



SUSTAINABLE DEVELOPMENT AWARDS 2019



UEPG Sustainable Development Awards 2019

Promoting good practice ★ Going beyond what is expected
Providing examples others can follow

▶ SPONSORS

GOLD SPONSORS



CTC Automotive Ltd, member of the CTC Group, offers a portfolio of exciting brands of vehicles, heavy machinery, photovoltaics, professional tools and lighting. The company works in collaboration with Caterpillar which is the world's leading manufacturer of construction and mining equipment, diesel and natural gas engines, industrial gas turbines and diesel-electric locomotives.

E-MAK is the newest and most dynamic member of the Simge Group that was founded in 1977. At the outset E-MAK was established to manufacture machinery required by Simge Group Companies, in particular for asphalt production and its applications. In a short period of time E-MAK developed its own genuine technology and became a well-known brand.

INFORM works on Digital Decision Making based on Artificial Intelligence (AI) and Operations Research, including Machine Learning and Fuzzy Logic, which empowers state-of-the-art management. Integrating with corporate IT, it renders business operations more profitable, reliable, and agile, providing enterprises with a unique competitive advantage.

BRONZE SPONSORS



Austin Powder's history of serving the quarry and mining industries reflects continuous development of new, safer and more reliable blasting products, and innovative technologies.

UEPG Sustainable Development Awards 2019



1. Tarmac Trading Ltd 2. CMGO Bretagne Sud 3. Hermann Trolius GmbH 4. Prebetong Áridos 5. Tarmac Trading Ltd 6. Bernegger GmbH 7. Schmeer Sand und Kies GmbH 8. Keohane Readymix Ltd 9. CMGO Bretagne Nord-Ouest 10. ERMISA 11. De Dekker Groep 12. Hengli Mineral GmbH 13. Rudus Oy 14. Vega Del Moll 15. Latomia Pyggon Ltd 16. Destia Oy 17. Srinkal 18. Teunesen Sand und Kies GmbH 19. Holcim Aggregati Calcestruzzi s.r.l 20. Smiths Bletchington Ltd 21. CEMEX Granulats Rhine Méditerranée 22. Holcim Bonanno Quarry and Cantoni & C s.p.a. 23. ERMISA 24. Aggregate Industries Ltd 25. N.V. Niba, Dekker Grondstoffen B.V., Van Nieuwpoort Bouwgrondstoffen 26. Latomia Latorous Ltd 27. CEMEX Granulats Sud-Ouest 28. Cementos Cosmos s.a. 29. Hanson UK 30. Martin Pichler Ziegelwerk GmbH 31. Skanska Industrial Solutions 32. Inerti San Valentino s.r.l. 33. CEMEX España Operaciones 34. Áridos Valdearcos s.l. Reutiliza s.l. Coysa s.l. 35. Granulats Vicat 36. VKB Aargau 37. Destia Oy 38. Holemans GmbH 39. Quarzwerke GmbH 40. Hanson Hispania s.a. 41. AHE Schaumburger Weserkies GmbH 42. Solvay, Carrière Les Petons 43. Nuova Demi s.p.a 44. LafargeHolcim España B Sodira 45. Sverock AB 46. Juracime s.a. 47. NCC Industry Oy 48. Granulats Vicat 49. Bichterweerd N.V. and Van Nieuwpoort Bouwgrondstoffen 50. Teunesen Zand en Grint B.V. 51. Aggregate Industries Ltd 52. Hanson UK, Smiths Concrete Ltd 53. Tarmac Trading Ltd

▶ LIST OF ENTRIES

All entries in this publication are classified by country in alphabetical order. To help you finding entries according to your field of interest, this overview is listing entries by category.



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► PRESIDENT'S INTRODUCTION



Aggregates, that is sand, gravel, crushed rock, marine, recycled and manufactured aggregates – stones in different size and shape. To maintain and further develop our physical infrastructure and built environment in Europe, more than 3 billion tonnes of aggregates are needed every year. The question is not whether we need aggregates, but where from and how to extract or produce these raw materials in the most sustainable way.

Some answers might be given in this brochure which summarises the 53 entries from 13 countries UEPG received for the 2019 Sustainable Development Awards Ceremony. The entries are providing examples of excellence other companies could follow or get inspired

by in the areas of environment, social progress, economic contribution and with a special category for biodiversity and PR & Communications.

UEPG is proud of its independent Jury which worked incredibly hard to review all entries, related documents and material to select companies being awarded, getting specially mentioned or recognised for their outstanding contribution to a sustainable European Aggregates Industry.

UEPG will publish this brochure and all entries on our new website. Over the next three years, these 53 entries will be the "calling-card" for our industry and used as best practice examples for UEPG Public Affairs Campaigns. It will continue to add value for the ones who contributed to this year's Award and for the whole industry sector demonstrating excellence where policy decisions are being made.

My sincere gratitude goes out to those companies which contributed with an entry to this edition of the Sustainable Development Awards, to our national Member associations for having pre-selected and nominated the entries and to the Jury Members for their tremendous support to make the most difficult decision of selecting the best of the best.

A handwritten signature in black ink, appearing to read 'Thilo Juchem'. The signature is stylized and fluid.

Thilo Juchem
UEPG President

► JURY MEMBERS



“ At WWF, we envision a world in which people and nature thrive – but we'll only get there if we all play a role and we work together, including businesses and private sector. The projects of this year's UEPG sustainability awards demonstrate some companies are taking also this journey of change towards a more sustainable world. ”

Ester Asin

Director of the WWF European Policy Office



“ Social dialogue, pillar of the Industry's future ”

Jean-Pierre Damm

Co-Chair of the European Sectoral Social Dialogue Committee for the Extractive Industry



“ Collaboration is key to sustainable restoration. ”

Anna Ostreęa

Associated Professor at the AGH University of Science and Technology, Faculty of Mining and Geoen지니어ing



“ Even sticking to the basics can lead to a success story, everyone else could follow. ”

Slavko Šolar

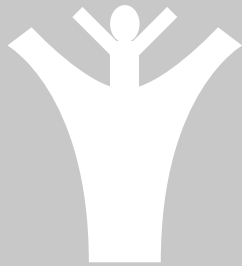
Secretary General of the European Geological Surveys



“ UEPG SDA 2019 entries have been vibrant in their content and diversity. ”

Guy Woodford

Editor of the magazine Aggregate Business Europe



UEPG Sustainable
Development Awards



▶ ENVIRONMENT

With 10 entries received for best practice in restoration; landscaping; innovative after-use of extraction sites; management of noise, dust or vibration; waste management and efficient use of water and energy, UEPG Members demonstrated their commitment to nature protection and environmental management.



Category:

Restoration



Tarmac Trading Ltd
Restoration of Cloddach Quarry

Sand and gravel were extracted at the Tarmac Trading' site between 1995-2013, and 35 hectares of the land has now been completely restored to a mosaic of lakes, wetlands, islands, wet woodland and agriculture. The land restored into agricultural use has developed a good soil, lake margins were shaped to create habitats particularly to birdlife, partnership were created as well as a permissive footpath with viewing points.

Category:

Restoration



CMGO Bretagne Sud
Restoration of a watercourse in Grand-Champs Quarry

The objective of CMGO Bretagne Sud Carrière de Grand-Champ was to create and restore 400 linear metres of watercourses and thus act as a drain for adjacent wet plots. To facilitate the installation and to ensure the return of fish, several weirs had to be strategically positioned and caches were established. Three years after the restoration of the watercourse, the objectives had been achieved, low-water level support is provided even in winter, winter overflows ensure the evolution of wetlands and the feeding of ponds. Each year, an engineering firm (ALTHIS) carries out a follow-up study that shows that species have recolonised the watercourse.



Category:

Restoration



Hermann Trollius GmbH

Transplantation of nutrition-poor grassland

The Trollius company is pursuing the goal to increase biodiversity through measures that go beyond obligations laid down in the permit. By this, the structural diversity and the species potential in the area is intended to be stabilised and increased. In the run of time, a vast blooming grassland developed with many species of the former "Häselberg"-hilltop with differences according to the harvesting periods of the hay-seed and area of additional transplantation of sods took place. Just a few years later, the population presented itself as an exceptionally species-rich semi-dry grassland of great importance for flora and fauna.

Category:

Restoration



Prebetong Áridos

Restoration of the gravel site El Toril – Sevilla

Restoration is carried out simultaneously with plant operations. Once operations end on a specific section, restoration begins with landfill, levelling, the addition of fertile topsoil and preparations for the land to be used for agriculture. This quarry is an example of how the impact of an active operation can be significantly reduced. This operation is also an example of how different economic activities can coincide simultaneously on the same site, in this case extractive operations and agriculture with a very small impact. Environmental responsibility is a core value of Prebetong Áridos, and the company is committed to the rapid restoration returning them, in this case, to their initial agricultural use with a minimum impact area.



Category:

Restoration

Category:

Environmental Best Practice



TARMAC
A CRH COMPANY

Tarmac Trading Ltd

Restoration of Panshangar Park

Almost 70ha have been progressively restored by Tarmac Trading. This includes: a new section of chalk river; fen and marshy grassland; and lakes with shallow reed-fringed margins. At the same time, ancient woodlands have been carefully managed and veteran trees have been protected. The delivery of the cutry park has provided access and recreation opportunities for the local community, but also as an educational resource.



Bernegger GmbH

Mineral raw materials on train to consumers

Bernegger has developed an overall concept for the transport of raw materials by rail. The primary objective of the project was to reduce truck traffic in connection with transport of mineral raw materials. The main objectives were the significant reduction of air pollutants (primarily CO₂, NO_x, PM₁₀ fine dust) and of noise emissions during transport, the reduction of costs for truck personnel and the increase in the plannability and availability of mineral raw material transports from plant to customer. The complete solution developed of combined rail logistics for raw material transports, consisted of a developed special-container transport system in conjunction with connecting track Spital/Pyhrn.



Category:

Environmental Best Practice



Schmeer Sand und Kies GmbH
Development of a biological diversity in an ongoing operation

The intention is the innovative concept of a permanent biotope and species protection management in the ongoing operation in order to interlock the economy more closely with the ecology. The introduced approach goes even further than the general legal requirements, but has the potential to contribute significantly to the sustainable preservation of the endangered species of open land sites. Two independent studies were made for this management approach, on the basic understanding of the species inventory occurring and, on an analysis of the ecological development potential of sub-areas, identifying and enhancing target species in a special way through optimization measures with a significant increase in biodiversity and density of individuals.

Category:

Environmental Best Practice



Keohane Readymix Ltd
Outstanding achievement in comprehensive management and community engagement

Dromkeen Wood is a beautiful hillside haven, it was planted in 1740 by Thomas Adderly then landlord of Innishannon. The wood runs adjacent to the Bandon River and is surrounded by an area of special conservation, as well as two areas of historical significance, a Bronze Age hill fort and a Famine burial ground. Nestled in the middle Keohane company is operating. Over the past 35 years Keohane has worked tirelessly to adhere to the conditions and to improve the facility to bring it to the standard in which it operates today. Keohane is a highly respected part of the Innishannon community. In the EPA document "Environmental Management in the Extractive Industry" Dromkeen was referenced and photographed as an example of best practice.



Category:

Environmental Best Practice



CMGO Bretagne Nord-Ouest

Creation of an artificial tunnel for bats

On the Trégueux quarry, which is still in operation, an artificial tunnel has been created to promote the hibernation and protection of bats. This project is being carried out in collaboration between the environmental NGOs and the quarrying company. Buried under a belvedere built for the occasion, it meets the ideal conditions (darkness, temperature and humidity) for the hibernation of endangered species. An environment similar to that found in natural caves and underground sites, which the region lacks. This tunnel is intended to accommodate bats in winter during hibernation.

Category:

Environmental Best Practice



ERIMSA

A Sustainable Extraction System

The actions carried out by Erimsa in “Yeyo” exploitation are focused on the implementation of a sustainable extraction system compatible with the rural environment in which it is located and adapted to the features of the type of deposit extracted. This set of techniques and good environmental practices compose a methodology that combines a method of extraction and restoration that allows its execution simultaneously, so that occupation times of plots are shortened to a few months. The compatibility with the rest of activities developed in the territory generates a series of synergies that improves all of them, increasing the productivity of the plot and adapting it for different uses according to the landowners' needs.



► SOCIAL PROGRESS

UEPG had received 14 entries to showcase social progress. Best practice in this category includes local community partnership such as communication and dialogue; promotion of education and cultural events; open-door events; social contribution to the community; addressing local concerns; management of heritage, but also excellence in health and safety during operations; involvement of employees; research and development and innovative solutions to avoid accidents.



Category:

Local Community Partnership



De Dekker Groep
The values of Randwijkse

A sand extraction was created in the seventies in the floodplains of the village of Heteren to extract raw materials for the construction of the bridge over the river Rhine. The bare pit that remained in the monotonous agricultural landscape became a thorn in the side of the residents, prompting them to take the initiative of developing a beautiful new appearance for the small town. They quickly discovered their need for a partner. That partner was found in Dekker. Dekker worked together intensively with the village council and the municipality Overbetuwe to move the project, meanwhile named the "Randwijkse Waarden", forward.

Category:

Local Community Partnership



Hengl Mineral GmbH
Living Quarry

The quarry area is safely opened and accessible to the general public. The philosophy of the Hengl Company is to open the site to neighbours and the public. The project of a "Living Quarry" is well recognised by all stakeholders – especially neighbours, authorities and visitors. Many activities are on offer to the local community from site visits to open air stage concerts, training of rescue dogs, blasting courses, firefighting exercises, recultivation of trees by pupils, mineral searchers and fossil-hunters, training courses for remote-controlled unmanned flying objects, paintball sports events, races for car-oldies, exhibition of tractors, international truck trial championship, product presentations from construction machinery companies and car dealers.



Category:

Local Community Partnership



Category:

Local Community Partnership



Rudus Oy

Hyvinkää Suomies – a unique recreation area in Finland

Suomies was transformed into an intriguing outdoor recreation area as a result of collaboration with officials from the City of Hyvinkää and its residents, the Finnish Association for Nature Conservation, public employment services and students from various disciplines. The design of the aftercare plan for the area was based on the work of a landscape architect student, whom interlinked the nature trail with an immense art installation called the "giant's footprint", nodding to ancient Finnish folklore. Some long-term unemployed people were hired to perform aftercare work in the area. Plants that thrive in xerothermic habitats were planted in the gravel extraction area, insect hotels in the form of artistically arranged deadwood environments have been introduced, and groundwater has been protected with new soil layers. This was opened to the public in 2017.



Vega Del Moll

Cantera mas de la parreta

The Vega del Moll company is committed to recovering and preserving the natural and cultural heritage and promoting both sustainable regional development and social and cultural activities. Since 2000, the company has been involved in 65 social and cultural activities in collaboration with local and regional authorities. As a result, the quarry is one of the most attractive and outstanding archeological and paleontological site of the Valencian community. Key elements include the education, promotion and recovery support of Visigothic settlement of Els Casals del Mas de Sabater. More than 4.500 remains of Mesozoic vertebrate recovered from 18 distinct fossil-sites with several new species described are remarkable examples of this commitment.



Category:

Local Community Partnership



Latomio Pyrgon Ltd
Educational Visit

One of Latomio Pyrgon Ltd's goals is to build and maintain a partnership with the local community. The company is committed to forging links with local academic establishments, to enhance students' learning experience and aid their career development. Guiding the future generations is a significant step for a sustainable society. Educating them on the impact nature has on humankind, and the impact humankind has on nature, both people and nature are winning. With this experiential learning, changing behaviour towards nature will happen.

Category:

Local Community Partnership



Destia Oy

School visits at Pitkäkallio aggregates area

Improving and developing the cooperation with the neighborhood has been Destia's goal in the Pitkäkallio area for several years. The company wants to improve the locals' understanding of the area's operations through active reporting. The company organised school visits of the site to show them that it is being run safely and the surrounding region is being taken into consideration. Over the course of the day, children learned about matters related to aggregates' operations, noise and environmental issues and traffic safety. As a result a WhatsApp group for the area's residents was created to give information and make announcements on things like periods of activity and explosions. Close cooperation with the locals helps dissipate prejudices and promote approval.



Category:

Local Community Partnership



STINKAL

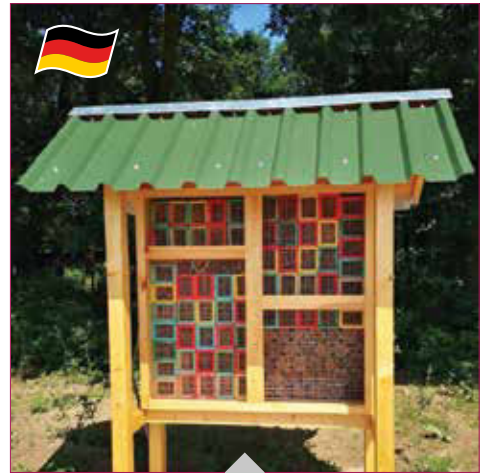
Stinkal

Turn a collective redevelopment into a chance for biodiversity

At the end of 2018, Stinkal welcomed local schools to carry out two nature projects. One consisted in maintaining an amphibian-friendly pond, created by the operators on a refurbished material depot, while the other allowed the refurbishment of a bunker dating back to the Second World War into a nesting place for bats. These two days, animated by exchanges between the operators and the young high school students, allowed them to put their knowledge into practice, all in a professional context, to discover professions within the quarrying industry and to show them that they will be able, on their future sites, to carry out simple actions for the development and maintenance of biodiversity.

Category:

Local Community Partnership



 Teunesen group

Teunesen Sand und Kies GmbH

Wild Bee Project

Since 2013 the company has been developing and implementing measures supporting the survival of wild bees and honey production in cooperation with the regional association of beekeepers. For instance, at the company' sites were carried out targeted restoration measures for the benefit of bees. The project was presented to Weezer schools and kindergardens in 2018. The involvement of the public and numerous press articles raises awareness to neighbouring towns and other companies to develop similar projects. A constant monitoring of the food sources and nesting opportunities during the coming years will enhance the continuity of bees' habitats. In addition, a new project "Nature and Environment Protection" for secondary schools in the district of Kleve is expected.



Category:

Local Community Partnership



Holcim Aggregati Calcestruzzi s.r.l

Integrated project for the Olona's river media valley frution through forest improvement and hydraulic requalification

The project of Holcim Aggregati Calcestruzzi was born with the aim of making degraded areas located along the Olona's river valley not longer in use, accessible to the local population. Integrated series of forestry and hydraulic requalification operations, insertion of new pedestrian and cycle paths with works of naturalistic engineering were made. The project was developed in close collaboration with the municipal administrations and the provincial authorities.

Category:

Health & Safety Best Practice



Smiths Bletchington Ltd

Use of drone-based videos for the induction of hauliers and contractors

Smiths was concerned that all contractors on-site understood the layout and Health and Safety procedures they were required to follow. To address this issue, the Gill Mill management team developed two highly engaging films utilising cutting edge drone technology. The videos utilised extensive drone-based video footage which was enhanced with graphic images. One video was developed for use with hauliers and the other for maintenance contractors. The video inductions are delivered in a dedicated induction suite on-site, this allows inductees to focus without distraction on the visuals and key information being provided.



Category:

**Health & Safety
Best Practice**



**CEMEX Granulats
Rhône Méditerranée**

« Objective zero accident »

To protect employees, customers and other stakeholders, the Auriol quarry has set up a dedicated organisation and initiatives to raise awareness among the various groups. First, they have initiated an artistic expression "Imagine Daddy at Work, How would you draw it?". It consisted in involving their employees' children by creating drawings for their parents on how they should protect themselves at work. Then, they launched the 2017 "Listen to preserve yourself", which is a practice of muscular stretching (warm-ups) of 5 to 10 minutes at the beginning and end of the day.

Category:

**Health & Safety
Best Practice**



**Holcim Bonanno Quarry
and Cantoni & C. s.p.a.**

'Defender' a protective structure
against roll-over and falling objects

Where, in the case of self-propelled machinery with a ride-on driver, operator(s) or other person(s), there is a risk of rolling or tipping over, the machinery must be fitted with an appropriate protective structure, unless this increases the risk. The anti-tipping device 'Defender' was developed jointly by the quarry 'Bonanno' and by Cantoni company. The project has been developed according to the H&S specifications provided by Holcim Italy and it is now patented, approved by the national body for civil motorization and the Bonanno quarry is the first user in Italy.



Category:

Health & Safety Best Practice



ERIMSA
Improved cabins of sorting

In terms of safety, Erimisa has maintained a policy that goes beyond legislative compliance, sustaining that human capital is one of the most important assets of companies. The action focuses on improving the conditions of exposure to silica powder of the operators of this post, specifically those developed in the hand-picking room after improving workplace conditions. Erimisa applies the continuous improvement of methods, especially for exposure to silica dust generated, studying the implementation and monitoring of safety actions and manages to detect, analyse and solve situations that may cause detriment to the workers' safety conditions.

Category:

Health & Safety Best Practice



Aggregate Industries Ltd
Managing health and safety on a major quarry redevelopment – Project Sence – Bardon Hill Quarry

Aggregate Industries' unique project of is the largest quarry construction project in Europe with an existing operation along with processing plant, asphalt plants and a rail load out facility. From its inception, the health and safety of operators on this project has been the highest priority. Long before, a strategy was developed for managing the interaction between the construction and quarrying activities. The creation of a strong safety culture for everyone working on the project has been fundamental to its success together with a fully integrated approach to managing all aspects of health and safety. An emphasis was placed on key areas of the activity. The processes put in place to support them have ensured effective control of the main health and safety issues associated with a project on this scale.



▶ ECONOMIC CONTRIBUTION

New and resource efficient production processes and product innovation including new applications are displayed in this category for which UEPG has received 10 entries.

▶ Economic Contribution



Category:

Economic Contribution / Added Value to Society

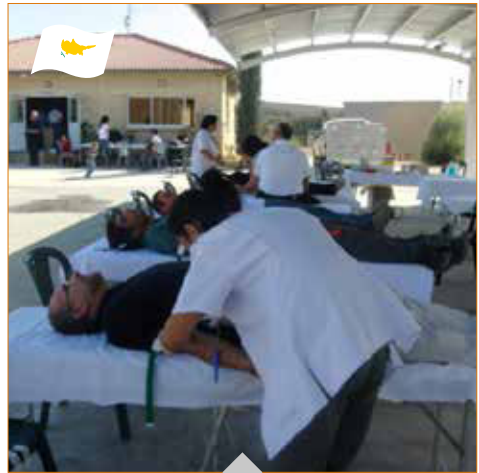


N.V. Niba, Dekker Grondstoffen B.V., Van Nieuwpoort Bouwgrondstoffen
The Grensmaas project

The Grensmaas project is part of the national "Room for the River" programme. The work is performed by Consortium Grensmaas B.V., construction companies and the Dutch Society for Nature Conservation. The work has started in 2008 and ends in 2027. In addition to offering people increased safety, it will also create new natural areas and provide hundreds of jobs. At the end of the project, a nature reserve area of 1,200 hectares will have been realised. Parts of this nature reserve area are already open to the public and highly appreciated by local residents and tourists.

Category:

Economic Contribution / Added Value to Society



Latomia Latouros Ltd
Blood Donation Event

Latomia Latouros actions are related to Corporate Social Responsibility (CSR) and added value to society. The project describes the company's efforts in minimizing the blood shortage problem that exists in Cyprus and finding new volunteer bone marrow donors. Latomia Latouros Ltd has set blood donations (once a year) in collaboration with the Cyprus Ministry of Health's Blood Centre. Through this event, the company encourages all employees, customers, associates, family and friends to donate blood. The initiative was expanded to also support the Karaiskakio Foundation by integrating bone marrow sample collection in its annual blood donation event.

► Economic Contribution



Category:

**Economic Contribution
/ Added Value to Society**



CEMEX Granulats Sud-Ouest

**Buzet Quarry: an example of
living together for 50 years**

CEMEX has long been committed to a sustainable development approach at all levels of the company and on all its sites. This approach, which was first based on an environmental policy, has been extended to include a genuine Sustainable Development policy and then a Social, Community and Environmentally Responsible policy built collectively (managers, employees, qualified external persons). More than half a century after the opening of the Buzet-sur-Tarn site, the global approach is locally integrated. They have initiated a different approach, more open and giving way to more exchanges with civil society (elected officials, associations, residents) but also internally with employees and subcontractors working on the site.

Category:

**Economic Contribution
/ Added Value to Society**



Cementos Cosmos s.a.

**Extractive operations and
protection of cultural assets**

The operation of "Don Isidro" is located in Galicia, in the province of Lugo, in the municipality of Triacastela (Spain). It is an open pit with limestone, operated by blasting in descending banks. After years of surveys and studies, the site is now known to be one of the most important paleontological sites of the Iberian Peninsula, with parietal artistic manifestations corresponding to the Upper Paleolithic era; it is Galicia's first "sanctuary" of prehistoric art. All the actions carried out to maintain operations with the preservation of the cave's cultural assets and demonstrate that extractive operations and cultural and natural heritage assets can interact and not only coexist, but also to protect and support each other.



Category:

Economic Contribution / Added Value to Society



Hanson UK

Chipping Sodbury Quarry, Bristol – Barnhill Redevelopment

The Barnhill Quarry re-development project at Chipping Sodbury Quarry has made a significant contribution to the life of Chipping Sodbury and its town center, by provision of a new edge-of-town supermarket, new affordable and sheltered housing, car parking and pedestrian links to the town center. This has taken place on land that was formerly the original Chipping Sodbury quarry, operational from the middle of the 20th century up until the 1980s, but since then left relatively neglected.

Category:

Operational Best Practice, Process or Product Innovation



Martin Pichler Ziegelwerk GmbH

Roll-on mortar. Roll-on watering, ready to use

Martin Pichler Ziegelwerk company has dealt intensively with the challenges of mortaring of masonry. Time savings, material savings, airtight masonry on passive house standard, improvement of sound insulation and crack prevention. The product was recently patented and it received the "Energie Genius" Innovation Award from the State of Upper Austria and from the Federal Ministry of Agriculture, Forestry, Environment and Water Management. In addition, PIA Roll-on-Mortar was tested in ecological terms and was successfully certified according to the criteria of the 'natureplus' association. PIA Roll-on-Mortar is not an improvement of existing techniques, but rather a 'novelty'.



Category:

Operational Best Practice, Process or Product Innovation



SKANSKA

Skanska Industrial Solutions

Electrified site

Electric site: The initiative is a complete site solution which involves the development of new quarry equipment, autonomous and powered by electricity, and an efficient new way of operating a quarry site. The project was initiated in 2013, by Skanska and Volvo. During the ten-week test period, carbon emissions were decreased by 98 per cent. Furthermore, energy costs have been reduced by 70 per cent and operator costs have been lowered by 40 per cent, together supporting the ambition of achieving a 25 per cent decrease in total cost of operations.

Category:

Best Practice or Innovation in Recycling, Marine or Manufactured Aggregates



Inerti San Valentino s.r.l.

Ecosand

This new product named "Ecosand" is an End of Waste (EOW) material, 100 % obtained from an operation of recovery authorised in the ordinary regime as per the Italian legislation, complying with the requirements and CE marked. The Ecosand production cycle is key to the unique final product described.

Category:

Best Practice or Innovation in Recycling, Marine or Manufactured Aggregates



CEMEX España Operaciones

Aurora Quarry restoration – Life Ecoestclay

Aurora restoration process applied a fluvial – geomorphic approach completed with an ecological approach for handling topsoil, vegetation and fauna. The restoration has been carried out in the framework of the European LIFE ECORESTCLAY project. Careful monitoring of this type of restoration demonstrates that the restoration is a clear success, reestablishing the hydrological connectivity, and maximising the visual and ecological blending with the surroundings. The Aurora quarry restoration has already received important recognitions in Spain and in Europe by the European Commission as a Geomorphic Restoration among a series of Best Available Techniques for the Management of Waste of the Extractive Industries.

Category:

Best Practice in Innovation or Recycling, Marine or Manufactured Aggregates



Àridos Valdearcos s.l., Reutiliza s.l., Coysa s.l.

Innovation in the integration of the activities of recycling and the extraction of natural aggregates

Aridos Valdearcos S.L. has successfully innovated its activities related to extraction, transformation, commercialisation and sale of natural aggregates with the integration of the recycling of construction and demolition materials in its production processes. Innovation in the aggregate sector through the incorporation of recycled material, whenever technically feasible, into its activity of restoration, manufacturing and marketing and sales processes, has meant a productive improvement materialising in an efficient utilisation of resources and knowledge along with obtaining satisfactory economic results.



► COMMUNICATION

With the industry being much too shy on the many good stories on projects, initiatives and activities it could tell and being less experienced in communicating with the public and policy makers, this category is designed to share the 6 good and innovative examples other producers could follow.



Category:

Communication



Granulats Vicat
Theater on the rocks

The Armailler's quarry explored a new path, aiming to make the quarry the setting for a show open to all. In 2017, the group produced a new September show entitled "Rêves de sable". "Rêves de sable" was a multidisciplinary show that combined art with sand, live music and a puppet. Within the site itself, a green theatre, with a capacity of 200 seats, has been built. With this new green theatre, the quarry is ready to welcome artists more regularly. To this end, contacts have been established with various organisers of the cultural life of Valence.

Category:

Communication



VKB Aargau
Good marks for sustainability

The VKB Aargau and the Naturama jointly organised a stone lizard competition for classes from primary and middle schools in a gravel pit in Aargau. A total of 33 school classes entered the competition. The stone lizard competition allowed to achieve several objectives. The public was made aware of the industry's commitment to the environment. The children were introduced to topics including the environment and biodiversity. The 30 stone lizards created new habitats for pioneering species of animals and plants in gravel pits. This attracted a lot of media attention and positive response from the public, which indicates that the campaign was a major success for the natural world.



Category:

Communication



Destia Oy

Nature's calendar using photos taken on aggregate sites

The conservation and development of nature's biodiversity are established policies when planning, implementing and in the after-care of Destia's aggregate operations. The Destia aggregate unit created a nature calendar during 2018 which presents a taste of Destia's professional aggregate operations improving nature's biodiversity. In the calendar, the company explains using photos and bulletins about how the Destia aggregate unit takes nature into consideration in its operations and how it strives to make better choices when it comes to nature. All of the photos in the calendar were taken by employees. The aim of the calendar project was to encourage employees to see aggregate sites in a different way and to notice the nature in and around these areas. This allows for better consideration for nature as they work on the extraction process.

Category:

Communication



Holemans GmbH

Corporate Communication – analogue, personal and sustainable – Holemans symposia and reference books

Every two years, a "Holemans Symposium" takes place. Specialist speakers - among them scientists and experienced practitioners meet around 100 invited guests who work in politics, management and business, as well as experts from the fields of planning, nature conservation and regional marketing. The aims of the symposia are to offer new and unexpected perspectives to local decision-makers and stakeholders, to draw their gaze beyond their everyday business and thus to sustainably enrich the (public) debate concerning the extraction of raw materials. Just as popular are the Holemans reference books, published after each symposium. The book resumes speakers' interventions as well as additional reports and thesis on the same topics.



Category:

Communication



Quarzwerke GmbH

This is us: warm, genuine and appealing visual messaging – Quarzwerke capitalises on emotional communication

Neighbours, potential employees and authorities need to be regularly informed of company's news. Quarzwerke has taken the approach to tell new "Stories" (blog.quarzwerke.de) with an information-based website, which offers neighbours, employees and potential employees a colourful mix of subjects from around the company. The blog is visited by around 600 external users a month. It is complemented by a new print sustainability magazine called "achtsam" (mindful). A film on the Internet was made about the extraction site in Frechen, which allowed employees to have their say and talk about their company.

Category:

Communication



Hanson Hispania s.a.

« Aviones » short film. Avant-garde communication action for the Aggregates Industry

The communicative actions carried out by aggregates producing companies to inform about the good practices carried out in ecological restoration and biodiversity management field do not always manage to reach the general public. In response Hanson Hispania has developed a communication initiative absolutely avant-garde in the aggregates and conservation sectors. The project consists in a fiction short film recording based on the aggregates extraction reality. As a theme, the Sand Martin (Riparia riparia) nesting management present in the site was selected. The film was presented during the II Salamanca University Environmental Film Week and a shorter version through the social networks.



► BIODIVERSITY

The European Aggregates Industry operates with care in nature. This special category shows the 13 outstanding entries related to the protection or the improvement of existing habitats or the creation of new habitats attracting species.



Category:

Biodiversity



**AHE Schaumburger
Weserkies GmbH**
Upper Weser floodplain landscape

The "Upper Weser floodplain landscape" developed a unique natural landscape due to extraction from 1996 to 2016. This is considered as a "secondary natural wonder". With its long-term connectivity, the Weser provides dynamic habitat that gives high value as a protected area. Its diverse mosaic area is characterised by shallow water zones, reed beds, tall forbs, as well as steep banks, gravel banks and islands. The habitat accommodates various fauna, in particular, rare breeding birds such as sea eagles and common terns, which have successfully settled there. The resulting structures and high development potential of the ecological planning concept after extraction have meant that the area became a nature reserve as early as 2014.

Category:

Biodiversity



Solvay, Carrière Les Petons
LIFE in Quarries

The company Carrière "Les Petons" has joined the project LIFE In Quarries in 2016 for the purposes of improving the management of the biodiversity on their site. The quarry develops strategies to secure and enhance natural habitats through concerted implementation of concrete conservation with temporary and permanent actions. The objective of the project is to develop, manage and maintain the hosting capacity of biodiversity in active quarries. The originality of the project is to anticipate the implementation of biodiversity management measures during the extracting period which is the concept of 'dynamic biodiversity management'. Pioneer habitats, generated by extractive activity, are exceptional opportunities for the installation and development of rare and threatened populations of pioneer species.



Category:

Biodiversity



Nuova Demi s.p.a

Biodiversity in a sand and gravel extraction area

Since 1951, the Nuova Demi has contributed to the development and progress of Bergamo urban planning. The geographical expansion is flanked by new initiatives and the extractive activity is a natural complement within the environmental recovery. The company won the 2016 'Green Company Award' presenting the project 'Quarry and environment: a sustainable synergy'. The redevelopment project also included a mega photovoltaic park and a new structure of accommodation for small groups as school classes. The redevelopment has also led to a significant increase of species detailed in the project.



Category:

Biodiversity



LafargeHolcim España & Sodira

Saving the Sand Martin

The Sand Martin (*Riparia riparia*) is a migratory species, with conservation interest in Europe. Its natural breeding habitats are the banks of rivers, streams and lakes, though in the last decades, the Sand Martin has increased the use of extractive areas as breeding sites, where it now concentrates its main breeding colonies. The objective of this project (developed through a partnership between LafargeHolcim and Sodira, the FIRE Foundation and the University of Alcalá), is to help reconcile extractive activity and the conservation of the Sand Martin both during the active and the restoration phases of aggregate sites, through a guide of best management practices.



Category:

Biodiversity



SWEROCK

Swerock AB

Biodiversity in Källered Quarry and surroundings

The work on creating conditions for biodiversity in the Källered quarry started in 2011, but since 2013, it has also included the nearby lake Sagsjön which is partly owned by Swerock AB. The goal has been to create a network of biodiversity with suitable environments for different groups of species, where the nesting couple of Peregrin falcon inside the quarry are at the top of the food chain. The lake Sagsjön has been restored for several years and its rich bird life now attracts many visitors.



Category:

Biodiversity



Juracime s.a.

Development of biodiversity and creation of regional wildlife corridors

Juracime company is conscious of the strong biodiversity potential of the area of extraction from its ecological networks, cross-regional wildlife corridors and Inventory of Landscapes and Natural Monuments. Therefore, the company has focused its environmental policy on preserving the ecology, reducing the impact that its facilities and its products have on the environment, and maintaining biodiversity. In practical terms, the company works with numerous partner organizations (professional associations, nature conservation societies, NGOs, regional authorities, local farmers and beekeepers) to establish targeted measures that both promote the development of biodiversity and create and maintain links between regional wildlife corridors to foster committed business to sustainable development, where nature and industry live together.



Category:

Biodiversity



NCC Industry Oy
NCC Kielo – Kiuru area

Kiuru-area is located in Southern Finland. The 4-hectare area is right next to NCC Industry's biggest stone quarry and recycling area in Finland. Kiuru-area was built in 2014 and it has been monitored and developed carefully. The NCC site has several different types of habitats all supporting many endangered species. There are hot barren areas and lush small ponds with newts living in them. Rocky fields made with blasted unused stone offer excellent habitats for snakes and different meadow flowers offer food for many butterflies and other pollinators. This area could not have been made without collaboration from several stakeholders, especially two different nature associations and the important collaboration with local beekeepers, who brought beehives to the area.

Category:

Biodiversity



Granulats Vicat
The odyssey of the wild pollinators

In 2015, Vicat initiated the "Odyssey" initiative, dedicated to the preservation of pollinating insects and wild bees. The Odyssey approach mainly includes the implementation of concrete actions in quarries, while conducting communication campaigns with employees and the general public on the need to preserve biodiversity through an educational approach: numerous developments and biodiversity spaces designed to bring "shelter and cover" to wild pollinators and bees, educational communication and environmental awareness materials aimed at the general public have been prepared, actions are carried out in partnership with various bodies.



Category:

Biodiversity



Bichterweerd N.V. and Van Nieuwpoort Bouwgrondstoffen Lus van Linne

The floodplain Lus van Linne was an extraction site until 1980s. At the beginning of the 21st century, the location was designated as a site of special interest within the National Ecological Network. In 2005, a definitive restoration plan for the area by extracting the remaining aggregates and completely remodeling the meander zone was operated. River-related habitats and flood protection are central themes with unique opportunities for biodiversity. During extraction and restoration works, developments are carefully monitored and relevant species are regularly reported. Prior to commencement of restoration works, every zone undergoes a scan by ecologists to determine the presence of protected or interesting flora and fauna.

Category:

Biodiversity



Teunesen Zand en Grint B.V. Kingsven – The Diepen nature development project

The joint project between the sand extraction company Teunesen and Natuurmonumenten (the Dutch Society for Nature Conservation) is an efficient cooperation for restoring the unique attributes of the area's natural habitat. The partnership and the approach adopted are absolutely vital to this nature development project. The project will create a unique and diverse nature habitat, on a European scale, occupying an area of approx. 200 hectares, which should serve as a home to many new (native) plants and animal species. The project will not only develop sustainable new nature, but also increase the environmental awareness of the local residents and many other visitors, due largely to the accessibility of the area and the publicity in various media.



Category:

Biodiversity



Aggregate Industries Ltd
Blackhill quarry

Aggregate Industries have been restoring Blackhill Quarry for the benefit of nature conservation in partnership with the RSPB for 25 years. The quarry is surrounded by internationally designated heathland habitats and the ambition has always been to restore the quarry area to a similar quality. Heathland restoration has been through sparing use of indigenous soils and allowing natural regeneration. Swaleing has also been used as part of the heathland management. Guided tours on tractor and trailer are held every summer as part of East Devon Heath Week to show the restoration that has been done and is ongoing.

Category:

Biodiversity



Hanson UK, Smiths Concrete Ltd

Wood farm and Bubbenhall wood,
Smiths Concrete Bubbenhall quarry

The progressive work (2002-06) and restoration (2004-10) of the Wood Farm site by Hanson UK and Smiths Concrete into a mix of woodland, flower-rich grassland and wetland habitats has created a diverse landscape in a key zone between three of the Ancient Woodlands at the heart of the Princethorpe complex, one of the most important and well-wooded zones within the English West Midlands. The restored land has created vital habitat linkages between two Ancient Semi-Natural Woodlands, and significantly improved the habitat connectivity and "permeability" compared to the original arable land use.



Category:

Biodiversity



Tarmac Trading Ltd
Heathland restoration
at Sandy Heath Quarry

The extraction and restoration of Sandy Heath Quarry has been carefully designed to reinstate the heathland and acid grassland that historically used to cover extensive areas of the Greensland Ridge Nature Improvement Area. Different restoration techniques have been implemented since the restoration works started in the 1990s. This flexible approach to delivering the restoration scheme has been critical to ensuring that certain features developed through the quarrying have been retained and included into the restoration landform. The habitat created hosts an important population of birds, invertebrates and lichens.

**AGGREGATES,
AN ESSENTIAL
PART OF
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LIFE**

Need to know more about sand, quarries, biodiversity,
water management, healthy work environment,
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The European [EU28+EFTA, 2017] aggregates production is

3 billion
tonnes/year,
representing an annual turnover
of an estimated €15 billion.

Aggregates demand is
just on

6 
tonnes per capita
per year.



The aggregates sector is by far
the largest
amongst the non-energy
extractive industries
in numbers of sites, companies,
numbers employed and tonnages
produced.

The aggregates industry comprises



15,000
companies (mostly SMEs),

producing at



26,000
sites (quarries and pits)

with just over



200,000
people employed
(including contractors).

Key facts about the Aggregates Industry

- ▲ Aggregates are granular material used in construction comprising sand, gravel, crushed rock, marine aggregates, manufactured and recycled aggregates.
- ▲ Aggregates are used to build and maintain your houses, roads, railways, bridges, hospitals, schools and other essential infrastructures you use in your everyday life.
- ▲ Every different application requires a different technical specification of aggregates, some with extremely demanding requirements in respect of shape, durability, abrasion, frost resistance and other factors.

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