We are FCC
Nº 24

Digital Innovation Lab is born,

an FCC Group space for sharing knowledge and developing ideas




you_

SUMMARY

Group FCC

Business

Diversity

People

Innovation

Sustainability

Wellness

The Place

Communities

Happy Holidays



The Spirit of Christmas Future



Christmas greeting from the Chairwoman and the CEO

Dear colleagues,

We would like to express to those of you who make the FCC Group possible, once again, our deep gratitude for the effort and commitment you have shown during 2022.

We wish you a Merry Christmas and may the New Year be full of health, joy and new and successful projects for all of you.

A big hug, which we also extend to your families.

Esther Alcocer Koplowitz & Pablo Colio Abril

Esther Alcocer Koplowitz attends the Princess of Asturias Awards

The chairwoman of the FCC Group, Esther Alcocer Koplowitz, attended the Princess of Asturias Awards ceremony at the Campoamor Theatre in Oviedo last Friday, 28 October, on behalf of the FCC Group, a trustee of the Princess of Asturias Foundation.

The Royal Family presided over the solemn ceremony, and it was the Princess of Asturias who presented the awards to the most important personalities in all fields of knowledge.

The Foundation organises these awards every year with the aim of recognising the scientific, technical, cultural, social and human work carried out by individuals, institutions, groups of people or institutions in the international arena.

The Awards Ceremony is considered one of the most important cultural events on the international agenda. Throughout their history, these awards have received numerous recognitions, such as the extraordinary declaration made by UNESCO in 2004 for their exceptional contribution to the cultural heritage of Humanity.



Esther Alcocer Koplowitz at the delivery of the Princess of Asturias Awards.

Princess of Asturias Foundation

The Princess of Asturias Foundation announces the Princess of Asturias Awards, which are presented annually at a solemn academic ceremony held in Oviedo, capital of the Principality of Asturias.

The objectives of the Foundation are to contribute to the exaltation and promotion of all scientific, cultural and humanistic values that are universal heritage and to consolidate the links between the Principality of Asturias and the title traditionally held by the heirs to the Crown of Spain.

Loyalty Awards 2022



Recognition of the work of employees who have been with the FCC Group for 40 years and 25 years.

Congratulations!

IV Edition

Children's Drawing Competition

September 23rd - November 2nd

BACK to the FUTURE

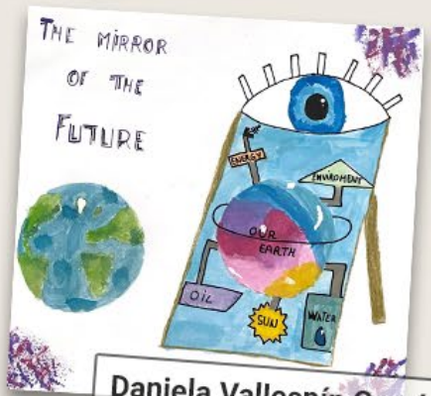
WINNERS



Valeria García Fernández
4 years, category 1



Sofía Valencia Tomillo
6 years, category 2



Daniela Vallespín García
11 years, category 3



Raymond Guillén Ruíz
Instagram

4 EDUCACIÓN DE CALIDAD

13 ACCIÓN POR EL CLIMA

Seven women from the FCC Group successfully complete the **Management Development programme for women with High Potential**

FCC and the School of Industrial Organisation (EOI) have held the closing ceremony of the Management Development Programme - Women with High Potential (PDMAP) 19th and 20th editions, promoted by the Ministry of Health, Social Services and Equality through the Secretary of State for Social Services and Equality. This programme is a decisive factor for the professional projection of women.

Participating in these editions were Lidia Campesino Chumillas, from FCC Medio Ambiente; Esther Carrión Blazquez and Natalia Martínez Angulo, from FCC Construcción; Laura Rodríguez Mejías, from FCC Servicios Centrales; Catalina Borrás Cañellas, Piedad San Martin Sánchez and Verónica Gómez Bejarano, all three from Aqualia; and Esperanza García García, from Matinsa; all of them have successfully completed this training programme, which aims to facilitate the acquisition and development of management competencies and skills to be able to take on greater management responsibilities in the future from a multidisciplinary perspective.

The course has been developed by combining face-to-face meetings with on-line training periods. Throughout the course, subjects such as finance, management skills for the management of efficient and motivated teams, operational management in order to learn about the functional areas of the business organisation, management in companies to discover the keys to innovation and identify business opportunities, as well as an individual coaching process have been addressed.





Presentation of the Best Practice in Globalisation of Travel Policies award to the FCC Group.

FCC awarded at the **Travel & MICE 2022 Awards**

Once again this year, the Iberian Business Travel Association (IBTA) brought together the sector's leading professionals and companies at a new edition of the Business Tourism Gala, where the Business Travel & MICE 2022 Awards were presented.

These are the most important and recognised awards in the sector in our country. The aim of these awards is to recognise the best practices of the different players in the sector's value chain in areas such as Sustainability, Travel Policy, Digital Transformation, Diversity and Inclusion Policies, Control and Management, etc.

In this edition, the FCC Group was awarded the Best Practice in Globalisation of Travel Policies. Juan Manuel Blanco, FCC's Global Travel Manager, also received the award for Travel Manager of the Year 2022.



> The service improvements aim to increase the quality of life of Zaragoza's citizens and visitors through environmental, social and economic commitments.

View of the city of Zaragoza.

Zaragoza

once again places its trust in FCC Medio Ambiente to provide its **urban services**

Zaragoza City Council, city for which FCC Medio Ambiente has been providing services uninterruptedly since 1941, has renewed its trust in the company with the award of the city's urban waste collection and street cleansing contract. The order book value amounts to more than €615 million for the next 10 years.

This new contract is committed to the environmental sustainability of the services, so the implementation will involve the renewal of almost the whole fleet, with more than 270 vehicles, whether electric or powered by compressed natural gas, with the aim of improving air quality and reducing noise pollution. It is expected to exceed 56.96% of waste sorting and recycling in one year and 60.6% by 2030, thus complying with the European Agenda for Sustainability. The improvements to the service seek to increase the quality of life of the citizens of Zaragoza and its visitors, through environmental, social and economic commitments as fundamental pillars, aimed at positioning the Aragonese capital as a European benchmark in this type of services. The investment represents more than €61 million and boasts a total workforce of around 1,130 workers for both services.

100% electric equipment

To serve the city's 675,000 inhabitants and collect more than 252,000 tonnes of annual waste, the service will have nearly 100 vehicles. The 100% electric collection equipment will be exclusively designed for FCC Medio Ambiente with specially adapted chassis with right and left side-loading collection systems, such as the new 21m3 compacting collection vehicle. The selective collection of organic waste will be implemented throughout the city and the frequency of service will be increased, as well as the containerisation ratios, extending the services to commercial activities and the hospitality and catering industry. Regarding the number of containers, priority will be given to selective collection to



Zaragoza street cleaning service vehicle.

the detriment of those destined for the residual fraction, and complete container islands will be distributed in such a way that all households have one within 100 metres. It should be noted that the accessibility of the services will be improved with the incorporation of a new side-loading collection vehicle of reduced dimensions, a design that will incorporate the new more versatile and specialised equipment, adapted to the needs of the citizens.

A more optimal service

As for the cleansing service, it will boast over 200 vehicles covering 955 kilometres of streets. There will be a substantial increase in the mechanisation and motorisation of activities, as well as works on Sunday and public holidays, resulting in greater performance and a more modern and optimal service. The cleaning of containers and its locations, excrements and other critical places in the city will be intensified and 70% of litter bins will be replaced. The selective recovery of water by degree of quality will be promoted, so that it can be reused for other purposes such as irrigation or street cleansing. There will be a new, flexible and modular organisation of the service, structured by technical areas and municipal and neighbourhood councils, implementing a dual sweeping model. Finally, six neighbourhood recycling centres will be installed, and the household recycling centre service will be operational also on Sundays.

Technological advances

In terms of technological innovation, the service will be monitored through a digital control platform and smart routes will be managed with the subsequent savings. There will be a tracking centre and all resources will be provided with on-board electronic equipment, localisation and weighing systems. Sensors will also be installed in containers and vehicles. Likewise, a citizen app for mobile phones and innovation projects with artificial intelligence will be developed in collaboration with the University of Zaragoza. Lastly, new profiles for the services will be created on social media.

> “The contract portfolio amounts to more than 615 million euros for the next 10 years.”

Focusing on sustainability

This new contract is also committed to the social sustainability of the services, as it promotes inclusion and equality in access to employment for people from vulnerable groups or in situations of prolonged unemployment. In this way, it will collaborate with integration companies such as RECIKLA, for the collection of used oil, and the El Tranvía Foundation, for the door-to-door collection of household goods and paper/cardboard.

> “The service will be monitored through a digital control platform and will manage intelligent routes with the consequent savings.”

Sustainable city

The Aragonese city aims to focus all its policies on sustainability. In fact, Zaragoza is one of the 100 cities chosen by the European Union to be “zero emissions” by 2030, with the intention of leading the process of becoming a climate neutral city.

It was also one of the first cities to sign up to the Green City Agreement that supports the implementation of the European Green Pact and the UN’s Sustainable Development Goals.

Zaragoza is the eighth largest municipality in Spain and 27% of its territory is protected as a Natura 2000 Network (European ecological network of biodiversity conservation areas).

On the other hand, the Aragonese capital was proclaimed an example of gastronomic excellence on 15 June, and for a period of twelve months after receiving the title of Ibero-American Capital of Sustainable Gastronomy. For one year numerous actions and initiatives related to Aragonese gastronomy will be aimed at mitigating the carbon footprint of companies in the hospitality sector. Thanks to the collaboration with the hotel and catering industry and the treatment of the waste it generates, Zaragoza exceeds 50% of recycled waste, a target set by the EU for 2030.



Solid urban waste collection truck in the city of Zaragoza.

Spanish water management for more than **eight million Saudis of Saudis**



Representatives of Aqualia, Tawzea and HAACO signing the contract for the management, operation and maintenance of water in Saudi Arabia.

The Spanish–Saudi consortium, led by Aqualia, will be responsible for water supply and sanitation services in a region equivalent to three quarters of Spain, for a period of seven years.

The consortium led by Aqualia (51%), which also includes the Saudi service companies Tawzea (39%) and HAACO (10%), has signed the contract for the management, operation and maintenance (MOM) of the integrated water cycle in the Saudi regions of Qassim, Hail, Al-Jouf and Northern Border in the north of the kingdom.

Four regions in northern Arabia

Aqualia is the official leader of the consortium as established in the terms and conditions of the public tender. The so-called North Cluster, which brings together these four regions of northern Arabia and has a population of more than three million people in an area equivalent to three quarters of Spain (380,000 km2), is one of the six clusters, territories of Arabia into which the state-owned National Water Company (NWC), the client of the contract, has divided the country to move towards improved management of water supply and sanitation services.

Of these six divisions, Aqualia has already been awarded two of them with a total of eight million inhabitants served, adding the North Cluster to the management of the South Cluster, in the provinces of Asir, Baha, Najran and Jazan, whose contract was signed at the beginning of the year.

Saudi privatisation programme

Within the Saudi Vision 2030 plan, which seeks the modernisation and sustainable development of the country, the Ministry of Environment, Water and Agriculture (MEWA) has developed a National Water Strategy (NWS 2030) that addresses the main challenges of the sector through policy and institutional reform initiatives. As a result of this process, the National Water Company (NWC) was authorised to implement an integrated private sector attraction programme to improve service efficiency.

The programme aims to restructure the national water system into six regional distribution entities (clusters). Specialised private companies are involved in the development of this process. This institutional and legal reform in the country aims to achieve the financial sustainability of the water sector, and will be developed in two phases:

Phase 1: Implementation of seven-year Management, Operation and Maintenance (MOM) contracts in each cluster.

Phase 2: Implementation of long-term concession contracts in each cluster.

The six administrative/geographical areas identified with the clusters are as follows: East Cluster (Eastern region of the country); West Cluster (Mecca region); North Cluster (Qassim, Hail, Al-Jouf and Northern Border regions); North West Cluster (Medina and Tabuk regions); Central Cluster (Central Area of the country); and South Cluster (Asir, Baha, Najran and Jazan regions), the management of which Aqualia was awarded earlier this year and is currently already in the implementation phase.

Between the two contracts awarded to Aqualia, South Cluster and North Cluster, the company will manage water for more than eight million people and a surface area larger than that of Spain.

The water cycle management of the other four administrative divisions has been awarded to consortiums led by the French companies Suez, Saur and Veolia.

> “North Cluster, comprising the regions of Qassim, Hail, Al-Jouf and Northern Border”

The ultimate aim of this programme of the government of the Kingdom of Saudi Arabia is to encourage private sector participation in the management of water and sanitation in the country and to improve efficiency across the board.

This North Cluster contract, executed by a multi-disciplinary team of experts from the consortium companies, will optimise the management and pursue the social, environmental and economic sustainability of the entire water cycle in the vast northern region of Saudi Arabia.

> “South Cluster, comprising the regions of Asir, Baha, Najran and Jazan”

The contract includes the management of, among other assets, 92 water treatment plants, 657 reservoirs, 664 catchment wells, 150 drinking water pumping stations, 67 tanker filling stations, 18,000 kilometres of main pipelines, 14 wastewater treatment plants and 7,000 kilometres of sewerage network.

Aqualia, a benchmark in water management in **Saudi Arabia**



Desalination plant and distribution systems in the Jizan Industrial Area (Saudi Arabia).

Aqualia has been working in the Middle East since 2011. In Riyadh, the capital of Saudi Arabia, for five years it developed a major project to optimise the city's water supply network, enabling it to offer a better service to more than 3 million inhabitants.

In the same country, Aqualia is also currently managing the affected services of the capital's metro works (also implemented by the FCC Group) and has operated and maintained the Hadda and Arana wastewater treatment plants in the city of Mecca.

At the beginning of 2020, Aqualia acquired 51% of the company HAAISCO (Haji Abdullah Alireza Integrated Services Ltd.) from the Saudi Arabian group Haji Abdullah Alireza, which is responsible for the operation and maintenance of several desalination plants in Arabia. Among them is the King Abdulaziz International Airport plant in Jeddah, a concession of the company Qatarat, of which Aqualia also acquired 51% in the same operation.

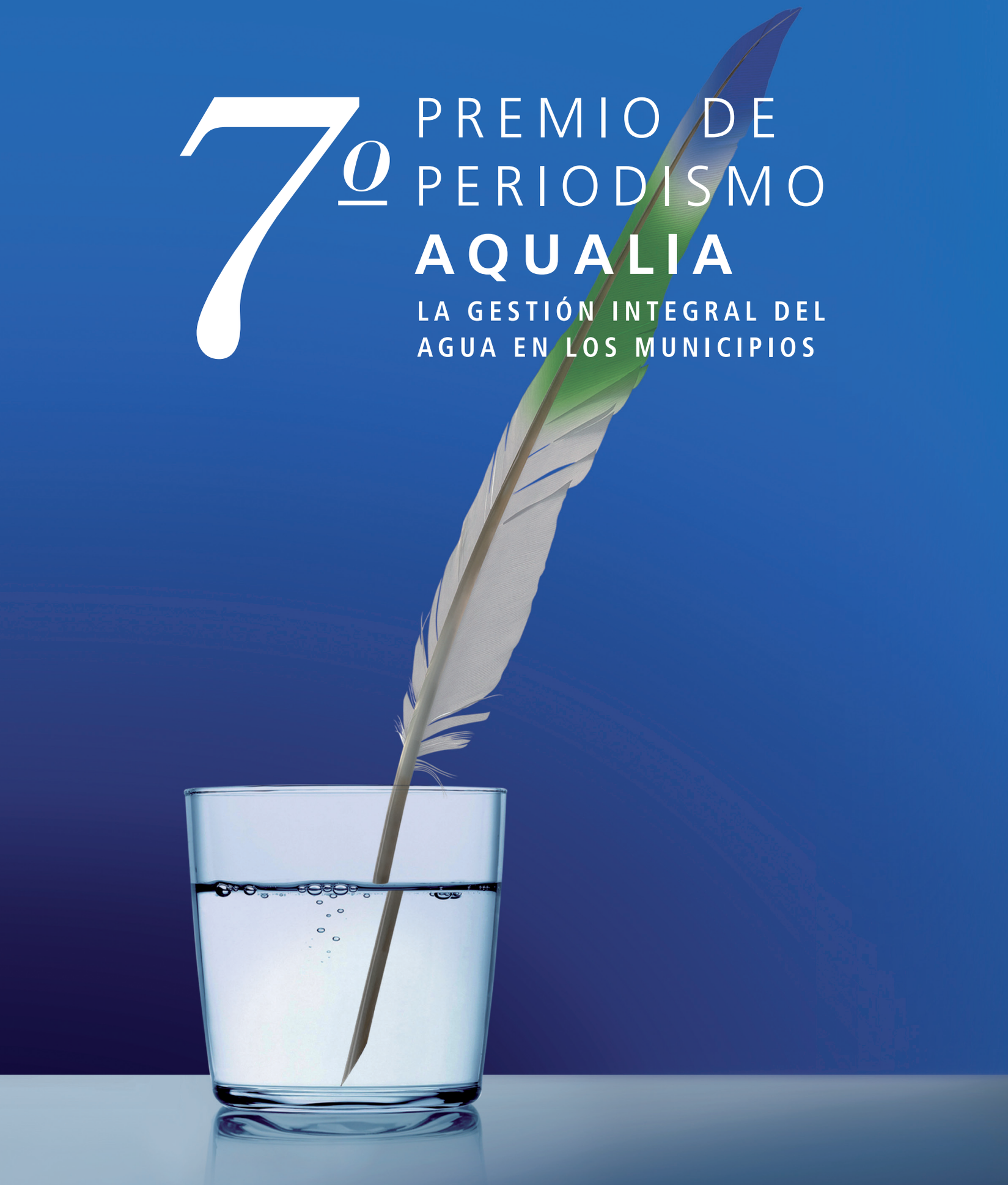
These acquisitions marked the beginning of an alliance that in a short period of time produced significant successes such as the award in 2021 in Jizán (southwest of the Kingdom) of the water supply to one of the main industrial complexes in Saudi Arabia.

Aqualia also operates and maintains, through HAAISCO, two other desalination plants in Saudi Arabia.

aqualia

7º PREMIO DE PERIODISMO AQUALIA

LA GESTIÓN INTEGRAL DEL AGUA EN LOS MUNICIPIOS



Toronto

FCC Canada consortium wins the Scarborough Subway Extension Stations, Rail and Systems Contract



FCC Canada, part of the Scarborough Transit Connect (STC) consortium, has been selected by Metrolinx and Infrastructure Ontario as a partner for the development phase of the Scarborough Subway Extension stations, track and systems (SRS) contract. The contract is being delivered using a PDB model.

The project extends the existing TTC Line 2 (Bloor-Danforth) underground in Toronto approximately 7.8 kilometres from the existing Kennedy Station.

STC is a 50/50 Aecon and FCC Canada consortium. The agreement has an initial 18-month collaborative development phase, which will define the scope, costs and final schedule for the project. Upon successful completion of the development phase, an implementation phase will commence.

The project will transform and extend the TTC Line 2 underground service nearly five miles from Kennedy Station northeast to McCowan Road and Sheppard Avenue. The project includes three new stations at Lawrence Avenue East and McCowan Road, Scarborough Centre and Sheppard Avenue East and McCowan Road, with connections to Line 5, Eglinton Crosstown LRT, GO bus and train services, TTC bus service and Durham Region Transit. The extension will replace the existing Line 3, improving the customer experience by providing fast and seamless access to the city and helping to reduce journey times.



Skyline of the city of Toronto (Canada).



More than **2,600 kilometres of railway** lines built

The FCC Group's construction division has built more than 2,600 kilometres of railways, both infrastructure and superstructure, in all modes of this means of transport, from high-speed rail to the metro and the new trams, including the maintenance and renovation of existing lines and the construction of new stations as terminals in major cities.

FCC has also built more than 900 kilometres of high-speed rail, more than 326 kilometres of metro and 65 kilometres of tramway. It has 13,000 kilometres of railway track maintenance experience.



The sustainable production project at the Alcalá de Guadaira cement plant in Seville, listed by the European Commission as one of the **best available techniques for producing cement.**



The Alcalá de Guadaira (Seville) cement plant.

> The energy recovery project pursued by the factory is recognised by the European Commission as one of the best available techniques for the manufacture of cement.

This project, which is widespread throughout Europe for the production of cement with a low carbon footprint, will reduce energy dependence on oil and greenhouse gas emissions by improving air quality in the surrounding area.

Cementos Portland Valderrivas' awareness project for its factory in Alcalá de Guadaíra (Seville) is a circular economy model widely used in Europe that advances industrial symbiosis and the reduction of greenhouse gas emissions by using different types of non-hazardous waste as fuel. The project is currently in the process of receiving the Integrated Environmental Authorisation from the Andalusian Regional Government.

The future fuel to be used by Alcalá will use non-hazardous waste, which will first receive specific treatment by authorised managers and, due to its high calorific value and its characteristics in terms of composition and granulometry, will make it possible to partially replace the current fuel, petroleum coke, used in the factory with these more sustainable fuels.

Sustainable project

It is therefore a sustainable project for the production of cement with a lower carbon footprint, in line with the European Union's energy transition commitments, as it will reduce dependence on fossil fuels and reduce the amount of waste destined for landfill.

The recovery project pursued by the factory is recognised by the European Commission as one of the best available techniques for cement manufacturing, which specifically collaborates with circular economy policies to achieve climate neutrality by 2030.

The energy recovery of waste in cement plants is a technique regulated under strict environmental regulations, and backed by a multitude of studies carried out by prestigious organisations that independently guarantee that it is a safe process for workers and the environment.

> The energy recovery of waste in cement plants is a technique regulated under strict environmental regulations.



Cementos Portland Valderrivas

The Alcalá de Guadaíra factory belongs to the Cementos Portland Valderrivas Group, a multinational leader in cement production, which uses the best available techniques in its production processes to achieve a high level of environmental protection.

FCC Group commemorates the **International Day for the Elimination of Violence against Women** at its corporate headquarters in Las Tablas, Madrid



FCC supports the International Day for the Elimination of Violence against Women, which is celebrated every year on 25 November. The Group is making an appeal within the company to recall its principles and report on its commitment and vision: zero tolerance of gender violence and promotion of the social and professional integration of women who are victims of this scourge.

In the fight against gender violence, FCC held a commemorative ceremony on 23 November last at its corporate headquarters in Las Tablas, Madrid. The event was opened by Noemí Boza, a journalist and expert in business communication, who highlighted in her speech the work of the 016 Service and the FCC Group in support of victims of gender violence.

Afterwards, Ramona Fernández Kelly, corporate director of Human Resources at the FCC Group, gave a speech in which she said: "We have always taken a stand, without a doubt, with the victims of gender violence". Also present at the event was Macarena Gamir Linares, deputy director-general of Inter-institutional Coordination on Gender Violence, who said that "the sad figures remind us of the work we still have to do".

After the presentation of the 016 Service by Adriana Acevedo López, head of the 016 Service, a video of 016 was shown and she gave a brief explanation of how it works.

Later, a round table discussion was held with the participation of Adriana Acevedo López and Susana Gálvez Martín, general coordinator of the 016 Service. Once the round table was over and after a Q&A session, Pedro Carranza Andresen, CEO of the Cementos Portland Valderrivas Group, presented the award to the 016 Service in recognition of its outstanding work.

FCC against gender violence

With this event, we at FCC are calling for equality between men and women and rejecting all acts of violence. It is necessary to work to ensure that education and awareness-raising against harassment and gender violence in all its forms reaches the entire population, regardless of their level of education. It is a joint task in which the sum of our efforts will mark the path to success.

Our commitments include disseminating and promoting awareness-raising and denunciation campaigns, as we have been doing in our Group every year, and at international level, as well as joining forces with institutions, organisations and associations to get their campaigns and information to as many people as possible. It is a joint task in which the sum of our efforts will mark the path to success.

MINITRY OF EQUALITY VIDEO #ENTONCESQUIEN

016 SERVICE VIDEO

FCC CAMPAIGN VIDEO

Award for the 016 Service for its work and attention to women victims of gender-based violence



From left to right, Pedro Carranza, CEO of Cementos Portland Valderrivas Group; Macarena Gamir, deputy director general of Inter-institutional Coordination on Gender Violence; and Susana Gálvez and Adriana Acevedo, general coordinator and head of the 016 Service, respectively.

For the fifth year running, the FCC Group wanted to recognise and reward the work carried out by organisations and associations that fight against gender violence and care for women who are victims of this social scourge. In this fifth edition, the award went to the 016 Service, provided by the Government Delegation against Gender Violence, for legal advice and immediate psychosocial care by specialised personnel for all forms of violence against women.

The award ceremony took place at FCC's corporate headquarters in Las Tablas, Madrid, as part of the week's events to commemorate the International Day for the Elimination of Violence against Women.

On behalf of the Government Delegation against Gender Violence, the award was collected by Macarena Gamir, Deputy Director General for Inter-institutional Coordination on Gender Violence, from Pedro Carranza, CEO of the Cementos Portland Valderrivas Group, a company that forms part of the FCC Group.

Commemorative event at the FCC Group's corporate headquarters in **Barcelona**



Family photo at the corporate headquarters in Barcelona at the end of the event.

In the fight against gender violence, a commemorative event was also held at the corporate headquarters in Balmes (Barcelona). The event was opened by Sonia Serrano Batanero, legal labour adviser in the FCC Group's Corporate HR area, who stressed the importance of everyone "doing their bit to put an end to gender violence".

On the administration's side, Iolanda Ametller Gallart, head of the Girona Coordination Unit against Violence against Women, took part in the conference. During her speech, she expressed her desire for all women to be protected. After her speech, the video of the Government Delegation's campaign against Gender Violence #EntoncesQuién? was screened.

At the end of the event, Adriana Acevedo López, head of the 016 Service, explained what this service consists of and then screened a video to raise awareness of 016.

FCC contra la violencia de género

Si eres víctima de violencia de género:



A través de la **App FCC360**, entra en you_diversity y desde el espacio de Igualdad, puedes acceder a tu Plan de Igualdad y consultar el capítulo dedicado a víctimas de violencia de género.



La **Dirección de RR.HH.** de cada área de negocio cuenta con personas que te podrán asesorar acerca de lo que la empresa pone a tu alcance. No dudes en contactar.



FCC y sus áreas de negocio disponen de **convenios** con el Ministerio de Igualdad para promover la sensibilización y concienciación social contra la violencia de género.

Si crees que puedes estar sufriendo violencia de género o conoces a alguien que esté pasando por ello, llama al:

#016 PARA TODAS

Este teléfono proporciona información, asesoramiento jurídico y atención psicológica a todas las formas de violencia contra las mujeres:

- Disponible **24 horas al día y 365 días al año** en 53 idiomas.
- Anónimo, confidencial y gratuito.
- Accesible para personas con discapacidad.



"At your side" FCC Medio Ambiente's commitment

FCC Medio Ambiente has also joined the International Day for the Elimination of Gender Violence with the campaign "AT YOUR SIDE", to show its support for all victims of any kind of violence through different events at its branches.

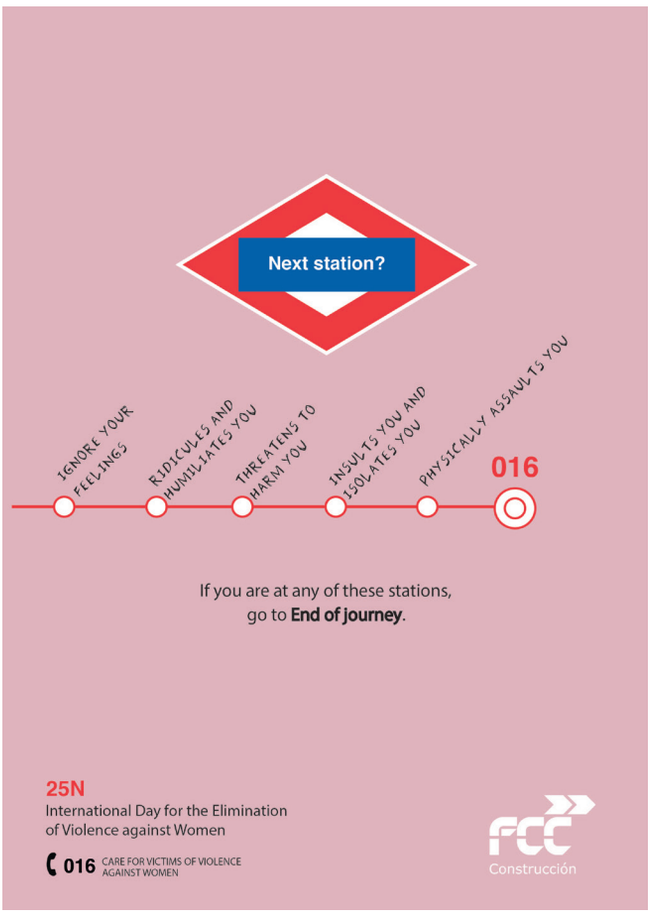







Next station? FCC Construcción's digital campaign against gender-based violence

The FCC Group's Construction area is joining the fight against gender violence and is launching its "Next Station?" campaign, which simulates a metro line with stops at different types of mistreatments and with the final destination of 016, under the claim "If you find yourself at any of these stations, go to the End of Journey".



mueven mundos

y frenan la violencia de género



Suma tu afecto subiendo tu foto a:

aqualiacontigo.com

5 IGUALDAD DE GÉNERO

ODS alineado
con esta iniciativa

aqualia

Aqualia, **a pioneer in the water sector** in applying **equality and diversity plans**



From left to right, Carmen Fernández-Vivanco, Head of Corporate Alliances and William Gil D'avolio, Director of FELGTBI+, together with Carmen Rodríguez, Director of People and Culture, and Mª Ángeles Polo, Head of Training, Development and Diversity at Aqualia.

Aqualia has signed an agreement with the Federación Estatal de Lesbianas, Gais, Trans, Bisexuales, Intersexuales y más (FELGTBI+) by virtue of which it joins the "Companies for Diversity" (EMIDIS) programme, a tool that the Federation makes available to companies to guide them in managing affective-sexual, family and gender diversity in their workplaces. Carmen Rodríguez, Aqualia's Director of People and Culture, together with Uge Sangil and William Gil D'Avolio, president and executive of FELGTBI+, formalised the agreement.

The EMIDIS programme is aligned with the United Nations Principles of Conduct, as a result of which, in October 2019, FELGTBI+ launched, together with the United Nations (UN) and with the collaboration of the Directorate General of the United Nations and Human Rights of the Ministry of Foreign Affairs and Cooperation, the 50/50 challenge to companies based in Spain to ensure that, by 2030, at least one hundred companies have guaranteed real equality for their LGTBI+ staff.

By virtue of the agreement reached, Aqualia will maintain its commitment to raising awareness of the principles of equal opportunities and respect for diversity and will continue to make progress in building a diverse workforce, made up of diverse profiles regardless of gender, sexual orientation, race, nationality, ethnicity, religion, beliefs, age, disability, or any other personal or social circumstance.

A real commitment to **equality and diversity**

Aqualia is a pioneer in the water management sector in the application of equality and diversity plans. This positioning has earned it, among others, the “Equality in the company” seal from the Ministry of Equality, which is only awarded to companies that are truly committed and which Aqualia renewed last year until 2023.

It has also been a full member of the Global Compact since 2020, and has a strong commitment to defending the identity, dignity and equality of people, both inside and outside the company. Through this strategic line, it contributes to the major global challenges in labour matters, such as training, employability, equality, diversity, social inclusion and human rights.

Diversity in Aqualia is materialised, among other things, in its adherence to the Diversity Charter, a European charter of principles signed by companies and organisations in Spain to make visible their commitment to diversity and inclusion in the workplace.

In addition, the company maintains its EFR (Family Responsible Company) certificate. This certificate has a direct and positive influence on the quality of employment, personal and professional development, equal opportunities and support for the families of the employees who make up the workforce.

For Aqualia, the first company in the sector to be certified by AENOR in the achievement of the SDGs, water is fundamental for development and can be a driver of change to promote a fairer and more egalitarian society, the main challenge of the Sustainable Development Goals.



Megaplas signs its first Equality Plan

Megaplas has signed its First Equality Plan, thus committing itself to consolidating a culture of equality that promotes the elimination of stereotypes in the sector in which it operates; promoting gender equality in recruitment, as well as in the development of professional careers, integrating it in all actions that involve the management of people.

It also highlights the commitment of the social part in the search for alternatives and measures that enable the continuous evolution and improvement of effective equality of opportunities between women and men.

With the signing of this 1st Equality Plan, Megaplas is aware that favouring an egalitarian work environment and the creation of inclusive business models where equality and the plurality of professionals prevail, carrying out actions and programmes to promote equality and labour integration, not only contributes to the well-being of people, but also makes aspects such as creativity and productivity more evident within the organisation.

FCC Construcción **renews its commitment to the Diversity Charter**

FCC Construcción has renewed its commitment to the Diversity Charter for the period 2022 - 2024, thus contributing to the fulfilment of the Charter's objectives in a practical way. It is a commitment to promote an inclusive working environment.

The principles covered by the Diversity Charter are in line with the company's Equality and Diversity Policy, which establishes the integration of diversity as a central part of all its activities.

FCC Construcción has a vocation to carry out actions and programmes to promote equality, diversity and integration in the workplace in a proactive way to contribute to the well-being of the people who form part of the workforce and to reinforce its links with the communities to which it provides its activity. All this in favour of the right of all people, regardless of their age, origin, religion, sexual orientation, race, culture, disability or gender, to have the same opportunities in terms of access, permanence and promotion at work, harmonising family and professional life. At the same time, it allows people's quality of life and work to be enhanced.

The Diversity Charter is an initiative of the European Commission's Justice Directorate for the development of its anti-discrimination policies. The Diversity Foundation, promoted by the Alares Foundation, is the exclusive provider of this seal in Spain, which responds to a voluntary code of commitment to support and promulgate the principles of inclusion of diversity and non-discrimination in the workplace.



International Day of **Persons with Disabilities**

3rd December

The FCC Group is joining in the celebrations for the International Day of Persons with Disabilities, which this year is being commemorated under the slogan “Transformative solutions for inclusive development: the role of innovation to promote an accessible and equitable world”. The inclusion of disability is an essential condition for the respect of human rights, sustainable development, peace and security.

FCC promotes actions and projects to foster inclusion and equality through employment and by collaborating with specialised organisations that advise on recruitment and employment support for people with disabilities.

The Group maintains and reinforces its commitment to becoming an increasingly diverse and socially responsible company.

- More than 1,500 people with disABILITY in our teams.
- Purchases and services with Special Employment Centres.
- Education and entrepreneurship programmes.
- Accessibility and adaptation of our facilities with the aim of eliminating or reducing barriers.
- Creation of a diversity meeting point on the corporate You diversity website.

INTERVIEW

COMPLEJO MEDIOAMBIENTAL LA CAMPIÑA

Amparo Pérez Graullera, head of La Campiña, one of the most innovative and avant-garde recycling complexes in Europe



She leads a team made up of a large number of women

At the head of the La Campiña Environmental Recycling Complex, one of the most innovative and avant-garde recycling complexes in Europe, is Amparo Pérez Graullera, chemist, Master in Engineering and Environmental Management by EOI, Industrial Safety Technician and Executive MBA by ESIC.

The facility is located in the municipality of Loeches, in the east of the Community of Madrid. It is spread over 60 hectares of land and serves the more than 735,000 inhabitants of the 31 municipalities that make up the Mancomunidad del Este. Its implementation will prevent the annual emission of 90,000 tonnes of CO_2 per year and give a definitive boost to the Circular Economy model in the Community of Madrid, as well as meeting the demanding recycling and landfill diversion targets of the European Union.

What has your professional career at FCC been like?

My first working relationship in the FCC company was through FCC Ámbito in La Vall d'Uixó (Valencia), a Group company specialising in the integrated management of industrial waste. After two and a half years, I was promoted to take over the Commercial Management of FCC Ámbito's Central-East Central Office from Madrid, where we managed final hazardous waste treatment facilities, hazardous waste transfer centres and logistics bases for integrated waste management. We began to work in other European countries to import waste to the Group's final treatment plants in Portugal. At the same time, we consolidated a national network of major accounts in order to become our clients' outsourcing service. In the last seven years, before taking charge of the Operations Management of the Ecoparque de la Mancomunidad del Este, S.A. (Ecomesa), I held the position of Sales Manager for Marepa at national level. In its origins, it was dedicated to the specific management of paper-cardboard and in its evolution, we expanded its portfolio to the provision of services based on the integral management of all types of waste, achieving private contracts of great relevance, in which, in addition, we incorporated the management of our own staff integrated in the client's facilities performing specific services, such as the operation and maintenance of wastewater treatment plants and documentary defence of the Zero Waste audits of our certified clients. This relationship of more than 20 years through the companies of the FCC Group has been a determining factor in my professional growth.



Amparo leads a work team made up of a significant number of women, which generates a change in the environment of a work sector where women have been a minority presence.

What are the main new features of a treatment plant like La Campiña?

The high degree of mechanisation of the plant, the automatic evaluations of the quality of the recovered waste and the centralisation and monitoring of all the processes. In short, the operating model itself, as it is a plant oriented towards sustainability, recovering a high percentage of by-products and recycling others. It also reuses all the treated leachate in processes that require water supply, consumes green energy thanks to the installation of photovoltaic panels and the entire complex is fully deodorised, avoiding any impact on the natural and social environment.

What is the current position of the plant compared to other recycling plants in Europe?

It is undoubtedly one of the most technologically advanced and best equipped in Europe, which will help us to achieve the highest standards of waste treatment and thus a high recovery rate.

What does it mean for you to work in one of the most innovative recycling complexes in Europe?

It is a great responsibility to be in charge of an international benchmark plant, with enormous visibility, and where I also lead a team made up of a significant number of women, so it is an opportunity to demonstrate FCC's commitment to equality plans, generating a change in the environ-

ment of a work sector where women have been in the minority.

What value would you say you bring to the complex with your current position at the treatment plant?

We bring value as a team, and for my part, I have the mission and the honour of leading it, to ensure that with the complementarity of all of us who form it, we bring the best professional version of each one of us.



Carmen Blanes Romera, production manager.

What are the professional profiles at the Loeches plant? Which of these positions are occupied by women?

The professional profiles of the plant are widely distributed, ranging from basic secondary education with extensive experience and specialisation in certain positions of control or operation of large mechanical equipment, through higher vocational training for managerial positions to various engineering and higher degrees for technical managers, of which almost a third are already held by women.

A final thought on the evolution of the presence of women: has the presence of women in specialised and managerial positions increased?

If, for example, 50% of production managers are women, as well as in technical staff, and in pre-treatment plant control positions, the percentage of women already exceeds 50%.

Are we on the right track for the professional development of women in plants of this type?

Absolutely, as we have reflected with the objective data cited above, and as an example we have the Ecomesa plant.

What are the characteristics of the staff in your company: different ages, different generations, different nationalities/cultures?

Although we have ages within the whole range, between 25 and 60 years, the average age is around 47 years, coexisting in harmony with different cultures such as Spanish, Latin American and other European countries such as Ukrainians, Romanians and more that we will integrate.

Environmental commitment is one of the sustainability objectives of all companies. The achievement of these objectives also implies the commitment of the staff. Is the staff aware of this commitment? How do you work on the transmission of these values and the involvement of the staff in these commitments?

Yes, they are fully aware. All the staff who come to work with us receive initial training to welcome them to the plant in which they are taught, in addition to all the accident prevention rules for each job, the environmental commitment of both the FCC Group and our plant. In addition, different awareness campaigns are carried out throughout the year by the managers, which are reinforced by those launched by FCC's central services.

Have you encountered any obstacles over the years?

Fortunately, during my career at FCC, I have had to face many professional challenges, those that have arisen, those that I have pursued and those that we have embarked on thanks to the high level of demand from our clients. I would like to take this opportunity to thank the support of those managers in my company, both direct and indirect, who have helped me to meet each challenge. And especially in this new one, to the technical management of the Treatment Department of FCC Medio Ambiente, whose guidelines in the management of our facilities always allow us to meet our objectives and, most importantly, to continue to grow.

Commitment

In just one year of operation, the company has achieved ISO 14.001, 50.001, 9.001 and 45.001 certifications, which is quite an achievement given the implementation of all the work procedures that have had to be integrated into its activity.

First integrated environmental recycling complex built in the Community of Madrid

The facilities of this centre have been designed to manage five different treatment lines: residual fraction, packaging, commercial, bulky and vegetable waste, with an initial nominal processing capacity of 270,000 tonnes per year. The complex incorporates the latest technology in waste recovery, such as the use of automated lines and more than 25 optical separators and robots with artificial vision to replace manual triage. This makes it the most innovative and cutting-edge waste recovery facility in Europe. It is also the first integrated environmental recycling complex to be built in the Madrid region and the pioneer in fully complying with the Autonomous Community Waste Management Plan.



The facility will prevent the annual emission of 90,000 tonnes of CO_2 per year, give a definitive boost to the Circular Economy model in the Community of Madrid and meet the demanding recycling and landfill diversion targets of the European Union.

Visitors' **walkway**



The plant has a visitors' walkway around the perimeter through which the activity carried out in the complex can be seen.

"We are visited by national institutions, citizens who, with their interest, see how well their taxes are being spent, and technical specialists from all over the world," Amparo comments. One of the most exciting visits," continues the head of the environmental complex, "are the ones we receive from groups of students. If you are lucky enough to come across them at some point on their tour, you can see on their faces an expression of interest, amazement and, above all, awareness. It should not be forgotten that, until a few years ago, only the most curious people knew what happened after putting rubbish in the bin in the street. The fact that schools and universities include these visits in their educational plans means that very young children and young people can come and observe the importance of the correct segregation of waste at source, which they can do at home. In addition, they can see for themselves all the by-products and secondary raw materials that we obtain from the production processes we carry out. I am convinced that these contacts between young people and plants like ours will undoubtedly be, in the very near future, the most effective and powerful tool for making this world a better planet".



INTERVIEW

Alejandro Maslovskyy

Invoice Management Centre of the Construction Area

Alex is a 20- year-old young man who is currently studying an intermediate level module in administrative management. He may appear to be introverted, distant, ..., but he is quite the opposite, as behind him there is a cheerful young man, eager to communicate, to work, to help, ... His passion is music and, specifically, he plays the cello in an orchestra, and thanks to this, he has been able to get to know other Spanish and European cities. Alex's days, with or without rehearsals, are different in his daily life.

Faced with the difficulty of finding a company where he could do his internship, a few months ago the Adecco Foundation contacted FCC to see if it was possible to do it at the Group. Alex is currently working at the Invoice Management Centre in the Construction Area.

A young man with autism spectrum disorder (ASD) has as many talents as anyone else and all he needs is to have things explained to him calmly and in a friendly way. Alex feels like one of us and his professional and human contribution is incredible.





What is Alex like?

Alex is happy, good people, shy at first but then he expresses himself. He is also talented in music, I like music!

What is your day-to-day life like?

Like any other young person, when I'm free I usually go for a walk or play video games, but when I have rehearsal with the orchestra it's different.

What are your hobbies?

My hobbies include music and video games. I play on the console and on my mobile phone, and sometimes I mix, so to speak, the two hobbies. That is to say, I play video games with my music buddies on the trips I take with them.

What instrument do you play?

I've been playing the cello for 5 and a half years.

Are there many of you?

More or less, about 30 people at the most.

Where have you travelled with the orchestra?

I have travelled to Paris, Barcelona, Strasbourg, Valencia and Lisbon. The place I liked the most outside Spain was Paris.

What would you like to be in the future?

I'm not sure yet, but at first, I wanted to be a musician.

What differences do you see between going to school and going to work?

The difference, I find, is in the pace and in the work, that is to say, in the work there is practice and, in the institute, there is more theory than practice. I like the practical part better.

What did you think when you were told you were going to work at FCC?

I had doubts about what I would do, because I knew FCC as a construction company, but then when I came here, I realised that FCC is much more than just construction, because it has more sectors.

What do you think about working in a company like FCC?

I think it's good because I see it, in my opinion, as an opportunity to start a working life.

What was your first day at work like?

Before that first day, I met a certain Gustavo García, (he jokes) to get to know each other and for him to tell me a bit about the job. Then, on the first day, I met him at the door and we went up together. They gave me an FCC card, told me where I was going to sit and explained a lot of things to me, such as filing and invoices because I'm working in the Invoice Management Centre in the Construction area.

Do you feel like you're coming to work as a member of FCC?

Yes, because I have adapted and, knowing that we all have different qualities and characteristics, we can all do the same job.

What do you like most when you are at FCC?

Working and my breakfast time.

How is your relationship with your colleagues?

I get on very well with them. They help me when I see that I need help with something in particular.

Once you finish your internship at FCC, what would you like to do?

I would like to continue studying. I still have one subject left, but after I get it out of the way, I'd like to either work or continue studying, that is, I'd like to do a higher degree in what I'm studying at the moment, which is Administrative Management.
I would never stay still. I would regret it if I stayed still.

Where would you like to work in the future?

I don't know yet, but I would like to work in a place where I am understood, happy and at ease with my colleagues.

FCC in the **2022 Companies Race**



Last 18 December, the FCC Group took part in the 2022 edition of the Companies' Race, held in Madrid with more than 14,000 participants.

Our participation was made up of more than 50 runners in a total of 15 teams of between two and four members in the different categories (6.5 km and 10 km), with a great result in terms of the number of participants and also in terms of times. Regarding the time rankings, four of our teams were in the top 5 out of more than 180 teams in each category, one of them on the podium with a third place.

These teams were as follows:

Distance 6.5 kilometres:

Team FCC - 5 (male category) composed of: José Manuel Cruz López, Oscar Fontanet-Bel Fabregat, Antonio Montes Torres and José Manuel Janices Carpintero. Result: 4th position

Team FCC - 2 (mixed category) composed of: Juan Pablo Posse Obregón and Sandra Fernández Freixeda. Result: 3rd Position

Team FCC - D (mixed category) composed of: Verónica Mendo Arribas, Bernardo Delgado Olay and Javier Martínez González. Result: 5th Position

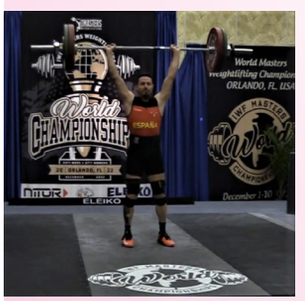
Distance 10 kilometres:

Dream Team (male category) composed of: Antonio A. Martínez Díaz, Enrique Cosano Molleja, David A. Peralta Gallego and Ernesto Izquierdo Moreta. Result: 5th position

Congratulations to everyone for participating and representing FCC in this initiative that promotes healthy habits and the importance of team spirit.

Alexandre Caballé, head of the FCC Environment Resource Centre, received civilian recognition from the Sant Boi de Llobregat Town Council (Barcelona) for his help to the community by saving the life of a local citizen.





José Antonio Hernández, a worker on FCC Medio Ambiente's RBU Almería contract, was the fourth best lifter in the world in the M45 category at the World Masters Weightlifting Championship, held in Orlando (USA).



Wales UK

The 14 best photos already have winners

#FCCCOprojects 2022

Projects in the **construction area** of the FCC Group



Line 2 and 4 Lima Metro. Peru

FCC Construcción



Kevin Muñoz
Guillermo Gaviria Echeverri Tunnel Colombia.



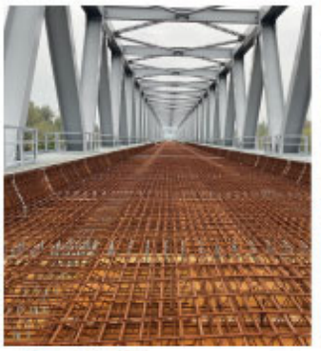
Francisco Fernández
ST ICE ORIOL. Substation in Caceres Spain.



Rodrigo Guerrero
"Puente Industrial". Chile.



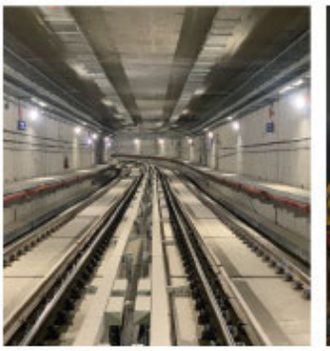
Andreea Tecșa
Pan-European Railway Corridor IV Lot 3 Gurasada -Simeria. Romania.



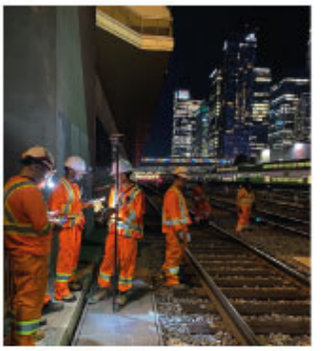
Pedro A. Córdoba
Pan-European Rail Corridor Project IV. Section 2B Barzava – Ilteu . Romania.



María Méndez
New Puertollano Hospital. Ciudad Real Spain.



Sakthiraj Gunasekaran
Line 6 Riyadh Metro. Saudi Arabia.



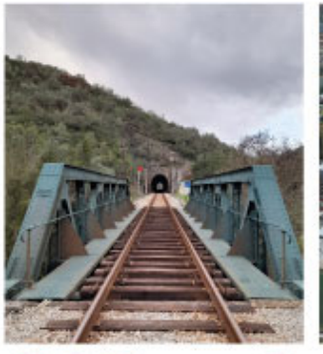
Jose Rafael Camacho
Expansion Metrolinx rail network in Toronto. Union Station. Canada.



Javier González
Santiago Bernabeu Stadium Remodeling Spain.



Prefabricados Delta
Prefabricados Delta Factory, Puente Genil Cordoba. Spain.

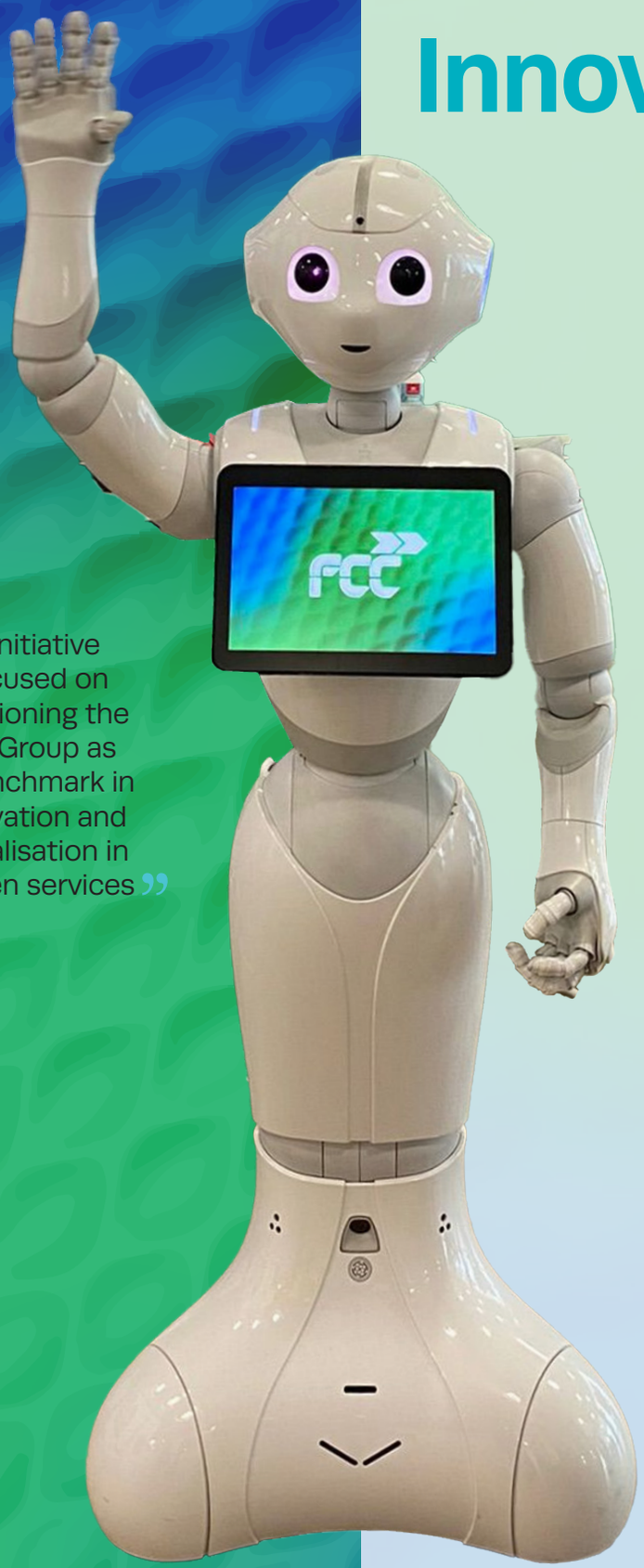


António Dâmaso
Modernization of the Mira Sintra- Meleças - Torres Vedras railway section. West Line Portugal.



Daniela González
Access to La Segrera station. Sagrera - Trinidad section. Barcelona. Spain.

FCC holds an innovation day driven by its **Digital Innovation Lab**



> “The initiative is focused on positioning the FCC Group as a benchmark in innovation and digitalisation in citizen services”

Continuing with its commitment to innovation as a strength and as one of the levers of value creation for the FCC Group, the company’s Information Systems and Technologies Division held an Innovation Day driven by its Digital Innovation Lab (DI_Lab).

DI_Lab is an ideas lab focused on improving the efficiency of company processes through digital transformation, adding value to businesses and improving agility in identifying and understanding current and future challenges in the digital world.

The main objective of this initiative is to generate knowledge synergies to drive innovation, technology and digitalisation and implement solutions that are desirable, feasible and viable to facilitate the adoption of innovative digital processes that solve challenges and, consequently, improve the company’s products and services; and also to promote an innovation ecosystem open to institutional actors and external collaborators.

In recent years digitalisation has reached all areas, and the increase in these technologies and their complexity makes it necessary to better manage the opportunities for innovation that this new world offers us.

“It is essential to work in alignment with the different business areas and, in particular, to collaborate with the R&D teams that have also been developing key initiatives to promote digital transformation in the respective areas of

> The Digital Innovation Lab is an innovation catalyst and incubator whose mission is to design impactful digital solutions at the service of the business

The conference in pictures















the FCC Group," said Manel Miranda, IT Director of Innovation and Business Relations at the FCC Group.

This conference focused on showcasing initiatives based on virtual/augmented reality, process automation, industry 4.0, artificial intelligence and metaverse. In addition, it has allowed to show proofs of concept or important prototypes of the different business areas and the DI_Lab that will allow to validate the possible solutions to a specific challenge in a fast way and detecting failures much earlier than with traditional methodologies ("fail fast").

At present, pilot tests have already been carried out within the FCC Group for the use of the metaverse in communication activities, event development, virtual meetings, etc. In the near future, the company expects to be able to extend these pilots to more areas of the company's work.

> The launch of the Digital Innovation Lab will help identify challenges and facilitate the implementation of innovative digital solutions that are desirable, feasible and viable

Digital Innovation Lab, a space for knowledge exchange and idea development



The FCC Group's Information Systems and Technologies Division has launched a new initiative called the Digital Innovation Lab. This ideas lab will focus on improving the efficiency of the company's processes through digital transformation, adding value to the business and improving agility in identifying and understanding the current and future challenges of the digital world.

The main objective pursued by this initiative is to generate innovation that adds value to the FCC Group. Solutions that are desirable, feasible and viable will be implemented to facilitate the adoption of innovative digital processes that solve challenges and, consequently, improve the company's products and services.

At the head of this department is Manel Miranda, as head of Innovation and Business Relations, and a great team made up of Eva Schlemermeyer, Mercedes Hurtados, Alicia Sánchez and Yago Hernández, professionals with extensive experience and training who will be dedicated to the research, development and innovation of digital transformation projects.

Manel Miranda

IT Innovation and Business and Business Relationship Manager of the FCC Group

What is an innovation laboratory and what is its mission?

When we set up the DI_Lab, our main aim was to have a work area where ideas can be developed, knowledge can be shared and solutions can be sought for the different challenges that FCC faces, fundamentally in everything related to digital transformation.

We have all seen that in recent years digitalisation is reaching all areas, and the increase in these technologies, and their complexity, makes it necessary to better manage the opportunities for innovation that this new world offers us.

Our mission is to be a catalyst and incubator of innovation within the Group. As part of DSTI, our expertise is mainly focused on digital transformation, but always with a focus on adding value to the business.

What values does the Digital Innovation Lab bring to the FCC Group?

We believe that DI_Lab should contribute to creating a culture in the group that is more receptive to change and innovation, but always, as we said before, focused on offering a clear benefit to the business.

That is why it is essential to work in alignment with the different business areas and, in particular, to collaborate with the R&D teams that have also been developing key initiatives in driving digital transformation in the respective areas.

Eva Schlemermeyer

What do you want to promote?

We want to foster an innovation ecosystem that is also open to institutional actors and external partners.

How does DI_Lab manage the innovation process?

We can consider that innovation is sometimes the art of exploring uncertainty in order to capture ideas that contribute to solving the challenges posed. For this reason, it is difficult to measure the progress of innovation using only traditional metrics.

However, it is possible and necessary to have a consistent process to manage innovation processes. In this sense, DI_Lab has developed a specific framework, based on the methodologies globally used in this type of environment, such as Design Thinking, Lean Startup and Agile, customising it to suit the Group's requirements.

In short, the main objective of this framework is to speed up the design and implementation of concept tests or important prototypes that allow us to validate possible solutions to a specific challenge quickly and detect failures much earlier than with traditional methodologies ("fail fast").

Mercedes Hurtado

What long-term benefits can this innovation space have on business?

DI_Lab's vocation is to facilitate innovation and, specifically, we would like to mention four key aspects in which we can contribute significantly:

Collaborate in the dissemination of the culture of innovation.

Helping the innovation that is already being carried out in the different businesses to incorporate tools such as the Innovation Framework that we have defined.

Add the digital component to sectoral innovation initiatives so that we are able to build solutions that combine business and technology components.

Collaborate in generating open innovation initiatives with a digital component in which we build solutions together with other innovation actors such as universities, public institutions, start-ups, innovation drivers and investors.

Which stakeholders is DI_Lab aimed at?

Our mission is to act for the benefit of the entire FCC Group and, as we said before, we want to work with the rest of the actors involved in innovation efforts, particularly with the R&D teams of the different areas.

In the different initiatives we have carried out so far, we have collaborated with technical and engineering departments, IT, human resources, administration, communication, etc. and always within a framework of joint work, to ensure alignment of objectives.

Alicia Sánchez

¿En qué áreas de actuación se ha centrado DI_Lab?

What areas of action has DI_Lab focused on?

There is a wide variety of emerging technologies, with varying degrees of maturity. Terms that a few years ago sounded very futuristic, such as digital twins or augmented reality, are now technologies that are beginning to demonstrate their value in certain business processes. Keeping up to date with the evolution of these technologies, in order to understand at all times what they can contribute to the Group, is a challenge in itself.

At DI_Lab we have so far focused on initiatives based on virtual/augmented reality, process automation, industry 4.0, artificial intelligence and metaverse.

Taking into account the rise of the Metaverse in the business world, what advantages do you think its use can bring to the company?

The metaverse is a concept with a lot of media coverage at the moment, but it is still a set of technologies in an embryonic state. We believe that the big change will come in the next 4 or 5 years, when the metaverse stops being a set of isolated silos, owned by different technology companies, and becomes an integrated virtual environment in which resources and experiences can be shared in a consistent way.

Therefore, at this time it is not possible to define a detailed strategy as a group with respect to the metaverse, but we do consider it essential to take a more tactical approach, starting to explore the capabilities already available and to analyse the prospects for evolution in the short and medium term.

In this regard, we have already developed pilot tests for the use of the metaverse in communication activities, event development, virtual meetings, etc. In the near future, we hope to extend these pilots to more areas of the Group's work.

Yago Hernández

How can the DI_Lab speed up the launching of projects and stimulate the culture of innovation within the FCC Group?

From the DI_Lab we can help any work group in identifying challenges and in the search for innovation solutions that respond to them. In addition, we promote the development of prototypes and we can collaborate in the management of innovation projects throughout their life cycle.

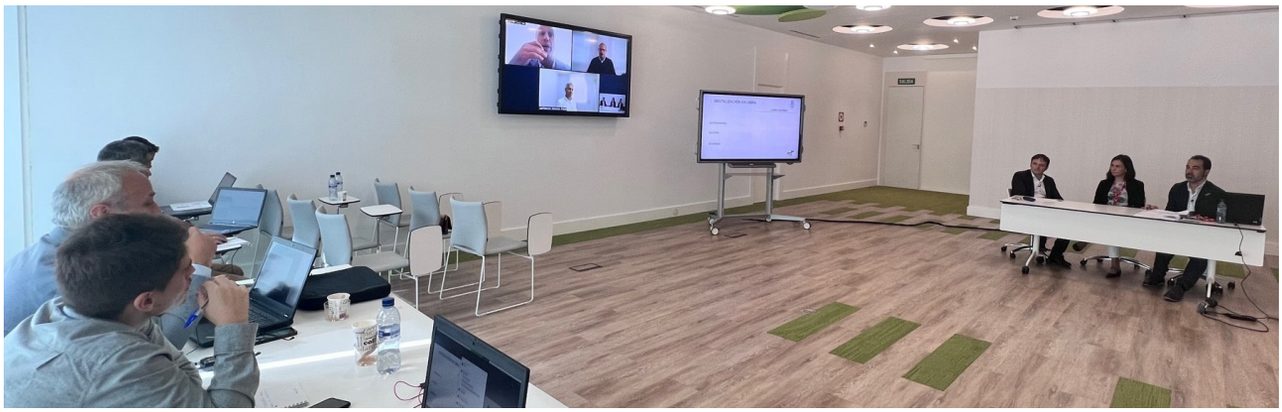
Specifically, we offer challenge identification workshops that are available to any team at FCC. Using Design Thinking methodology, we work together on the process that goes from the challenge to the idea and from there to the solution.

Do all companies need initiatives like this to keep up with technological innovation?

Without a doubt! It will be increasingly critical to properly manage innovation processes to ensure the future viability of the company, and it is essential to promote a cultural change in the group to understand that we must all be part of this need for continuous innovation. From DI_Lab we intend to contribute decisively to this change.

If we analyse the situation in companies in our environment, we can see that all of them have similar initiatives, although their specific names vary in each case ("Innovation Hub", innovation centres, etc.). We have not yet reached the level of maturity of some of our competitors in this type of activity, so it will be very important to have the involvement of all the actors involved in innovation-related activities.

3rd BIM Digitalisation Conference



Last October, FCC Construcción launched the BIM 2022 digitalisation conference. The event showcased the various advances related to BIM technology and Digital Construction that have been made in the company's different business areas.

The sessions were held both in person and by videoconference, and on this occasion external speakers were brought in to help explain the situation and state of digitalisation in the construction sector.

The topics covered during these three days were information management, digitisation in tenders and digitisation in works. In each session, a round table was held and case studies were presented.

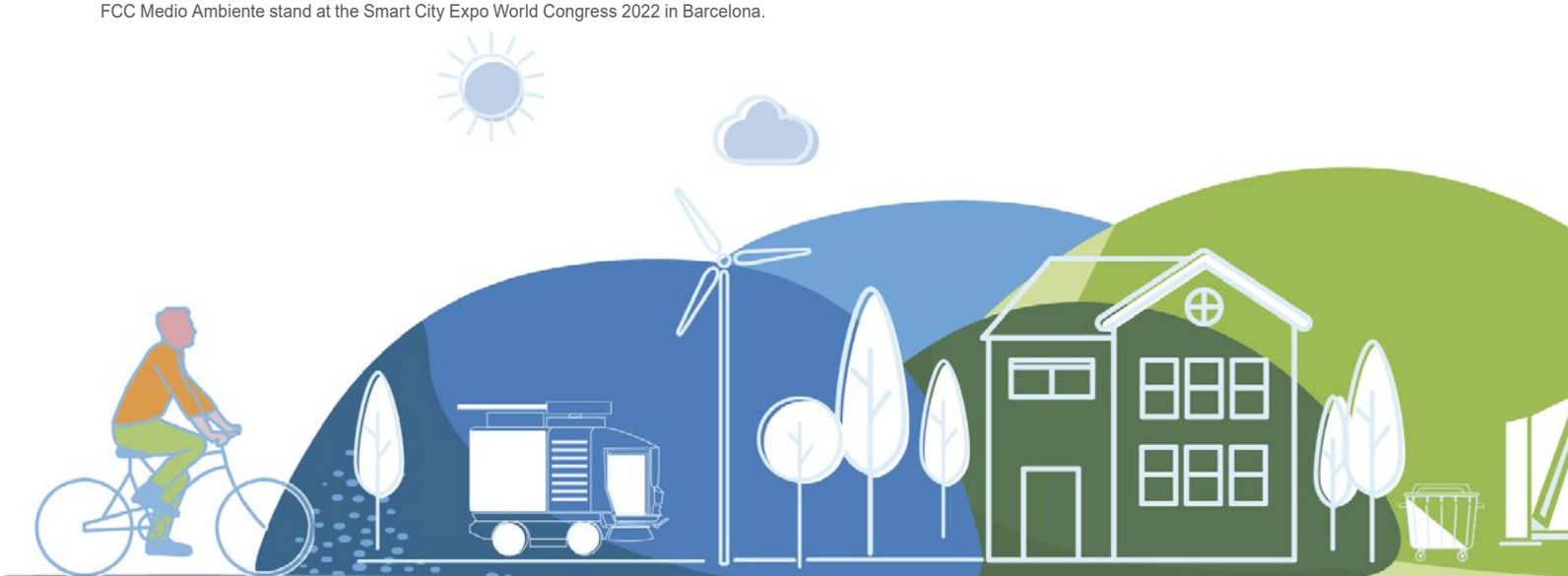
The Cementos Portland Valderrivas Group **celebrates Safety Week**

The Cementos Portland Valderrivas Group celebrated Safety Week at its production plants. In this edition, the company organised more than thirty activities, including workshops and talks. A total of 350 people took part in the different training sessions, helping the Group to grow in terms of Preventive Culture.

WATCH VIDEO



FCC Medio Ambiente stand at the Smart City Expo World Congress 2022 in Barcelona.



FCC Medio Ambiente at the **2022 Smart City Expo World Congress:** At the Frontline of the Climate Action

Since 2011, FCC Environment has been a Global Partner of Barcelona's Smart City Expo World Congress, which this year celebrated its eleventh edition from 15th to 17th November.

This global event is the benchmark for smart cities and the forum to inform the company's stakeholders of its actions and projects to promote the development of sustainable communities.

FCC Environment's participation in this edition, under the slogan "At the Frontline of the Climate Action", focused on the development of its 2050 Sustainability Strategy and on showcasing its progress and results in environmental, technological and social sustainability aspects, around which the company has focused both the design and image of its booth.

FCC Environment's installation was a great success in terms of turnout, thanks to the collaboration of numerous professionals and specialists and the great interest shown by those attending the event. To be pointed out the exhibition of a watering-down trolley from 1916 that served in Ciutat Vella. The company was visited by authorities and different delegations from countries all over the world with representatives of the Smart Cities industry, interested in its experience and know-how.

FCC Environment has once again shown its commitment to the city of Barcelona and the sustainable development of smart cities.

WATCH VIDEO – NEWS



Sandra García and **Paula Casado**, from FCC Medio Ambiente's Castile–León branch office



Paula Casado, technician in the Human Resources Department of the Castilla y León Medio Ambiente Office, during her speech on social commitment as a management style.



Presentation by Sandra García, Senior Disability Support Technician at the Castilla y León Delegation, who spoke on "FCC Equal: Normalising functional diversity beyond integration".

Commitment to social sustainability

"Sustainability in the social sphere was one of the fundamental pillars of FCC Medio Ambiente's participation in this year's Smart City Expo. Sandra García, employment support technician at FCC Equal CEE, and Paula Casado, a technician in the Human Resources Department, both from the Castilla y León branch office, gave presentations on the company's actions to promote the real inclusion of members of minority groups and groups at risk of exclusion through a human resources policy that puts people at the centre.

FCC Medio Ambiente is deepening its commitment to society through the integration of people from groups at risk of social exclusion and maintains a policy that advocates equal opportunities for men and women at all levels and family reconciliation, among other aspects".

Construcción

Sustainability Report

2021
2022



The El Porcal lagoons, owned by Cementos Portland Valderrivas, a new home for twenty specimens of teals

The General Directorate of Biodiversity and Natural Resources, which depends on the Regional Ministry of the Environment of the Community of Madrid, has successfully introduced twenty specimens of marbled teal into the El Porcal lagoons, owned by Cementos Portland Valderrivas and located in the municipality of Rivas Vaciamadrid.

With the release of these 20 specimens of marbled teal, the aim is to preserve this species and increase regional biodiversity. This action is part of the LIFE project, which collaborates with local and national biodiversity and ecosystems.

Species in critical situation

The teal is the most endangered duck in Europe and is one of the seven critically endangered animal species in Spain. The farm's wetland is home to this species so that it can reproduce and try to reverse its endangered status.

Until the mid-20th century, the marbled teal was abundant in Mediterranean coastal wetlands, especially in Doñana. However, in recent decades, the decline of the marbled teal has increased significantly. At present, this species is in danger of extinction and forms part of the List of Wild Species under Special Protection Regime



> This initiative aims to preserve this species and increase regional biodiversity



The teal is the most endangered duck in Europe and is one of the seven animal species in a critical situation in Spain.

Young artists see their **winning designs on Chorley Council's** waste collection lorries (UK)



Olivia with her winning artwork installed on a Council collection lorry.

The winners of Chorley Council's climate change drawing competition have seen their designs come to life on the sides of waste collection lorries.

Earlier this year, Chorley Council, together with waste and recycling partner FCC Environment, invited young artists to get creative and take part in the scheme.

Participants were asked to create their design based on one of two themes related to climate change:

- The little things we can do to help tackle climate change.
- Your commitment to climate action.

From all the entries received, a shortlist was drawn up and put to a public vote.

The two winning entries, designed by 9 year old Jessie and 10 year old Olivia, were installed on the sides of Chorley Council's collection vehicles, and on 19 November the winners were able to visit the vehicle depot, where the lorries are kept, to view their designs.

Competition winner Olivia, whose design included a cute and colourful statement about the need to stop climate change, said: "I thought it was really cool to be able to see a



Jessie next to the Chorley Borough Council collection lorry where her artwork was displayed.

drawing of mine on the side of a lorry. I hope it will convince people to take action and help stop climate change.

Jessie, 9 years old, who designed her artwork based on the things we can all do to save the planet, said: “Both designs look great and I’m really proud to do my bit to help the planet by sharing the message on the side of a recycling truck. I hope many people will see it and be reminded of the ways they can do their bit to save our planet.”

In April 2019 Chorley Borough Council awarded FCC Environment the contract for waste and recycling collection across the borough to minimise the amount of waste going to landfill.



From left to right: Christopher Greenwood, FCC’s Contracts Director, Olivia, the competition winner, and Adrian Lowe, Chorley Council’s Executive Member (Customers, Streetscene and Environment).



Collection trucks with Olivia and Jessie’s winning designs.

FIND OUT MORE ABOUT HOW CHORLEY COUNCIL IS TACKLING CLIMATE CHANGE

The importance of physical activity versus sedentary habits

Regular physical activity is an important protective factor in the prevention and treatment of non-communicable diseases (NCDs) such as cardiovascular disease, type 2 diabetes and several types of cancer. Physical activity is also beneficial for mental health, as it prevents cognitive decline and symptoms of depression and anxiety; it can also help maintain a healthy weight and contributes to overall well-being.

According to data published by the WHO, globally, about 27.5% of adults and 81% of adolescents do not meet physical activity recommendations, and there has been almost no improvement in the last 10 years. There are also striking inequalities: data show that in almost all countries girls and women are less active than boys and men, and that physical activity levels vary greatly between higher and lower economic groups and by country and region.

Four to five million deaths could be prevented each year if all people were more physically active.

Action and investments in policies that promote physical activity and reduce sedentary habits can help achieve the 2030 Sustainable Development Goals (SDGs), in particular: good health and well-being (SDG3), sustainable cities and communities (SDG11), climate action (SDG13) and quality education (SDG4), among others.

The main messages taken from the WHO guidelines are as follows

1 **Physical activity is good for the heart, body and mind**. Regular physical activity can prevent and help manage heart disease, type 2 diabetes and cancer, which cause nearly three-quarters of deaths worldwide. In addition, physical activity can reduce symptoms of depression and anxiety, and improve concentration, learning and general well-being.

2 **Any amount of physical activity is better than none, and the more the better.** To improve health and well-being, the WHO recommends at least 150-300 minutes of moderate aerobic activity per week (or the equivalent in vigorous activity) for all adults, and an average of 60 minutes of moderate aerobic physical activity per day for children and adolescents.

3 **All physical activity counts.** Physical activity can be integrated into work, sports and recreational activities, or travel (walking, cycling or other road transport), as well as daily and household chores.

4 **Muscle strengthening benefits everyone.** Older people (65+) should incorporate physical activities that prioritise balance and coordination, as well as muscle strengthening, to help prevent falls and improve health.

5 **Too much sedentary lifestyle can be unhealthy.** It can increase the risk of heart disease, cancer and type 2 diabetes. Limiting sedentary time and staying physically active is good for your health.

6 **Everyone can benefit from increasing physical activity and reducing sedentary habits**, particularly pregnant and postpartum women and people with chronic conditions or disabilities.

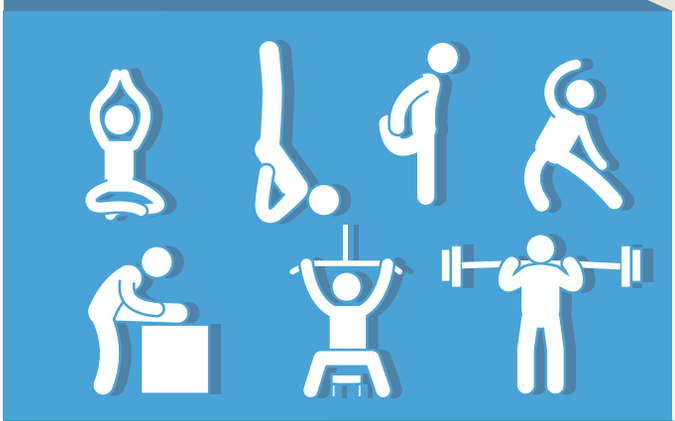
SOCIEDAD ESPAÑOLA DE CARDIOLOGÍA | FUNDACIÓN ESPAÑOLA DEL CORAZÓN

PIRÁMIDE DE LA ACTIVIDAD FÍSICA PARA UNA VIDA MÁS SALUDABLE



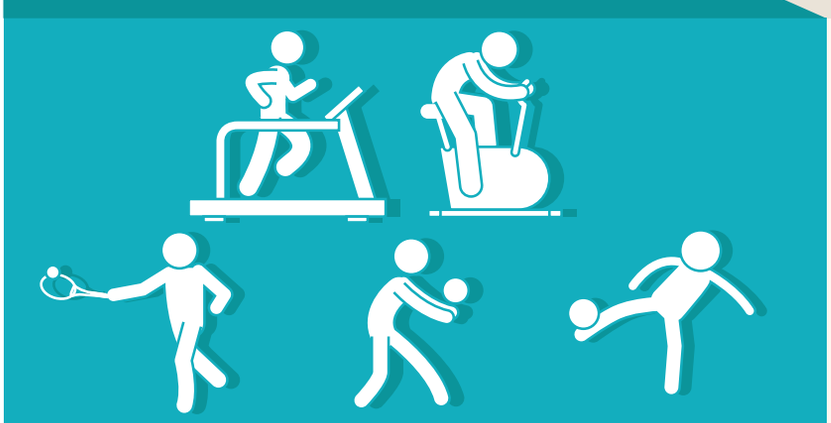
Reducir

- Sedentarismo



2-3 días por semana

- Fortalecimiento muscular
- Flexibilidad - elasticidad



3-5 días por semana

- Actividad cardiovascular
- Actividad deportiva recreativa



Todos los días

- Estilo de vida activo y saludable

© Chema Matia · 2018

* "Controla tu riesgo" es una serie de hojas informativas elaboradas por la Fundación Española del Corazón para el uso de pacientes y profesionales de la salud. Fecha de actualización: Septiembre 2018.

MÁS INFORMACIÓN EN LA WEB:

- **fundaciondelcorazon.com**

Plan Estratégico de Salud y Bienestar 2022-2024





"People caring for people", the strategic slogan of the **Health and Wellbeing area.**

The Strategic Health and Wellbeing Plan 2022–2024 seeks to be the global framework through which to materialise the company's objective of achieving an increasingly healthy working environment and promoting the health of all the people who make up Aqualia.

Through this plan, Aqualia is committed to a global and strategic vision of Health and Safety in order to eliminate and prevent any personal harm derived from work, while promoting and encouraging attitudes, commitment and involvement in the development of healthy habits, both in the workplace and in the personal lives of each and every one of us.

The strategies set out in the Health and Well-being Plan include reducing personal injuries to zero, controlling those risks we consider critical in our activity, achieving well-being at work by improving the physical and emotional health indicators of the workforce, the constant analysis of the data reported in terms of the results obtained, as well as the continuous improvement of internal processes.

Active listening and dialogue with stakeholders are a fundamental dimension of this plan, where communication is established as a tool to generate culture, as well as a transversal strategy at all levels of the organisation in order to improve the company's preventive climate.

In the words of Félix Parra, Aqualia's CEO, "this plan not only allows us to organise ourselves to meet our objectives, but it is also the basis for providing us with the capacity for permanent improvement and for responding to the demands of our greatest asset, our people".

Aqualia Salamanca celebrates 25 years of service to the city



Group photo of the honorees together with the authorities during the ceremony.

Aqualia held a ceremony last November at the Casino de Salamanca to celebrate the 25th anniversary of the company in Salamanca, a day that brought together authorities and senior officials, and which highlighted the great team of professionals that make up Aqualia Salamanca.

The event was attended by the President of the Regional Government of Castilla y León, Alfonso Fernández Mañueco; Carlos García Carbayo, Mayor of Salamanca; and Santiago Lafuente, Director of Aqualia Spain, and other representatives of the company.

The President of the Regional Government of Castilla y León, Alfonso Fernández Mañueco, congratulated the company for guaranteeing the supply of drinking water to all the inhabitants of Salamanca for 25 years, both in terms of quantity and quality, and its subsequent treatment in suitable conditions.

For his part, the mayor of the city, Carlos García Carbayo, expressed his pride in having the best water thanks to the numerous investments that have been made to improve the supply network. The mayor also spoke about the Active Pressure Management (API) system, which

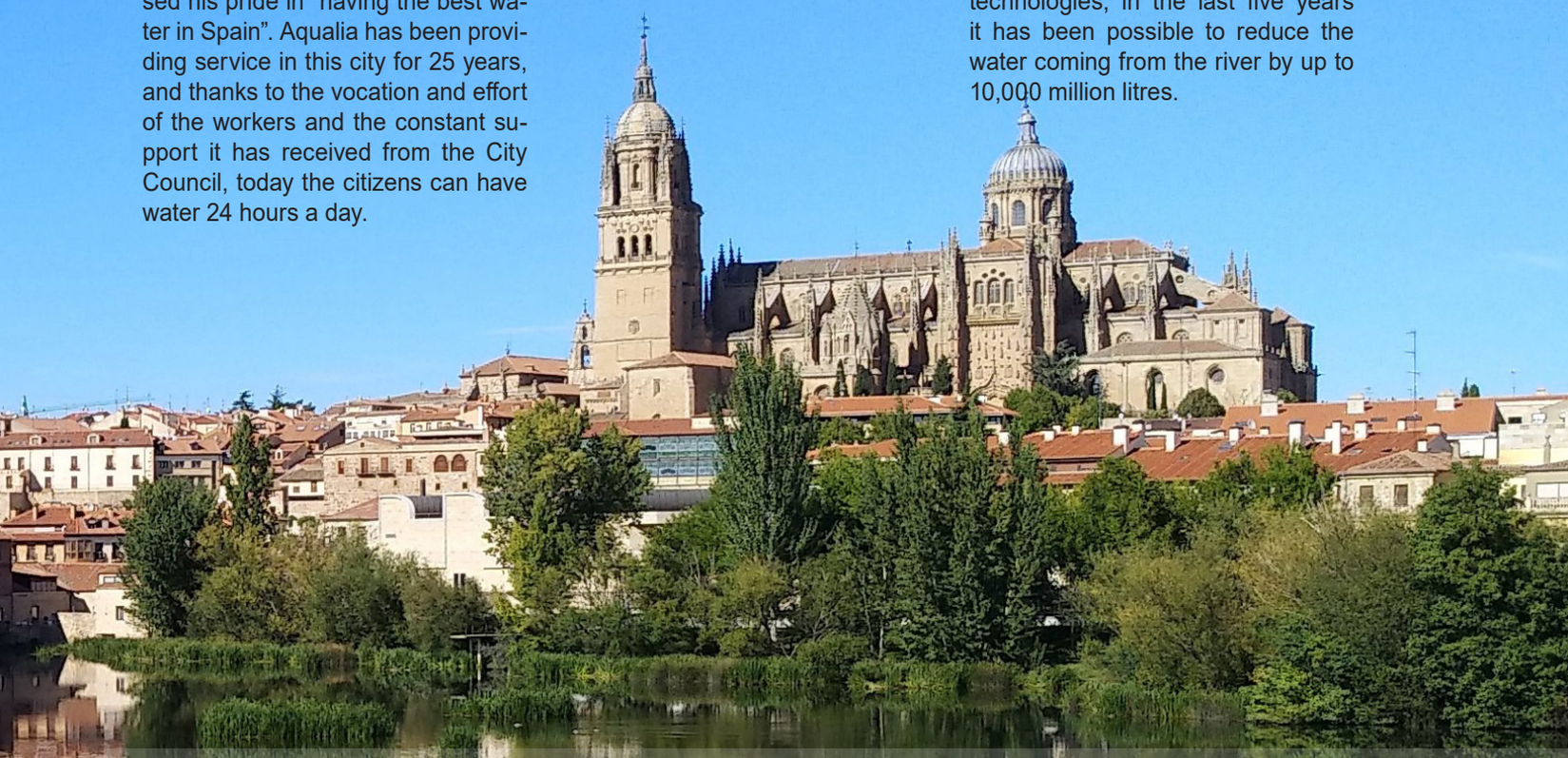
is controlled from the water treatment plant and manages to increase the life of the pipes by up to sixteen years. This intelligent system regulates the pressure in the network, thus reducing breaks and breakdowns.

“The best water in Spain”

Lafuente, during his speech, expressed his pride in “having the best water in Spain”. Aqualia has been providing service in this city for 25 years, and thanks to the vocation and effort of the workers and the constant support it has received from the City Council, today the citizens can have water 24 hours a day.

Salamanca has a population of close to 200,000 inhabitants, and in order to effectively serve the entire city, it has a total of 800 kilometres of supply and sanitation network. According to data provided by Santiago Lafuente, the average water consumption in Salamanca is 125 litres per day. Once the water has been collected, it is sent to the Marín water treatment plant in Salamanca and is then returned to circulation in good condition.

Aqualia’s director wanted to highlight the investments that the company has made in infrastructure over the years, which have also allowed transformations to be made in the service. In addition, thanks to new technologies, in the last five years it has been possible to reduce the water coming from the river by up to 10,000 million litres.



A tribute to the employees



From left to right, Alfonso Fernández Mañueco, President of the Regional Government of Castilla y León; Nunci Romo, from Aqualia Salamanca; Carlos García Carbayo, Mayor of Salamanca; and Santiago Lafuente, Director of Aqualia España.

This was an event in which the 25 members of the Aqualia team in Salamanca, who have completed 25 years in active service, took centre stage.

The event was opened by Nunci Romo, who spoke on behalf of all the employees. She thanked all the workers for their efforts and dedication to the service, “we dedicate these plaques to all of you because it is thanks to you that we are here today. We are a public service and our aim is to meet your needs and we do this with professionalism, empathy and good humour. We treat the public as we would like to be treated ourselves.

Every time you turn on the tap, think that behind it there is a team of people and professionals working side by side to achieve the best service”.

Waste management in Trnava underwent significant innovations

Environmentally acceptable waste management requires new approaches

The area of waste management is a very complex issue that must reflect the current state, development and inevitable trends in this area. FCC Trnava has been handling waste management for the City of Trnava, as well as neighbouring cities, towns, industrial, logistics, business and commercial centres and trade establishments in the region, for almost 19 years. It operates an extensive fleet of trucks and specialised vehicles for different types of waste, a collection and container system, and its own waste sorting and treatment facilities.



Using innovative waste management solutions, it preserves primary resources. Waste for which it is no longer possible to ensure sustainable use is subsequently disposed of in environmentally friendly manner. Environmental responsibility and sustainability are of the company's key values.

FCC started building collection yards in co-operation with the city as early as in 1997

By 2013, Trnava had established 8 collection facilities. Trnava thus became one of the cities with the highest number of collection yards per inhabitant. In accordance with the changing needs of the city's residents, that number was reduced to the current 6. The collection yard on Jána Bottu Street was rebuilt into a successful facility of the Back2Life re-use centre, with the aim of popularizing and supporting circular economy in the city. The collection yard on Sasinková street was decommissioned because of the need to build a roundabout in that location. However, in co-operation with the city, FCC is looking for a suitable location to build a new generation, comprehensive collection yard.

Almost 12,000 items found a new home in the Back2Life centre, about 4.5 tonnes of usable items that would otherwise end up in the trash.

In June 2021, FCC Trnava in co-operation with the City of Trnava opened the gates of a Back2Life(B2L) Re-use centre. Citizens can bring here what they no longer need, and at the same time choose something useful for themselves. The range of products stands out for its variety and low price. The operation supports circular economy in the city, and citizens can also contribute to the protection of the environment through the B2L centre. An item that might have ended up in the landfill will serve someone else. To further improve and make the area of the Back2Life centre more pleasant for customers, FCC Trnava planted a bed of perennials at the front of the centre property. With support of funds from the profit of B2L and with the support of the City of Trnava, the Shared Workshop was established - a space that connects the community, the principles of circular economy, education, and environmental protection. Part of the funds from the re-use centre was also used by the City of Trnava for several green measures, including planting of trees.

Modern semi-underground containers became a reality in Trnava as early as 2017

In the years 2017 to 2019, FCC built, at its own expense, 20 stations for the city, with a total value of €372,485; from 2019 to 06/2022,



FCC Trnava also financed the design work for new stations, in the amount of €42,917; and its costs for the procurement of special vehicles for dumping of semi-underground containers was 440,000 euros. The City of Trnava built 70 stations in total, while further 11 are under construction, with a total value of more than 1.8 million euros. There are currently 95 stations in Trnava (5 stations were built by private companies) with a total of 498 semi-underground containers co-financed by the city, FCC Trnava, and private companies. Planned projects include completion of the Linčianska, Koniarekova, and Podjavorinská housing estates, as well as other locations where the construction of semi-underground containers makes sense.

Collection of kitchen waste began in Trnava in January 2021

The collection of kitchen waste was introduced in the city in accordance with the applicable legislation. Already during 2021, 838.40 t of waste was collected, and for the first half of 2022, 451 t of waste. The introduction of kitchen waste collection received a positive response from citizens.

Garden waste and Christmas trees for compost

In co-operation with the Municipal Services of the City of Trnava, FCC Trnava carries out a mobile collection of tree branches and trimmings from the gardens of family homes twice a year. In addition to the collection of biodegradable Christmas trees at collection yards, FCC also carries out a mobile collection of Christmas trees from housing estates every year at the request of the City. In selected localities of the city, FCC Trnava, in co-operation with Municipal Services, also provides spring and autumn collection of bulky waste.

Compost for the needs of the city as well as for private individuals

Biodegradable waste collection in family homes was successfully introduced in 2017 already. Citizens make full use of the service, and the collected waste is used to produce compost that can be used for the needs of the city, in residents' gardens and in growers' orchards. The operation of a so-called clamp composting plant started already in December 1999. The permitted amount of waste processed per year is 15,000 tonnes, the annual production capacity is 4,000 tonnes of compost, in four cycles.

The city will add a state-of-the-art composting plant

In response to the needs of both the city and its residents, a plan to expand the capacity of the composting plant to a total capacity of 25,000 tonnes of biodegradable waste per year is currently being implemented. The expected total production of compost will be 7,000 tonnes per year. A substantial part of the produced compost will remain on the city territory and be used for its needs - garden improvements, landfill reclamation, etc. Part of the compost will be offered by the city for sale as certified compost to private companies, horticultural wholesalers, and private individuals.

In view of the growing amount of collected biodegradable waste in the collection area, this is a very important and meaningful project. The city implements the expansion of the composting plant from funds. The currently implemented GORE_ COVER composting plant is a fully integrated composting solution for the processing of organic waste. The technology is based on future cost savings, is efficient in both installation and operation, and provides optimized control of high-quality compost production processes and effective control of odours and emissions. This type of composting plant is approved, and proven, in more than 150 composting plants in 20 countries. In Slovakia it is the first one of its kind. GORE Cover meets the most stringent regulatory requirements in the world. Its unique design flexibility allows for processing of various input materials, be it green waste, food waste, source-separated organics, bio solids and the like.

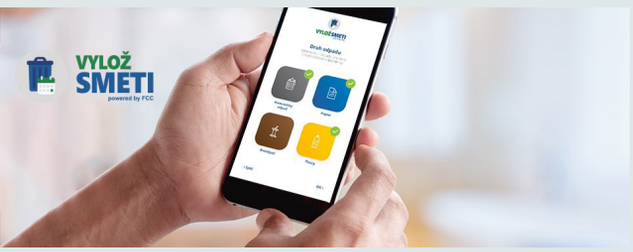


New investment in the operation of mechanical-biological treatment of waste

The development of this technology is in accordance with the legislative directives for waste management in Slovakia. The city is responding to legislative requirements regarding mandatory treatment of waste before landfilling. The Trnava complex

waste management field will include the technology for mechanical-biological treatment (MBT) of mixed municipal waste brought to the landfill; the plant will have a capacity of 59,000 tonnes per year. Trnava anticipates that construction will start in the second half of 2022, and operation should begin in early 2023. The implementation will require an investment of approximately 4.5 million euros.

The MBT line will output several fractions. Energy fractions from the waste treatment process can be subsequently converted into fuel from waste - production of solid alternative fuels (SAF). Within the framework of the MBT operation, it will be possible to produce, annually, 17,000 to 41,000 tonnes of material for SAF production. The implementation of the plan will result in a reduction in the amount of waste deposited in the landfill. According to estimates, by about half of the current amount.



FCC Trnava is digitizing customer communication channels

Through the Odpadonline [Waste on line] service, citizens of Trnava can order a container from the comfort of their home and thus ensure safe and fast disposal of waste from anywhere.

In 2020, the VYLOŽ SMETI [PUT OUT THE TRASH] application for mobile phones was launched, which is designed to inform citizens in family homes about the dates of waste collection in Trnava. This popular application alerts the citizens about when FCC Trnava will carry out waste collection at their place of residence.



In 2022, the City of Trnava, in co-operation with FCC, will launch the MOJE SMETI [MY WASTE] service – automated registration and weighing of waste containers. Through innovative digital technologies, the service enables the city to obtain a comprehensive overview of the collected waste and at the same time motivates the citizens to sort it more thoroughly.

FCC Trnava closer to children

For schools and leisure centres, on the occasion of Earth Day, FCC Trnava develops activities in support of sorted waste collection in the city. It supports sorted collection in the miniTrnava project and school paper collection in elementary schools.

Trnava - one of the first Slovak cities involved in the Municipal Material Circle project

The Circular Shield project combines waste separation and circular economy. At its centre is the production of paper from cellulose obtained by regenerating collected cardboard beverage packaging known as the Tetrapacks. The paper products made in this way can then be used by schools and institutions in towns and villages where the packaging was collected.

In addition to long-term technology innovation projects, FCC Trnava also serves the current needs of the city in the field of waste management. FCC Trnava financially supported the purchase and placement of containers for the sorted collection of paper and plastics in family homes in all parts of the city. It participates in the implementation of spring and autumn clean-up of housing estate cellars through the provision of large-capacity containers. During the Covid-19 pandemic, it organised the collection, removal and disposal of waste from the testing of city residents.

Waste is a valuable source of energy and secondary raw materials

FCC Trnava, in co-operation with the City of Trnava, has long-term, actively supported the modernization of waste management in the region and the fulfilment of legislative requirements and needs in the area. The goal of FCC's innovative solutions is to prevent the generation of waste and to promote its reuse. Transformation of waste into energy is the final stage of the comprehensive waste management system of the FCC Group in Slovakia.

Existe un espacio donde la diversidad empieza por you_



you_*diversity*



> At 3,728 kilometres, it is the longest high-speed railway line in Europe

Santa Justa Station (Seville).

THE HIGH-SPEED LINE

30 years connecting Spain

The High-Speed Line in Spain has celebrated its 30th anniversary, a fact that has meant a common benefit both for the autonomous communities and for the population. It all happened on April 21, 1992, when the first high-speed train line in Spain, linking Madrid and Seville, was launched.

The high-speed has contributed to make the railway sector one of the main engines of the country's socio-economic development. The main advantage it brought was its speed, but there were also many other factors, such as the decongestion of the road network.

The AVE (Spanish High Speed) project began to be developed in 1986 and was called NAFA (New Railway Access to Andalusia). The new railway line, which was originally 470.5 km long in its first phase, has now reached 3,728 km, making it the longest high-speed line in Europe.

Three decades later, it has become a network with 13 lines connecting 50 cities in 25 provinces and allowing around 70 percent of the Spanish population to benefit from it. So much so that almost 470 million passengers have made use of it in Spain since 1992. Every day, 331 high-speed trains run in Spain, 158 of which are AVE.

Madrid-Seville line

FCC Construcción participated in this project with the construction of different sections in which a total of 32 viaducts and 17 tunnels were built along the route.

As a result of the arrival of high-speed rail in Spain, new stations were built and others were adapted. Santa Justa station (Seville) is the first passenger terminal built for this purpose. This station, built by FCC Construcción and inaugurated in 1991, consists of 12 tracks to serve the Seville-Madrid route. A year later, in 1992, the Madrid-Puerta de Atocha station had to be adapted. The remodelling, also carried out by FCC, consisted of the demolition of the old building and the subsequent reconstruction of the station to adapt it to long-distance services, which included the new high-speed lines. Moreover, this coincided with the Seville Universal Exposition, or as it is widely known, Expo 92. The inauguration of the first High Speed Line connecting the capital of Seville with the capital of Spain became a milestone.

Main High-Speed Lines

The next high-speed line to be launched was the Northeast Corridor, the main link with Europe and one of the most important communication axes in the peninsula. The first section of this line was inaugurated in 2003 and ran between Madrid, Zaragoza and Lleida. In 2006 it reached Tarragona and in 2008 Barcelona. The line was completed in January 2013 with the commissioning of the last section between Barcelona and Figueres Vilafant (Girona). Among the works carried out by FCC Construcción are different sections of this line, with more than 200 kilometres of infrastructure completed, Zaragoza-Delicias Station and Girona Station.



Madrid - Barcelona high-speed line.

In 2007 more sections came into service, connecting different parts of Spain in much less time. The section between Cordoba and Malaga was inaugurated, linking the capital with the Costa del Sol. At the end of the same year, the Madrid-Segovia-Valladolid line came into service, a fundamental axis for the connection between the north and northwest of Spain. Among the most complex projects is the Soto del Real-Segovia section, where the Guadarrama Tunnel stands out. At more than 28 kilometres long, it is the eighth longest tunnel in the world and the fourth longest in Europe, built by FCC Construcción.

Another important project is the connection between León and Asturias, construction of which began in 2009. The 24-kilometre-long Pajares Tunnel is a double-tube infrastructure, in which FCC has participated in the execution of the project and whose variant will be opened in the first months of 2023.

The Levante Corridor, which runs between the autonomous regions of Madrid, Castile-La Mancha, Valencia and Murcia, is the backbone of the high-speed connections between the southeast of the peninsula and the central plateau. More than 33 million passengers have used this corridor since 2010, which runs from Madrid to Valencia and Castellón. After the bifurcation of this line in Cuenca in 2013, it reached Albacete and Alicante and later, in 2021, the cities of Elche and Orihuela (Alicante) were also connected.

The first section of the Madrid-Galicia line came into operation in 2011 between Ourense, Santiago and A Coruña. FCC has built more than 99 kilometres of high-speed lines in Galicia, developing such unique projects as the Bolaños Tunnel and the Vigo-Das Maceiras Tunnel. Its work also includes the construction of the Vigo-Urzaiz Station.

Another of the projects underway is the Madrid-Extremadura line, of which only some sections have come into operation. FCC Construcción has finished the Alcántara Reservoir-Garrovillas (Cáceres) section, whose unique feature is the 996-metre-long viaduct over the Almonte River, with a central arch span of 384 metres, a world record span of its kind.



Atlantic High Speed Axis.



Viaduct over the river Almonte (Cáceres).

Among the recently inaugurated works is the Chamartín-Atocha Tunnel, the commissioning of this line, which allows routes linking cities in the north and northwest of the country with cities in the south and east of the country directly, without the need to stop or change trains in the capital. In Barcelona, high-speed tracks are being laid to connect the future large intermodal station in the north of Barcelona at La Sagrera, infrastructures where FCC is also present.

VIDEO 30 YEARS OF THE HIGH SPEED TRAINS IN SPAIN

More than 900 kilometres of High Speed Lines

The FCC Group's construction area has built more than 900 kilometres of high-speed lines, both infrastructure and superstructure, including the maintenance and renovation of existing lines and the construction of new stations as terminals in major cities.

It has developed more than 30% of the high-speed network in Spain and currently maintains approximately 40% of it.

FCC has more than 120 years' experience designing and building transport infrastructures that connect people.



> The Construction Area has developed more than 30% of the high-speed rail network in Spain and currently maintains approximately 40% of it

> The FCC Group has built more than 900 kilometres of high-speed railway lines

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