
Title	Link	Details in Deliverab		eliverable		
	4. EVENTS, FAIRS AND WORKS	HOPS				
Expected number of particip	ations in events by M48	1				
Name of the conference	Date	Details in Deliverable		eliverable		
5. OTHER						
Action	Action		Details in De	eliverable		



D9.3. DISSEMINATION AND COMMUNICATION

Table 34. ZABALA's dissemination track record.

PARTNER: ZABALA					
1. SCIENTIFIC PUBLICATIONS					
Expected number of pu	Expected number of publications by M48				
Title	Link	Link		ls in Deliverable	
	2. SCIENTIFIC CONFERENCE	ES			
Expected number o	f participations in scientific conferences b	y M48		0	
Name of the conference	Date		Detail	Details in Deliverable	
	3. JOURNALS AND MAGAZIN	NES			
Expected number of	articles by M48	0			
Title	Link		Details in Deliverable		
	4. EVENTS, FAIRS AND WORKS	HOPS			
Expected number of particip	ations in events by M48	2			
Name of the conference	Date	Details in Deliverable		eliverable	
5. OTHER					
Action	Action		Details in De	eliverable	



