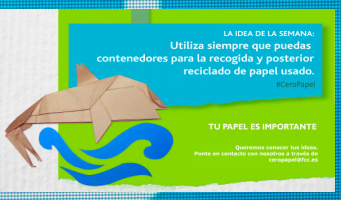
Communication Network

News for the people of FCC

ISSUE 32 2016

FCC Shareholders' Meeting

approves Board reorganisation



FCC starts campaign to save and make rational use of paper

FCC Medical Services helps you find out about your state of health

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FCC Shareholders' Meeting approves Board reorganisation

The appointment of Carlos M. Jarque and Miguel Ángel Martínez Parra as executive directors and of Antonio Gómez and Alfonso Salem Slim as nominee directors raises the total number of directors to 15.

At a meeting in Barcelona, FCC's shareholders voted to expand the Group's Board of Directors. This took place through the appointment of Carlos M. Jarque, CEO of FCC, and Miguel Ángel Martínez Parra, CFO, as executive directors, and of Antonio Gómez García and Alfonso Salem Slim as nominee directors. These four appointments are conditional upon approval by the CNMV of Grupo Carso's takeover bid for 100% of FCC.

As a result of the appointment of these four directors, the Board has been expan-

ded from 11 to 15 members. Grupo Carso has eight seats on the Board (including the two executive directors), Esther Koplowitz has four, and the other three directors are independent, as established in the agreement signed in February between the two largest shareholders of FCC, the Citizen Services Group.

Addressing the shareholders, Esther Alcocer Koplowitz, Chair of FCC said: "aware that only by adapting to new market demands could we advance, we have undertaken major restructuring of our organisation and the Group's various business units." She also referred to the "complex debt renegotiation and another equity issue, which was successful, all of which was only achieved thanks to the determined and valiant support of our largest shareholder, Carlos Slim, and to Esther Koplowitz's generosity and love of the company."

In her opinion, "their shared will and determination to pursue a better future for the FCC Group give us the necessary strength to address the challenges that this promising new stage of our existence will bring. We will face these challenges with the same capabilities that have underpinned our business success to date: adaptability to change, and agility in decision-making."

The Chair of FCC expressed her conviction that "we have a great opportunity ahead, and we are approaching it with confidence and determination. In this endeavour, we are supported by the hard work and skill of our most vital asset: our people. With the respect and trust of our clients and the commitment of all concerned, I am convinced that we will devise the most reliable formula for approaching the future with greater confidence."

It was also the first Shareholders' Meeting to be addressed by Carlos M. Jarque as FCC's CEO. He discussed the company's performance in 2015, which he described as "a year of sweeping changes". Jarque focused on three areas on which the company worked last year: finance, operations and governance.

In the financial area, the CEO noted the €709.5 million equity issue that was approved in December 2015 and paid up in

March. This transaction made it possible to reduce the Tranche B debt with a 15% haircut, strengthen Cementos Portland's capital structure and restructure its funding, reduce leverage, and enhance the Group's debt profile and capital structure.

Jarque also described the divestments performed in 2015 and early in 2016, debt collection and outstanding claims, new contracts, and the high rate of contract renewal.

Better results

As for operations, the CEO emphasised the synergies between the business units, cost cutting, centralised procurement — which saved €34 million in 2015 — and the implementation of new organisation structures, among other initiatives.

Referring to governance, Jarque described the changes in the Group's ownership structure, the takeover bid by Grupo Carso for 100% of FCC and the delisting takeover bid for Cementos Portland. "All these measures will be reflected in the financial results, as seen in recent months," concluded the Group's CEO.

He also discussed the milestones in the business areas in 2015. They include the award to FCC Aqualia of the Abu Rawash wastewater treatment plant in Egypt, the Water division's largest-ever contract, worth €2.4 billion; the construction of the Toyo tunnel in Colombia, for €392 million, and the construction and operation, for 15 years, of a waste recycling plant in Dallas, under a contract worth up to €270 million, which as awarded to FCC Environment.

Watch the attached files:

Report of Carlos M. Jarque, CEO of FCC

Speech of Esther Alcocer Koplowitz, Chair of FCC

Figures for the 2016

Fira Tower in Barcelona was the venue for the Group's Annual General Meeting on 28 June.

Two floors, 14 and 15, of the Fira Tower were fitted for the event. Both floors were covered with a total of 1,700 metres of carpeting and 17 metres of opaque methacrylate, in the form of buildings, and 45 meters of vinyl to decorate the spaces.

The main stage was on the 15th floor and featured a large LED screen 6.25 metres wide and 2.4 metres high. On the 14th floor, 80-inch screens were installed for following the event in real time. Three-hundred chairs for attendants were placed on the two floors.

The meeting was illuminated with 6,000 Kw of light for the 19 light fixtures installed in the various scenarios. For the sound, 7,000 watts were required for the 12 microphones that were used. Also was installed a simultaneous translation system for the two floors with 100 receivers and earplugs assisted by a translation cabin.

Annual General Meeting

1,700 metres of carpeting to cover the two floors used for the meeting.

17 metres of opaque methacrylate, in the form of buildings, and 45 meters of vinyl to decorate the spaces.

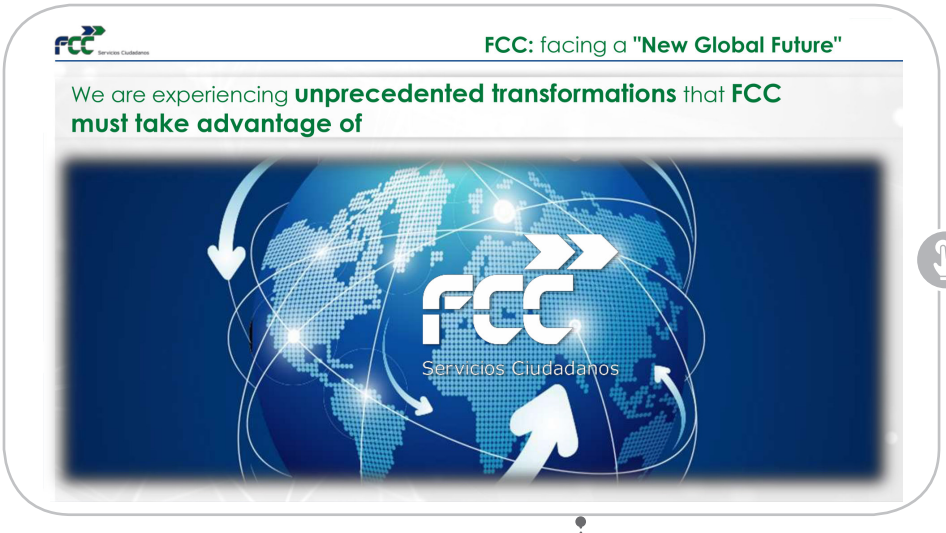
A large LED screen 6.25 metres wide, 2.4 metres high, and two 80-inch screens were installed for following the event in real time.

300 chairs installed to accommodate attendants and the media.

7,000 watts for the 12 microphones installed.

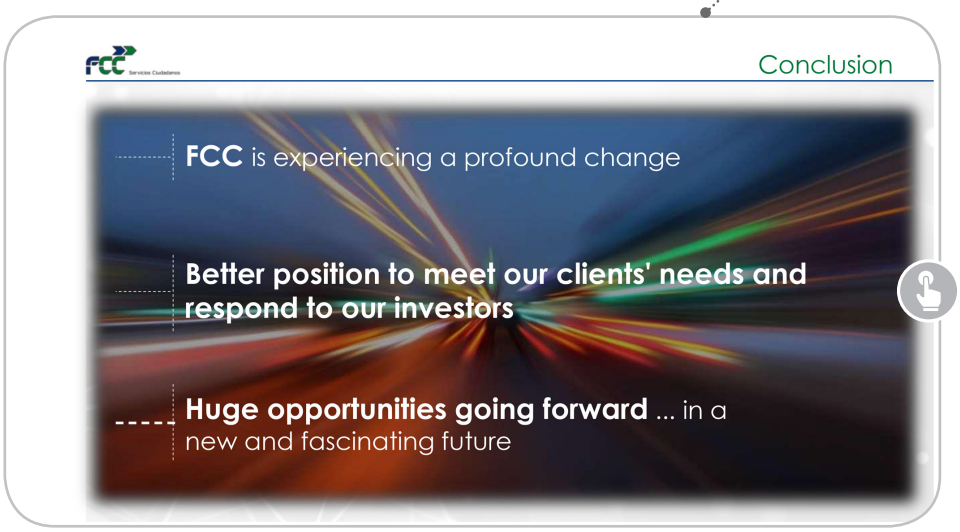
6,000 Kw of light for the 19 light fixtures installed in the various scenarios.

Simultaneous translation system with 100 receivers and 100 earplugs.



FCC: facing a "new Global Future"

Excerpt of the presentation by Carlos M. Jarque at the 2016 Annual General Meeting.



4. A new technology ERA

An ERA that is ending

A new ERA that is beginning

- Today, the world's largest seller of goods does not have any shops
- Today, you can monitor a territory without personnel
- Today, the largest taxi service owns no vehicles
- Today, the largest hotel service does not own any rooms

4. A new technology ERA

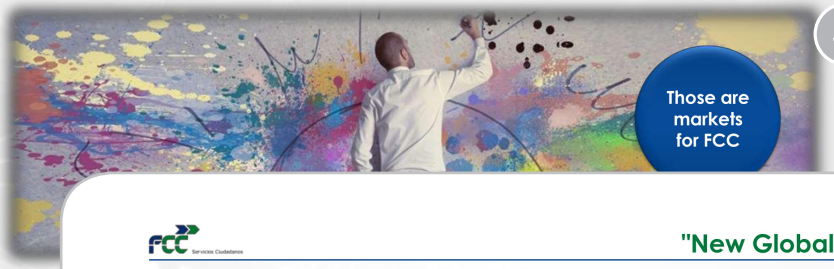
The way things were done in the past **is becoming obsolete**

- Companies must adapt, to new consumer and business ways
  - **Innovation**
  - **Drones, robotics**
  - **ICT**

4. A new technology ERA: implications

Innovation as the norm (e.g. new algae-based water treatment systems, biofuel production from wastewater)

Leverage the most dynamic industry: telecommunications (e.g. Big Data, service monitoring, remote reading, intelligent network management)



"New Global Future"

Strategic sectors to OPTIMISE

21st century	Optimise natural resource use	Optimise use of waste for productive and social activities	Optimise infrastructure and territory use through an integration dynamic	Optimise information and innovation flows and uses
FCC Servicios Ciudadanos	FCC Aqualia	FCC Environment	FCC Construction FCC Industrial	FCC areas of innovation research institutes

FCC must go where there is a comparative advantage, be ... ss the challenges

Challenges

- **Sound financial structure**
- **Talent**
- **Cost-effective administration**
- **Remunicipalisation**
- **Profitable projects**
- **CSR**
- **Projects that are economically and socially sustainable**
- **Integrity**

Click here for downloading the entire document

FCC concludes tunnelling work on Riyadh Metro green line (Saudi Arabia)

Carlos M. Jarque, CEO of FCC, accompanied by FAST consortium execu
Metro system.

The FAST consortium, headed by FCC, has completed tunnelling work on Riyadh Metro line 5 (Green line). The announcement was made at an event held in the Saudi capital that was attended by the Governor of Riyadh, His Royal Highness Prince Faisal Bin Bandar Bin Abdulaziz Al Saud, the Minister of Transport, His Excellency Suleiman Al-Hamdan, and other representatives of government ministries, together with Carlos M. Jarque, CEO of FCC Citizen Services Group, the Head of International business of FCC Construction, Pablo Colio, the FAST consortium director, Jaime Freire de Andrade and Yago Mijangos, Middle East director of FCC.

Line 5 (Green line) is one of three lines being built by FAST, one of the three international consortia commissioned to build the six lines comprising Riyadh Metro. FCC's consortium partners are Samsung C&T (South Korea), Alstom (France), Strukton (Netherlands), Freyssinet (Saudi Arabia), Atkins (UK), Typsa (Spain) and Setec (France). In addition to the Green line, the consortium is building the Yellow and Purple lines, which will have the equivalent of 33 kilometres of viaducts, 22 km of underground track, and 9 km of overground track.

The Green Line runs through tunnels dug along the route of King Abdulaziz Road, one of the city's main thoroughfares. It is 13 km long and has 11 underground stations and two stations connecting with the Red and Blue lines. The Riyadh Metro Project is using seven tunnel-boring machines (TBM); this is the second TBM to achieve breakthrough.

> "Seven tunnel-boring machines are working on the Riyadh Metro Project"

tives in the trains that will circulated through the Riyadh

In addition to the announcement of the completion of tunnelling work, a full-scale mock-up of the Metropolis trainsets, manufactured by Alstom, which will be used in the Riyadh Metro, was unveiled. The event also marked the beginning of track-laying, a major milestone in this project. The first tracks will be laid on an overground section of the Yellow line.

Trainsets for the Riyadh Metro project will consists of two cars per set and will measure 36 metres in length. There will be three classes in each train: first, family and single class. The driverless trains will be fully motorised and capable of climbing gradients of up to 6%.

The air-conditioned cars will offer a very comfortable ride, with ergonomic seating, LED lighting and an advanced passenger information system.

> "The Governor of Riyadh, His Royal Highness Prince Faisal Bin Bandar Bin Abdulaziz Al Saud, the Minister of Transport, His Excellency Suleiman Al-Hamdan, and other dignitaries attended the ceremony to mark this milestone"

About Riyadh Metro

Riyadh Metro will have 85 stations on 6 main lines, measuring a total of 176 kilometres. It will cover most districts of Greater Riyadh, including government buildings, schools, companies and the main hospitals. It will also provide a vital link between King Khalid International Airport, King Abdullah Financial District, downtown, most of the universities, and other segments of the public transit system.

Stations

All the stations will be air conditioned and have state-of the art security and safety features. Stations will offer internet access, shops and parking spaces. Riyadh Metro's environmental commitment includes the use of solar power, which will contribute up to 20% of power needs for the main electrical installations.

Icon

The project includes a number of iconic stations designed by world-leading architects which will act as hubs for the city's public transit system. They have been designed to encourage passengers from the most densely-populated areas to make use of the integrated bus and Metro networks. The main stations enhance the urban structure and offer a range of services that strengthen the overall mass transit system, such as parking spaces, ticket sales and customer service, as well as shops.

About the FAST Consortium

FAST is one of three consortia commissioned by the Arriyadh Development Authority (ADA) to design and build the Riyadh Metro Project. It comprises eight international partners: FCC (Spain), Samsung C&T (South Korea), Alstom (France), Strukton (Netherlands), Freyssinet (Saudi Arabia), Atkins (UK), Typsa (Spain) and Setec (France). The consortium employs 38 nationalities speaking 22 languages and is responsible for delivering 64 kilometres of track and 69 driverless trainsets.

Carlos M. Jarque meets FCC workforce in Riyadh (Saudi Arabia)

Carlos M. Jarque, Chief Executive Officer of FCC, visited Riyadh (Saudi Arabia) to meet with the staff of all Group divisions deployed there. At the meeting with FCC senior managers on the Riyadh Metro project, he was opportunely informed of the main details and figures behind the project, the synergies with other Group companies, the challenges and the "lessons learned" that can be transmitted to the rest of the organisation.

For his part, the Group CEO explained to FCC staff in Riyadh some of the decisions taken in recent months and their outcome. He underlined the imperative need to return to profitability in all construction projects through appropriate selection and cost and structural reductions. Mr Jarque also visited the offices of the FAST Consortium (responsible for building 3 lines of the Riyadh Metro), an example of diversity and culture with people from 42 nationalities speaking 22 different languages. Subsequently, the delegation headed by Mr Jarque took a tour of the Line 5 (Green) Northern Tunnel, where FCC personnel on site explained the operations and the challenges and difficulties they have overcome in the last 11 months' work.

During his visit, the Group CEO also attended the presentation ceremony to mark the end of the excavation of the Riyadh Metro Green line tunnel. Accompanying our Citizen Services Group CEO were the Governor of Riyadh, HRH Prince Faisal bin Bandar bin Abdulaziz Al Saud, Minister of Transport, His Excellency Suleiman Al Hamdan, as well as other government representatives, Paul Colio, director of FCC Construction International division, Jaime Freyre de Andrade, director of the FAST Consortium (led by FCC) and Mijangos Yago, director of FCC in the Middle East.

An economic powerhouse for Riyadh

At his meetings with the Governor, the Mayor of Riyadh and other executives from the FAST Consortium, Carlos M. Jarque pointed out that when the Riyadh Metro comes into service, it will drastically change the capital's residential configuration and boost its economy, as well as providing sustainable social development for the population. He also reiterated FCC's commitment to the project and announced the changes made in the management team. The local authorities praised the efforts made by the FCC team in the project and encouraged the Group to participate in upcoming inves-

In the photo, Carlos M. Jarque with FCC Riyadh employees and executives.

> The personnel in charge of building the metro lines is an example of diversity and culture: people of 42 nationalities speaking 22 different languages

tments in Water infrastructures to be developed in the area.

The agenda of the visit also included a meeting with the Spanish Ambassador in Riyadh, Joaquin Perez-Villanueva, who was thanked for the continual support of the Spanish diplomatic delegation to the project and to the Spanish nationals stationed in the city. Jarque also met with staff from the FCC Aqualia offices in the Saudi capital and was informed in person of the details of the projects carried out by our Water subsidiary in the area. At the meeting, Jarque encouraged FCC Aqualia to seek synergies with other Group divisions and to embrace the challenge facing all workers of raising the company to a position of global leadership.

In the photo, Carlos M. Jarque poses with FCC Aqualia's staff from the Riyadh office. The CEO underscored the importance of water and sanitation in the context of the 17 sustainable development objectives defined by the United Nations.

In Saudi Arabia, FCC Aqualia currently manages the emblematic project for the sectorisation and the reduction of leaks in the Riyadh supply network. The Company is also in charge the services affected by the metro project in the city (also executed by the FCC Group), and the Hadda and Arana wastewater treatment plants in Mecca.

Carlos M. Jarque visits Barcelona to see latest FCC innovations developed for waste and sewage handling

The CEO of FCC met in Barcelona with executives and members of the staff of the branch offices of all the Group's business areas in Catalonia.

During his latest visit to Barcelona, Carlos M. Jarque, Chief Executive Officer of FCC, made time to get a first-hand view of the latest technological developments implemented on waste collection and sewer cleaning vehicles by the Environment Area of our Citizen Services Group.

The Group CEO travelled to the Catalonian capital to monitor the evolution of business in Construction, Water and Environment and to explain the broad lines of the budget for next year, in addition to examining progress this year.

During this visit, Jarque visited the main Barcelona Sewerage Station, where he had the opportunity to see the first 100% electric suction and pumping vehicle for cleaning sewers on the market. This vehicle is the main novelty in the contract awarded to FCC by the City of Barcelona for the upkeep of its sewerage network. Later on, the CEO of the Citizen Services Group toured the Free Zone Park facility, which is the base station for the Barcelona City Centre street cleaning and waste collection service.

The heads of Environment in Catalonia, led by the National Environment Director, Jordi Payet, and Zone 1 Environment Director, Xavier Martí, explained the current situation of the utility services market in the region and FCC's position of leadership in all its lines of business. At the Free Zone Park central facility, the CEO of FCC was informed of the features and characteristics of the 7 cubic metres' capacity hybrid, rear-loading waste collection vehicle, as well as of the hybrid, side-loading trucks with a capacity to collect 23 cubic metres of waste and fitted with what is known as 'suction sweepers'.

> "The Citizen Services Group has the first electric suction and delivery hoses for cleaning sewers"

In the same way as with Environment, Jarque also held meetings with members of the management team and employees from the Water and Construction divisions, who thus had the opportunity to explain how ongoing projects are evolving and the strategy behind their businesses in the Region of Catalonia.

FCC achieves equality seal in all business areas

Following the award to FCC Environment and FCC Construction, all of FCC's divisions have now obtained the Equality Seal from Spain's Ministry of Health, Social Policy and Equality. The Water and Industrial divisions received it in previous years.

These two awards are a recognition of the equality initiative adopted by FCC in 2008, when the company signed its first Equality Plan; it was followed by the adoption of equality plans in the other business areas. Just three years later, in 2011, the Citizen Services Group obtained its first Equality Seal in the Water division, followed in 2012 by FCC Industrial and Energy Infrastructure.

The Equality Seal seeks to encourage and recognise enterprises that are committed to equality and which have implemented policies aimed at promoting it in all areas of the company. It also recognises the Group's actions in support of work-life balance, setting general objectives and implementing flexible measures which can be adapted to diverse situations and needs on the part of the company's personnel.

FCC's CEO, Carlos M. Jarque: "The Equality Seal is a recognition by the authorities of work done over the years in pursuit of key aspects such as equal opportunity, diversity and work-life balance. Our Group," he added, "has specific teams pursuing real progress in these areas, with the support and participation of the workers and their representatives. This Equality Seal is a vindication of that work."

FCC's CEO is nevertheless ambitious and encourages employees to "continue working and making improvements so that this progress is real and permanent, and not just temporary. Equality and work-life balance depend on all of us: men and women," added Jarque. "There is a considerable body of research showing a positive correlation between companies' financial performance and gender diversity."

Factors rated when granting these two distinctions included: implementation and results of equality plans; establishment of procedures and criteria for periodic evaluation of those plans; and positive steps to actively enhance equal opportunities between men and women.

Context of balance

FCC's commitment to equal opportunity, to the promotion and respect for diversity, and to eradicating all types of discrimination and harassment is a value of the organisation and a binding requirement on all its employees. This approach is based on the philosophy that countries and companies that wish to be competitive and socially and economically sustainable must use all available talent and, therefore, guarantee full equality of opportunity so as to enable women and men to contribute all their skills, energy and intelligence to society and, secondarily, to business.

Practice has shown that when men and women work together in a context of balance, this gives rise to a diversity of approaches, visions, languages and relations that is substantially richer and more in line with the great challenges faced by business in the 21st century.

Carlos M. Jarque
approves appointments in
FCC Construction and Internal Audit

Carlos M. Jarque, CEO of FCC, the Citizen Services group, has approved two new appointments: in the Construction division and in Internal Audit. The decisions were cleared beforehand by the Appointments and Remuneration Committee.

These new appointments "represent another step towards new organisation structures while reaping synergies," said Jarque. In Audit, "we will continue to implement mechanisms to prevent, monitor and abate risks and contingencies through efficient coordination of activities in this area." As for International Construction, "the focus is on seeking profitable markets and projects, achieving efficiencies and optimising resources in order to attain our primordial goal of profitability."

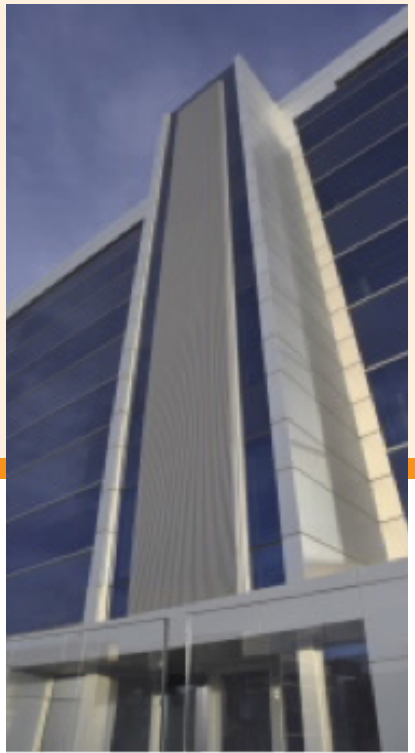
Pablo Colio has been appointed Head of International business at FCC Construction, a position he will combine with his current post as General Manager of FCC Industrial and Investees. Colio will perform the functions in the international area that were previously assigned to Vicente Mohedano.

Colio (1968), who graduated in Architecture from the Madrid School of Architecture and has completed a number of management courses at IE Business School, has been appointed head of the division's international area. He has spent most of his career within FCC, the Citizen Services group, which he joined in 1994.

He is currently General Manager of FCC Industrial and Investees in the Construction area, a position which he will combine with his new responsibilities. Colio has spearheaded the Industrial area's international expansion. He was formerly general manager of Industrial Construction, deputy director of Building and Industrial Construction at Ibérica Servicios y Obras, and Head of the Building Department.

Marcos Bada has been appointed Internal Auditor of the FCC Group, in place of Miguel Hernanz.

Bada (1974) obtained a degree in Business Administration and an MBA from ESADE and is a Certified Internal Auditor (CIA). He was formerly internal auditor at Realia, reporting directly to the Audit and Control Committee and to the Chairman. He had previously been Internal Audit manager at Sacyr (from 2005 to 2008) and external auditor at PricewaterhouseCoopers (PwC) (from 1999 to 2005), where he acquired valuable auditing experience.



Carlos M. Jarque wishes to thank Miguel Hernanz and Vicente Mohedano for their service and wishes them every success in their future endeavours.

infraestructuras > medioambiente > agua

Día Mundial del Agua 2013
Año Internacional de la cooperación en la Esfera del Agua

El agua es sinónimo de vida. Y para nosotros también de innovación, responsabilidad y compromiso.

En FCC, a través de Aqualia, llevamos mucho tiempo trabajando en el ciclo integral del agua en más de 1000 poblaciones de todo el mundo. Pensando en sus millones de habitantes, incorporamos las últimas tecnologías que facilitan una gestión eficiente y sostenible. Y así, entre todos, haremos de cada ciudad un lugar mejor donde vivir.

Lo estamos haciendo juntos.

www.fcc.es

aqualia

fcc
Servicios Ciudadanos

FCC Aqualia aims to increase by one million the number of e-invoices sent to clients

"Switch to the e-invoice!"

> The Company launches the "Switch to the e-invoice!" campaign, convinced of its economic and environmental benefits

FCC Aqualia launches the "Switch to the e-invoice!" campaign aimed at increasing by one million, within one year, the number of e-invoices to replace the traditional paper invoices. With this initiative, the Company expects to reduce the cost of paper and to minimise the impact on the environment. As an example, 17 trees and 100,000 litres of water are required to produce one ton of paper. We can reduce this environmental cost by replacing paper invoices with electronic invoices.

The campaign will be conducted through all of the Company's communication channels: offices, aqualiacontact (CAC), website, paper invoice (the back page of Infoaqualia), emailing to all clients registered in Aqualia online, and through @FCCAqualia corporate twitter account.

In order to reach users and inform them of the many advantages of the e-invoice, FCC Aqualia has designed several promotional items for each channel (panels, fliers, desktop posters for the offices, sales script for employees and e-mailings; web banners, etc.). In addition, to encourage clients to use the e-invoices, the first 50, 70 and 100 to do so, depending on the size of the office, will receive an eco-friendly bag. Each month, the Company

Tu papel es importante para preservar el medioambiente

Pásate a la e-factura

Si evitamos producir una tonelada de papel, salvaremos 17 árboles

INFÓRMATE EN ESTA OFICINA

Cámbiate a la e-factura y consigue una de las 24 Tablets que sorteamos

Consulta las bases en www.aqualia.es/static/aqualia/bases.html

www.aqualia.es

aqualia

Tu compañía del agua

> E-invoices reduce the use of paper and provides multiple benefits for users, the environment, and the Company

will raffle off two tablets amongst all who have requested the e-invoices during the campaign period.

CAC and customer service staff are also receiving training to ensure that they inform each client of this initiative in a direct and personalised way. To encourage and to create an incentive for the promotional work of these employees, the company will reward them with 24 packs of experience for their work. The two employees who get the most number of e-invoice requests will receive two packs.

This campaign reinforces the Company's commitment to the environment and that of its users. According to the Eurobarometer poll, 90% of Spaniards acknowledge their concern for protecting the environment and when asked why they prefer an e-invoice instead of the paper version, 75.2% respond that it is for environmental reasons.

Clients in Badajoz and Almeria, the first winners of the "Switch to the e-invoice!" raffle

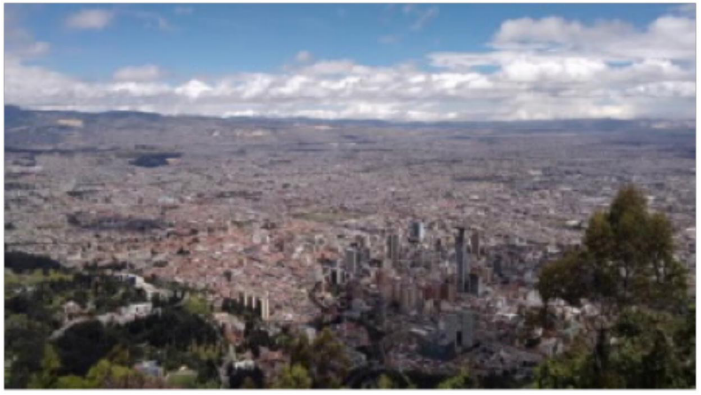
Rosa Rubio and Jesús García, clients from Badajoz and Almeria, respectively, were the first winners of the "Switch to the e-invoice"" campaign that FCC Aqualia launched last April to encourage clients to switch from the paper to the e-invoice. As part of the Company's commitment to the environment, the goal is to increase the current number of invoices by one million within one year.

The campaign is going at a good pace. In just one month, the Company recorded a significant increase in the number of clients who have requested this new format. In fact, the two home cities of the winners, Badajoz and Almeria, have shown a year-on-year increase of 2.15% and 3.9%, respectively This means that in Almeria, 7,310 users are enjoying the advantages of the digital format while in Badajoz, 4,023 users have opted for this format.

The two winners in May receive their tablets: Above, Rosa Rubio, on the left, receives her table from Eva Raya, Manager of Customer Services at the Extremadura branch office.

Below, from left to right: Jose Alonso, councillor of the Municipal Services of the Almeria City Council; Jesús García and José Colomina, Aqualia manager in Almeria.

Strong landing in Colombia: 380 million euros contract for the El Salitre wastewater treatment plant in Bogotá



In the photo, a panoramic view of the city of Bogotá.

Corporación Autónoma Regional (CAR) de Cundinamarca selected the FCC Aqualia-led consortium for the design, construction and operations of the El Salitre wastewater treatment plant, in Bogotá, Colombia, in the project put out to tender where many major international companies specialising in these types of projects participated. Once completed, the plant will be able to treat 600,000 cubic metres of water per day (m^3/day) and will provide services to three million residents. Valued at 380 million euros, it is the biggest contract ever awarded to FCC Aqualia in South America and represents the Company's first venture in Colombia.

The enlargement of the El Salitre wastewater treatment plant implies a complex technical challenge since it means increasing the treatment capacity from 4 m^3/second to the 7.1 m^3/s target. Furthermore, the fact that the plant occupies the former grounds of an old landfill site requires innovative technical solutions. In this respect, FCC Aqualia's project contemplates the use of more than 300 km of piles for the foundation of the new plant.

The El Salitre wastewater treatment plant project is part of the "Adecuación Hidráulica y Recuperación Ambiental del Río Bogotá" mega-project that is being carried out since 2012 by CAR de Cundiamarca. The aim is to minimise the odours generated by the wastewater treatment in the north and central part of the capital city of Colombia. This will benefit the nearly three million residents. Furthermore, part of the treated water will be used in the La Ramada irrigation district in the nearby towns of Cota, Funza, Mosquera and Soacha.

This will ensure that water that is treated and disinfected at the El Salitre plant can be used for agriculture and cattle-raising purposes without implying a risk for public health. The most important benefit of this project, however, will be that it will contribute to decontaminating the River Bogotá. Improvement of the sanitation and treatment is one of the objectives defined by the United Nations in the Millennium Development Goals (MDGs).

The other companies in the consortium led by FCC Aqualia are Aktor, a Greek company specialising in the construction of major infrastructures, and the Colombian company Cass. The project is to be totally completed in 60 months. The Design, Build, and Operate (DBO) contract is to be completely funded by the International Bank for Reconstruction and Development (IBRD). The technical specifications and sum of this project makes it the most important one ever awarded to FCC Aqualia in South America and bolsters its positioning in LATAM, one of FCC Aqualia's target markets.

> "FCC Aqualia was chosen for the design, construction, and operations of the El Salitre treatment plant that will provide services to nearly 3 million residents in Colombia's capital and will contribute to the decontamination of the River Bogotá"

> "Worth 380 million euros, this is biggest contract awarded to date to FCC Aqualia in South America"

Managing 320 wastewater treatment plants

As a company specialising in the design, construction and operation of all types of sanitation infrastructures, FCC Aqualia manages 320 wastewater treatment plants in four continents. The Company significantly contributes to improving the lives of the people in the communities where it operates. Coupled with its experience in treatment and sanitation projects, the Company conducts various R+D+I activities to be able to apply new technologies in these processes.

Photo of the emblematic Towers located in the Fuencarral-El Pardo district where FCC's Las Tablas corporate headquarters are located.

Aerial view of the Valdebebas wastewater treatment plant (Madrid).

FCC Aqualia to manage the Valdebebas (Madrid) wastewater treatment

Canal de Isabel II Gestión awarded an operations contract for the Valdebebas wastewater treatment plant worth more than six million euros. This contract bolsters the Company's positioning as the leading private operator in the Madrid Autonomous Community and consolidates its long and fruitful commercial relations with the public company.

> "The treatment capacity of the awarded plants provide services to a population of 259,200 people"

FCC Aqualia will be in charge of the operations and maintenance of the Valdebebas wastewater treatment plant, owned by the Madrid City Council and managed since 2007 by Canal de Isabel II. The contract is worth more than six million euros.

Situated on the right bank of the Jarama, River, the plant treats wastewater generated by the Fuencarral-El Pardo, Ciudad Lineal, Hortaleza and Barajas districts. It also receives water from Paracuellos del Jarama in the Alberche River basin.

The wastewater treatment plant's capacity provides services to a population of 259,200 people. It currently treats 10.7 million m^3/year of water and produces 2,710,167 kWh of energy.

Other contracts

FCC Aqualia participates in the sewerage contracts in the metropolitan area that have been put out to tender by Canal de Isabel II since 2009 (prior to 2007, it was managed directly by the City Council) and in the peripheral areas (Madrid Autonomous Community) since 2010. Last year, the Company was awarded operations and maintenance contracts for the 28 wastewater treatment plants owned by Canal de Isabel II in the Alberche river basin in Madrid. The plants, which have a treatment capacity of 232,000 equivalent inhabitants, have a design flow rate of 38,300 m^3/day. FCC Aqualia also manages the La Reguera wastewater treatment plant and 78 pumping installations in the south zone of the Madrid Autonomous Community.

FCC Aqualia provides comprehensive services in the Madrid Community and is the leading private operator. It manages water municipal services in two landmark sites: San Lorenzo del Escorial and Alcalá de Henares. In the latter, it manages these services jointly with Canal de Isabel II Gestión. The Company also specialises in contracts for sewerage network maintenance, supply networks, pumping stations, wastewater treatment stations, the maintenance of fountains, public buildings, and other types of projects contemplated in these types of contracts.

The commercial relations between FCC Aqualia and Canal de Isabel II Gestión is a clear example of the collaboration amongst the public and private sector management companies and joint ventures where collaboration between the administrations and companies has been very positive over many years to the benefit of citizens.

> "FCC Aqualia provides comprehensive services in the Madrid Autonomous Community where it is the leading private operator"

Companies from the sector gather at the Global Water Summit 2016 in Abu Dhabi

Aqualia - Mace, the subsidiary of FCC Aqualia and the Emirate company MACE, participated in the event as a sponsor and described its experience and presence in the Middle East

FCC Aqualia-Mace's stand at the Global Water Summit. From left to right: Ignacio Díez de la Quintana, Country Manager of FCC Aqualia in India; José Miguel Santos, Country Manager of FCC Aqualia the UAE and Qatar; Mohammed Al-Saud, Saudi Arabia's deputy minister of Water; Luis de Lope, manager of FCC Aqualia's International Division; José Enrique Bofill, regional manager of MENa AND Asia and Javier Díaz, Country Manager of FCC Aqualia in Saudi Arabia.

On 19, 20 and 21 April, the capital of the United Arab Emirates, Abu Dhabi, hosted the Global Water Summit where FCC Aqualia participated with MACE, its local partner in the Emirates and with whom it has formed the alliance Aqualia – Mace. Organised each year by the British publication Global Water Intelligence (GWI), the summit is one of the most important ones in the water sector worldwide. Throughout the three days of the event, several conferences and seminars take place and networking spaces are organised.

The event is an ideal platform for learning about the needs of the Gulf Cooperation Council (GCC) member countries and to present solutions aligned to their needs. In February and April, the Company had already described its vast experience in the various management models and participated in several conferences throughout the region, such as those held in Saudi Arabia and Qatar in February and in the beginning of April. The Company's positioning is key in order to continue growing in the Middle East through new contracts awarded in the region where several major projects are being currently put out to tender involving all the phases of the complete water cycle, mainly in reuse, desalination, and supply.

As part of this event, the Global Water Awards 2016 were announced. The prize for the Abu Dhabi Sewerage Services Company (ADSSC), and Aqualia-Mace client, in Al Ain is particularly worth mentioning. ADSSC won the prize for the best wastewater project in the year. It connects the city of Abu Dhabi with the new Wathba treatment facilities, which has a tunnel stretching over more than 40 kilometres and a large pumping station.

Next year in Madrid

Abu Dhabi was the first city in the Middle East to host the Global Water Summit that will be held in Madrid next year. Spain's capital will host the forthcoming Global Water Summit where all the major international water sector companies will be meeting.

Watch Link

Check all the winners of the Global Water Awards

SmVaK implements measures to reduce CO_2 emissions by more than 5,000 tons per year

SmVaK, FCC Aqualia's subsidiary operating in the Czech Republic and Poland, will start to reduce its carbon footprint by taking advantage of the energy potential of water in small hydroelectric plants and by using residual gas in the cogeneration systems. Based on the tests carried out, these measures will contribute to reducing the carbon dioxide (CO_2) emissions to air by more than 5,000 tons.

The commitment to taking care of the environment and respect for our surroundings is one of the priorities of FCC in its day-to-day activities. This is underscored by the initiative of SmVaK who will be shortly implementing a series of measures with the aim of reducing greenhouse gas emissions after confirming the efficacy of these measures in a thorough analysis.

6% of SmVak's carbon footprint is due to the use of fossil fuels.

The studies conducted validated the efficacy of the tests performed by SmVaK to produce electric energy by taking advantage of the hydroelectric potential of water as well as by means of the cogeneration systems installed in the wastewater treatment plants. The analyses also took into account the production of heat from the biogas generated in the sludge treatment systems at the wastewater treatment plants.

Anatol Pšenička, managing director of SmVaK, highlighted the progress made in this respect: "In 2014, there was a reduction of 1,884 tons of CO_2 thanks to the operation of seven small hydroelectric plants and another 2,161 tons as a result of electricity produced by the cogeneration systems. The use of biogas for producing heat contributed to reducing emissions by another 1,428 tons. We are confirming that our activities in this respect make sense and our intention is to continue to develop these initiatives", he said.

Calculating SmVaK's carbon footprint

The identified greenhouse gases were as follows: carbon dioxide (CO_2), methane (CH_4) and nitrogen oxide (N_2O). All are expressed as carbon dioxide equivalents, known as the carbon footprint according to the internationally accepted denomination.

As expressed and underscored by Martina Javorková, SmVaK's quality manager, "in 2014, most of the company's carbon footprint was due to the purchased electric energy which accounted for more than half. One fourth was caused by dissolved methane and 6% was generated by the use of fossil fuel. Other factors accounted for a significantly lower impact".

Panamanian President Juan Carlos Varela tours FCC's work site

Juan Carlos Varela, president of Panama, accompanied by the Minister of Canal Affairs and the manager of Panama's metro, Roberto Roy, toured the work site of the Line 2 metro of Panama and the Ciudad de la Salud project, both projects being developed by FCC in this Central American country.

During the work visit by Panama's president and his delegation, Manuel Antonio Olivares, manager of FCC Construcción Centroamérica, and Juan Antonio del Saz, manager of the Ciudad Salud Project, informed the president of the progress achieved at each of the projects.

In the first part of the tour of Line 2 of the Metro, FCC managers explained to the ministerial team of the 15% progress achieved to date in the project and, in respect of Ciudad de la Salud, conceived as the most modern hospital in Central America, they reported that 45% progress has been made.

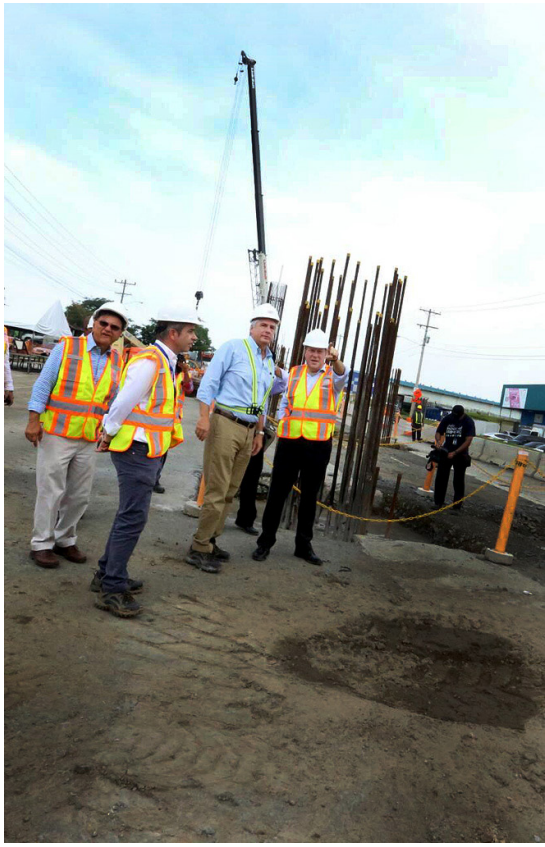
Expected to be in operations by December 2018, Line 2 of Panama's metro, worth an investment of more than 1.8 million dollars, will stretch over 21 kilometres above ground, will have 16 stations, and will transport in its initial phase, 16,000 passengers per hour in both directions. President Varela, during his visit, requested that the project should be completed by December 2018, five months earlier than the date originally contemplated.

Work at Ciudad de la Salud, currently in the redesign phase, as requested by its developer, Caja de Seguro Social, is progressing in respect of the definition of its facilities and fittings, as well as in the hiring of 200 workers. The workforce will be gradually increase in order to comply with the terms for the delivery of the project by the third quarter of 2018.

> "Construction of Line 2 of the Metro advances 15%"

> "Ciudad de la Salud, currently in the redesign phase at the request of the sponsor, progresses 45%"

Marietta Jaén, the deputy-minister of Public Works, joined the tour of Ciudad de la Salud, started at the facilities of the visitor's centre. The group then inspected the areas that will be used as the amphitheatre of the complex, known as the Hospital Street, the emergency area, and the upper floors of the facilities.



The Riyadh Metro project, led by FCC, present at the World Metro Rail Congress

Last 26 May, the FCC-led FAST made a presentation of the Riyadh Metro, one of the largest scale railway infrastructures worldwide, at the World Metro Rail Congress held in London.

Jaime Freyre, Country Manager of FCC in Saudi Arabia and Project Director, explained the "One team" approach of the development of a project worth 6.07 billion euros, with a delivery term of 60 months for executing three lines (4, 5 and 6) of the largest metro system under construction.

"The selection of consortium partners was based on capability, strategic goals, and value potential. FAST is the umbrella that brings together interests of all partners under one strategy. By operating as One Team we are overcoming logistical challenges of delivering three lines of the world's biggest metro project under construction," Freyre said.

Given the scale of the project, the consortium has faced significant challenges such as design of the metro system, traffic management, coordination with utilities, and human resources. The success of its strategy of building trust and operating as one team, in conjunction with Arriyadh Development Authority (ADA), is already producing strong results. In February 2016, the consortium's San'ah tunnel boring machine (TBM) arrived at its second station ahead of schedule.

Freyre also highlighted the social impact of the FAST consortium in his presentation. This includes training and hiring for Saudi nationals on the project, the care taken with the environment, and the engagement with local communities.

FCC Industrial

awarded a contract for the runway lighting at the El Prat-Barcelona Airport

FCC Industrial won a contract, awarded by the client, Aeropuertos Españoles y Navegación Aérea (AENA) for adapting the runways of El Prat-Barcelona Airport to current regulations. Worth 4,021,695 euros, the term of the contract is 12 months.

The contract contemplates the installation of a LED-Light Emitting Diode) guiding lights for the airports circulating on the platforms, parking areas, and runways. Lights will be installed in the new links between the runways and the new rapid takeoff runway will have a new name. The light sources will be LED, indicating a clear commitment to the protection of the environment (reduced CO_2 emissions and less light pollution) and cost savings (65% less consumption and high durability).

FCC Industrial, specialist in airport installations

The new contract awarded is yet another example of FCC Industrial's expertise in airport installations. The Company is currently executing a similar project in Santiago de Compostela Airport and provides services to the Son San Joan airport and to the South Region Control Centre.

FCC Industrial reinforces its positioning with this contract in the field of airport installations and maintenance. The Company has other contracts currently in the execution phase requiring a high degree of specialisation and a strong technological component.

Inauguration of Coslada Theatre (Madrid)

The Coslada Theatre and Cultural Centre, totally executed by FCC Industrial, was recently inaugurated.

The project consisted of the construction of a rectangular building with a concrete and metal structure and with 12,281 square metres of floor space. The technical peculiarities of the building make the architectural project particularly noteworthy. During the construction phase, pillars were installed to protect the vault of Metro Line 7, which runs under the infrastructure.

Accommodating an audience of 796 people, residents of the "Henares Corridor" will be able to enjoy the many cultural events at the theatre.

The building also house a cultural centre with classrooms, exhibit rooms, dance and other multi-purpose halls. Management offices and the municipal offices of Coslada City Council are on the third and fourth floors.

The project, executed in 24 months, was worth an investment of 15 million euros.

The Spanish National Ballet Company performed Sorolla at the theatre's inauguration event.

FCC Industrial, executing representative infrastructures

FCC Industrial has broad experience in the execution of unique infrastructures. Besides the recently inaugurated Coslada Theatre and Cultural Centre, the company built the municipal library now open to the public and has a capacity for 70,000 books.

Last year, FCC Industrial completed work on the Data Processing Centre in Murcia; the first project awarded the LEED Platinum Certificate for its score on sustainability and energy efficiency, the highest in Spain and in Latin America.

In 2012, FCC Industrial completed the comprehensive execution of the Windsor Tower. After the fire that destroyed the building, FCC Industrial built the commercial area of the new building and the other floors used as office space. This project changed the skyline of the city of Madrid.

FCC lands two new contracts in the UK,

for waste management and street cleansing

FCC's internationalisation process is moving forward in the United Kingdom. On this occasion, two Group subsidiaries in the UK have landed contracts in the environmental area.

One is for municipal waste treatment and disposal in Norfolk, awarded to FCC Environment UK. This 4-year contract is in force since 1 April last and may be extended by one year on expiration.

The Norfolk contract represents a backlog of 54 million euro and entails serving over half the county's 870,000 inhabitants. Additionally, up to 100,000 tons of municipal waste will be handled each year at the Costessey mechanical treatment and recycling plant, in the centre of the county.

Through subsidiary FCC Environment Services UK, the Group has reached an agreement with Harborough District Council to roll over its contract for municipal solid waste collection and street cleaning until 2023; the contract has been in force since 2008.

This renewal reflects the Council's confidence in FCC's technical and operational capabilities. The contract represents over 40 million euro for the Group's backlog, and entails serving a total of 88,000 people.

> "The two contracts represent 94 million euro in total revenues"

FCC's environmentally sustainable solutions in these two contracts will contribute to the UK authorities achieving their recycling and landfill diversion targets.

The FCC Group has been delivering environmental services in the UK since 1989. It currently serves over 20 million people there, and reported 926.9 million euro in revenues in 2015.

> "They entail serving over 500,000 people in Norfolk and the district of Harborough (Leicestershire)"

The South Ribble Borough Council (UK) highlights FCC Environment's great work during its first year of handling waste management

The waste collection and treatment contract in South Ribble (Lancashire County), northeast of Manchester, celebrates its first anniversary. The high-quality services implemented by FCC Environment are helping residents save thousands of pounds annually.

FCC Environment and the South Ribble Borough Council launched the urban waste collection and treatment contract in June 2015. Pursuant to the contract, the Group's subsidiary in the United Kingdom provides services to a total population of 110,000 people. Coinciding with the first anniversary of FCC's work in the town, the Council congratulated the Company for its goo work.

Over the last 12 months, FCC Environment has collected nearly five million wheelie bins as contemplated in the contract that is anticipated to save 4.2 million pounds over the course of seven years, a grand total of 600,000 pounds per year. This was stressed by Councillor Peter Mullineaux, cabinet member with responsibility for Neighbourhoods and Street Scene: "There's always a concern when you change contractor on this scale that there could be teething problems, but I'm extremely pleased to say our residents are enjoying the same first class service – in fact I bet many haven't even noticed! That's impressive when the changes result in us saving hundreds of thousands of pounds each year. FCC really has implemented the new contract in a professional and seamless way".

Stuart Mander, Regional Director at FCC thanked the Councillor FCC for his words and said, during the celebration of the first year of the contract that "we are delighted to see such positive feedback from South Ribble Borough Council and we look forward to working together in the future to deliver an effective and efficient service".

FCC Environment participates in the World Waste to Energy City Summit 2016

On 10 – 11 May, FCC Environment participated in the World Waste to Energy City Summit 2016, held in London. The event brought together the most renowned international experts in the field of waste to energy management.

The attendance of the Citizen Services Group at the summit reflects how strategic is the waste to energy business to FCC's environmental services area.

FCC Environment held an information stand and participated in several activities during the summit. At the opening session, Carlos Afonso, Corporate Development and Concessions Manager at FCC Medio Ambiente, explained the main access opportunities into the international markets for the sector, pointing out the features of the developed markets compared with those of the developing ones. The following day, Paul Taylor, CEO of FCC Environment UK, spoke during a debate with other British CEOs. In the debate, aspects relating to the circular economy and the reliability of certain Advanced Conversion Technologies (ACT) were discussed. Furthermore, Javier Cerezo, Technical Manager of FCC Environment, hosted a roundtable of experts and managers, who discussed factors to be considered on future projects, as well as his reflections on previous experiences.

The summit was attended by political authorities, senior executives, developers, banks, investment funds, technology providers and end-users. The current state of the sector was analysed during different seminars and scheduled debates. Furthermore, the future of the industry in the technological innovation, political and economic fields were discussed in local, European and global contexts.

Since 2012

With its headquarters in London, the World Waste to Energy Summit" was first held in the Spring of 2012. Since then, there have been five editions – the last one held in May of this year – all of them with a common denominator: the largest international meeting of experts in energy to waste focused on accelerating the development of conversion technologies for municipal and industrial waste.

FCC Environment CEE: New corporate image spot with the new brand

In connection with the rebranding process from .A.S.A. to FCC Environment CEE, which was carried out in 2015, we would like present a new film. “The main aim of the new short movie is to show what a broad spectrum of services is offered by our company. This time we are not so focused on our technologies, but on the advantages and benefits which are associated with our services”, says Lucie Zumrová, Head of Group Communication and CSR.

The movie was filmed in 5 of the 8 countries which constitute the FCC Environment CEE Group. It is available in English and all eight other languages, representing the FCC Environment CEE countries (Czech, German, Polish, Hungarian, Slovak, Bulgarian, Serbian and Romanian).

Link https://www.youtube.com/watch?v=cWU8NBCWot4

The City Council of Tiana (Catalonia), receives awards in Brussels for its excellent waste management

The town of Tiana (Barcelona) where FCC Medio Ambiente’s Catalonia Branch performs waste collection and treatment and street cleaning services, won two awards for its “In Tiana we reduce waste” plan which contemplates several measures for smart waste management.

FCC Medio Ambiente’s branch in this Catalan town covers the needs of its 8,411 residents, providing quality services, constantly striving to provide sustainable and innovative solutions in urban waste management and street cleaning services.

The City Council received the Sustainable City prize in the waste category in the awards sponsored by the Environmental Forum Foundation and granted by the Spanish Ministry of Agriculture, Food and the Environment. It also received an award from the European Union within the framework of the LIFE+ program during the celebration of the European Waste Prevention Week. The City Council received the first prize in the “Public Administrations” category.

Thanks to the activities carried out by FCC Medio Ambiente and the project implemented by the Tiana City Council, the town obtained the best rate of selective waste collection in Catalonia. It was able to sort 86.36% of waste thereby improving the services for the residents, increasing profitability and increasing its control of incidences.

FCC finishes sealing General Motor's landfill site for non-hazardous industrial waste in Pozuelo de Aragón (Zaragoza)

FCC Medio Ambiente's branch in Aragón-Rioja finished sealing the non-hazardous industrial waste landfill site of the automobile company General Motors in Pozuelo de Aragón (Zaragoza). After completing the work, the Group will be in charge of maintenance of the site over the next 30 years.

The sealing of the facilities was deemed completed in the official event on 3 June. Present in the event were several authorities and managers. These included Sandra Ortega Bravo, general manager of Sustainability of the Aragón Government: Antonio J. Cobo, managing director of General Motors; José Jerónimo Gracia Martínez, the mayor of Pozuelo de Alarcón; and Joaquín Jiménez López de Olate, manager of FCC's Aragón-Rioja branch office. Jiménez López de Olate, who hosted the event, explained to the audience the different works that the Company executed in order to seal the site that covered an area of 6.5 hectares.

The event marked the end of an important chapter of mutual collaboration between FCC and General Motors over the years.

The confidence that the region of Aragón has placed on FCC has been ongoing for many years. In the eighties, the Government of Aragón entrusted the project for the construction of the industrial waste landfill site to the Company. FCC subsequently executed and managed the site until the cessation of activities in October 2008.

Committed to the environment

The design of the project was in accordance with the technical quality required by current regulations that ensure that environmental controls function throughout the closure period and thereafter by implementing a closure plan pursuant to Spanish Royal 1841/2001.

After its closure, the site will function as a unit for the environmental control of the industrial waste over a 30-year period, as required by the corresponding department of the Government of Aragón.

infraestructuras medioambiente agua

En 100 años prestando servicios a los ciudadanos hemos visto cambiar muchas cosas, la primera al propio ciudadano.

En FCC diseñamos y construimos infraestructuras, recogemos, reciclamos y valorizamos residuos urbanos e industriales, limpiamos calles, cuidamos parques y jardines, mantenemos el mobiliario urbano y suministramos agua en 5.000 municipios de todo el mundo desde hace más de 100 años. Al principio éramos unos pocos preocupados porque millones de personas disfrutasen de un lugar mejor donde vivir. Hoy son esos millones de personas los primeros que se preocupan por crear un lugar mejor donde vivir.

Lo estamos haciendo juntos.

www.fcc.es

FCC
Servicios Ciudadanos

FCC Medio Ambiente

holds an **open day**

at the la Resina waste collection centre (Madrid)

for children and relatives of employees

The Madrid office of FCC Medio Ambiente held an open day at the La Resina waste collection centre last Sunday, 22 May. Throughout the morning, children and relatives of employees of the Madrid rubbish collection service experienced a full day of environmental education and awareness-building.

This activity forms part of the 'Healthy Business' campaign launched by the Madrid regional office. All the activities included in the project are aimed at facilitating and sup-

porting a healthy life style, such as healthy eating, physical exercise and health care, questions that are included in our Citizen Services Group's corporate policies that aim to improve the work environment and to promote greater health.

One of the highlights among the activities that took place during the open day was the children's workshop on road safety and practical use of the bicycle, led by Carlos Sastre, winner of the 2008 Tour de France. Similarly, families all had great fun at the environmental workshop on the Waste Cycle, given by FCC staff, which involved children's games and educational videos on waste management and the waste chain, from street collection to its subsequent conditioning.

Furthermore, attendees were able to take a look back at the history of FCC in waste management, thanks to an exhibition of photographs that illustrated clearly how dust carts and waste collection vehicles have evolved over the years. They were also given a hands-on view of today's modern rubbish collection lorries that operate in the central area of Madrid, and to get aboard for a photo.

On top of that, the youngest children had great fun playing on the bouncy castle that was set up in the centre, and to round off the morning, everybody received a small gift as a souvenir of the day.

Photo exhibit showing the technological evolution of the solid urban waste collection vehicles.

In the photo, the group of office workers during their tour of the WWTP facilities.

The "best ambassadors of FCC Aqualia" visit the WWTP in Santa Catalina (Jaén)

About thirty workers from FCC Aqualia's office in Jaén visited the Santa Catalina wastewater treatment plant (WWTP) which the company has been operating since 1997 pursuant to the complete water cycle concession. Even though they have been working in the company for many years, for most of them, this was their first visit to the facility.

During their tour of the WWTP facilities, the visitors from the Administration, Client Management, and Technical Office departments were informed about the water supply in the city and, after learning about the entire water cycle, were able to see for themselves the last phase of this cycle; the wastewater treatment process.

This initiative, conducted under the slogan "You are FCC Aqualia's best ambassadors" aims to encourage in-house knowledge of all of the Company's areas and promote the necessary interaction and empathy among the different departments.

In the centre, Fran Cruz, the plant manager, explains the wastewater treatment process to his colleagues.

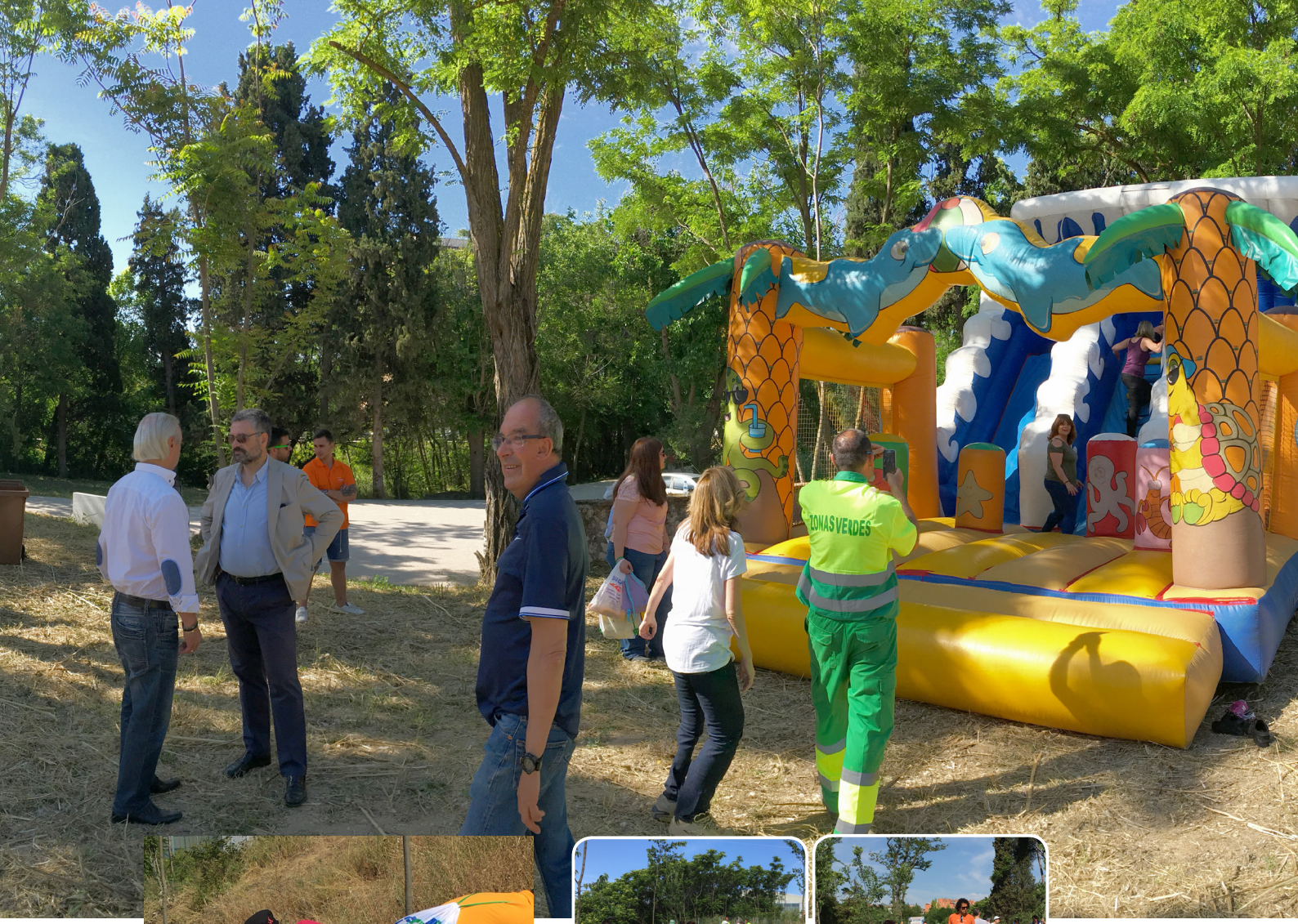
> "These types of initiatives encourage the necessary interaction between the teams form the Company's different departments"

FCC Medio Ambiente organises a reforestation outing in Valdemoro (Madrid) to commemorate the World Environment Day

On 5 June, World Environment Day, FCC Medio Ambiente's Centre Branch Office organised a reforestation outing at Cerro del Castillo de Valdemoro (Madrid). Councillor Juan José Jiménez of the Environment Department of Valdemoro City Council, headed this event, accompanied by Antonio Rodríguez Gómez, head of the branch office, and the manager of the department, Miguel Olías Garrido.

Throughout the entire morning, many families and residents of Valdemoro went to Cerro del Castillo where they left a record of their environmental awareness by planting about fifty trees throughout the park.

Besides planting trees, they enjoyed a day of learning and environmental awareness building and enjoyed the activities, such as music and a large inflatable castle for the young crowd.


ZONAS VERDES

SI HAY SALIDA A LA VIOLENCIA DE GÉNERO

ES GRACIAS A TI.

ÚNETE

GOBIERNO DE ESPAÑA
MINISTERIO DE SANIDAD, SERVICIOS SOCIALES E IGUALDAD

hay salida
a la violencia de género

016 ATENCIÓN A VÍCTIMAS DE MALOS TRATOS

LIBRES
DESCARGA LA APP

FCC wins award at the fifth edition of "Los Valores del Deporte" Augusto Martínez Gala, in the town of Paterna

For yet another year, the Antonio Cabeza Auditorium, hosted the Augusto Martínez "Los Valores del Deporte" Gala, now in its fifth edition. These awards were created to pay homage to the founding president of Unión Deportiva Paterna, Augusto Martínez, whose values he always tried to instil in the association's members.

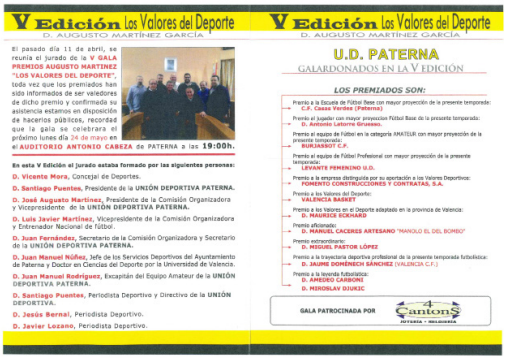
FCC won an award in this edition for the quality of its services and for its management of sports facilities as well as for the innovative energy saving processes.

Salvador Otero Caballero, the manager of the Levante I branch office of FCC Medio Ambiente collected the prize. He highlighted the Company's commitment and its contribution for improving the quality of life of citizens and congratulated all the award-winners.

The winners included the former soccer players from Valencia Club de Fútbol, Amadeo Carboni and Miroslav Djuckic; the Paralympic and world champion cyclist Maurice Eckhard; and Victor Lenguo, the former basketball player, representing Valencia Basquiet, as well as new sportsmen who were also recognised for their values and work.

The chair of the organizing committee, José Augusto Martínez, gave the closing speech at the gala event, thanking all of those present and the award-winners for attending the gala. He was followed by the interim mayor of Paterna, Nuria Campos, who highlighted the sports values of the award-winners, one of whom, Augusto Martínez, was a source of pride for the town of Paterna.

The mayor of Paterna (Valencia), Nuria Campos, handed the prize to Salvador Otero Caballero, manager of the Levant I branch office of FCC Medio Ambiente.



V Edición Los Valores del Deporte
D. AUGUSTO MARTÍNEZ GARCÍA

El pasado día 11 de abril, se reunía el jurado de la **V GALA PREMIOS AUGUSTO MARTINEZ "LOS VALORES DEL DEPORTE"**, toda vez que los premiados han sido informados de ser valedores de dicho premio y confirmada su asistencia estamos en disposición de hacerlos públicos, recordad que la gala se celebrara el próximo lunes día 24 de mayo en el **AUDITORIO ANTONIO CABEZA** de PATERNA a las **19:00h.**

En esta V Edición el jurado estaba formado por las siguientes personas:

D. Vicente Mora, Concejal de Deportes.

D. Santiago Puentes, Presidente de la **UNIÓN DEPORTIVA PATERNA.**

D. José Augusto Martínez, Presidente de la Comisión Organizadora y Vicepresidente de la **UNIÓN DEPORTIVA PATERNA.**

D. Luis Javier Martínez, Vicepresidente de la Comisión Organizadora y Entrenador Nacional de fútbol.

D. Juan Fernández, Secretario de la Comisión Organizadora y Secretario de la **UNIÓN DEPORTIVA PATERNA.**

D. Juan Manuel Núñez, Jefe de los Servicios Deportivos del Ayuntamiento de Paterna y Doctor en Ciencias del Deporte por la Universidad de Valencia.

D. Juan Manuel Rodríguez, Excapitán del Equipo Amateur de la **UNIÓN DEPORTIVA PATERNA.**

D. Santiago Puentes, Periodista Deportivo y Directivo de la **UNIÓN DEPORTIVA.**

D. Jesús Bernal, Periodista Deportivo.

D. Javier Lozano, Periodista Deportivo.

V Edición Los Valores del Deporte
D. AUGUSTO MARTÍNEZ GARCÍA

U.D. PATERNA
GALARDONADOS EN LA V EDICIÓN

LOS PREMIADOS SON:

Premio a la Escuela de Fútbol Base con mayor proyección de la presente temporada:
→ **C.F. Casas Verdes (Paterna)**

Premio al Jugador con mayor proyección Fútbol Base de la presente temporada:
→ **D. Antonio Latorre Grueso.**

Premio al equipo de Fútbol en la categoría AMATEUR con mayor proyección de la presente temporada:
→ **BURJASSOT C.F.**

Premio al equipo de Fútbol Profesional con mayor proyección de la presente temporada:
→ **LEVANTE FEMENINO U.D.**

Premio a la empresa distinguida por su aportación a los Valores Deportivos:
→ **FOMENTO CONSTRUCCIONES Y CONTRATAS, S.A.**

Premio a los Valores del Deporte:
→ **VALENCIA BASKET**

Premio a los Valores en el Deporte adaptado en la provincia de Valencia:
→ **D. MAURICE ECKHARD**

Premio aficionado:
→ **D. MANUEL CACERES ARTESANO** "MANOLO EL DEL BOMBO"

Premio extraordinario:
→ **D. MIGUEL PASTOR LÓPEZ**

Premio a la trayectoria deportiva profesional de la presente temporada futbolística:
→ **D. JAUME DOMÈNECH SÁNCHEZ** (VALENCIA C.F.)

Premio a la leyenda futbolística:
→ **D. AMEDEO CARBONI**
→ **D. MIROSLAV DJUKIC**

GALA PATROCINADA POR Cantons

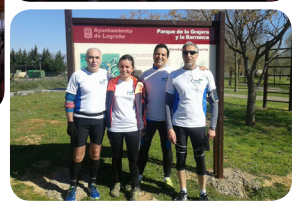
The Aragón-Rioja branch office of FCC Medio Ambiente concerned with being a Healthy Company

The HR department, according to its manager, Carmelo Jiménez, does not cease in its efforts to bolster the FCC brand as a Healthy Company.

The department, therefore, does not spare any efforts or means at their disposal to bring to fruition the ideas that come up in the meetings held every two weeks to try to create awareness among the entire branch office, in line with the Group's HR Division, on the essential role played by each employee. The responsibility and confidence placed on each of these employees reflect a more reliable image of the company. People at the Company are essential for generating the well-known and consolidated brand of the FCC Citizen Services Group, according to Carmelo.

At the end of 2015, the branch office implemented the department's mailbox, loestamoshaciendojuntos@fcc.es, of which they promise to send us detailed information for the next issue. Through this channel they informed the entire staff at the offices in Zaragoza and Logroño on the Healthy Day outing scheduled on 2 April at the FCC-managed facilities Campo de Golf de Logroño. Part of the mail sent to the staff read as follows, according to Carmelo:

The different circumstances in your and our lives are sometimes complicated. Perhaps it would be fruitful to make a small sacrifice and organise a seminar to generate bonds,



which, although not necessarily defined as friendship, create a group, a solid work team to meet the challenges that we will be facing in the near future. I want to stress one point. I don't know if you are aware of or have calculated the hours that we spend together. Multiply these by the years that we have worked together….it's scary, no? Despite being together for so many hours and years, we don't know each other. This is vital for the business and for us in our unending task of building and realising ourselves as people.

We had to seize the opportunity and once we confirmed who would be attending, we decided to plan the outing, which, once again, was supported, by the infinite possibilities of the subsidised training plan.

A motivation outing was organised under the premise "Motivate others". Five sports events were organised: Running, paddle, golf, trekking, and mountain bike. These activities were followed by a luncheon that brought the members of the branch office closer together.

At the end of the event, workers participated in a conference by D. Carlos Andreu (Motivational Speaker and Headhunter) which was a great success among the audience. Besides discovering the different traits instilled at the branch office, it represented an authentic plot point which raised the spirits of the branch office, according to Carmelo, now that a few months have passed.

Lastly, to complement the training event and after accepting an invitation from Bodegas Marqués de Cáceres (a winery), the employees who participated in the outing enjoyed a cultural visit and a unique experience in the heart of La Rioja. Carmelo told us that they were treated in a grand manner and that, like the outing, it left an unsurpassable taste in the mouth.

Allardale Borough Council and FCC Environment celebrate the long service of two of its employees

FCC Environment has been providing services to Allerdale since 1996 to a population of 92,000 residents.

Cumbria County (England).

Allerdale Borough Council and FCC Environment marked the long service of two key team members this month.

FCC Environments Area Manager Andrew Baxter presented citations for each man:

"Phillip Irving joined Allerdale Borough Council in 1991 as a general Street Cleansing Operative, covering the north of the area. FOCSA Services, now FCC Environment, took over the running of the street cleaning in 1996 and Philip transferred along with all the other staff. In 2003 he took on the roll of Barrow Man for the Town of Silloth, his home town, and has remained in that position ever since. Phillip is a reliable conscientious worker, he looks after the town of Silloth, always goes that extra mile and is highly thought of by many local people and councillors.

"Richard Hudson was also employed by Allerdale Borough Council in a position then known as 'Side Loader Driver' on the street cleaning service, and he also transferred to FOCSA Services, now FCC Environment, in 1996. Richard was initially assigned to the Maryport area where he was popular with local business people and councillors. He later transferred to the Workington area. Richard has remained a driver/operative for the full length of his service but has undertaken training to become a Swingo driver as an additional

skill. Richard is another employee who is very reliable and very conscientious in his work."

Allerdale Borough Council Chief Executive Ian Frost said: "Allerdale is a close community and our street cleansing team are well-known personalities so to be able to recognise the long service of Phillip and Richard is great. Making our town centres attractive places to live, work and visit is a council priority and I would like to thank them both for helping us to fulfil this promise."

FCC Regional Director Stuart Mander said: "Well done to Phillip and Richard. We thank them for both their service and their continued dedication to their vital jobs."

FCC Environment works with Allerdale Borough Council to deliver a kerbside collection and Street Cleansing service in a Partnership arrangement. FCC collects residual, recycling and garden wastes on separate collections, as well as managing a similar commercial operation on behalf of the Council.

Street cleansing involves barrowmen, large and small roadsweepers as well as caged vehicles used to empty litterbins, laybys and for fly tipping alongside kerbside litter picking and "A" road sweeping.

Students from the University of Texas at San Antonio visit the FCC headquarters

FCC has welcomed a group of students from the American University of Texas at San Antonio (UTSA) at its corporate headquarters in Las Tablas. Íñigo Presmanes, head of FCC's Corporate Development Department and leader of the visit, which was organised by the EAE Business School and FCC's Communications and CSR Department, explained the Group's history, its different business areas and its internationalisation process to the students and professors. Afterwards, he talked about the Environmental Services area and particularly about the corresponding international division in which he works.

The students actively participated in different talks by exchanging views with the speaker and asking questions about the Group's activities and the differences between Spanish and American regulations in the area of environmental services.

The EAE Business School has once again place its trust in the Citizen Services Group to show international students the work carried out in a multinational company, which has gone from being a local Spanish company to one that works and provides services in four continents.

The energy from waste plant in Licolnshire celebrates an open day

The open day was a total success. FCC Environment and representatives of Lincolnshire County Council, situated in central-eastern England, welcomed nearly 400 visitors to site where they had a guided tour of the facilities, visited the control room, and gain first-hand knowledge of energy from waste through the interactive exhibits at the facilities.

The Lincolnshire Energy from Waste facility, which opened in 2013, produces green energy from waste, drastically reducing the amount of waste that Lincolnshire residents send to landfill. It can treat 170,000 tonnes of residual household and commercial waste each year and, as a result, generates 11.24 megawatts per hour (MWh) of renewable electricity that is subsequently sold to the local grid. This is the equivalent amount of electricity required to power 26,500 homes.

FCC Environment operates the plant which required an investment of nearly 120 million pounds after being awarded the contract in March 2011 for the construction and operations of the plant during a period of 25 years.

Reg Shore, executive councillor for waste and recycling at Lincolnshire County Council, expressed his satisfaction for "being able show the community just how their waste is transformed into energy. It was great to be able to help the children and young people who came along to understand more about waste and recycling and the ways in which they can make the world a cleaner and greener place."

Juergen Schaper, General Manager of the Lincoln energy from waste plant, was very happy with the results of the open day: "This was a really exciting day for us, mainly because the communities we serve are at the heart of our business. Since we officially opened in 2013 we have revolutionised the way people think about their waste, working closely with Lincolnshire County Council to deliver a facility that will continue to serve homes and business for years to come so be able to show-case our facility to the community in this way was a real privilege."

FCC and Club Activo 20-30 de Las Cumbres, join hands for the Guadalupe (Panama)

The initiative launched with the participation of a team of health professionals.

FCC and Club Activo 20-30 de Las Cumbres entered into an agreement for creating programs and projects to benefit the neediest and to promote children's development, thereby joining the corporate alliance "Let's get to work".

> "Programs and projects will be created to benefit the neediest"

As part of the actions undertaken with the Centro de Salud de los Altos de San Francisco (the Altos de San Francisco Healthcare Centre) in La Chorrera, and Club Activo 20-30, the first activity took place recently. It consisted of a medical tour throughout the Guadalupe community sector where more than 90 people, including children, teenagers, and adults, received medical care.

This initiative counted with the participation of general practitioners, eight technicians, five dentists and more than ten Club Activo 20-30 volunteers who performed medical check-ups, gave vaccinations, performed dental procedures, and organised talks with the children and young adults on the importance of taking care of their teeth as well as other activities.

According to Carlos Pantoja, head of the Industrial division of FCC Construcción America, "the work carried out during this medical tour conducted by FCC and Club Activo 20-30 de Las Cumbres, reinforces the Company's commitment to the communities in the areas around the quarries. Alliances such as this one benefit the residents of these communities by providing services that contribute to improving their quality of life".

Mersey team in the United Kingdom recognises the work of its volunteers

Launched in May 2014, the volunteer program aims to recruit the local population so that they may tell the story of Halton and its new bridge..

The efforts of 52 local people who volunteer with the Mersey Gateway Project have been recognised at a special awards ceremony.

The event, organised by construction joint venture Merseylink, took place at Widnes on 2 June.

Hugh O'Connor, General Manager of Merseylink, and David Parr, Chief Executive of the Mersey Gateway Crossings Board, were on hand to present certificates and thank the volunteers for giving up their time to support the project.

All of the volunteers received certificates with individuals who had contributed 100 or more hours of voluntary service receiving special awards. Five volunteers also received an Outstanding Contribution Award for the most hours volunteered over the last 12 months.

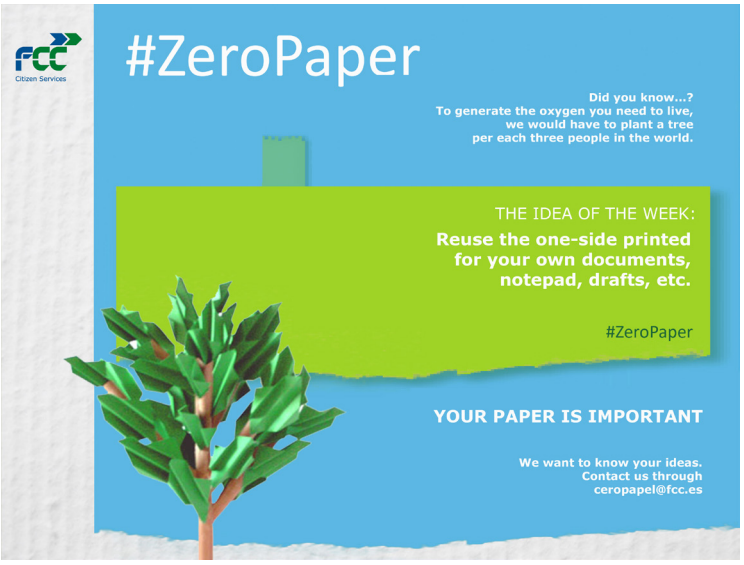
Between them, Barrie Davidson, Malcolm Findlow, Robert Richardson, Stephen Falconer and Ian Johnson spent around 2,500 hours volunteering with the project over the last year.

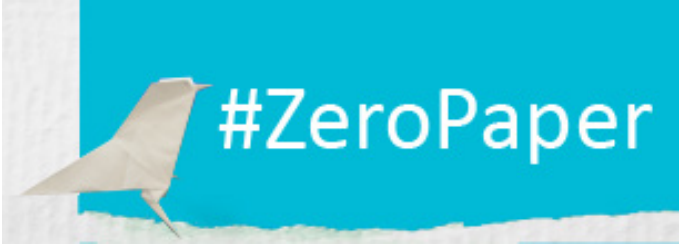
The Merseylink volunteer scheme was aunched in May 2014 with the aim of recruiting local people to help tell the story of Halton and its landmark bridge project – one of the largest construction projects currently underway in the United Kingdom.

The volunteers act as information guides at the Mersey Gateway's two visitor centres, which are based at the Catalyst Science Discovery Centre in Widnes and in the Town Square in Runcorn Shopping Centre. They also deliver presentations to local schools and community groups, and take part in site visits to learn about the ongoing construction process.

Hugh O'Connor, General Manager of Merseylink, said: "Our volunteers are wonderful people who selflessly give up their time to share their knowledge of this fascinating engineering project with the people of Halton. In doing so, they are making an enormously valuable contribution, not just to the project, but to the local community as a whole."

Social Responsibility





FCC starts campaign to save and make rational use of paper

At FCC, we aim to be environmentally responsible and eco-efficient. Consequently, as a continuation of the message by Carlos M. Jarque, CEO of FCC, to all Group employees, we have launched the #ZeroPaper campaign with the goal of using less paper in our work.

The main objectives of this campaign to reduce paper use are to establish environmental best practices, help protect the environment, and enhance the company's cost saving and sustainable economy policy.

The employees of FCC received, for six consecutive weeks, a message with tips that you can apply in your day-to-day. We invite you to support this project and apply the tips provided by #ZeroPaper.

This campaign is a major challenge for the company; we value your efforts to save, recycle and reuse paper. For that reason, we would welcome any suggestions or best practices; please send them to ceropapel@fcc.es

At the end of the campaign, we will compile your ideas and suggestions into a document that will help us continue our progress towards more efficient and rational use of paper.

¡muévete!

por tu salud

Servicios Ciudadanos

GOBIERNO DE ESPAÑA

MINISTERIO DE SANIDAD, SERVICIOS SOCIALES E IGUALDAD

FCC Industrial and Fundación Seur sign the agreement "Caps for a new life"

FCC Industrial and Fundación Seur signed a collaboration agreement to promote the protection of the neediest children. The proceeds obtained by recycling caps will make it possible to help and support minors who are in need due to diseases that are not covered by ordinary healthcare systems.

The project, known as "Caps for a new life" is designed as an instrument to protect the neediest or socially isolated children in Spain and Portugal.

Pursuant to this agreement, FCC Industrial as a socially responsible company has installed two different points for collecting caps in its Federico Salmón headquarters in Madrid so that all employees and interested parties can contribute to this positive initiative.

Other initiatives

This initiative is part of the other actions being carried out by FCC Industrial. Last October, the "16 days of activism against violence towards women and girls" was implemented in Mexico to eradicate all types of violence against woman and to have all companies who operate with FCC Industrial transmit to its employees the need to achieve gender equality.

It is also worth noting that the Company was awarded the equality seal last year, a mark of excellence that stimulates and recognises companies that are committed to equality and which have implemented policies aimed at promoting it throughout all the corporate areas.

All of these actions, jointly with the recently signed agreement, are in keeping with the various elements comprising the Company's equality, diversity and social responsibility policies.

Solidarity project

"Caps for a new life" is a solidarity project. It is also an environmental recycling project aimed at providing disadvantaged children medical treatment not covered by the health system o materials to mitigate their physical problems that they could not obtain by other means.

All began in 2011 when the family of Iker, a boy from Bilbao, went to Fundación SEUR to transport the plastic caps that they had been collecting locally and which, after delivering them to a recycling firm, would pay for the children's standing firm that Iker needed. Fundación SEUR achieved its objective earlier than anticipated and was able to help this family. This gave rise to the "Caps for a new life" ® campaign which spread throughout Spain and Portugal.

.A.S.A. celebrated the Earth Day by ecological education

> Our location in Zohor (Slovakia) we welcomed students from elementary school and organized for them the field trip

Friday, 22th of April belongs to International Earth Day. This day, many people around the world stops and reflect on the environment issues. Many schools on this day go to the countryside, or schedule a job on campus, such as planting, cleaning and so on.

We at .A.S.A. are very concerned about ecological education for our young ones and we celebrated this day in two ways. Firstly, ecological artistic competition "Drawing with Smietko" was closed and the winner was announced. In this competition students were creating works from waste materials, such as PET bottles, old paper, packaging for eggs and giving them a second life. The winner of the competition is the Elementary school with kindergarten István Széchenyi Horne Saliby.

However, it is still true that it is better to see once than to hear a hundred times. Therefore we took advantage of the sunny and warm day, Earth Day, to organize the field trip through the technologies in location Zohor. Elementary school students got to know how secondary raw materials – paper, plastic and glass – are processed. They saw how the the sorting line works, where the hand final-sort of these materials is organized. As raw materials are already sorted by color and quality, they are packed and sent to processing plants. By seeing the landfill, students were able to imagine how much waste we are generating as citizens.

We are pleased that we in .A.S.A. can contribute to the education of children and thus contribute to good habits in dealing with waste.

22 April, World Earth Day

«On this day, representatives of more than 170 countries met at the United Nations headquarters in New York to sigh the Paris Agreement on Climate Change. This historic agreement, plus the Agenda 200 for Sustainable Development, can transform our world. » — Ban Ki-moon, Secretary General of the United Nations.

FCC participated in the Constituent Congress of the new Valencia Federation of Public Service Employees of the UGT

The Citizen Services Group accompanies the new Valencia Federation of Public Service Employees of UGT trade union (FeSP – UGT) during its Constituent Congress last May where they chose the trade union leaders and defined the basis for defending the working conditions of public service workers, protecting their rights as citizens.

Under the theme, “Union makes us strong”, the first Congress of the sector’s federation was held with the participation of Luis Suárez, the manager of FCC Environmental Services Human Resources Department who was in charge of representing the Group.

Suárez had to opportunity of speaking at the event and discussed the importance of social dialogue within the framework of the socially responsible management of certain public services.

FCC supports membership of Asociación Española de Directores de Recursos Humanos in the Foro Inserta Responsable of the ONCE Foundation

Foro Inserta Responsable, co-financed by the European Social Fund, is an online work and social innovation forum that enables the sharing of practices, tools and experiences that promote the efficient development of labour integration for talent with disabilities and Corporate Social Responsibility (CSR). More than 80 companies and entities leaders in their sector participate in Foro Inserta Responsable. FCC's representative, who participates in this Forum, is Luis Suárez, Human Resources Manager at FCC Medio Ambiente.

The chair of the Technical Committee for Diversity of the Spanish Association of HR Managers (AEDRH, Spanish acronym) and the chair of HR at CBRE, Teresa Grana, and the executive vice-chairman of Fundación ONCE, Alberto Durán, were in charge of signing the membership of Fundación ONCE's Foro Inserta Responsable.

AEDRH's membership was within the context of a seminar held in Madrid under the title "Strategic talent management as a source of companies' innovation and competitiveness", was inaugurated by the secretary and managing director of Inserta, Virginia Carcedo.

FCC's representative in this forum, Luis Suárez, manager of FCC Medio Ambiente's Human Resources Department, said that at his company, people with disabilities have been integrated within the company for many years. Thanks to this policy, "FCC Servicios Medioambientales currently has hired more than 800 people with at various companies". He added that "we dared to be innovative and some of our contracts are reserved only for people with disabilities, such as in a park in Cartagena". FCC has created a special employment centre known as FCC Equal, a company for the integration of people with disabilities in the job market.

At the conclusion of the seminar and under the theme, "There is no better experience in life that putting oneself in the shoes of others", those who attended the event were able to experience first hand the barriers faced by people with disabilities.

Watch the video:
https://youtu.be/i-epBc9d9ZA

The World Bank and Fundación Once invite FCC Medio Ambiente to a debate on social inclusion

The World Bank and Fundación ONCE join forces to promote the economic and social development of people with disabilities through education, employment, skills development, training and accessibility, and universal design for everyone.

On 18 May, FCC Medio Ambiente was invited to participate in a meeting with the World Bank and Fundación Inserta, chaired by Charlotte McClain-Nhlapo, Global Disability Advisor of the World Bank and formerly President Obama's disability advisor, to debate topics related to the inclusion of people with disabilities.

Representing FCC was Pau Carmona, personnel manager of Barcelona Capital Medio Ambiente; Eva Cardiel, head of Training and Recruitment of the Barcelona Capital branch of FCC Medio Ambiente, and Luis Suárez, manager of Human Resources at FCC Servicios Medioambientales.

FCC reinforces its commitment to this group of people every day by carrying out actions and projects to promote equality through work. In collaboration with Fundación Once and in relation to disability, Servicios Medioambientales has been striving for labour integration of people disabilities either directly through the work carried out by branch offices such as Barcelona Capital, as well as through the X-Talent, a specific job website for people with disabilities. This work is also carried out through internship programs for graduates as well as by collaborating in the training of future professionals in the sectors where this business unit conducts its activities, as expressed to the representatives of the World Bank who work in this field.

Caltaqua joins the Guaranteed Mobility Project" to facilitate transport for the disabled in Caltanissetta (Italy)

FCC Aqualia's Sicilian subsidiary in Caltanissetta joins this social initiative by collaborating in donating a vehicle adapted for the disabled, thereby bolstering its commitment to the residents of the region.

Caltaqua joins the "Guaranteed Mobility Project" to facilitate the transport of people who have mobility problems. The Company participates in this initiative undertaken by the City Council, the local association, Etnos, and the financial and communications agency PMG SpA, by sponsoring a van adapted for people with physical disabilities. This very necessary tool will make it possible to cover the lack of equipment in the region's transport system.

More than twenty companies, together with Caltaqua, have collaborating in sponsoring the vehicle that will act as a social taxi to transfer people with mobility problems within the urban area. The services, to be provided by the city council, will be provided at a low cost to ensure access to all users.

Several representatives from Caltaqua were present at the official delivery of the vehicle to Etnos, the non-profit organization, and the city council. These two entities gave the thank-you diplomas to the participating company. Also present at the event was Ettore Garozzo, a reference in the region for those with limited mobility due to his political, social, and cultural efforts to build awareness in the community and in administrations on the needs of people with disabilities and at risk of social exclusion.

Its participation in this project reflects Caltaqua's commitment to the residents of Caltanisseta where it not only provides services for managing the complete water cycle in an area with difficulties due to geographical reasons, but also has shown its strong social commitment towards all the citizens of the province.

Cementos Portland Valderrivas and Flacema organised a workshop on the environment and sustainability for schoolchildren

Cementos Portland Valderrivas Group (GCPV) and Fundación Laboral Andaluza del Cemento y el Medio Ambiente (Andalusian Cement and Environment Labour Foundation, FLACEMA), comprising cement producers in Andalusia, and the most representative trade unions –MCA-UGT Andalucía and CCOO Construcción y Servicios Andalucía- organised a workshop on the environment and sustainability for students from the Kindergarten and Elementary School Ángeles Martín Mateo in Alcalá de Guadaíra (Seville).

Two different workshops were organised on sustainability issues of great interest: climate change and recycling. During these days, students were able to calculate their carbon footprint and received advice on how to minimise it as much as possible. They were told about the serious problem of waste in our society and on the importance of handling it in an environmentally efficient, safe, and responsible way.

The managing director of Flacema, Manuel Parejo, and the head of the environment at GCPV, Pedro Lanagrán, explained the different actions conducted by the cement industry in Andalusia aimed at sustainable development, respect of the environment, and the safety of people.

Advanced technology

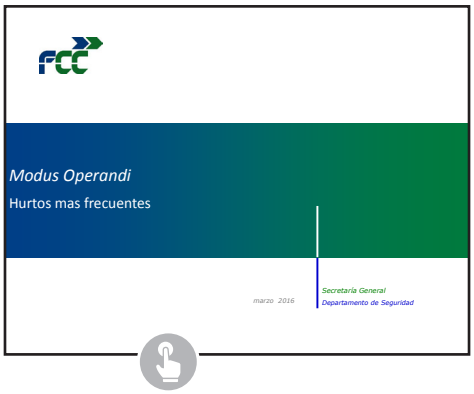
In all of its production processes, Cementos Portland Valderribas Group's factory in Alcalá de Guadaíra uses the most advanced technologies for economic optimisation and for the respectful care of the environment. It has been operating in this municipality for nearly 50 years and, despite the difficult crisis affecting the sector in recent years, it continues to wager on the future of this work site which employees about 200 workers directly, in addition to the indirect jobs generated by the cement factory.

The Corporate Safety and General Services Division reminds us of the safety guidelines to prevent theft, scams or fraud

The Corporate Safety and General Services Division wants to share with all of us a document which mentions a series of robberies and advice on how to avoid being the victim of certain crimes in real life as well as in the online world.

Theft, which can take many and varied forms, occurs by taking advantage of the victim's momentary carelessness, either accidental or provoked by the criminal act of the perpetrator or perpetrators.

The most fundamental safety guidelines for avoiding being the victim of certain criminal acts is to watch your belongings when you are in a crowd, not losing sight of your credit cards when paying in any establishment, and, if you are going to be away from home, ensuring that you close your door.



Well-being

FCC Medical Service

helps you keep your health on track

Protecting and caring for the health protection of our workers is paramount to FCC, and as proof of that, the company has its own Medical Services in Madrid that offers employees the possibility of booking a routine check-up or more specific and personal medical examinations. These services are carried out according to the doctors' criteria depending on each individual's job and are intended to assess, control and monitor his/her state of health.

The Madrid Medical Services are available to attend to employees from all areas of the company's business on a daily basis. The facilities include consulting rooms for General Practice and Osteopathy, an X-ray department, operating theatre, rehabilitation room and laboratory. FCC also runs its own Medical Services in the provinces of Barcelona, Tarragona, Valencia, Cartagena, Albacete, Vitoria, Oviedo, Zaragoza and Las Palmas de Gran Canaria. All of these count on an excellent group of medical professionals to care for the health of FCC personnel.

In addition to medical examinations for specific job positions, they also carry out actions aimed at protecting health from risk factors such as cardiovascular disease, diabetes, hypertension, etc. and at promoting self-care, healthy eating habits and physical activity.

Give us a call for further information:
FCC Medical Service
+34 913 142 429 Madrid
+34 933 525 061 Barcelona

Interview

Doctor Rafael Echevarria

Director of Occupational Health - Medical Services, Spain

What are the functions of the Medical Services?

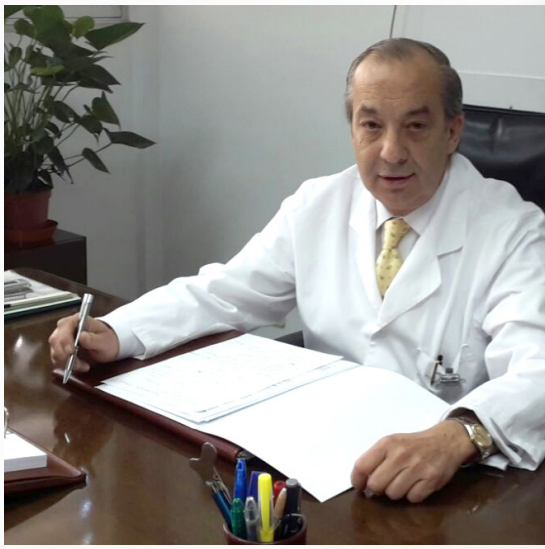
The function of the Medical Services is Health Vigilance, a concept that includes the control and monitoring of workers' to detect any signs of work-related diseases and to take measures to reduce the probability of harm or subsequent changes in the state of health.

To do this, we implement the three following essential measures:

- Health Vigilance, individually or collectively, through check-ups (initial, periodic, at the request of the interested party and/or management), epidemiological studies, vaccine programs, etc.
- Handling of work accidents, job-related diseases. We are authorised by the Social Security System to treat these processes at their source until the patient is cured and goes back to work or, if applicable, propose disability.
- Promoting health at work and in day-to-day life through campaigns such as for preventing cardiovascular risks, promoting healthy diets, physical exercise, and abandoning toxic habits (tobacco and alcohol). It is worth mentioning that we are currently involved in securing the Healthy Company certificate for our different business areas.

What are the benefits for the Company?

The main benefit is being able to adapt the job to the psycho-physical aptitudes of the worker, thereby complying strictly with the Act on the Prevention of Occupational Hazards; the company is aware of immediately and up-to-date on the health condition of its workers and of all the factors that could have a negative impact on their health. We should not forget that Company's main assets are its workers and, therefore, we have the obligation of implementing all the measures necessary for preserving and for promoting their health.



What are the benefits for workers of the Medical Services?

It is a well-known fact that, since the "Karoshi" effect in Japan due to the excessive work of Japanese executives, back pain suffered by personnel, the silicosis of miners, few factors have had such a negative impact on a company's productivity and competitiveness than the lack of safety and health at the workplace, resulting in accidents, illness, tiredness, stress, and absenteeism.

Undoubtedly, our workers' easy access to the Medical Services in the case of any eventuality or professional contingency has a great impact on the prevention and treatment of diverse pathologies that could have a negative effect on our health.

Our Medical Services feature excellent material resources and medical personnel that allow us to successfully handle all incidences that could arise. Furthermore, nowadays it may be difficult to access the Public Health System (primary care physicians and specialists) and, therefore, our professionals have a great field of action and can offer a wide range of services, facilitating check-ups, consultations, X-ray studies, tests, and physiotherapeutic and rehabilitation treatments.

> Our company's main assets are its workers and, therefore, we are under the obligation of implementing all the measures necessary for preserving and for promoting their health

What is your work as a physician of a proprietary prevention service that monitors the health of workers?

The work of a physician essentially involves preventing illness, not only those caused by our professional activity, but also from a holistic approach. The aim is to create social awareness on prevention. To achieve this, we perform the following functions:

- **Promote:** encourage the active involvement of workers as the protagonists of their health (healthy lifestyle).
- **Provide care:** provide the necessary care in the event of emergencies.
- **Assess:** assess the corporal damage after a health problem, whatever its origin.
- **Manage:** resources and activities such as the confidentiality of medical records.
- **Research:** Scientific investigation on work-related problems and their causes.
- **Train:** identify, design, execute, and assess training activities.

Is it advisable to have a medical check-up following the timetable determined by the Medical Services?

We should realise that the only way to assess or health is though a medical check-up. We cannot not overlook the fact that many diseases are silent, that is, no symptoms are evident until the condition is at a very advance stage and the consequences are often irreversible, such as with diabetes, high blood pressure, high cholesterol, liver disease, etc.
It is also worth bearing in mind that the current regulations contemplated in the Act for the Prevention of Occupational Hazards defines mandatory protocols for some activities and establish a timetable for medical checkups.

What role can the Medical Services play Health Promotion programs?

I believe that the role of the Medical Services is essential since, given that the goal of these campaigns is to improve the quality of life of people, no one is more capable of encouraging healthy conducts, habits, consumption and lifestyles, as well as of developing health programs to tackle the pathologies in our community.

We already have the winners of the third edition of the FCC Safety and Health Awards

FCC announces the winners of the third edition of the Safety and Health Awards in its three categories: Prevention of Occupational Hazards; Promotion of Health; and the Professional Career Prize.

These awards represent the recognition for the exceptional work of those who are involved and make a noteworthy contribution in relation to safety, health, and well-being in work environment, to improve the lives of people who work at FCC and for those who live in the communities where the Company operates.

The Evaluation Committee, whose members are Santiago Lafuente Pérez-Lucas, manager of FCC Aqualia España; Jordi Payet Pérez, managing director of FCC Medio Ambiente; Santiago Farré Dot, manager of the North Zone branch of FCC Construcción; Ana Benita Aramendía, corporate manager of the Legal, Labour Relations, and Health Department of the FCC Group; Elena Blasco Martín, secretary of Occupational Health of the trade union CCOO; Gustavo Vargas Sánchez, secretary general of FITAG – UGT trade union; Francisco Marqués Marqués, deputy technical manager of the National Institute of Safety and Health at Work (INSHT, Spanish acronym); and Antonio Guzmán Córdoba, manager of Health Promotion at Fundación Mapfre. The committee voted in favour of the following nominations:

Prevention of Occupational Hazards Award

This prize recognises the commitment, with proven efficacy, in managing the prevention of occupational hazards, as defined by: significant milestones, implemented processes, entrepreneurial initiatives, and any other initiative that have contributed to risk control and significant improvement in safety conditions.

The winners in this category were:

- **Technical measures/Initiatives:**
  FCC Environment for: The Mobile Plant Pedestrian System (PWS).

- **Management Strategy:**
  FCC Aqualia for: Project for improving the preventive culture.

Health Promotion Award

Recognition for promoting healthy values, habits, and practices, contribution for improving the lives of people and self-care, and for innovative alternatives for creating a healthier workplace.

The winning candidates who share this prize are:

- Andalucía II Medio Ambiente for: Healthy Company.

- Aragón Medio Ambiente for: Cardiovascular and Road Safety Promotion.

Professional career award

Recognition for people who stand out for their promotion and development of occupational health and safety related activities and services.

The award-winners are:

- Manuel Gonzalo Mateos Pavón, manager of Section A, Line 2 of the Panama Metro.
- Javier Rubio Durán, manager of the FCC Aqualia branch in Almeria.
- Marta Costa, manager of Industrial Ecodeal (FCC Ámbito).
- Pablo Fuentes Marciel, head of the FCC Medio Ambiente branch in Avila.

The scope of these awards covers all the different business and production units, divisions, branches or zones, companies or contracts and workplaces in any geographical region where FCC operates. The aim is to stimulate and recognise the work and dedication for achieving safety and health, to highlight actions and results (application of a job well done), and to disseminate, share, and replicate good practices.

The number of nominations in this third edition increased in comparison with previous ones. A total of 26 nominations were received for the different categories: 16 from Spain; 4 from the United Kingdom; 2 from Panama; 1 from Portugal; and, 1 from Finland. The Evaluation Committee encountered great difficulty in assessing the nominations since they were all of great quality.

Asepeyo rewards the best preventive practices of Matinsa, FCC Industrial and Infraestructuras Energéticas and FCC Aqualia

Asepeyo presents the awards to companies in the Madrid Autonomous Region for their excellence in prevention management and for reducing the rate of accidents.

The representatives of the FCC Group companies who collected the awards were Carmen Rodríguez, manager of Human Resources at FCC Aqualia; Guillermo Martínez, manager of engineering at FCC Industrial, and Manuel Aragonés, head of the Occupational Safety and Health Department at FCC Industrial.

Asepeyo organised an event in Madrid as part of an incentive system aimed at reducing the rate of accidents in major companies to reward them for this work and for their initiatives for preventing occupational hazards and improving the rate of accident indicators.

A diploma was given to the selected companies in recognition for their work and for being given the bonus, which, in the case of the FCC Group, were the companies Matinsa, FCC IIE and FCC Aqualia.

The bonus is an incentive given by the Social Security System through Asepeyo, as the mutual insurance company collaborating with the Social Security. This bonus is awarded to companies that have contributed to reducing and preventing the rate of work accidents by making quantifiable investments and by implementing the appropriate preventive measures, policies and practices throughout the entire organization Present in the award ceremony were Rafael Antonio Barberá de la Torre, managing director of the Social Security Organization, and Ángel Jurado Segovia, the director general of the Labour Department of the Madrid Autonomous Community and manager of the Regional Institute of Occupational Safety and Health.

The representatives of the FCC Group companies that collected the awards were Carmen Rodríguez, manager of Human Resources at FCC Aqualia; Guillermo Martínez, manager of engineering at FCC Industrial, and Manuel Aragonés, head of the Occupational Safety and Health Department at FCC Industrial.

FCC Aqualia takes the first 'Safety Tour' in search of excellence in Preventive Culture

A group of FCC Aqualia executives, headed by Managing Director Félix Parra, toured the water management service in San Lorenzo de El Escorial in the province of Madrid. This activity was the first of the "Safety Tours" contemplated in the 2015-2018 Preventive Culture Improvement Plan which aims to enhance the organization's preventive culture.

During the first part of the Safety Tour, the executives shared a few minutes with the team that was working on a point of use for water supply. In the photograph, from left to right: Félix Parra; Santiago Lafuente; Carmen Rodríguez; José Luis San Segundo; Javier Cano Torres, the department's foreman and worker in charge of prevention activities; Alberto Rodríguez Pozo, skilled plumber; and, Alfonso Callejo Montero, meter-reader and the workers' legal representative.

The first "Safety Tour" was taken last May by FCC Aqualia's zone and branch office managers, an initiative contemplated in the project that the Company has been developing to improve the preventive culture.

Félix Parra, managing director of FCC Aqualia, was accompanied during the tour by Santiago Lafuente, national manager, and Carmen Rodríguez, manager of Human Resources. The executives, who were also accompanied by José Luis San Segundo, the manager of the service at San Lorenzo de El Escorial, were able see firsthand employees at work who were performing their regular daily tasks.

They first toured the site where operators were working on the point of use for water supply with whom the executives were able to exchange information and opinions on the prevention regulations and measures in the work environment. They then went to the town's drinking-water plant where they toured the entire facilities and met with the employees.

Photo taken after the visit to the Drinking Water Treatment Plant (DWTP). From left to right: Diego Lobo Cámara, skilled worker at the DWTP; Santiago Lafuente; José Luis San Segundo; Carmen Rodríguez; Alfonso García Quijada, skilled plumber and DWTP worker; Félix Parra; and Javier Cano Torres.

The tour of San Lorenzo de El Escorial was the first of the "Safety Tours" that FCC Aqualia will be conducting within the framework of the 2015-2018 Preventive Culture Improvement Plan the goal of which is to achieve excellence in the Preventive Culture. As underscored by Félix Parra during the tour, "for a long time, we have been doing the right thing in relation to the Protection of occupational hazards, but we are not settling on this and, through our Preventive Culture Improvement Plan, we want to take the leap and achieve excellence".

This initiative, which will be repeated in the future, contributes to bolstering the preventive efforts of the organization and also helps to identify improvement opportunities, build positive relations between management and the rest of the team, and enhances the visibility of the Company's preventive commitment to prevent occupational hazards.

Safety Tours

- Tours conducted to confirm, educate and motivate the personnel.
- Focused on tasks, not on the facilities, to see how people work.
- Watch employees perform their work or request demonstrations.
- During the tours visitors are informed of the safety measures that have to be observed (signalling, positioning, etc.) and complied with by the workers.
- Attendants and guests can take notes and point out opportunities for improvement.

"Your health. Your attitude", Healthy Company program for FCC Aqualia employees in Lleida

FCC Aqualia Lleida launched the Healthy Company program to facilitate and boost wellbeing at work and to improve the work conditions of its employees.

The WHO defines health as a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity. If we want to enjoy this state, we must be aware that it depends largely on us, on our daily habits.

This is the starting point of the Healthy Company program that FCC Aqualia has implemented as a pilot project at all of the departments in Lleida. The Company considers the health and well-being of all employees as key factors for having a healthy workforce, ready to face daily challenges.

The goal is to help improve the quality of life of workers, identifying and assessing unhealthy habits and risk factors that can affect the health of the individual not only in the work environment but also in their personal routines and non-work activities.

Promoting physical activity and sports, healthy food and habits, solidarity, and collaboration with the community are at the core of the program. Accordingly, it offers all the workers in the province of Lleida who join the program several proposals and incentives including reduced prices for the gym, nutritional advice, motivational workshops, and the distribution of fruit at the workplace.

> "In just a few days, 80% of the workforce has signed up"

The activities to be carried out will be decided by a monitoring group comprising workers and will also be in charge of monitoring and assessing the program every six months.

The Healthy Company Program is proof of FCC Aqualia's commitment to people and the community as a whole. It requires the involvement of everyone; the company as well as its employees.

One of the training activities directed by Marto Ramos who explained different topics to workers, the foreman, and the head of the Drinking Water Treatment Plant in Salamanca.

FCC Aqualia celebrates in Salamanca the World Day for Safety and Health at Work with various activities

To commemorate World Day for Safety and Health at Work, FCC Aqualia conducted several activities with the participation of workers from the different departments of the Salamanca Water Service.

FCC Aqualia expressed its firm commitment to the welfare of workers by conducting several activities during World Day for Safety and Health at Work whose them this year was "Workplace Stress: a collective challenge". FCC's water management division conducted several activities with the team from the Salamanca Water Service, all of them aimed at transmitting various communication and work dynamics that promote the execution of daily work in the safest and most preventive possible manner.

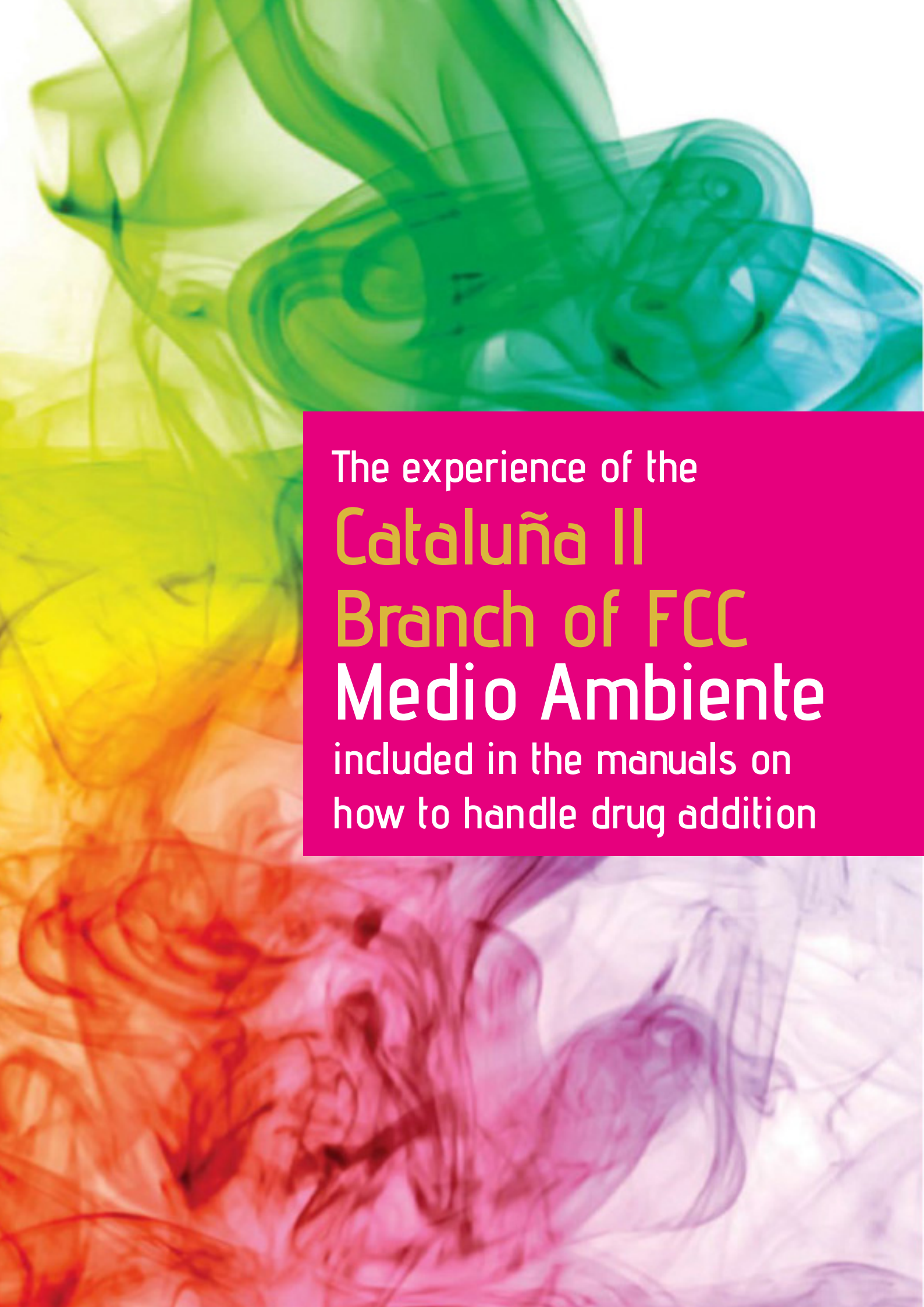
The activities were aimed at analysing the various accidents in the past and to point out the possible ways of avoiding them, explaining the use of IPEs (Individual Protection Equipment) by employees, as well as having managers, supervisors and foremen become more involved in risk prevention. All the activities were scheduled and managed by Marta Ramos, Prevention of Occupational Hazards (POH) technician from the Salamanca Water Service.

Operators also participated in refresher courses focused on improving the way that they perform their regular work tasks. Several guidelines for monitoring safety conducts correctly were explained to the technical team from the hazard prevention department.

FCC Aqualia works every day in developing new measures to ensure the prevention of occupational hazards. The Company regularly launches different types of initiatives and practices as part of its plan to improve safety and health at work, focused on achieving these goals. One recent example is the preventive management monitoring and control system which brings together executives and employees in meetings scheduled periodically as a venue for ensuring the improvement of the preventive culture.

Photo of the FCC Aqualia's campaign to commemorate World Day for Safety and Health at Work.

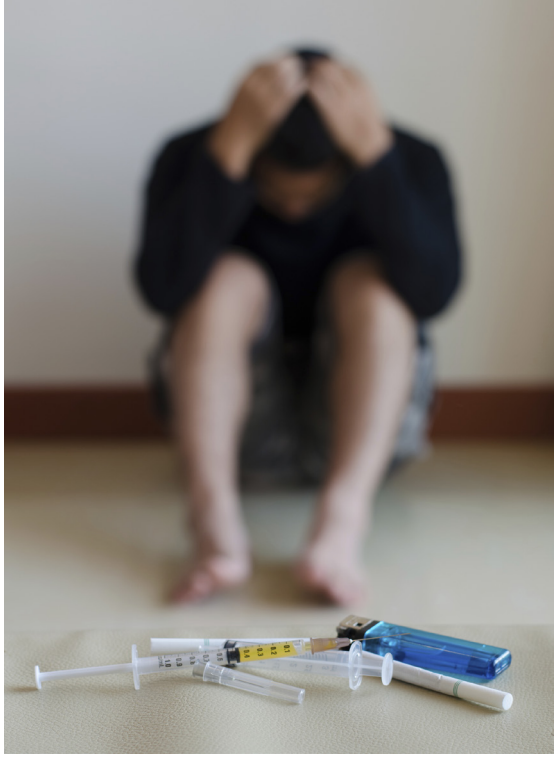
Watch recent interview
of Pascual Capmany, manager of Health and Safety at Work



The experience of the

Cataluña II Branch of FCC Medio Ambiente

included in the manuals on how to handle drug addition



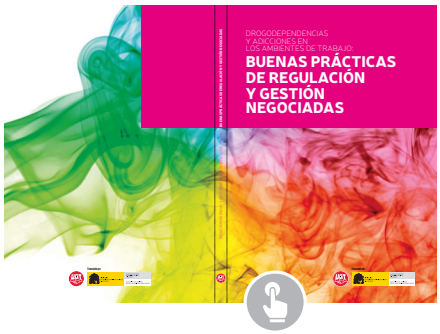
FCC participated in the manuals on drug addiction published by the reference institutions, contributing the Company's experience in this subject. These guides describe the experiences of the FCC Medio Ambiente branch and are part of the good practices implemented to respond to the social problem of drug abuse so as to ensure the safety and health of its workforce.

The Cataluña II Branch of FCC Medio Ambiente has implemented a program for preventing the consumption of alcohol and drugs at work, aimed at all of the branch's employees, which has received national and international recognition.

The manuals that have been published are:

- **"Guide for Tackling Drug Addiction at the Workplace",** published by Foment del Treball Nacional, funded by Fundación para la Prevención de Riesgos Laborales and with the collaboration of Full Audit, S.A.

- **"Drug Dependency and addictions at workplaces: good practices in regulation and negotiated management",** published by the Secretariat of Occupational Health and the Environment UGT-CEC, with the participation of several authors from Spanish universities.

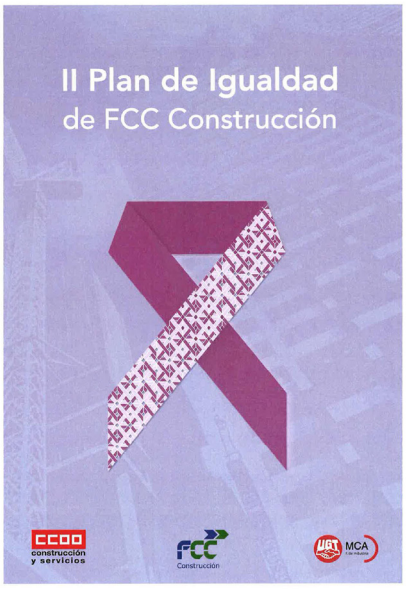


FCC Construcción's Equality Plan
Monitoring Committee is established

On 9 June, the Monitoring Committee of FCC Constucción's Equality Plan was established, comprising company representatives and legal representatives of the workforce with the active participation of CCOO and UGT, the most representative trade unions.

The Committee will monitor the development and execution of the measures contemplated in the Equality Plan; review the evolution, and propose recommendations to try to improve and facilitate the achievement of the defined objectives.

The members of the Monitoring Committee will be responsible for monitoring the plan, implementing measures, and for ensuring equality and diversity within the Company.



The meeting for establishing the Monitoring Committee of the 2nd Equality Plan of FCC Construcción seized the opportunity to inform on the actions executed in the past year: campaigns; registration of women in the Program for Developing Pre-Executives of Escuela de Organización Industrial (the Industrial Organization School, EOI); changes introduced in the work calendar of the central offices that imply more flexibility; and the award of the Equality Seal by the Ministry of Health, Social Services, and Equality to FCC Construcción.

Since 2008

FCC Construcción signed its first Equality Plan in November 2008; a plan that sets out several measures and proposals for equality and for no gender-based discrimination which promotes the role of women in the workplace, ensuring their rights and encouraging a corporate culture of equality and diversity, a commitment that is still in force as part of the Company's policy.

FCC Construcción's second Equality Plan was signed in 2015. Besides renewing the fundamental principles of the first plan, it includes the measures agreed with the negotiating panel of this plan and the Company's commitment to take steps in this direction and its ongoing improvement efforts to promote, ensure, and guarantee equality in the company.

The scope of the Plan includes all of FCC Construcción employees and the workers at all of the subsidiaries of this division that do not have their own Equality Plans and are subject to the provisions of the general agreement of the construction sector. This plan implies working in different fields of action to make it possible to reduce difference and generate value in social-labour equality and diversity and which, therefore, promote measures in this respect, including, access to jobs, promotion, training, remuneration, health and welfare at the workplace and flexibility, conciliation of work and family life, and co-responsibility. The Equality Plan also includes a special chapter dedicated to women who are victims of gender violence and another chapter on the prevention of harassment at work, one of the Company's public commitments in the fight against any type of violence against women. Communication and awareness are included in another section of the Plan with the aim of generating serious measures and a culture that facilitates the integration and implementation of measures that promote equality among people from the standpoint of equality and non-discrimination.

The Equality Plan, therefore, is a compendium of the measures agreed to by the Company's representatives and the legal representatives of the staff with the active participation of the most representative trade unions, CCOO and UGT.

FCC Construcción's Safety and Health Department publishes the

Report on Good Practices

The Safety and Health Department of FCC Construcción published a Report on Good Practices, an initiative in line with the prevention objectives defined in the Construction Division.

The report details the good safety practices implemented at various workplaces under the premise of ongoing improvement both in terms of procedures as well as in preventive management.

The following practices have been selected in this first publication:

1. The use of rear-view cameras in concrete dumpers when executing the body of a dam.
2. Rescue device for interior formworks.
3. Installation of nets in galleries with a great slope to retain the worker in case he falls and lifelines for landing and for changes in the flight of stairs.
4. Placement of textile lifelines for work on galleries.
5. Demolition of concrete using electrical robots managed by remote control by an operator.
6. Acoustic and luminous device to notify in the event that the safety distance between aerial electrical lines is surpassed.
7. Installation of pre-gauges in gantry falsework by means of a tubular scaffold structure in works on roads open to traffic.

You can read the report at the following link:

Watch PDF

Ágora Well-being Congress:

healthy body, mind and habitat

The first edition of the Ágora Well-being Congress transformed Valencia into the capital of well-being, with 44 first-rate speakers, 11 debate tables, and 250 attendants.

During the course of the congress, the last trends in personal development and well-being policies were presented. FCC participated in the congress with other companies that are also leaders in implementing healthy measures.

The first presentation was by Javier Irondo, writer, philosopher, and well-known expert in emotional intelligence and personal development. For the author of the bestseller "Donde tus sueños te lleven" (Where your dreams take you) any personal or professional change makes it necessary to pause and to reflect: "if you lose the focus and don't have a clear goal, the mind will only envision problems, fears, and doubts".

This congress is conceived with the intention of becoming a unique space for disseminating knowledge and experiences on well-being as an asset that generates great personal and professional benefits. FCC was represented by Juan Carlos Sáez de Rus, manager of the Company's Safety, Health and Well-being Department. He described the work that the Citizen Services Group is carrying out and his professional vision on this issue.

"Motivation, commitment, teamwork, leadership, efforts and vitality are highly important values for the success of an organization. Flexibility-conciliation measures also contribute to increase the worker's commitment to the company and encourage the retention of talent in organizations".

"Creating a culture of well-being and integrating in the strategic plans is good for the productivity, efficiency, and the competitiveness of companies. Ágora Well-being is a meeting point for professionals who, from different fields of knowledge, are essential for promoting well-being in companies".

Juan Carlos took part in the Organizing Committee of the Ágora Well-being Congress and was a speaker in the "Empresa y bienestar: Un ejemplo vale más que mil

Video summarising the Ágora Well-being Congress
https://www.youtube.com/watch?v=mZP8YdDGGbA

Interview:
https://www.youtube.com/watch?v=qzPoCZlbktg

promesas" (Company and well-being: one example is worth more than one thousand promises) discussion.

Health, sports, nutrition, coaching, education and social care were among the other important topics discussed during the two-day Congress. Presentations were also made on applications and start-up companies based on the application of new technologies at the service of well-being and which aim to facilitate management for greater and better implementation of personal and professional well-being.

Elsa Punset, the writer and campaigner for positive change, was in charge of the closing session. She encouraged the public to train their emotions, manage fear, self-control and failure because "failure is proof that you are learning".

Practical Guide of Healthy Habits

Adapting habits that have a positive impact on your physical, mental, and social well-being is easier that it seems. Take note!

1. Sleep the necessary hours: at least, and least is least, six hours.
2. Exercise: if the simple fact of exercising makes you tired, look for simple routines: climb stairs, walk to work...
3. Take care of your body: you'll remember your bad posture months later.
4. Don't put your life at risk: don't gamble behind the wheel, don't rush.
5. Learn to risk with your mistakes: you are human and, therefore, make mistakes. No problem, we learn day-by-day.
6. Avoid stress: don't add more stress to your work load.
7. Pause once in a while: lighten up your work day, a stroll or a cup of coffee could bring up an idea that escaped you before.
8. Be friendly: with your colleagues and those who are not: help and you will receive help.
9. Avoid toxic habits: smoke, boiling hot coffee throughout the day, and flasks in your drawers are images of the past.
10. Stop eating junk food: we are what we eat. Reject fast food, the snack from the vending machine, or sandwiches. Don't find excuses such as lack of time and convenience. A balanced diet is easier than you imagine.
11. Find time for leisure activity: your profession may be exciting but there are surely other things that you like to do. Don't bore your family and friends with things that are only of interest to you.

Allergy:

symptoms, treatment, and prevention

An allergy is a disproportionate reaction of our body's defences to a substance that is inoffensive for most people.

The immune system of an allergic individual treats these substances, known as an allergen, as something harmful and a response takes place that provokes symptoms ranging from slight discomfort to problems that could be life-threatening.

The main allergens are:

- Pollen: grass, olive trees, conifers, Arizona hedges, and yew trees are the plants that cause the most allergies in Spain, mainly in the spring.
- Fungi in the environment.
- Dust mites.
- Animal epithelium; cats, dogs, horses, and rodents are the most frequent causes.
- Certain food such as milk, eggs, shellfish, wheat, nuts, peanuts, chocolate and soy.
- Medicine.
- Insects.

Symptoms

Symptoms vary depending on the location, intensity, and severity. Serious allergic reactions could occur that could even cause lead to death.

The most frequent is allergy to pollen or pollinosis. It affects about 15% of the population, with this percentage increasing to 30% in the case of young people.

Pollinosis appears mainly in urban habitats instead of rural areas, probably because air pollution accentuates the allergenic effect of pollen.

The most common allergy symptoms are mild, although quite annoying, such as tears and itching eyes, known as rhinoconjunctivitis, in addition to nasal congestion, sneezing, and coughing. The more serious effects are difficulty in breathing and asthma. The most serious secondary symptom caused by an allergic reaction is anaphylactic shock, a medical emergency that requires immediate attention by a health professional since it is life-threatening.

It is not always easy to distinguish an allergic process from a cold affecting the upper

respiratory tract or a common cold. There are some differences that enable us to identify these processes:

- On average, the symptoms of a common cold or viral process usually last about a week.
- There is no fever or muscle pain in allergic processes.
- Although coughing may appear when suffering from an allergy, it is more frequent and prolonged when someone has a cold.
- The evolution of the situation and the response to treatment is clearly different; while a common cold requires only symptomatic treatment, allergies respond to antihistamines that reduce or eliminate the symptoms.

Treatment

An antihistamine is the treatment of choice for allergies. These drugs block the liberation of histamines, the substance responsible for the allergy symptoms. It is important to take antihistamines on a regular basis when you have an allergy, preferably at night. There are two types of antihistamines: the classical or first generation, and the non-sedating or second generation antihistamines, more frequently used nowadays because they are more selective, their penetration in the central nervous system is more limited and, as such, cause less drowsiness and, therefore, are considered safer since they do not interfere with day-to-day activities. These are found in the form of tablets, syrups, nasal sprays, and eye-drops. The following well-known drugs are part of this group of antihistamines: Loratadine (Claratyne), Desloratadine (Aerius), Ebastine (Ebastel), Rupatadine (Rupafin, Alergoliver), and Azelastine (Afluón).

Immunotherapy and vaccination are treatments that should be taken into account. Vaccines treat the cause of the allergy. Small amounts of the allergen are administered to the patient so that, over time, the response of the body changes rendering the allergen inoffensive without producing any symptoms.

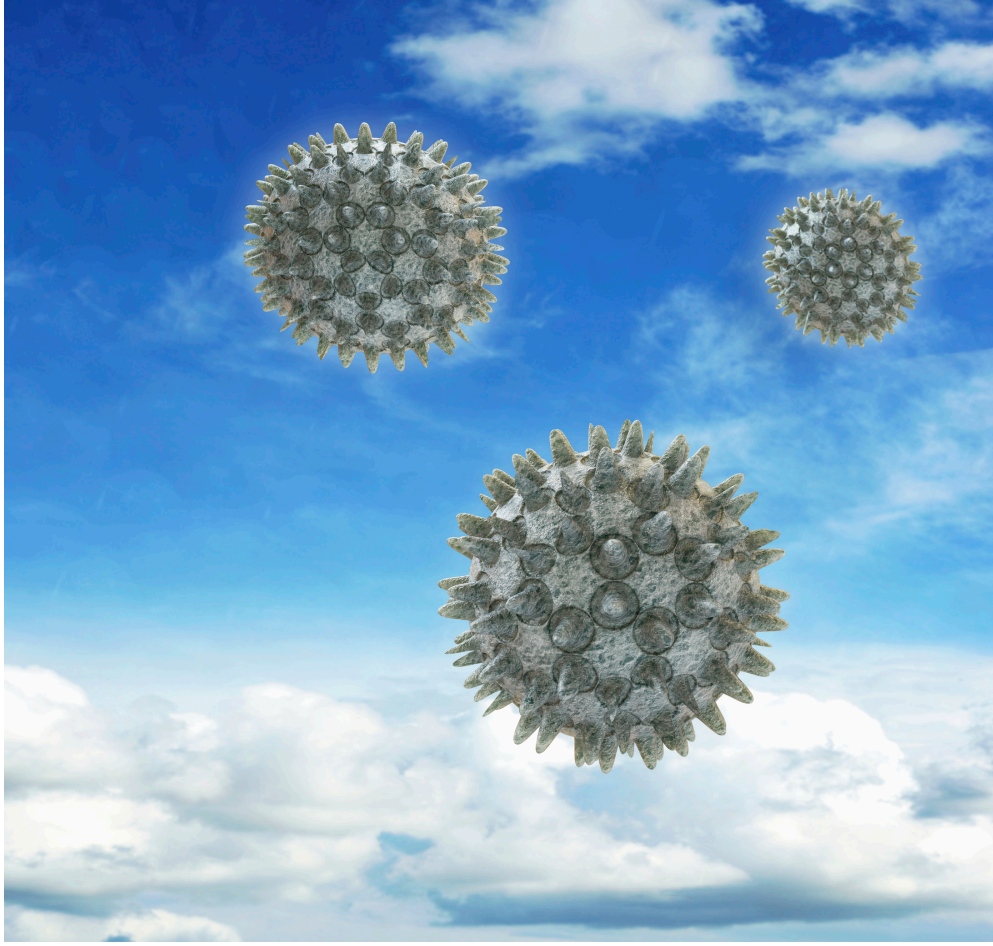
Vaccines do not have to be used in all cases. If the symptoms are mild and isolated, they respond well to medication and evolve favourably in a spontaneous manner and, if it is easy to avoid the allergen, vaccines will not be necessary. If, on the contrary, the symptoms are intense, frequent, disabling or limit activities and do not respond well to drugs or evolve unfavourably, vaccine treatment should not be delayed. The recommendation of starting the vaccine treatment is done by a specialist after a detailed analysis.

Prevention

Avoid contact with allergens. This is better than having to treat the symptoms of an allergic reaction.

This measure is possible in allergies caused by drugs, certain animals or specific substances that can be avoided.

Often, it is not possible to avoid contact completely although it will be necessary to take all measures to reduce exposure as much as possible.



Preventing allergy to pollen

- Avoid places where there is a large amount of pollen, such as parks, gardens, rural environments, etc.
- If it is not necessary, do not go out for walks on very windy days since wind carries large amounts of pollen.
- Use glasses to protect your eyes and even wear a mask.
- If you travel by car, keep the windows closed.
- The greatest concentration of pollen is in the early morning hours (between 5: OO and 10:00 a.m.) and in the evening (7:00 to 10:00 p.m.), therefore, do not exercise or perform any other outdoor activities in these hours.
- Keep the house windows shut.
- A drier, or at least a rack to hang clothes inside the house, are recommended to prevent clothes from accumulating pollen outdoors.
- Do not have plants inside the house that are allergenic.

Preventing allergy to dust mites

- Avoid carpets, rugs, large curtains, stuffed animals, and upholstered chairs.
- Clothes should be kept inside closed closets rather than hanging during various days on a coat rack or on top of a chair.
- The best floors are made of wood and, specially, of ceramic tiles.
- Walls should be smooth so that they are easier to clean.
- Keep books in closed cabinets or bookshelves.
- Ventilate the house frequently to avoid humidity since these microscopic animals proliferate at temperatures above 20 degrees centigrade and when the level of humidity is between 70 and 80%
- Pillows and mattresses are authentic reservoirs of mites and, therefore, they should be made of synthetic fibres or covered with non-permeable materials.
- Wash bed linen frequently with water at more than 65 degrees centigrade. Also use anti-mite covers to protect the mattress, pillows and sofas, the favourite places for these microscopic animals.
- Toys in children's rooms should be stored in the closet or in boxes. If possible, the room temperature should be kept at 18 to 20 degrees centigrade.
- Avoid very dusty places.
- Check with your doctor when you notice the first allergy symptoms. He will check your medical records, perform the necessary tests to determine the exact type of allergen involved and, if necessary, will prescribe a symptomatic or specific treatment.

MUJERES POR EL CORAZÓN

Women for the heart

The first prevention campaign in Spain to create awareness among women on the importance of acquiring healthy habits to prevent cardiovascular diseases .

The Madrid Autonomous Community, through the General Directorate for Women, jointly with Fundación MAPFRE, Fundación Española del Corazón and Fundación Pro Cnic (National Centre for Cardiovascular Research) launched the Women for the Heart campaign to create awareness among women on the importance of acquiring healthy habits to prevent cardiovascular diseases.

This is the first campaign of its kind in Spain, an initiative combining rigorous contents in an easy and didactic presentation in the Heart Guide, a video and a website.

The campaign includes a 52-page guide, “Cuídate, Corazón”, with details on the condition of women’s hearts based on the most relevant statistical figures, an overview of the main cardiovascular diseases, an explanation on why stress is a risk factor for the hear, how to identify and manage it, and eleven foods to protect the hear. It also includes an exhaustive test to discover the risk of suffering from cardiovascular diseases, an exercise table designed by the expert Angel Merchan, and tips and recipes for taking care of the heart by the Michelin Star chef Michelin Mario Sandoval.

The latest figures from the National Statistics Institute (INE) indicate that in Spain cardiovascular disease, rather than cancer and other pathologies with a high rate of mortality, is the leading cause of death, responsible for 30% of deaths, and that the incidence in women is greater than in men.

According to the World Health Organization, the main reasons for this pandemic are bad eating habits, a sedentary life, smoking, and drinking alcohol.

A video was prepared as part of this campaign, entitled “Don’t get confused, knowing the symptoms could save your life”, so that women are able to detect the symptoms of a heart attack. During the video, the protagonist attributes the symptoms of the heart attack to other circumstances until she decides to call the emergency services.

Visit the website:
www.mujeresporelcorazon.org

Centro de Transfusión

Comunidad de Madrid

Cruz Roja Española

Por fuera, llevas una pequeña tirita.

Por dentro, un orgullo inmenso.

Blood donation at FCC

> This will help 240 people who are hospitalised and have to be treated with blood components

FCC and the Red Cross launched the first voluntary blood donation campaign for 2016 at FCC's Las Tablas and Federico Salmón headquarters as part of the Company's annual commitment to promote donations and facilitate the participation of the staff in this initiative that helps to save lives.

On this occasion, under the theme of the Red Cross "You wear a Band-Aid outside. Immense pride inside", 80 blood donations were made: 55 in the first three days of the campaign in Las Tablas, and another 25 in one morning at the Federico Salmón offices.

Donations are constantly required so that the blood bank remains stable. The involvement, collaboration, and solidarity of all people who can donate blood is necessary, as well as that of entities such as FCC and the Red Cross who provide the means and resources to facilitate blood donations at the workplace.

The Red Cross has launched a spot to highlight the importance of the donor, the recipient, and of everyone who makes it possible for blood to reach the places where it is needed.

Watch the spot

infraestructuras medioambiente agua

En 100 años prestando servicios a los ciudadanos hemos visto cambiar muchas cosas, la primera de ellas al propio ciudadano.

En FCC diseñamos y construimos infraestructuras, recogemos, reciclamos y valorizamos residuos urbanos e industriales, limpiamos calles, cuidamos parques y jardines, mantenemos el mobiliario urbano y gestionamos el agua en 5.000 municipios de todo el mundo desde hace más de 100 años. Al principio éramos unos pocos preocupados porque millones de personas disfrutasen de un lugar mejor donde vivir. Hoy son esos millones de personas los primeros que se preocupan por crear un lugar mejor donde vivir.

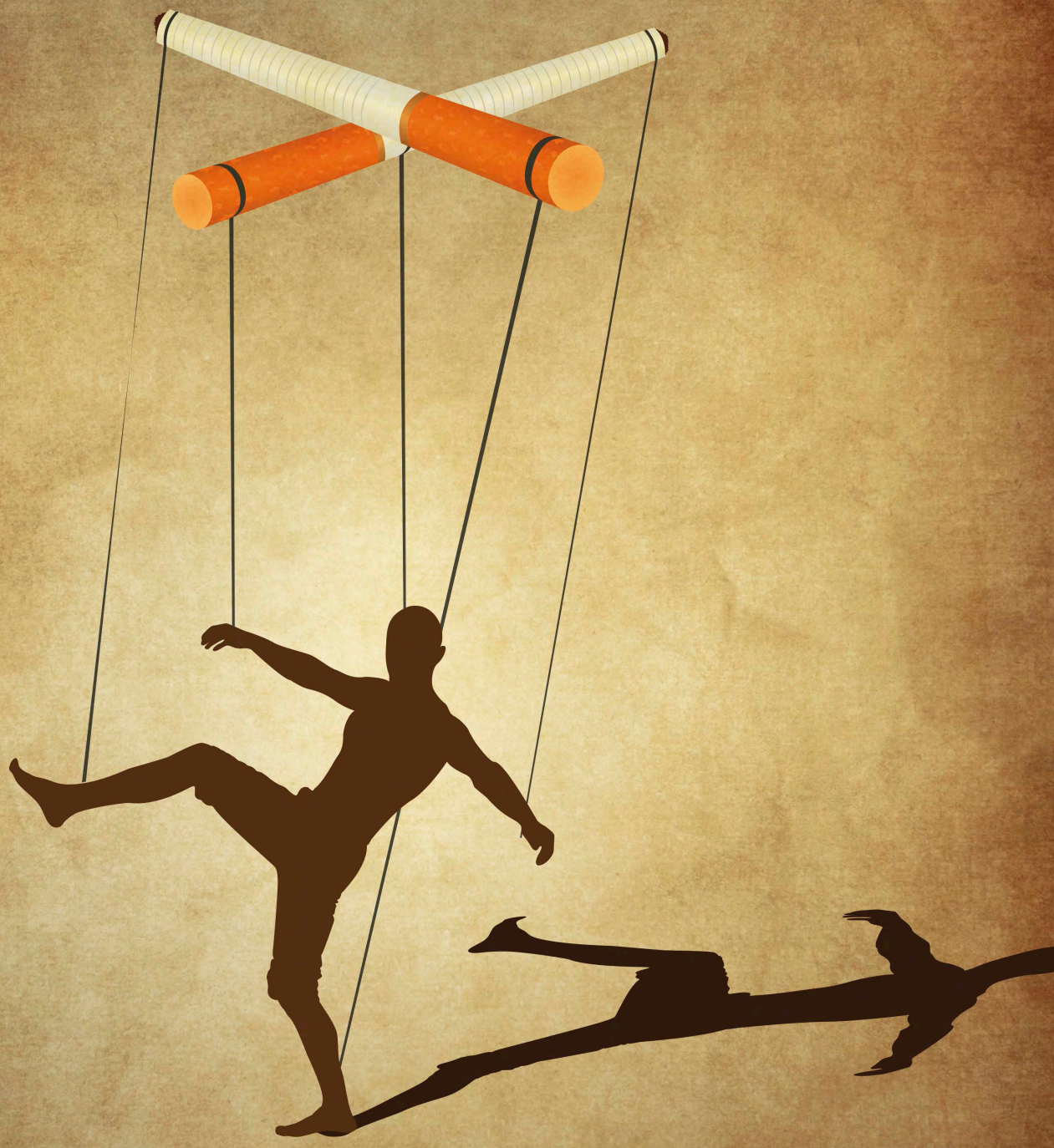
Lo estamos haciendo juntos.

www.fcc.es

FCC Servicios Ciudadanos

31 DE MAYO

DÍA MUNDIAL SIN TABACO



QUE NADA TE MANEJE

FCC
Servicios Ciudadanos

World No Tobacco Day

Once again FCC participates in the World No Tobacco Day held worldwide on 31 May. The objective is to create awareness on the health hazards associated with smoking and to promote the implementation of efficient public policies to tobacco consumption.

Quitting smoking significantly improves the quality of life from the health and economic standpoint. Recovering lung capacity, the sense of taste and smell, the positive effects on the skin and dental health, the sharp reduction of the possibilities of developing cardio-respiratory problems are some of the most important benefits stressed by the World Health Organization of quitting smoking.

FCC also joins the campaign launched by the WHO and the Framework Convention on Tobacco Control of its Secretariat which calls on all countries to get ready for plain packaging of tobacco products. Plain packaging is an important measure to reduce the attractiveness of tobacco products, restricts the use of packages for advertising and promoting tobacco, limits misleading packaging and labelling, and increases the effectiveness of health warnings.

OMS Campaing

World No Tabacco Day 2016: Get ready for plain packaging

Watch Link

Download the posters

Watch Link

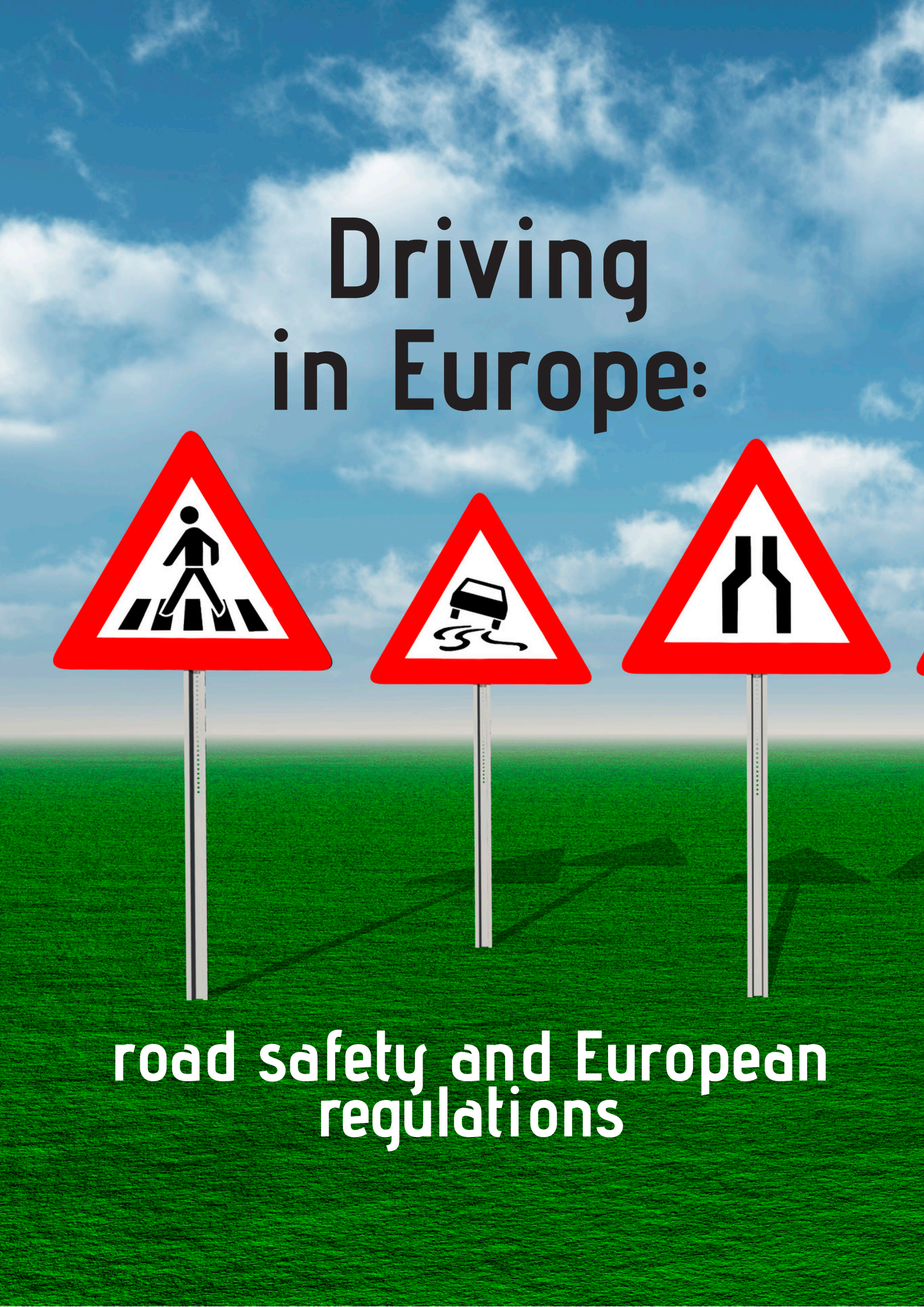
Link:
Pdf Seven tips to quit smoking, making the road easier

Do you want to quit?
FCC's Medical Services can give you advice and help you.
Phone 91 314 24 29

Quitting smoking is possible. For you. For those around you.

seguro que sí

Driving in Europe:



road safety and European regulations

Improving road safety is one of the prime objectives of the European Union's transport policy. The objective is to reduce road fatalities by 50% by the year 2020.

To this end, it is necessary to increase the safety of drivers and of infrastructures through a combination of national cooperation measures, the exchange good practices, research, studies, and awareness campaigns and, in some cases, regulation. An important element of this policy is the coherent application of sanctions for traffic offenses in any of the Member States that considerably endanger road safety. Hence, the EU Directive 2015/413 of the European Parliament and of the Council of 11 March 2015 facilitates the cross-border exchange of information on road-safety-related traffic offences.

In order to ensure that all offending drivers, residents or non-residents in each of the Member States, the Directive contemplates a cross-border exchange of information system for eight types of traffic offences which enable access to data of the vehicle that broke the law.

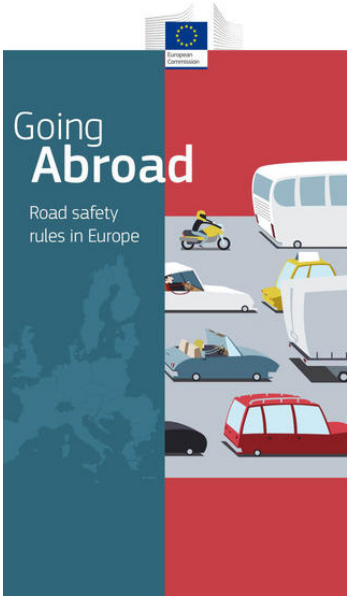
This Directive applies to the following road-safety-related traffic offences:

1. Speeding;
2. Failing to use a seat-belt;
3. Failing to stop at a red traffic light;
4. Drink-driving;
5. Driving under the influence of drugs (with the presence of drugs in the organism);
6. Failing to use a safety helmet;
7. The use of a forbidden lane;
8. Illegal use of a mobile telephone or any other communication devices while driving.

The applicable traffic law will be that of the Member State where the offence takes place.

When travelling, it is important to know the traffic regulations of each country since some of the basic rules could vary from place to place: the rate of alcohol; exceptions with regards to the obligation of using a seat-belt; speed limits; the use of the bicycle lane or the emergency lane; the use of safety helmets by drivers and bicycle riders, or the obligation of driving with dipped headlights during the day. There are also differences in the types of offences and the sanctions for breaching the regulations such as using the mobile phone while driving or failing a drug test.

Going Abroad



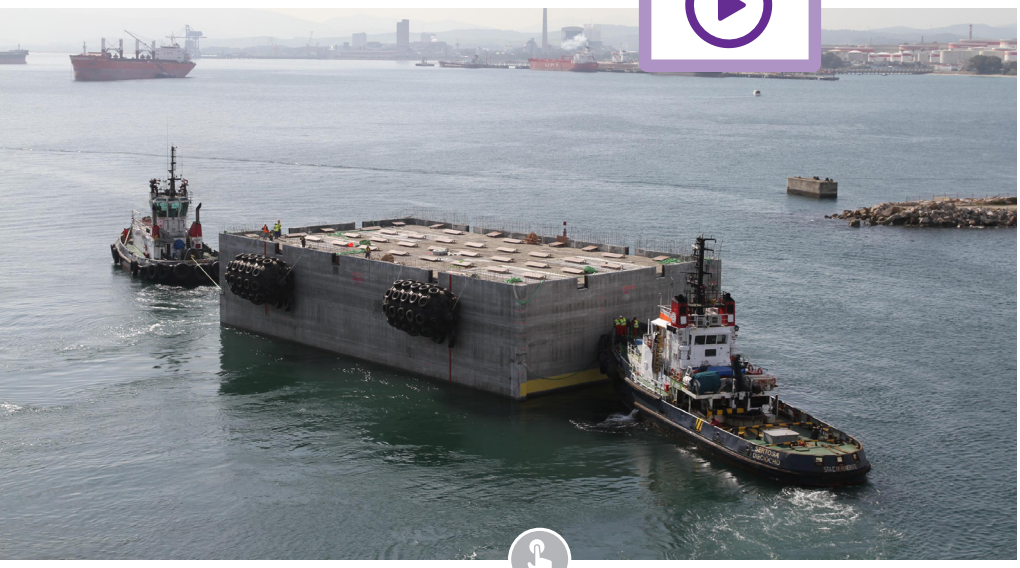
The European Transport Commission offers a free app for mobiles called "Going Abroad", available in 22 languages, containing all the relevant information for tourists on European traffic regulations. You can access and download this app or obtain further information in the European Commission or in DGT respective websites.

Knowledge

Engineering in harmony with the sea

The floating breakwater of Monaco, the largest of its kind worldwide.

Navigation, as a human activity, goes back for thousands years. Ships and navigation infrastructure have evolved over time to meet commercial, military, fishing and recreational needs of mankind. This has happened at a pace consistent with the development of knowledge of the marine environment and its unique characteristics. Advances in marine engineering have resulted in deep transformations of ports over centuries. Modern-day constructions are designed to meet the current and future demands of the global economy and market, particularly in terms of logistics.



Many of the most important maritime works that have been built recently around the world bear the FCC Construcción seal, such as the new Port of Açu in Brazil, the third largest in the world and the largest in America.

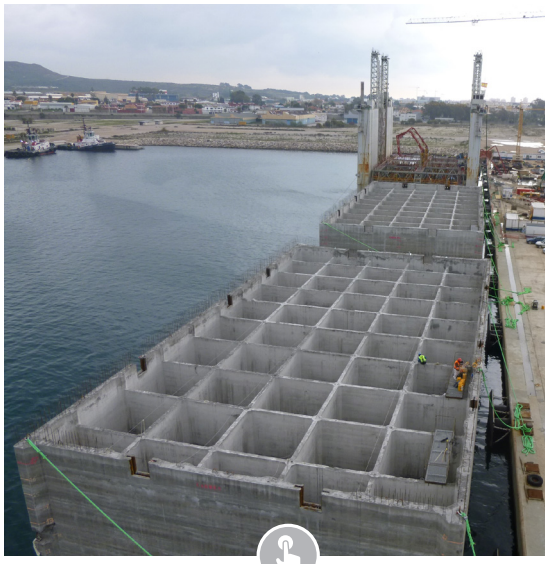
Modern ports are characterised by their response to the rapid evolution of fleets, such as the spectacular growth of container ships and their capacity to operate increasingly efficient goods-handling equipment. Today's ports take shape through a set of highly specialised terminals connected to land transport networks to form a genuine intermodal logistics node. The ongoing improvement of breakwaters, navigation channels, berthing structures and cargo and passengers' handling systems and equipment is made possible thanks to engineering expertise capable of overcoming even the most difficult challenges.

For more than 30 years, FCC Construcción has been at the forefront of development in this sector, implementing innovative solutions on technically complex maritime works. It uses its own equipment and an experienced workforce to deliver each project whilst guaranteeing the highest standards of quality, safety and adherence to deadlines. With an extensive portfolio of works, FCC Construcción has secured its position as one of the leading international companies in the sector. This collection of projects includes the construction and modernisation of breakwaters, quays and jetties, commercial, military and fishing ports, marinas and other infrastructure such as navigation locks, natural gas storage tanks or gas pipelines.

One project that is particularly noteworthy is the floating breakwater of Monaco, the largest of its type worldwide. This fantastic piece of engineering is in fact a double-hull reinforced concrete ship 352 metres long with a displacement of 165,000 tons. The floating breakwater has enabled the principality to improve the sheltering of the Port of La Condamine and significantly boost its capacity.

The world's most prominent ports

Many of the most important maritime works that have been built recently around the world bear the FCC Construcción seal. The new Port of Açu in Brazil, which is the



third largest in the world and the largest in America, is an example of this. On the project, the company led the construction of a 2,438-m breakwater by sinking 49 floating reinforced concrete caissons, sheltering existing mineral bulk berths and providing three new berths for an oil terminal. Compared to alternative techniques the use of reinforced concrete floating caissons for the Port of Açu proved beneficial, delivering considerable savings on costs, deadlines and the use of natural materials thereby minimising environmental impact.

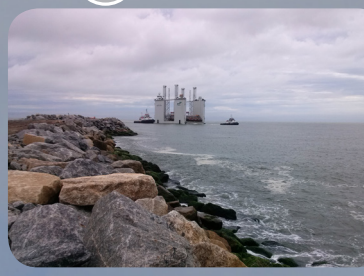
At the Peruvian port of El Callao, one of the most important on the Pacific Ocean, the company has been building a new container terminal, which is part of the refurbishment project of quays 5 and 11 and the construction of the corresponding buildings. These works, on which more than 1,600 people (95% local manpower) were employed during peak periods, will enable the port to offer new services and improve its logistics offer.

In Spain, FCC Construcción is leading a strategic project to reorganise and boost port activity in Cadiz by building a new container terminal (with a surface area of 22 hectares, a 590-m-long quay wall and

a breakwater stretching 320 metres) at the city's port.

Continuous innovation

Maritime works are challenging because of the technical complications posed by the maritime environment and determined by storms, tides, the complex phenomena of wave-soil interaction and the severe environmental conditions that challenge the durability of the infrastructure. The research, development and innovation (R+D+i) activities carried out by FCC Construcción help in the development and implementation of the best possible solutions for each situation. An example is its patent for low-reflection vertical wall for caissons for



Mar de Aneto, the floating dry-dock designed for building breakwaters, docks, and jettiesis 46.8 metres long and 32 metres wide.

Aerial view of Cadiz Harbour.

breakwaters and berthing structures, which has been successfully implemented in numerous projects.

The company is also spearheading the Investigación Integral sobre Islas Sostenibles (Comprehensive Research on Sustainable Islands, IISIS) project. The project focuses on researching aspects of engineering, construction and advanced materials for unique structures in open sea are that subject to extreme climate and environmental conditions, as well as their exploitation to obtain energy from waves and currents. The DOVICAIM project, which is also ongoing, will facilitate resources and models to analyse placement manoeuvres of caissons in open sea. This is regarded as one of the highest risk stages in these processes.

FCC Construcción's strategy to address current and future challenges of maritime works is about continuously seeking cutting-edge solutions that help maritime infrastructure reach ever greater heights.

The Mar del Enol floating dry-dock was used for the firfst time to manufacture the caissons for the Port of Açu (Brazil).

The port of El Callao, situated on the easternmost part of Lima, is considered the most important one in Pery and the largest in the South Amercian Pacific coast.

Floating dry-docks for caisson construction

FCC Construcción makes continuous efforts in terms of investment and development to ensure it has access to its own highly advanced means of implementation. This allows for a high degree of independence and service quality on the projects it undertakes. Included among these assets are the floating dry-docks 'Mar del Teide', 'Mar del Aneto' and 'Mar del Enol', as well as the stone dumping barge 'Acanto'.

The company's floating dry-docks, which are designed for the construction of floating reinforced concrete caissons can be towed by sea to the location of works, have played significant role in its latest maritime projects. In the construction of the Port of Açu project in Brazil, FCC Construcción used both 'Mar del Aneto' and 'Mar del Enol', two enormous structures covering an area half the size of a football field and measuring more than 25 metres, to manufacture 40 out of all the 49 caissons required to build the dock. These structures are between 46 and 59 metres long, up to 29 metres wide, up to 35 metres high and weigh close to 10,000 tons (without ballast).Caisson manufacturing on the dry-docks takes between seven and ten days.

It is also important to mention that the first 11 caissons for the Port of Açu were casted in Algeciras (Spain) and transported by sea to Brazil on semi-submersible boats alongside with the floating dry-docks. Their placement allowed for the generation of a temporary sheltered area so that the floating docks could start to safely manufacture the remaining caissons in optimal conditions.

Interview with:

Francisco Esteban Lefler

Technical director of FCC's Technical Services, chair of ATPYC, the National Spanish Section of the World Association of Waterborne Transport Infrastructures (PIANC).

What is the edge that sets FCC apart on maritime works?

Our distinguishing value is based on the combination of technical knowledge of maritime engineering itself together with the necessary geotechnical and structural engineering; availability of our own equipment to implement the projects, designed and developed closely by the company and operated and managed by internal specialists; as well as the training of highly specialized construction teams. Other factors also play an important role, as the critical analysis of subsequent experiences, the search for fields where the generation of knowledge can enhance our competitive edge, as well as focusing our innovative activities on management and mitigation of the risks. Also worth mentioning is the orientation to client needs, placing us in optimal conditions to achieve the goals of every project.

How has the sector evolved in recent years?

The maritime construction sector has evolved dramatically over the last few decades. We have also made progress in terms of knowledge of the dynamic interaction between waves, structures and soils, in the reliability of marine climate, in underwater survey methods, and in construction equipment. The development of logistical aspects driven by the need to drop costs and manage just in time supplies, as well as the opportunities that arise from Big Data, have fostered the fast evolution of fleets, good-handling equipment and challenging intermodal requirements.

How does the company see the future of maritime works? What will the next challenge be?

The future of on-shore maritime works will be determined by the market, basically by the evolution of demand resulting from global commerce, as well as by the capacity and adaptability of existing infrastructure to address future demand. From the perspective of sustainability and minimising the environmental impact, the main priority will always be to boost the infrastructure available in order to achieve optimal productivity. Doing this requires prioritising specialist terminals over general purpose ones.

In any case, the evolution of the projects will focus on the basic priorities of each geographical region, with works in the interior of the harbour basins in places where there is an excess of sheltered water, such as in Spain, or larger draughts in natural harbours that have exceeded their capacity such as in America. A new common field for all geographical areas will be the construction of small Liquefied Natural Gas terminals and the adaptation of current facilities for bunkering to meet market demand.

What is the focus of R+D+i at FCC Construcción?

R+D+i at FCC Construcción is focused on improving the company's competitiveness. In the field of maritime works, the aims are basically centred on technology related to floating reinforced concrete caissons. In this regard, emphasis can be placed on two key lines. On one hand improving their performance and functional conditions with the aim of expanding their applicability to a wider range of situations On the other hand, reducing construction-related risks and managing information on the maritime climate in order to reduce the risk of accidents and increase the reliability of operations. In executing R+D+i projects, the Company counts with the collaboration of engineering companies, universities, and technological institutes that are renowned worldwide.

What projects and innovative solutions is the Company working on?

We have just finished the IISIS project (Comprehensive Research on Sustainable Islands) in which we have made progress on new marine construction technology and the dynamic interaction between waves and structures, including the generation of wave energy, as well as on sustainable modular building technology. We are currently working on the DOVICAIM Project (Methodology for the design and optimisation of the lifecycle of caissons in maritime infrastructure), on which Environmental Hydraulics Institute of Cantabria. This project is geared towards generating knowledge and analytical tools of the different construction phases of floating reinforced concrete caissons.

What is PIANC?

PIANC is the "World Association for Waterborne Transport Infrastructure", which is the global reference technical organisation for ports and navigation channels, both river and maritime. In addition to its management bodies it has four Technical Commissions: Maritime (MarCom), Inland Navigation (InCom), Recreational Navigation (RecCom) and Environmental (EnviCom). The commissions set up working groups formed by world standard specialists in technical areas. These working groups release publications that serve as the main global reference for port and waterway engineering.

What is your role at PIANC?

Since May 2011, I have held the position of Chairperson of the Maritime Commission (MarCom), which is responsible for maritime ports and navigation channels. In June 2015, I also took the chair of the Technical Association of Ports and Coasts (ATPYC) which, as I previously stated, serves as the Spanish Section of PIANC.

How does PIANC contribute to FCC?

First, it entails an active presence in terms of management, as Chairperson of the Maritime Commission, in selecting issues to address, in creating and developing working groups and producing benchmark technical publications that are published by PIANC. It facilitates direct access to the most current technical topics from the moment they are selected to be studied to the publication of results, whilst maintaining a strong presence throughout their development. It guarantees access to future technological trends and challenges.

The global technical scope thanks to PIANC enables FCC Construcción to be recognised as a benchmark company in maritime work technology by potential clients, leading engineering companies in the market and labs, universities and prestigious technological institutes across five continents. It also promotes FCC's skills and highlights its technical expertise and commitment to excellence. It also involves tapping into the expertise of prospective partners and their skills in the construction, engineering and technology sectors to participate in tenders and other globally renowned calls for proposals.

SAMCEW©, proprietary methodology to assess the sustainability of our civil engineering work projects

FCC Construcción has developed SAMCEW© (Sustainability Assessment Method for Civil Engineering Works), a proprietary methodology to assess the sustainability of our civil engineering works (and area of influence).

SAMCEW© is a self-assessment and grading system that can be used on works as an internal management programme to plan construction works, identify required improvements and share progress in applied sustainability practices.

The methodology contemplates the environmental, social and economical aspects of the sustainability model at each stage of the life cycle of the civil works.

The Company designed a flexible and customisable assessment method that can be applied to different types of civil engineering works with different characteristics and in different locations.

SAMCEW© comprises 15 categories:

Each category entails a number of issues which aim to measure the impact of civil engineering works on three sustainability aspects. Therefore, the issues involve concepts that users have to assess by answering related questions. Projects obtain points in each category according to the answers given.

A new feature of the SAMCEW© is that the importance of each category is customised according to the characteristics of each project. As such, to establish a weighting system for the project categories, an initial questionnaire needs to be completed, which contemplates aspects such as the type of civil engineering works assessed, the location, and the natural and social environment of such works, as well as the stages to be assessed.

Optimising the sustainability of infrastructures is possible if based on knowledge of the current situation, an aspect in which assessment tools such as SAMCEW© play a key role. This is our responsible way of understanding the construction business, incorporating the sustainable development of the societies in which we operate into our projects and strategies, generating value for our groups of interest, the local communities with which we interact and, in particular, for future generations.

This new system is based on the work carried out by international civil engineers from ISO's "Sustainability in Civil Works" and CEN working groups, both chaired by FCC Construcción, on the experience acquired from implementing the Management and Sustainability System in our projects, and on the internationally recognised methods for assessing the sustainability of existing infrastructures.

The first of the three prototypes of the Cleanwater project installed at the El Toyo Wastewater Treatment Plant (WWTP) in Almeria

The objective of the project is to implement and market a new water disinfection technology based on the generation of chlorine at the premises. The other two prototypes will installed shortly at the Fresneda (Ciudad Real) DWTP and the Racons (Alicante) desalination plant.

The El Toyo treatment plant in Almeria was the location chosen for the installation of the first Cleanwater 3000 prototype, one of the three Cleanwater Project models that will be installed and tested. A business plan will be prepared based on the results to assess the potential clients for the application of this innovative electrochemical membrane.

FCC Aqualia, in collaboration with the French company Ceram Hyd, is developing the European Cleanwater project for the application and marketing of a new water disinfection technology based on the generation of chlorine on site. This process could replace conventional disinfection systems based on the use of chlorine gas or sodium hypochlorite, thereby reducing the impact on the environment and improving the safety of the treatment plants.

This revolutionary procedure uses a new ion-exchange membrane with high conductivity and durability properties, thereby eliminating the need for transporting and storing hazardous chemical compounds at the facilities. A chlorine derivative with great disinfection capabilities is generated on site by using common table salt and with minimum consumption of electricity.

The possibility is also being considered of reducing the generation during the chlorination process of organochlorine and trihalomethane, by-products that pose a threat to human health and which are subject to strict environmental regulations and water quality directives.

The project includes a demonstration of the disinfection technology at an industrial scale for three different applications: water re-use, production, and desalination. Three FCC-Aqualia-managed facilities have been selected for these demonstrations: the Fresneda drinking water treatment facility (Ciudad Real), the Racons (Alicante) desalination plant, and the El Toyo (Almeria) wastewater treatment plant.

The project, with a budget of 1.66 million euros, is 50% co-funded by the ECO-INNOVATION Initiative of the European Union. By developing this project, FCC Aqualia, a partner and contributor of 342,387 euros, reinforces its commitment to finding sustainable and efficient systems that benefit modern societies.

Leader

in advanced technical installations

FCC Industrial is a technology company with more than 25 years' experience in the deployment of complex projects involving electromechanical installations and systems. These projects are vital in critical infrastructures in the transport sector (road and railway tunnels, buildings). During these years, we have installed intelligent transportation systems (ITS) in more than 30 roads and highways (> 1,150 km) and in more than 90 (> 110 km).

FCC Industrial executes hierarchically complete projects, covering the entire cycle (design, manufacturing, supply, installation, and testing) and all the technical aspects of installations (electrical, mechanical, systems, communications, safety, and management centres).

Road tunnels are governed by technical regulations pursuant to European Directive 2004/54/CE y el R.D. 635/06. The following building blocks are included in the complete ITS installation in tunnels:

- Control Centre, traffic management software (SCADA).
- Communications network: Gigabit networks, fibre optic transport, and radio-communications (TETRA).
- Variable Message Signs (VMS): in roads and inside tunnels.
- Video-surveillance: closed-circuit television (CCTV) and automatic incident detection systems (AID).
- Environmental monitoring: pollution levels (CO, NOx, opacity), visibility, luminance at tunnel mouths, humidity, speed, wind direction, etc.
- Control stations: tunnels (ERU) and traffic counter (ADR).
- SOS emergency posts and loudspeaker systems.
- Electromechanical lighting and ventilation installations.
- Power supply (MT y BT): distribution, transformation centres, generators.

Tunnels are critical infrastructures and, accordingly, its pain tubes, accesses, and emergency galleries are supervised by adaptive algorithms which are able to regulate ventilation, lighting, and safety systems in real time. The most critical module is the fire detection and extinguishing systems that coordinate all the technical sub-systems of the tunnel and in charge of maintaining overall safety, facilitating evacuation plans for drivers and reducing the impact on the infrastructures as much as possible.

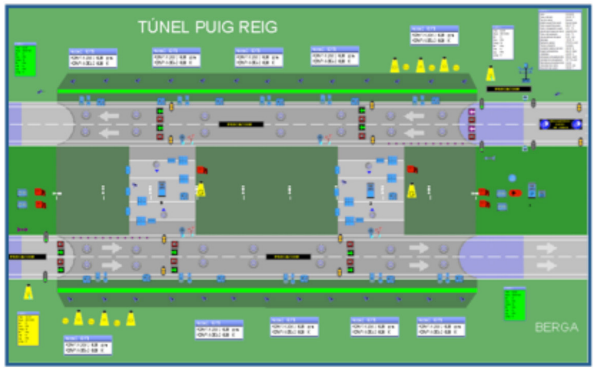
Traffic management, SCUT toll, Control of 30 tunnels in the ER-1 express road and Control Centre in Funchal (Madeira-Portugal, VIALITORAL).

Traffic management, control of 6 tunnels n A23 and the Monrepós management centre (Huesca-Spain, Ministry of Public Works).

Proprietary technology

FCC Industrial has proprietary technology for the smart transport sector, developed by our Systems Division as part of several R+D+i programs. The AVANZA platform of FCC Industrial has a wide range of innovative products incorporating the most advanced electronics, communications, and software.

- AVANZA management applications: SCADA control software, GMAO maintenance management.
- Control equipment: ERU tunnel control station, ADR traffic counter stations, SOS emergency posts.



SCADA AVANZA control software modules for tunnels.

ADR 4500 traffic counters and control station.

Main projects

FCC Industrial has deployed comprehensive projects involving electromechanical installations, safety systems and control centres for road and railway tunnels and service galleries. The following are some examples of these projects:

- Traffic management, SCUT toll, Control of 30 tunnels in the ER-1 express road and Control Centre in Funchal (Madeira-Portugal, VIALITORAL).
- Traffic management, shadow toll, control of 18 tunnels in the C16, C17, C25 roads, and the Puig-Reig control centre (Barcelona-Spain, CEDINSA).
- Traffic management, control of 6 tunnels n A23 and the Monrepós management centre (Huesca-Spain, Ministry of Public Works).
- Traffic management system and control of six tunnels on the Nuevo Necaxa-Tihuatlán Motorway (Puebla- Mexico, AUNETI).
- Comprehensive management of lighting, energy efficiency, traffic lights and underground galleries (150 km) (Madrid City Council-Spain).
- Civil Protection and Safety facilities at the Vigo-Das Maceiras high speed railway tunnel (Pontevedra-Spain, ADIF).

Q&A:
José Ismael Gómez Lucena

Manager of FCC Industrial's Systems Department

Tunnel management systems have advanced over the last decade. What have been the most important? What does FCC Industrial contribute to these advances? What is FCC Industrial's expertise in these projects?

Without a doubt, tunnel management systems have made great advances in this millennium. The key technological innovations in electronics, communications and software have been reflected in the architecture of these systems. Installations in new tunnels are now totally digitalised: intelligent video-surveillance, Gigabit high-capacity optic fibre networks, emergency VoIP SOS posts, and automatic decision and control algorithms.

Also worth mentioning is the advanced regulatory framework as a result of the application of European safety directives (2004/54/CE) in Spanish road tunnels and the subsequent export of this technical model worldwide.

FCC Industrial has more than 25 years' experience in this sector. We have engineers, experts, and specialist project managers. Our company has been able to develop a wide range of products and a proprietary technological platform.

What is FCC Industrial's portfolio in these products? What is the Company's strategy in this respect from an international perspective?

FCC Industrial has an innovative technological platform, the result of the research and development activity of the Systems Division. Of the products in our portfolio, we would highlight:

- The SCADA tunnel control and management application (AVANZA).
- Automatic monitoring systems for technical tunnel installations (ERU).
- High precision traffic and classification (ADR).

FCC Industrial has been implementing this technology in several international projects such as Estrada Regional ER-1 Madeira (Portugal), Vidin-Calafat Bridge (Bulgaria-Romania), and Nuevo Necaxa – Tihuatlán (Mexico) highway. We are currently involved in several international tender processes in Chile, Colombia and Mexico.

Having our proprietary technical solution gives us a great competitive edge, enabling us to build solutions with greater added value and controlled risk.

What are the advantages of tunnel management systems in terms of the environment, the safety of the driver, and energy savings?

The objective of current tunnel management systems is to improve the environment as well as increase energy efficiency and reduce electricity consumption. Automatic algorithms regulate the interior and exterior lighting of the tunnel, adapting it to weather and environmental conditions and ventilation is controlled automatically taking into account levels of pollution (CO, NOx, Opacity levels), traffic (intensity and type of traffic), and critical fire emergency situations.

Road safety is the lynchpin of all decision-making and automatic regulation strategies.

Tunnels are fitted with artificial vision incident detection and exhaustive video-surveillance (CCTV) at the moth, interior and galleries of the tunnel. The fire-protection systems comprise sensor cables (fibre optic DTS) capable of detecting any sign of fire (hot and cold smoke) and activate the extinguishing systems according to the safety protocols defined in the Operations Manual.

What are the particularities and advantages of FCC Industrial's proprietary technology? Can this technology be extrapolated to the management of galleries, railways, and other infrastructures?

It should be noted that FCC Industrial has been developing its technology platform for a couple of decades and that we have implemented it in more than 90 tunnels and that we are continuing to develop our fourth generation. Therefore, this technology has a long-track record.

We believe that we have been able to incorporate the advanced knowledge of many clients in our products and that we have built a very friendly and easy-to-use technology.

The FCC Industrial platform is capable of monitoring all types of critical and complex infrastructures (railways, tramways, bridges, galleries, buildings, industrial complexes). It is precisely in these areas where we are focusing our research and development efforts.

infraestructuras > medioambiente > agua

Día Mundial del Agua 2013
Año Internacional de la Cooperación en la Esfera del Agua

El agua es sinónimo de vida. Y para nosotros también de innovación, responsabilidad y compromiso.

En FCC, a través de Aqualia, llevamos mucho tiempo trabajando en el ciclo integral del agua en más de 1000 poblaciones de todo el mundo. Pensando en sus millones de habitantes, incorporamos las últimas tecnologías que facilitan una gestión eficiente y sostenible. Y así, entre todos, haremos de cada ciudad un lugar mejor donde vivir.

Lo estamos haciendo juntos.

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aqualia

fcc
Servicios Ciudadanos

FCC, chosen as the sole provider

of General Services for all Renault-Nissan Alliance factories in the Iberian Peninsula

The contract awarded contemplates cleaning services, overall maintenance of the firefighting systems, and gardening

FCC Medio Ambiente continues to expand its sphere of action nationwide and internationally. Last Spring and as a result of the work of the FCC Castile and León branch offices, managed by Javier Rivas Gavela, and the Barcelona branch, with Xavier Martin Garriga and Xavier Grau Alafont at the helm, the Group secured a contract for providing General Services at all the factories of the car manufacturer, Renault-Nissan Iberia Alliance, in Spain and Portugal.

The five—year contract worth approximately 52 million euros in turnover, represents a unique challenge for the company since it must combine the provision of various types of quality services – where safety and the absence of incidences is a key objective – with the fact that these services must be provided throughout the entire Iberian Peninsula.

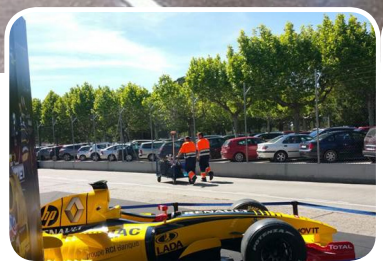
> "Represents a historical contract for the company"

FCC will be in charge of providing cleaning services at all of the Renault-Nissan Alliance locations in Spain and Portugal, such as the factories in Palencia, Valladolid, Ávila, Madrid, Seville, Barcelona, Cantabria, Moncada and Cacia (Portugal). The Company will also perform general maintenance of the fire—prevention systems, in addition to gardening services in several of the abovementioned factories.

Professionalism and experience

The Environment Division's broad and professional experience, demonstrated over the years in cleaning auto factories, was one of the keys for securing the contract. In 2008, the Castile and León branch won a contract put out to tender for cleaning services at Renault's factory in Palencia, the first one ever awarded to this branch for cleaning factories. This involves extremely technical work that has a bearing on the final quality of the vehicle.

LINEA ÁRBOL 1 y 2
T16
MANTENIMIENTO



> FCC will provide cleaning services at all Renault-Nissan Alliance locations, including Palencia, Valladolid, Ávila, Madrid, Seville, Barcelona, Cantabria, Moncada and Cacia (Portugal)

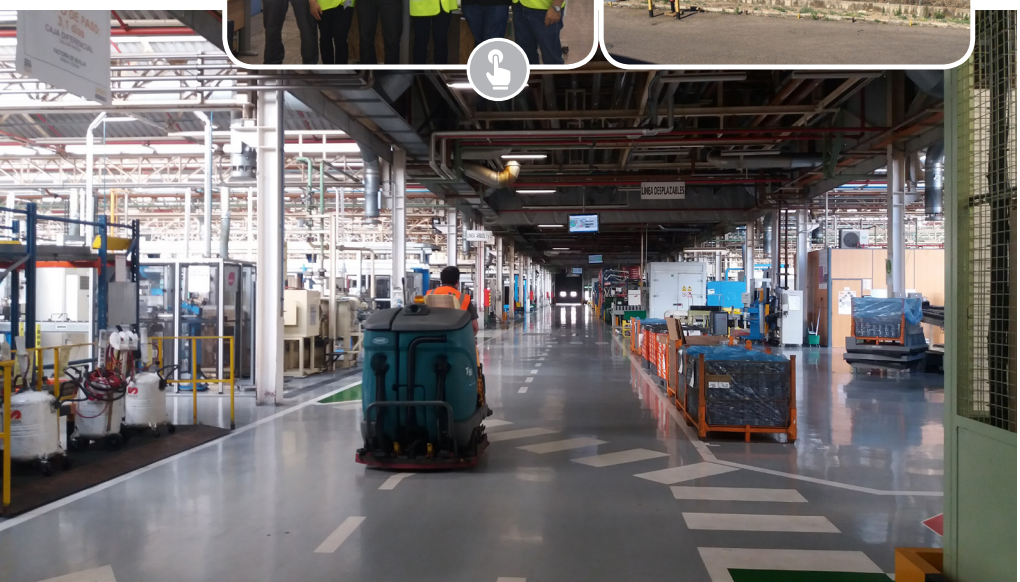
Thanks to the great results in Palencia, where production increased and a great work team with exceptional expertise was formed, in 2011, the Renault-Nissan Alliance renewed the contract and decided to expand the service to the Valladolid and Seville factories.

In the following years, FCC continued to optimise its services, offering new innovative solutions that cemented the relations with the Renault-Nissan Alliance. In the beginning of 2015, the car manufacturer put out to tender a contract for ancillary services at its automobile factories in Spain and Portugal that was to be awarded to a sole service provider.

The process

The tender process began in February 2015. The Castile and León branch, managed by Javier Rivas Gavela, and the one in Barcelona, with Xavier Martin Garriga and Xavier Grau Alafont at the helm, joined forces to prepare the proposals that were submitted at the end of August. The proposals contemplated the provision of 39 services.

Following the first classification in October, only 4 of the 12 companies bidding for the contract remained in the negotiation process with Renault Nissan Purchasing (RNPO). FCC was subsequently selected as the company with the best technical proposal. The proposal improved upon the services provided at the factories where the Company was working already. After reaching an agreement on the financial aspects of the operation with the World and European Corporate Management of the Renault-Nissan Alliance, FCC was chosen as the sole supplier. For the Company, this represents is a historical contract.



infraestructuras > medioambiente > agua

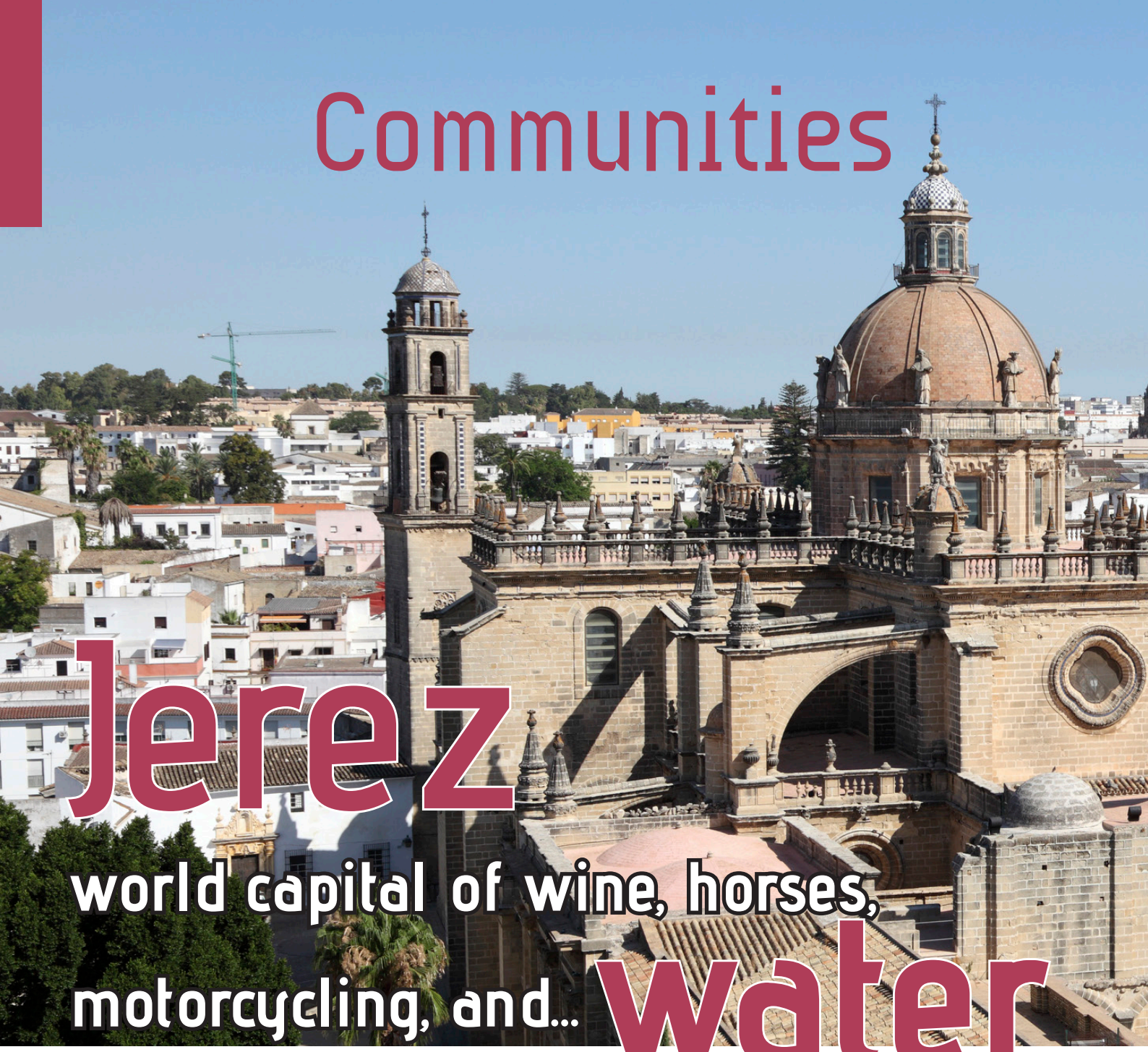
La ciudad es el lugar en el que vives. Nosotros trabajamos para que también sea el lugar en el que quieres vivir.

En FCC trabajamos día a día gestionando el agua, encargándonos de la limpieza viaria y del mantenimiento de las zonas verdes; así como de los residuos, algunos de los cuales los convertimos en fuente energética. Cada día más ciudadanos cuidan el lugar donde viven y así mejoran la calidad de vida de todos. Y nosotros colaboramos a que se sientan orgullosos de su gran hogar.

Lo estamos haciendo juntos.

www.fcc.es

FCC
Servicios Ciudadanos



Jerez world capital of wine, horses, motorcycling, and... water

Jerez de la Frontera, the world capital of wine, horses, and motorcycling, is also the world capital of water for hosting the 13th IWA LET (Leading Edge Technologies) Congress, one of the most prestigious international events in the sector.

The city in the province of Cadiz, often chosen by leading institutions and companies to host important conferences, became the world capital of water from 13 to 16 June when it hosted the 13th edition of IWA LET. Promoted by FCC Aqualia, the selection was particularly important for the region since water is a highly valued resource for its residents and essential for the regions social and business development.

Those attending the congress enjoyed the qualities of Jerez from the first day. The welcome reception was held at the Santo Domingo cloister in the city's historic district. This is one of the most important sites in the city, considered one of the gems of Gothic architecture and one of the first temples built outside the city walls during the Reconquista.

The city of Jerez de la Frontera exudes the distinctive aroma of the south of Spain. Situated 30 kilometres from Cadiz, home to 212,876 people, this Andalusian city has the largest population in the province. Wine, horses, flamenco, its passion for motorcycling and a splendid climate, are the main attractions of the city which combines its magnificent history, cultural heritage and tradition, with contemporary routines.

Its present marked by its history

According to the findings of historians to date, the Phoenicians gave the city its

FCC Aqualia, manager of the city's Municipal Water Service, was one of the organizing entities of the IWA LET Congress

name, calling it "Xera". Later, in the age of the Reconquista and due to its location as the frontier between the Kingdoms of Castile and Granada, where skirmishes and conflicts were common, "la Frontera" (the Frontier) was added to its name. At that time, between the 13th and 14th-centuries, the city was already famous for the quality of its wines.

Following the discovery of America and the conquest of Granada, Jerez de la Frontera became one of the most prosperous cities in Andalusia thanks to its proximity to the ports in Seville and Cadiz that burst with

> Wines and horses are two of the symbols of this city in the province of Cadiz. A historic heritage that the city has nurtured, protected, and promoted

trading activity with the American colonies. It was during this period that the Jerez race of horses, known as "Cartujana" was created and named in hour of the Cartuja de Santa María de la Defensión (Carthusian Monastery) whose monks raised horses during many centuries until the ecclesiastical confiscations of Mendizábal.

Wine and horses are two of the symbols of this city in the province of Cadiz; a historic heritage that with the passage of time has been nurtured, protected and promoted. The aromas of regional gastronomy are bathed in the wine tradition of Jerez. One of the most outstanding of these wines are those with the Jerez-Xérès-Sherry designation of origin and the various derivative products, such as Jerez vinegar and Jerez brandy, also bearing the designation of origin label. Such is the importance of wine Jerez that the wine industry had a major impact on the urban landscape between the 18th and the 20th-centuries where an industrial belt, consisting of wineries, was built around the city that was later absorbed during the urban expansion in recent years.

Raising of the Cartujana breed of horses is also intimately bound to the development of Jerez de la Frontera. Every month of May, the city celebrates the Horse Fair, also known as the Jerez Fair, a festivity that has been declared on International Touristic Interest and where the absolute protagonists are the horses and the riders. Horse strolls and competitions take place during the seven days of the fair in which the typical dishes of Jerez (hot garlic, chicharrones, kidneys with Jerez wine, and fried fish) are always present, accompanied by Flamenco music and dance.

Motorcycling, a passion in Jerez

Very different from the sound of a Spanish guitar playing Flamenco music, is the sound of a motorcycle racing at 300 km/hr.

Although it may seem strange, both sounds are heard in unison at least during one week of the year. The Jerez Speed Circuit is the venue for the Spanish Motorcycling

Grand Prix which is the magnet for more than 100000 fans at the grandstands and more than 200,000 people in the streets of the city and in nearby towns.

The Grand Prix in Jerez is one of the most famous in the World MotoGP calendar and has a great impact in the world of motorcycles and one of the events that pilots look forward to achieve victory.

The passion for motorcycling in Jerez de la Frontera was rewarded when the city was named World Motorcycling Capital in 2015 by the Federation of International Motorcycling (FIM).

Group photo at the welcome reception at the Santo Domingo cloisters. From left to right: Helmut Kroiss; Fernando Morcillo; a representative from Jerez City Council; Mamen Sánchez; Enrique Reina, manager of Aquajerez; Lucas Díaz, director of Zone III; José Antonio Díaz, councillor for Sustainability, Participation, and Mobility at the Jerez City Council; Félix Parra, managing director of FCC Aqualia; Santiago Galván , councillor for the Economy and Public Finance at the Jerez City Council; Santiago Lafuente, manager of FCC Aqualia España; and, Francisco Jiménez, manager of FCC Aqualia's Andalusia II branch office.

> "More than 500 scientists, researchers, and managers from universities, public entities and private operators were present at the congress"

Water

rather than wine, plays the leading role in Jerez

The city of Jerez, where FCC Aqualia operates through Aquajerez, the concession holder of the city's municipal water service, hosted the IWA LET Congress on 13, 14, 15 and 16 June. More than 500 scientists from five continents gathered at the event to discuss the technological challenges of water management.

The event, whose theme was "Evaluating Impacts of Innovation", was organised by the International Water Association (IWA), Asociación Española de Abastecimientos de Agua y Saneamiento (Spanish Association of Water Supply and Sanitation, AEAS), the University of Santiago de Compostela (USC), and FCC Aqualia.

More than 500 scientists, researchers and managers from universities, public entities, and private operators gathered at the 13th IWA (Leading Edge Technologies) Congress during three days in the city of Jerez de la Frontera (Cadiz).

Great success in attendance and in its organization

The event was a great success, not only because of the number of attendants, but also due to the high level of the presentations and the high level of satisfaction in respect to the organization.

The conference hall at Hotel Guadalete during the inauguration ceremony.

In the photograph, FCC Aqualia's R+D team with the first Volkswagen UP of the All-gas project unveiled at the Congress.

> "This congress exemplifies the added value that FCC Aqualia offers in the territories where it operates"

On the evening of Monday 3, a reception was organized by the Jerez City at the Santo Domingo Cloisters for all the guests. During her speech, Mamen Sánchez, the city's mayor, expressed her satisfaction for having the city hosted such an important international event. According to the calculations of the City Council, the economic impact of the event on the city amounted to more than half a million euros.

The participants in the inauguration included Fernando Morcillo, chair of AEAS and the Congress organizing committee; Helmut Kroiss, chair of IWA, and Mark van Loosdrencht, chair of the scientific committee, in addition the mayor of Jerez.

Eight themes included in the program

The scientific program focused on four main themes: sustainable desalination; circular economy – recovery of water, energy and nutrients; solar and algal based water technologies; energy efficient water and wastewater treatment; contaminants of emerging concern: antibiotics resistance, microbiological hazards, nanopollutants; advanced materials – nanotechnology and new membranes; smart management of water and assets; and microbial electrochemical technologies.

The organizers of the Congress, IWA, Asociación Española de Abastecimientos de Agua y Saneamiento (AEAS), Aqualia and the University of Santiago de Compostela, prepared a complete social program with daily activities, such as the welcome reception, a tapas-tasting tour, a horse show, and a gala dinner at the González Byass winery.

They also organised several technical visits to the Centro de Nuevas Tecnologías del Agua (New Water Technologies Centre, CENTA), the La Ranilla wastewater treatment plant, and the All-gas project facilities at the Chiclana wastewater treatment plant where the first Volkswagen Up car, powered with biogas from the plant, was unveiled.

This congress, of great social and economic value for Jerez and which places it in the limelight, is an example of the added value that FCC Aqualia (in this case, through Aquajerez, the operator in the city) offers to the territories where it operates, value that goes beyond the day-to-day technical management of the public service provided in the municipalities.

Several Spanish cities and towns where

FCC Medio Ambiente

conducts its activities win awards for being the cleanest

Broom Awards 2016

La Concha Beach in San Sebastian benefits from the reduction of CO_2 emissions.

The cities of Oviedo, Vigo, San Sebastian, Granada and the towns of Laredo (Cantabria), Llanera and Colunga (Asturias) and Almuñécar (Granada), where FCC Medio Ambiente operates, were recognised by Asociación Técnica para la Gestión de Residuos y Medio Ambiente (ATEGRUS) in the 2016 Silver, Gold and Platinum Awards, given to the localities that stand out for their waste management and urban cleanliness.

The award ceremony, held on 16 June during the International Urbanism and Environment Fair (TECMA) 2016, brought together several authorities and managers form the sector. Mexico's ambassador to Spain, Roberta Lajous Vargas, and the ambassador from the Republic of Argentina, Federico Ramón Puerta, presided over the event accompanied by the managing director of IFEMA; Fermín Lucas, the general coordinator of the Environment, Sustainability and Mobility of the Madrid City Council, José Antonio Díaz, the chair of the National Association of Environment Public Companies, Rafael Arjona, and by Rafael Apraiz, vice chairman of ATEGRUS.

> The significant presence of Mexican cities and entities is the result of the intense activity conducted by ATEGRUS in Latin America

A contest dedicated to the environment

To date, more than 600 prizes have been awarded through this initiative that was born in 1987 to commemorate European Year of the Environment. On this occasion, there was a wide representation of Mexican municipalities underscoring the close relations of ATEGRUS with Latin American countries as evidenced by the celebration of several Latin American Congresses since 1984 and the ALINVEST Industrial European-Latin American Cooperation Program in place since 2002.

The contest focuses on municipalities, provincial councils, city councils, municipal associations, autonomous regions, engineering companies, environmental consultants, manufacturers of capital goods, and urban waste and cleaning management facilities, universities, etc.

The competition aims to assess and to recognise the measures and works carried out to improve or defend waste management, urban cleanliness in general in our cities and industries, rewarding the efforts and projects to stimulate technological advances and to create awareness that contribute to improving our quality of life and the sustainability of our cities and industries.

San Sebastián, Oviedo, Vigo, Laredo, Llanera, Colunga, Almuñecar and the Provincial Council of Granada among the award-winners

San Sebastian City Council
For the large fleet of electric vehicles used for cleaning the city that has contributed to reducing CO_2 emissions by 140 tons per year.

Oviedo City Council
For its constant improvement in the quality of this service, with greater mechanisation of the work by using the latest generation equipment, sound-proof and with great performance that are greatly adapted to the city's structure.

Vigo City Council
For removing glass recycling bins in the historic district, providing restaurants with small containers that are picked up by a special vehicle in an established schedule, thereby facilitating glass recycling by the sector.

Laredo City Council
For the pavement scraping service. Using the appropriate machinery, the pavement is scraped superficially, without damaging it, making it possible to obtain an optimal level of cleanliness without leaving any stains.

Llanera City Council
For its special plastic waste collection, with prior notice, from the livestock sector. This program has created awareness in this sector when separating their waste at the source, increasing the town's rate of recycling.

Colunga City Council
For implementing a cleaning service in clandestine landfill sites in the town, allocating the material and human resources required for their elimination.

Latest generation equipment used to clean the city of Oviedo.

The personnel from the Vigo service with Abel Caballero, the city's mayor, express their pride for receiving the award.

Laredo (Cantabria).

Colunga (Asturias).

Llanera (Asturias).

Almuñécar (Granada).

Granada Provincial Council.

Granada Provincial Council
For Ecocentral Granada, a facility for the treatment of all types of waste collected at households. The upgrading and automation of their facilities have contributed to significantly increasing the rate of recovery of recyclable materials in municipal waste.

Almuñécar City Council
For implementing the HORECA system, collecting waste door-to-door, at restaurants that are not able to access recycling sites, removing it personally and coordinating the collection with their opening hours, making the process more efficient.

FCC Medio Ambiente, at the 2nd edition of the Cities Forum

FCC Medio Ambiente took part in the second edition of the Cities Forum Madrid through Asociación de Empresas de Jardinería (Association of Gardening Companies, ASEJA). Raúl Pérez Vega, manager of FCC Medio Ambiente's Madrid branch office and a member of ASEJA's Board of Directors, made a presentation in the panel of experts on "The five quality of life elements in cities".

The main perspectives and innovations on sustainability and wellbeing in urban spaces were the key topics of the second edition of Cities Forum Madrid, organised by IFEMA (Feria de Madrid). During the three days of the event, the program covered all topics on the multidisciplinary management of these surroundings where sustainable environmental management appears to be one of the keys for transformations aimed at improving the quality of life of people.

FCC was present at the Forum, represented by Raúl Pérez Vega, manager of FCC Medio Ambiente's Madrid branch office who participated as a representative of ASEJA, an association of which he is a member of the Board of Directors and of which the Group is a founding member.

His presentation in the panel of expert versed on "The five quality of life elements in cities'. The theme of this presentation was focused from the perspectives of urban barks and gardens. He discussed the most relevant aspects for the green areas of cities in connection with the protection of natural urban diversity, universal accessibility to the surroundings, social inclusion, cultural management and the different strategies for living in healthy cities.
The head of the Madrid branch highlighted the different tools and the measures implemented to improve accessibility and the inclusion of all people in the cities and its parks, especially children's parks, designed as a place for socialising and communicating, all of which contributes to stimulating children for their development and learning.

Raul Pérez Vega also underscored the role of city gardens as artistic elements that create added cultural and touristic value and as venues for hosting events. He also highlighted the role of green areas in urban centres in improving the health of residents since they act as the lung of cities thereby regulating the temperature and reducing noise and air pollution.

> "Urban green spaces as sites for socialising and for cultural and artistic exchange, biodiversity reserves and natural lungs, areas for accessibility and inclusion"