

# Catalan Exhibitors

## Smart City

Expo World Congress 2019



**Generalitat de Catalunya**  
Government of Catalonia



**Ajuntament de  
Barcelona**



**AMB** Àrea Metropolitana  
de Barcelona



**We make the  
connections,  
you build your  
business**

## **Catalonia**Connects

Catalan cities are pioneers in the adoption of smart solutions for urban management, with public and private initiatives developing internationally recognised strategies and municipal projects.

Innovative and advanced technologies, competitive business service providers, and talented and skilled professionals, all combine to make **Barcelona** a leading business and investment hub.

With over 30 years' experience, **Catalonia Trade & Investment** is the Catalan Government agency for foreign investment and business competitiveness. Its specialised one-stop-shop services include project management, sectorial and legal information, location, partner and technology sourcing, funding options, and mobility and recruitment services.

[catalonia.com](http://catalonia.com)

**Catalonia** &  
**Trade & Investment**



 **Generalitat de Catalunya**  
Government of Catalonia

# Catalan Exhibitors

## Smart City

Expo World Congress 2019

# Introduction

## CATALONIA, A SOLID SMART CITY ECOSYSTEM

In recent years, Catalonia and its cities have become forerunners in the field of smart cities, adopting smart solutions for urban management, with public and private initiatives developing internationally recognized strategies and municipal projects. When very few people had even heard about smart cities, Barcelona, for example, had already begun to forge the first alliances with key sector companies. Since 2011, the Smart City Expo World Congress, a unique meeting point for the whole smart city ecosystem, has further contributed to make it happen.

In less than ten years, the Smart City Expo World Congress has become the world's leading event for forward-looking cities and regions, offering a better future for their citizens worldwide. This year's event will focus on five main challenges facing cities all over the world: Digital Transformation, Urban Environment, Mobility, Governance & Finance, and Inclusive & Sharing Cities. This edition is likely to exceed the figures for 2018 and strengthen the smart community across the world and open new paths for international collaboration.

Catalonia, as a pioneer territory in this field, is set to tackle all these issues, thanks to the strong smart city ecosystem which stands out for its critical mass and multiple assets that reinforce it: cutting-edge technology centres, innovative companies providing real solutions in different continents, numerous startups, etc.

This catalogue contains information on over 50 Catalan companies that are attending this Congress. They clearly demonstrate the capacities of the Catalan business fabric involved in ICTs and smart cities, promoting Catalonia as a technological, business and investment hub in the Smart City sector, especially with regard to mobility, lightning and waste.

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**GOVERNMENT  
OF CATALONIA**  
**Stand D413**  
**Companies**  
(Business park)

# Speakers' corner

## Tuesday, 19th November

- 09.00 h** **Stand Opening**  
*Throughout the day: Screening of the video "Ciutat del futur"*  
*Projections: 9 h, 10 h, 11 h, 12 h, 13 h, 14 h, 15 h, 16 h, 17 h, 18 h*
- 13.00 h** **Inauguration of The City of the Future stand**  
*ÀGORA*
- 16.35 h** **Assessing urban circularity: development and application of a multi-scale circular economy model in the Metropolitan Area of Barcelona**  
*Speaker: Maria José Amores Barrero, Project Manager and Researcher at Environment, Society and Economy area, CETAQUA*
- 17.00 h** **SMART CITY EXPO WORLS CONGRESS Institutional inauguration**

## Wednesday, 20th November

- 09.00 h** **Stand Opening**  
*Throughout the day: Screening of the video "Ciutat del futur"*  
*Projections: 9 h, 10 h, 11 h, 12 h, 13 h, 14 h, 15 h, 16 h, 17 h, 18 h*
- 09.00 h** **Mobilitzant el ciutadà per reciclar gràcies a el mòbil i els incentius**  
*Speakers: Daniel Menchaca, Innovation Specialist de Ecoembes Marc Melús, Project Manager de Blue Room Innovation Gemma Arroyo, Local Management Specialist de Ecoembes en Catalunya*

- 10.30 h** **Mapping of the Smart Cities Ecosystem in Catalonia (in Catalan)**  
*Speakers: Joan Romero, CEO ACCIÓ Pilar Conesa, Founder & CEO, Anteverti*
- 11.00 h** **Presentation of the Catalonia Smart City Solutions Catalogue**  
*Speaker: Jara Forcadell, Manager Smart City, Doxa Innova & Smart*
- 12.35 h** **Presentation of the main conclusions of the joint workshops by Department of**

## Territory and Sustainability and UNHABITAT CRPP

*Speakers: Marc Darder, Technical Cabinet Chief, Departament of Territory and Sustainability, Government of Catalonia Amaia Celaya, Technical Coordinator UN- Habitat City Resilience Profiling Tool*

- 13.35 h** **Circular Economy Hotspot Catalonia 2020**  
*Speakers: Susanna Rivero, responsable d'Afers Exteriors i Cooperació, Departament de Territori i Sostenibilitat Aurea Rodríguez, directora d'Innovació d'ACCIÓ, Departament d' Empresa i Coneixement*
- 15.00h** **Smart BIM: Road C32 Case**  
*Speakers:Adriana Caballero, BIM Manager, IDP Ingeniería, Medio ambiente y Arquitectura Albert Rodríguez, Gerent Obres i Conservació Central, Autopistas Abertis*
- 16.00h** **Presentació del Projecte de digitalització de la mobilitat**  
*Speakers:Damià Calvet, conseller de Territori i Sostenibilitat Jordi Puigneró, conseller de Polítiques Digitals i Administració Pública*

- 17.00h** **Towards Sustainable Urban Ecosystems. An Earth Observation Approach**  
*Speakers: Jordi Corbera, cap de l'Àrea del Centre de Suport al Programa Català d'Observació de la Terra, Institut Cartogràfic i Geològic de Catalunya.*

- 18.00h** **Digital Twin Edar Cambrils**  
*Speaker: Jaime Polo i Juan Rubio, Plataforma para la Ingeniería 4.0 del Agua (IDP & SUEZ)*

- 18.30h** **Afterwork**

## Thursday, 21th November

- 09.00 h** **Stand Opening**  
*Throughout the day: Screening of the video "Ciutat del futur"*  
*Projections: 9 h, 10 h, 11 h, 12 h, 13 h, 14 h, 15 h, 16 h, 17 h, 18 h*
- 11.30 h** **Lliurament distintius SOCSMART i Presentació de l'estudi: l'impacte de la 5G a les ciutats**  
*Speaker: Dani Marco, director general d'Innovació i Economia Digital del Departament de Polítiques Digitals*

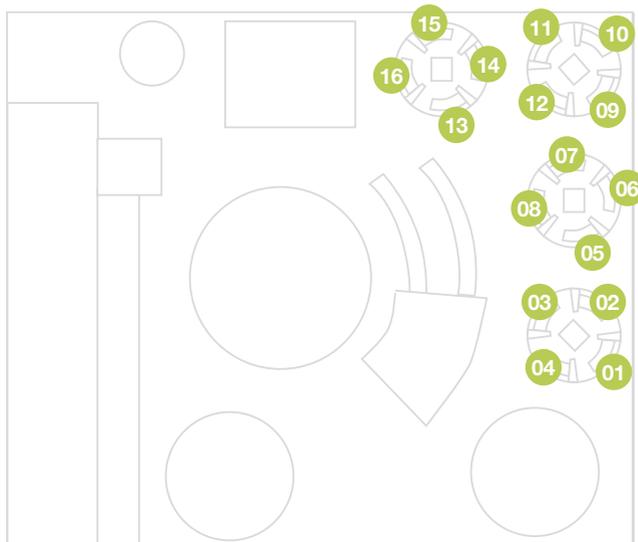
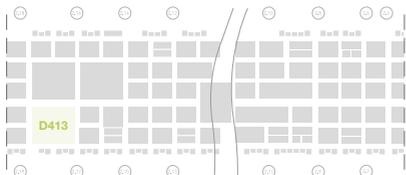


# The City of the Future

**SmartCatalonia** is the strategy of the Government of Catalonia that **extends the Smart City** concept on a national level. SmartCatalonia aims to make Catalonia an international “Smart Country” using digital information and technology to promote a **smarter, more sustainable and more inclusive society**.

# COMPANIES AT THE GOVERNMENT OF CATALONIA STAND (D413) (PARC EMPRESARIAL)

- |                 |                         |                 |                                      |
|-----------------|-------------------------|-----------------|--------------------------------------|
| <i>stand 05</i> | <b>BETTAIR</b>          | <i>stand 11</i> | <b>LEITAT</b>                        |
| <i>stand 03</i> | <b>BSC-CNS</b>          | <i>stand 04</i> | <b>MOBILE KNOWLEDGE</b>              |
| <i>stand 07</i> | <b>CIGO</b>             | <i>stand 02</i> | <b>ORAIN</b>                         |
| <i>stand 13</i> | <b>CITIBEATS</b>        | <i>stand 16</i> | <b>PARKUNLOAD</b>                    |
| <i>stand 06</i> | <b>CIVICITI</b>         | <i>stand 09</i> | <b>SENSING &amp; CONTROL SYSTEMS</b> |
| <i>stand 10</i> | <b>CTTC</b>             | <i>stand 15</i> | <b>SITEP</b>                         |
| <i>stand 12</i> | <b>EURECAT</b>          | <i>stand 14</i> | <b>STARLAB</b>                       |
| <i>stand 08</i> | <b>I2CAT FOUNDATION</b> | <i>stand 01</i> | <b>SUBMER</b>                        |



**Company**  
**BETTAIR CITIES**  
[www.bettaircities.com](http://www.bettaircities.com)

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**Contact**  
**Leonardo Santiago**  
[lsantiago@bettaircities.com](mailto:lsantiago@bettaircities.com)  
672 351 706

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**Stand**  
Government of Catalonia D413 - Stand 05

**Bettair Cities** is a hard tech company located in Barcelona with the unique purpose of providing a novel air quality mapping tool for cities with high accuracy and high spatial resolution.

**Description of services / products / technologies:**

The bettair<sup>®</sup> platform is an air quality mapping tool for cities. Our platform includes the gas sensor network, the software for cities and an APP for citizens. Our nodes provide very precise measurements of over 10 air quality indicators achieving over 90% of correlation when compared with traditional equipment, thanks to our post processing algorithms.



**Company**  
**BARCELONA SUPERCOMPUTING CENTER-CENTRO NACIONAL DE SUPERCOMPUTACIÓN (BSC-CNS)**  
[www.bsc.es](http://www.bsc.es)  
[www.class-project.eu](http://www.class-project.eu)

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[eduardo.quinones@bsc.es](mailto:eduardo.quinones@bsc.es)  
934 137 172

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**Stand**  
Government of Catalonia D413 - Stand 03

**Barcelona Supercomputing Center - Centro Nacional de Supercomputación (BSC-CNS)** it specialises in high performance computing (HPC) and manages MareNostrum, one of the most powerful supercomputers in Europe.

**Description of services / products / technologies:**

**CLASS** is developing a novel software architecture that allows for a productive design and deployment of systems based on advanced big-data analytics methods with real-time requirements along the compute continuum. It incorporates a challenging smart city use case in the city of Modena, ( Italy ), upon which the capabilities of the CLASS architecture are evaluated on connected car vehicles.



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**Company**

**CIGO**

**www.smart-cigo.com**

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**Contact**

**Eric Cabañas**

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676 475 453

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**Stand**

Government of Catalonia D413 - Stand 07

**Cigo** offers high-tech differential software solutions to smart mobility problems deployed on top of our own proprietary mobility management platform. We are specialised in the development of fully-customized B2B cloud applications.

**Description of services / products / technologies:**

Our three main areas of expertise are:

- Personalized route optimization and planning algorithms.
- Big data analytics.
- App development.

All of which we implement in our various solutions such as **My-TRAC**, which is a travel companion who learns from users behavior to enhance their trips. **CigoFleet** which is a route optimizer and fleet management application. **BestRoutes** which is a system that makes it possible for producers to transport parcels using regular bus lines.



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**Company**

**CITIBEATS**

**www.citibeats.net**

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652 361 840

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**Stand**

Government of Catalonia D413 - Stand 13

**Citybeats** is a social data intelligence platform that uses NLP and machine-learning to process large amounts of text data to detect social concerns and trends.

We help organisations to better understand and react faster to people's needs. A fastest and easiest way to turn text data into insights.

**Description of services / products / technologies:**

Digital transformation has changed the way people communicate opinions and thoughts, doing so via text and online. Companies and governments are struggling to understand that information. CITIBEATS transforms that social feedback from people into valuable insights, helping organisations to define better products and reducing their response time and costs.

## Company

**CIVICITI**

[www.civiciiti.com](http://www.civiciiti.com)

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## Contact

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935 417 128 / 690 654 336

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## Stand

Government of Catalonia D413 - Stand 06

**Civiciiti** is the worldwide leader in secure e-participation and e-voting solutions. Civiciiti products improve decision-making, citizen engagement and transparency for all types of governments and municipalities.

## Description of services / products / technologies:

**Civiciiti Engagement Platform** is a ground-breaking innovative solution that improves the interaction and communication between citizens and public authorities. Civiciiti features a highly customizable engagement platform, easily deployed, where cities can launch participatory budgets, secure consultations, forums, trouble tickets or surveys. Civiciiti is used by cities and governments worldwide as a way to engage, collaborate and communicate with their citizens.



## Company

**CENTRE TECNOLÒGIC DE  
TELECOMUNICACIONS DE  
CATALUNYA (CTTC)**

[www.cttc.es](http://www.cttc.es)

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## Contact

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936 452 920

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## Stand

Government of Catalonia D413 - Stand 10

The **CTTC** is a non-profit private research institution based in Castelldefels (Barcelona), resulting from a public initiative of the Regional Government of Catalonia (Generalitat de Catalunya).

## Description of services / products / technologies:

Research activities at the CTTC, both fundamental and applied, mainly focus on technologies related to the physical, data-link and network layers of communication systems, geomatics and positioning systems. CTTC has sound experience in exploring connectivity solutions for the IoT. Among other activities, we are participating in several European research projects. In particular, in this fair we will present the main results of the 5G-Solutions project.

**Company**

**EURECAT**

[www.eurecat.org](http://www.eurecat.org)

**Contact**

**Gemma Batlle**

[smartcityexpo@eurecat.org](mailto:smartcityexpo@eurecat.org)

608 974 774

**Stand**

Government of Catalonia D413 - Stand 12

**Eurecat** is the Technology Centre of Catalonia. We provide industry with differential technology and advanced expertis to foster innovation and boost companies' competitiveness in a fast-paced environment.

Our services are primarily focused on applied R&D, innovative technology solutions, highly specialized training, product and service development up to minimum viable products, fablabs and among others.

**Description of services / products / technologies:**

**MoTiV's** (Mobility and Time Value) main project goal isto contribute to advance research on VTT, the value of travel time by introducing and validating a conceptual framework for the estimation of VTT through a European-wide data collection.



**Company**

**I2CAT FOUNDATION**

[www.i2cat.net/en](http://www.i2cat.net/en)

**Contact**

**Susana Otero**

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605 696 426

**Stand**

Government of Catalonia D413 - Stand 08

**i2CAT Foundation** is a non-profit research and innovation center that promotes mission-driven R&D activities on advanced Internet architectures, applications and services. 15 years of international research define i2CAT's expertise in the fields of 5G, IoT, VR and Immersive Technologies, Cybersecurity, Blockchain, Open Big Data and AI.

**Description of services / products / technologies:**

The research center presents a high precision indoor location system that enhances the experience of grocery shopping for people suffering from vision impairment problems. The solution is based on VLC technology, which needs only commercial LED lights and a controller to send location data to a device equipped with a camera, typically a smartphone. Once the information is sent to the device, it will provide voiced information of the product we are pointing at and of the product's exact location.



**Company**  
**LEITAT TECHNOLOGICAL CENTER**  
**www.leitat.org**

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**Contact**  
**Julia Garcia**  
937 882 300  
jgarcia@leitat.org

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**Stand**  
Government of Catalonia D413 - Stand 11

**Leitat** is a private technical institute with more than 110 years of experience in industrial innovation processes. We bring knowledge and innovation to our customers through applied research and technical testing.

**Description of services / products / technologies:**

**Grow Green** is a European Horizon 2020 project that aims to create climate and water resilient, healthy and livable cities by investing in nature-based solutions (NBS). Making nature part of the urban living environment improves quality of life for all citizens and will help business to prosper. High quality green spaces and waterways provide innovative and inspiring solutions to major urban challenges, such as flooding, heat stress, drought, poor air quality and unemployment and will help biodiversity to flourish.



**Company**  
**MOBILE KNOWLEDGE**  
**www.themobileknowledge.com**

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**Contact**  
**Eric Leroux**  
eric.leroux@themobileknowledge.com  
629 544 552

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**Stand**  
Government of Catalonia D413 - Stand 04

**MobileKnowledge** is a team of HW, SW and system engineers, experts in smart, connected and secure technologies for the IoT world. We are your ideal engineering consultant for any specific support in connection with your IoT and NFC developments. We design and develop secure HW systems, embedded FW, mobile phone and secure cloud applications.

**Description of services / products / technologies:**

**MIFARE Service Management Platform (MSMP)** is a platform that will be able to digitize the hundreds of millions of existing MIFARE based contactless cards into those OEM devices that are already supporting NFC payments.

# orain

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## Company

**ORAIN**

[www.orain.io](http://www.orain.io)

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## Contact

**Izan Forca**

izan.forca@orain.io

648 692 654

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## Stand

Government of Catalonia D413 - Stand 02

**Orain** is an IoT network of self-service machines that enables human-machine communication through AI based chat and BI platform.

## Description of services / products / technologies:

Orain brings a layer of intelligence to all types of machines and improves human-machine interaction. The system can be integrated into all types of services: vending machines, tobacco vending machines, refrigerators, self-service washing machines, gas station, parking, etc.

This IoT system is the only global network of self-service machines that provides consumers with an app to pay with their mobile, receive refunds and access discounts, using Artificial Intelligence to enhance their purchase experience.

Machine operators also have a dashboard that facilitates the management of their marketing processes, data analysis and customer service.



## Company

**PARKUNLOAD**

[www.parkunload.com](http://www.parkunload.com)

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## Contact

**Roger Vilanou**

rvilanou@parkunload.com

662 157 628

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## Stand

Government of Catalonia D413 - Stand 16

**PARKUNLOAD®** is the most innovative, scalable and disruptive platform to improve city logistics with Smart Loading Zones”.

## Description of services / products / technologies:

PARKUNLOAD® is the most advanced platform to regulate and control restricted parking zones to perform loading and unloading operations in urban areas, by using smart traffic signs and mobile applications. PARKUNLOAD® manages vehicles’ parking permit and maximum parking-time depending on several criteria, such as: vehicle emissions, vehicle type and vehicle tonnage, vehicle use, accurate parking location and schedule (peak hours).

**Company**  
**SENSING & CONTROL SYSTEMS**  
**www.sensingcontrol.com**

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**Contact**  
**Pedro Espinel**  
pedro.espinel@sensingcontrol.com  
648 692 654

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**Stand**  
Government of Catalonia D413 - Stand 09

**Sensing & Control Systems** offers IoT solutions to government, manufacturing, telecom, utilities, healthcare, construction and logistics. Our services include Artificial Intelligence, Big Data, Open Data, Analytics, Actuation, Notifications, etc.

**Description of services / products / technologies:**

- a) Asset tracking for controlling vehicle fleets (e.g. police) and public transportation.
- b) Supply chain to improve efficiency on the delivery of goods within the city seeking pollution reduction.
- c) Smart Metering (water) for local government (municipalities) controlling the supply seeking cost reduction and offering value added to the users.

**Company**  
**STARLAB BARCELONA**  
**www.starlab.es**

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**Contact**  
**Mirta Rodriguez**  
mirta.pinilla@starlab.es  
932 540 366

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**Stand**  
Government of Catalonia D413 - Stand 14

**Starlab** integrates satellite data, in situ data, model outputs, crowdsourced data and machine learning techniques. Our products turn data into useful information for better decision making, providing a competitive edge for our customers in the urban market, from city authorities to regulatory bodies, to the real-estate sector, among others.

**Description of services / products / technologies:**

**GreenDEX** is an innovative quality of life indicator at urban level. Based on scientifically validated data such as the vegetation index observed from satellite sensors, GreenDEX quantifies the vegetation around a property.

The GreenDEX platform (<https://greendex.es/>) allows users to select a property and then calculates the amount of surrounding green space.



Company

**SISTEMAS DE INFORMACIÓN  
TERRITORIAL Y POSICIONAMIENTO  
(SITEP)**

[www.sitep.com](http://www.sitep.com)

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Contact

**Miquel Àngel Rodríguez**

[marodriguez@sitep.com](mailto:marodriguez@sitep.com)

933 20 82 15

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Stand

Government of Catalonia D413 - Stand 15

**SITEP** is a GIS & ICT engineering firm specializing in consultancy, development and implementation of custom-made computer systems for land management. Twenty years of collaboration with public entities and private companies endorse us as specialists in the treatment, analysis and implementation of geographic information data.

*Description of services / products / technologies:*

The knowledge gained has allowed us to develop a Mobile Mapping division focused on integral engineering projects, providing innovative solutions to customers in multiple sectors. Starting from the customer's needs, we provide comprehensive project management, from the design of the aerial platform to the delivery of the processed data.



Company

**SUBMER**

[www.submer.com](http://www.submer.com)

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Contact

**Matteo Mezzanotte**

[matteo@submer.com](mailto:matteo@submer.com)

695 805 079

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Stand

Government of Catalonia D413 - Stand 01

At **Submer**, we believe that technology innovation doesn't have to contradict sustainable development.

Submer was founded in 2015 by Daniel Pope and Pol Valls to make operating and constructing datacenters more sustainable.

*Description of services / products / technologies:*

**Cooling** is the single biggest challenge for datacenters, HPC Supercomputer applications, and Hyperscale deployments.

In 2018, Submer came out of R&D and brought the SmartPod Immersion Cooling system to market, delivering unprecedented levels of compute efficiency to the datacenters.

Submer is proud to bring to SMWC 2019 its SmartPodX, the very first commercially available OCP compatible Immersion Cooling system.

# DEMO

## Companies

# COMPANIES AT THE GOVERNMENT OF CATALONIA STAND (D413) WITH DEMOSTRATIONS

stand 03 AIGÜES DE BARCELONA

stand 06 AMTU

stand 04 ATM - AUTORITAT AUTORITAT DEL  
METROPOLITÀ DEL TRANSPORT

stand 15 CESVA

stand 11 DIGALIX SOLUTIONS

stand 08 ECOEMBES

stand 13 ÉKRATOS DIGITAL SERVICE

stand 05 (FGC)

stand 16 I2CAT

stand 07 MOBA

stand 01 PAL ROBOTICS

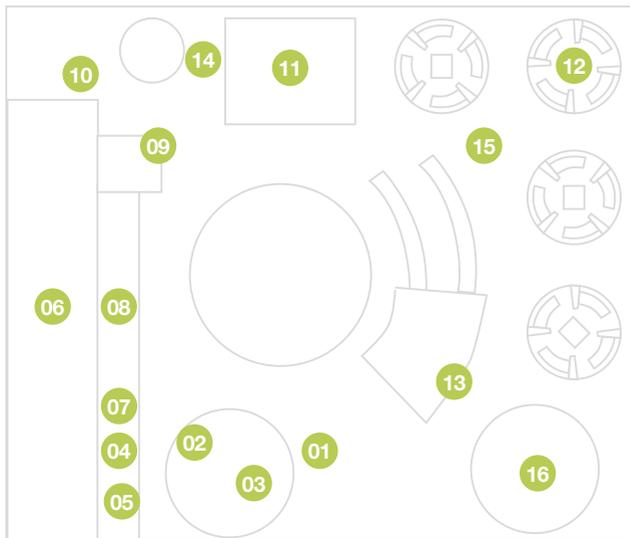
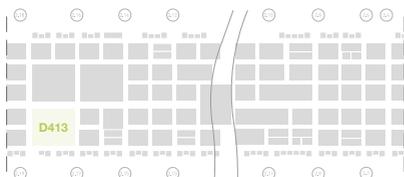
stand 12 BUSINESS PARK

stand 14 SUSTAINABILITY PROJECTS

stand 10 SIARQ

stand 09 VADECITY

stand 02 VYSION 360



**Company**

**AIGÜES DE BARCELONA**

<https://www.aiguesdebarcelona.cat>

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**Contact**

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935 219 777

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**Stand**

Government of Catalonia D413

**Aigües de Barcelona** is a Catalan company dedicated to services, distribution and water treatment. The company was founded in 1867.ort and infrastructures.

**Description of services / products / technologies:**

**The Zone of Hope of Aigües de Barcelona**

allows us to live in the first person the effects of climate change through a virtual trip in time.



**Company**

**AMTU**

[www.amtu.cat](http://www.amtu.cat)

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**Contact**

**Joan Prat**

amtu@amtu.cat

931 598 483

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**Stand**

Government of Catalonia D413

**AMTU** is an association that represents more than 100 city councils, which work together to improve mobility and public transport in Catalonia. Our technical department is also in charge of advising our partners or external clients on issues related to mobility, public transport and infrastructures.

**Description of services / products / technologies:**

**ERICA** is the first driverless bus in Catalonia.

During the Catalan Autonomous Bus Tour 2018, ERICA traveled around 8 Catalan cities, and transported more than 15,000 people. Now it has come back to Catalonia for anyone who wants to try it during Smartcity.

Company

**ATM - AUTORITAT DEL  
TRANSPORT METROPOLITÀ**  
[www.atm.cat](http://www.atm.cat)

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Contact

**Marta Vancells**  
[mvancells@atm.cat](mailto:mvancells@atm.cat)  
667 081 899

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Stand

Government of Catalonia D413

The **ATM** is the regional mobility authority for the area of Barcelona. The Consortium is made up of the Catalan Government and local authorities: the Barcelona City Council, the Barcelona Metropolitan Area and the Association of Municipalities AMTU.

Description of services / products / technologies:

The public transport marquee at the Government of Catalonia Generalitat de Catalunya stand will be displaying a component of the T-mobilitat project's contactless validation system (via NFC mobile phone or card), which is envisaged to be launched in 2020.

Company

**CESVA**  
[www.cesva.com](http://www.cesva.com)

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Contact

**Marçal Serra**  
[ms@cesva.com](mailto:ms@cesva.com)  
934 335 240

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Stand

Government of Catalonia D413

**CESVA**, has been working to provide solutions to manage noise problems helping to protect the environment and improving people's quality of life.

Description of services / products / technologies:

**TA120 Noise Sensor:** The TA120 noise measuring sensor brings together in a small sized single piece of equipment, the accuracy of a Class 1 sound level meter and full connectivity with major open source platforms like Sentilo or Fiware.

**NoisePlatform** is an on-line platform that displays and dynamically analyses, in real time, the noise measured by a network of sensors that can monitor the entire area affected by noise generating activities such as heavy traffic, railways, among others.



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**Company**  
**DigaliX Solutions**  
**www.digalix.com**

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**Contact**  
**Toni Mayorgas**  
tonimayorgas@digalix.com  
635 38 96 25

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**Stand**  
Government of Catalonia D413

**DIGALIX** offers innovative solutions based on interactive technologies, multimedia resources and customized development for different business areas: education, e-health, showrooms, hospitality, events, real estate and museums.

**Description of services / products / technologies:**

The immersive room is a way to experience virtual reality collectively. With the immersive projection it is possible to achieve a group experience, and also to make contact with other people without traveling and reduce the ecological footprint caused by CO2 emissions. You can convert your space in the classroom, exhibition room, work room or artistic project. But spectacularity and creativity are also added. In one occasion, we showed how the immersive projection can be a tool to enrich the gastronomic experience and involve all the senses in the history and the creation of each dish.



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**Company**  
**ECOEMBES**  
**www.ecoembes.com**

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**Contact**  
**Cristina Muñoz**  
c.munoz@ecoembes.com  
609 742 736

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**Stand**  
Government of Catalonia D413

**Ecoembes** is the organization that cares for the environment through recycling and the eco-design of packaging in Spain. It makes it possible for plastic packaging, cans and cartons (yellow container) and for paper and cardboard packaging (blue container) to have a second life.

**Description of services / products / technologies:**

**TheCircularLab**, the circular economy innovation laboratory of Ecoembes, has launched a pioneering technology initiative with the aim to increase public awareness of recycling in Spain: "RECICLOS". A project that investigates new alternatives to mobilize citizens in recycling, using technology. The first RECICLOS pilot is already being tested in Catalonia, in collaboration with the Government of Catalonia.

## Company

**ÉKRATOS DIGITAL SERVICES**  
**www.ekratos.org**

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## Contact

**Ramon Pons**

rpons@ekratos.org  
638 397 370 / 620 297 742

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## Stand

Government of Catalonia D413

**éKratos** is a new Electronic Voting Platform, conceived with blockchain technology, for collective consultations in public and private organizations.

With this platform both on-site voting in an electronic ballot box and virtual voting in any electronic device (cell phone, tablet and computer) can take place at the same time. In this way, electronic participation is accessible to anyone, independently of his or her skills with the latest technologies.

## Description of services / products / technologies:

We will present our platform, performing a demo to show how it works and its different applications.



## Company

**FERROCARRILS DE LA GENERALITAT DE CATALUNYA (FGC)**  
**www.fgc.cat**

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## Contact

**Núria Codina**

ncodina@fgc.cat  
933 663 057

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## Stand

Government of Catalonia D413

## Ferrocarrils de la Generalitat de Catalunya

is a public company associated to the Territory and Sustainability Department of the Government of Catalonia.

## Description of services / products / technologies:

We will focus on 4 key areas:

- **Sustainable Mobility:** promoting energy switch by fostering the use of renewable energies.
- **Innovation:** technology and innovation to improve efficiency and sustainability.
- **International projection:** intensifying collaboration with other countries.
- **Organization and People:** placing people at the centre of its actions.



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**Company**  
**i2CAT FOUNDATION**  
[www.i2cat.net/en](http://www.i2cat.net/en)

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**Contact**  
**Susana Otero**  
[susana.otero@i2cat.net](mailto:susana.otero@i2cat.net)  
605 696 426

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**Stand**  
Government of Catalonia D413

**i2CAT Foundation** is a non-profit research and innovation center that promotes mission-driven R&D activities on advanced Internet architectures, applications and services. 15 years of international research define i2CAT's expertise in the fields of 5G, IoT, VR and Immersive Technologies, Cybersecurity, Blockchain, Open Big Data and AI.

**Description of services / products / technologies:**

The research center presents a high precision indoor location system that enhances the experience of grocery shopping for people suffering from vision impairment problems. The solution is based on VLC technology, which needs only commercial LED lights and a controller to send location data to a device equipped with a camera, typically a smartphone. Once the information is sent to the device, it will provide voiced information of the product we are pointing at and of the product's exact location.



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**Company**  
**MOBA**  
[moba-automation.es](http://moba-automation.es)

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**Contact**  
**Salomé Soria**  
[ssoria@moba.de](mailto:ssoria@moba.de)  
937 158 793

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**Stand**  
Government of Catalonia D413

We are a leading international company providing technological solutions to optimize waste management; making cities smarter, efficient and sustainable.

**Description of services / products / technologies:**

IoT **MOBA** systems make city containers & fleets smarter, increase the selective waste rate and reduce waste amount, helping to close the loop and to meet EU targets. Data obtained allow city councils to implement PAYT schemes and can be used to raise environmental awareness among citizens through the bitPAYT app.

By using our MAWIS U2 software platform — integrating apps, sensors, weighing, identification, access control and on-board solutions — municipalities and disposal companies can optimize and increase the efficiency of the urban services.



Company  
**PAL ROBOTICS**  
[pal-robotics.com](http://pal-robotics.com)

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Contact  
**Alexandre Saldes**  
[alexandre.sb@pal-robotics.com](mailto:alexandre.sb@pal-robotics.com)  
934 14 5347 - 644 296 504

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Stand  
Government of Catalonia D413

**PAL Robotics** creates disruptive service robots to enhance people's quality of life. Since 2004 they develop cutting-edge humanoid robots for research and mobile robots for logistics and stock-taking.

*Description of services / products / technologies:*

**ARI** is an impressive human-sized robot designed for a captivating engagement and an innovative social interaction. ARI has been developed to embody Artificial Intelligence and IoT based applications and is equipped with the computing power needed to make Artificial Intelligence and Robotics work together.



Company  
**SIARQ. ADVANCED SOLAR DESIGN**  
[www.siarq.com](http://www.siarq.com)

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Contact  
**Alessandro Caviasca**  
[alessandro@siarq.com](mailto:alessandro@siarq.com)  
600 623 324

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Stand  
Government of Catalonia D413

**SIARQ** develops energy-efficient sustainable urban solutions. We design, manufacture and commercialize Smart solar streetlights that serve as an IoT connected infrastructure for our cities.

*Description of services / products / technologies:*

SIARQ will present the **Solar Urban Hub** and the Tulipan, two of our flagship solutions, that provide light and critical environmental data for local administrations and its citizens, such as noise and pollution levels, to help create sustainable cities.

These solutions have a unique design and use IoT technology to provide clients with an easy way to integrate information in any Big Data platform.

## Company

**VADECITY**

**www.vadebike.net**

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## Contact

**Margarita Juanes Tahoces**

mjuanes@vadecity.com

600 926 838

**Marta Recasens Alsina**

mrecasens@vadecity.com

610 760 092

---

## Stand

Government of Catalonia D413

Via the startup **Vadecity** set up by Marta Recasens (Dr in Architecture); Vadebike was born, the world's safest smart parking network service for bicycles and/or scooters, aimed at providing sustainable mobility solutions for 21st century cities.

## Description of services / products / technologies:

**Vadebike** presents the new safest intelligent parking service in the world, suitable for all types of bikes and electric kick-scooters.

Each bicycle and kick-scooter is blocked by three lock points that protect wheels, frame, seat and helmet, thereby preventing theft and resulting in a management and order platform for mobility.

## Company

**VISYON**

**www.visyon360.com**

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## Contact

**Xavi Conesa**

xavi.conesa@visyon360.com

678 561 389

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## Stand

We are experts in XR and emerging technologies; i.e, VR, AR, MR and interactive projections, creating premium immersive video productions and real time animation, and developing bespoke software and our scalable frameworks.

## Description of services / products / technologies:

**The VR classroom of the future** has different environments where students can attend face-to-face classes, in real time and immersive way, with other students from all over the world and with access to all kinds of teaching material (videos, images, documents ...). They can interact in real time with the teacher and other students. A virtual avatar welcomes students and informs them of the different virtual classroom services.

# The Urban Agenda for Catalonia

Preparing the Catalan urban habitats for the future challenges



## Health

Guarantee healthy urban environment through clean mobility, adequate public transport and energy production decarbonisation.



## Well-being

Ensure inclusive, safe, resilient and sustainable cities and human settlements with public space allowing interactions among people. Eradicate exclusion, discrimination and vulnerability.



## Urban quality

Achieve urban environments to guarantee access to housing for everybody, compact, mixed and with adequate densities to allow proximity to goods, services and opportunities.



## Prosperity

Explore new productive patterns with high added value and innovation, guarantee economic sustainability and evolve from a linear economic model to a circular one.



## Environmental dimension

Guarantee well-articulated cities connected to the territory, with well-preserved natural environment to improve people's lives and prepare them to face the challenges of climate change.



## Good governance

Better management of urban policies, ensure greater proximity to citizens to achieve more inclusive, equitable and transparent cities.



# BARCELONA CITY COUNCIL Stand C367 Companies

# Forum. Talks and workshops to discuss in depth the digital transformation of Barcelona

## Tuesday, 19th November

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**09.30 h** **Barcelona Discovery Programme**  
*Speakers: Barcelona Activa and Fira de Barcelona*

**10.30 h** **DECODE Data Sovereignty for a Better City**  
*Speakers: Pau Balcells and Arnau Monterde (Barcelona City Council), Pablo Aragón (Eurecat/UPF) and Oleguer Sagarra (DRIBIA)*

**11.00 h** **A New Era of City Services on 5G: 5GCity and FLAME projects**  
*Speakers: Javier Fernández (I2CAT), Jordi Contreras (FICOSA), George Ioannidis (IN2), Paolo di Francesco (Level7), Antonio J. Jara (Hopu), InterDigital Inc. Representative*

**12.00 h** **KIC- URBAN MOBILITY. EIT. How to Innovate Using a Multisectoral Strategy**  
*Speakers: Daniel Serra (EIT Urban Mobility), José Luis Muñoz (KIC), Jesús Contreras (EIT Digital), Mikel Lasa (Innenergy Iberia), Begoña Pérez (EIT Food), Cristina Bescos (EIT Health), Antoni Pijoan (EIT Manufacturing) and Lorena Jurado (EIT Raw Material)*

**13.00 h** **C-Mobile: Making Safer Emergency Services in Cities**  
*Speakers: Jordi Ortuño and Roberto Ríos (Barcelona City Council), Jacint Castells (IDIADA), David Bruguera (ADASA) and Vanesa Garriz (RACC)*

**13.30 h** **BARCELONA SMART CITY VIRTUAL TOUR**  
**14.00 h**

**14.00 h** **Decidim. Citizens Participatory Platform**  
*Speaker: Arnau Monterde (Barcelona City Council)*

**15.00 h** **LEZ around Barcelona's Ring Roads: Let's Start Breathing**  
*Speaker: Cristina Castells (Barcelona City Council)*

**15.30 h** **Let's Fill the City with Life. Establishing Superblocks in Barcelona**  
**16.00 h**  
*Speaker: Rosa López (Barcelona City Council)*

**16.00 h** **SRA (Smart Robot Assistant): Improving Quality of Life for the Elderly through Technology**  
**17.00 h**  
*Speakers: Lluís Torrens (Barcelona City Council), Josep Bajjet (Saltó) and SRA Robot*

**17.00 h** **Cities Coalition for Digital Rights, 1st anniversary**  
**17.30 h**  
*Speaker: Michael Donaldson (Barcelona City Council)*

## Wednesday, 20th November

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**09.30 h** **GrowSmarter: Lessons, Low Energy Districts and Intelligent Mobility for Energy Transition**  
**10.30 h**  
*Speakers: Lisa Enarsson (City of Stockholm), Manel Sanmartí (Catalonia Research Institute), Nissan Representative*

**10.30 h** **UXLAB. Helping Start-ups to Apply People-focused Design**  
**11.00 h**  
*Speakers: Ruth González and Judith Membrives (Barcelona Activa)*

**11.00 h** **Sentilo User Day. Success Stories**  
**11.30 h**  
*Speakers: Jordi Cirera (Barcelona City Council), Carlos Alarcón (Provincial Council of Valencia)*

**11.30 h** **The Roadmap for Localising Agenda 2030 in Barcelona**  
**12.00 h**  
*Speaker: Miquel Rodríguez (Barcelona City Council)*

**12.00 h** **Smart Mobility Hub Platform (SOUL), a KIC project**  
**12.30 h**  
*Speaker: Laura Mazzola (Fondazione Politecnico di Milano), Jordi Ortuño (Barcelona City Council)*

## Wednesday, 20th November

- 12.30 h MUV: the Citizen-driven Sustainable  
13.00 h Mobility Game-changer  
*Speakers: Salvatore di Dio (PUSH), Rafael Nualart (I2cat)*
- 13.00 h IRIS Citizen Petition System.  
13.30 h *Speaker: Xavier Socastro (Barcelona City Council)*
- 13.30 h BARCELONA SMART CITY VIRTUAL TOUR  
14.00 h
- 14.00 h Guide for People Working on  
14.30 h Digital Platforms  
*Speaker: José A. Pasadas (UGT)*
- 14.30 h The Present and Future of Sustainable  
15.30 h Mobility  
*Organised by: Cercle Tecnològic de Catalunya  
Speakers: Damián Martín (eCooltra), Ricard Jornet (Som Mobilitat), Joan Prat (Erica)  
Moderator: Carles Conill (Barcelona Metropolitan Area)*
- 15.30 h Web Accessibility: Required for a Smart  
16.00 h City  
*Speaker: David Sabaté (Tothomweb)*
- 16.00 h Pacte civil 22@. Towards a Poblenou with a  
16.30 h more inclusive, sustainable 22@ Project  
*Speaker: Francesc Romero (Barcelona City Council)*
- 16.30 h i.lab: Barcelona's Social and Sustainable  
17.00 h Urban Innovation Lab  
*Speakers: Anna Majó and Ana Paola López (Barcelona Activa)*
- 17.00 h Algorithmic Auditing in Local Governance:  
17.30 h a Strategy to Avoid Discrimination in the Processing of Citizens' Data  
*Speakers: Gemma Galdón and Mariano Martín (Éticas Research and Consulting)*
- 10.00 h Smath Project - Smart Atmospheres for  
11.00 h Innovative Clustering of Creative Industries in MED Area  
*Speakers: Diana Escobar, Marc Aguilar, Víctor Jiménez and Montse Mulet (Barcelona City Council) and Brunella Mariani (Barcelona Activa)*
- 11.00 h Pitching from Japanese Start-ups (Kyoto)  
12.30 h *Speaker: Advanced Telecommunications Research Institute (KRC) and Barcelona Activa*
- 12.30 h The Promotion of Housing in Can Fabra.  
13.00 h The reclamation of an old Fabra i Coats factory warehouse space to create public housing.  
*Speakers: Daniel López (Barcelona City Council)*
- 13.00 h The APROP. Provisional, high-quality  
13.30 h community housing constructed quickly and sustainably  
*Speaker: Tonet Font (Barcelona City Council)*
- 13.30 h BARCELONA SMART CITY VIRTUAL TOUR
- 14.00 h KIC- CITYTHON.  
14.30 h Presentation of the Winning Project  
*Speakers: Winners, Daniel Serra and Isabella Longo (EIT Urban Mobility)*
- 14.30 h Smart City Week 2019. 'City in Action'.  
15.00 h Good Practices for a Sustainable, Fair, Participatory Smart City  
*Speakers: Beatriz Guijarro (Smart City Week), Pia Fontana (University of Girona) and Ruth Lamas (Barcelona Metropolitan Area)*
- 15.00 h Shared Electric Mobility in Neighbourhood  
15.30 h Communities in Barcelona  
*Speaker: Ricard Jornet (Som Mobilitat)*
- 15.30 h Habitant: Technology to Make Communities  
16.00 h *Speaker: Aleix Ràmia (Mediaurban)*
- 16.00 h Playing with the City: Videogames, Urban  
16.30 h Design and Public Participation  
*Speaker: Luca Carrubba (Arsgames)*

## Thursday, 21th November

- 09.30 h DSI Talks, Success Stories in Barcelona  
10.00 h and Europe  
*Speakers: Anna Majó and Coloma Serra (Barcelona Activa)*

- 16.30 h Smart buildings: Lower Costs and CO2  
17.00 h Emissions through AI and Predictive Control  
*Speakers: Alonzo Romero and Miguel Delgado (The Predictive Company)*

# Barcelona is ready to help you landing in the city

## For international newcomers

Are you moving to Barcelona?

Barcelona is a vibrant and a creative magnet for international talent. A welcoming city that facilitates personal landing and the connection with the local community through:

- Practical information about living in Barcelona.
- Key procedures you need to do when you move to our city.
- Seminars, workshops, expat breakfasts, city business tours and courses.
- Afterwork gathering that put you in touch with local and international clubs.



Contact us at  
[barcelona.cat/internationalwelcome](http://barcelona.cat/internationalwelcome)

## For entrepreneurs

Are you looking to set up your business in Barcelona?

Barcelona Activa provides you with personalised itineraries that will guide you to successfully develop your business activity in Barcelona, a path that will allow you to follow, step by step, the different stages in the entire entrepreneurial process of starting up a company in Barcelona.

Sign up for a welcome session in English!



Contact us at  
[barcelonactiva.cat/entrepreneurship](http://barcelonactiva.cat/entrepreneurship)

## For companies

Are you looking to expand your business in Barcelona?

The Business Landing Service provides comprehensive support for Barcelona-based investment projects.

One stop service, free of charge, and fully confidential.

- Information and advice on procedures for setting up in Barcelona
- Online business incorporation service for limited liability companies
- Support for recruitment searches
- Business location searches
- Short-term office space for softlanding
- Information about private suppliers and providers
- Connection with other players in the business ecosystem



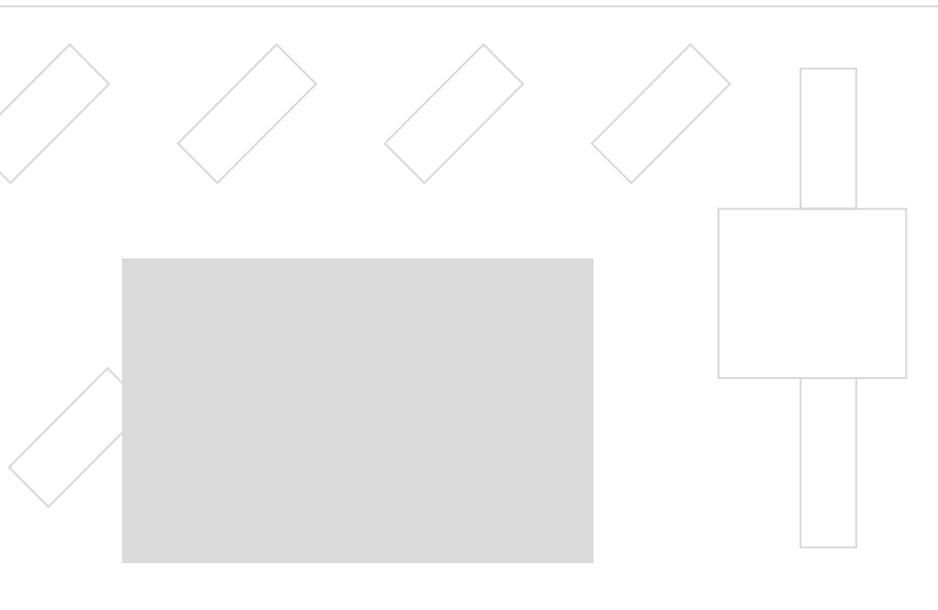
Contact us at  
[barcelonactiva.cat/businesslanding](http://barcelonactiva.cat/businesslanding)



Ajuntament de  
Barcelona







**Company**  
**ALLWIZE**  
**www.allwize.io**

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**Contact**  
**Marc Fábregas**  
marc@allwize.io  
656 929 120

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**Stand**  
Barcelona City Council C367 - Stand 15

**AllWize** is a Barcelona-based startup that was founded with the goal of building end-to-end IoT solutions for cities and utilities based on Wize, the new LPWAN protocol.

**Description of services / products / technologies:**

AllWize has just launched a marketplace of Wize-enabled applications to address the most pressing needs of cities and utilities. The Wize Marketplace offers multiple end-to-end solutions in the fields of environmental, water and streetlight management, which have come to life through in-house development as well as partnerships with specialized companies such as Suez and SECE.

**Company**  
**CARNET**  
**www.carnetbarcelona.com**

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**Contact**  
**Daniel Serra**  
daniel.serra@carnetbarcelona.com  
934 137 604

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**Stand**  
Barcelona City Council C367 - Stand 07

**CARNET** is an innovation Hub founded by SEAT, Volkswagen and UPC. CARNET aims to solve the challenges of urban mobility and focuses on innovative technologies and new mobility concepts and needs, which arise from potential future urban lifestyles.

**Description of services / products / technologies:**

**Autonomous Driving Challenge** is a competition between universities struggling to build the future: autonomous driving. The cars have to be able to move around an urban area, with features such as object detection and avoidance, correct reading of traffic lights, and performance of parking manoeuvres. We will show the cars technology and a demo.



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**Company**

**CTRL4 ENVIRO**

**www.ctrl4enviro.com**

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**Contact**

**Anton Gomà**

anton.goma@ctrl4enviro.com

618 574 307

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**Stand**

Barcelona City Council C367 - Stand 10

**CTRL4 ENVIRO** an innovative image analytics and automation company based in the Autonomous University of Barcelona and we provide solutions that can do real time analytics of any type of camera images.

**Description of services / products / technologies:**

The company is presenting two solutions: first, the one with which it has been awarded by the BCN City Council in its challenge "Barcelona dona molt joc", consistent of measuring and characterizing the use of Barcelona children's playing areas. Secondly, "APROPAT" (patent pending), a disruptive way to digitalize Barcelona markets, connecting the on-line buyer with the "parada" using realtime images of the fresh products in the desk and image analysis with neural networks to identify them, and without increasing buyer's tasks.



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**Company**

**EMSER**

**www.emser.es**

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**Contact**

**Rafael Madueño**

rnr@emser.es

934 460 004 / 649 939 836

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**Stand**

Barcelona City Council C367 - Stand 09

Engineering committed to innovation with extensive experience in the fields of telecommunication and industry within the framework of the IOT/Smart Cities sphere.

**Description of services / products / technologies:**

Under OCPP protocol, this tool monitors, manages and balances the power of different chargers and the power grid. It means that the existing infrastructures are optimized without an increase of demand on the electricity grid, adapting load consumption and being able to manage loads in the most advantageous time zone according to availability and cost of energy.

**Company**  
**FOOT ANALYTICS**  
**www.footanalytics.com**

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**Contact**  
**Jordi Mas**  
jordi.mas@footanalytics.com  
610 516 593

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**Stand**  
Barcelona City Council C367 - Stand 11

**Foot Analytics** is a startup company based in Barcelona and specialized in wifi analytics. Our Big Data platform ingests and process smartphone signals to gain analytics and illuminate people traffic and behavior in a way you have never been able to understand before.

**Description of services / products / technologies:**

We present 3 vertical solutions:

- **Connected Park:** an easy to deploy solution that provides a continuous and reliable vision of visitor flow and behaviours on public spaces.
- **Connected Bus:** aggregating the single passenger journey data in different forms we can calculate powerful KPIs.
- **Connected Market:** measuring number of visits, unique number of customers, loyalty indicators, etc.

**Company**  
**MOCA**  
**www.mocaplatform.com**

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**Contact**  
**Xavier Jolonch**  
xavier@mocaplatform.com  
931 970 035

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**Stand**  
Barcelona City Council C367 - Stand 14

**MOCA AI** is a citizen engagement platform that helps governments to make cities smarter, interactive and discoverable.

**Description of services / products / technologies:**

MOCA AI is a citizen engagement platform supporting governments in easily and quickly, converting digital and physical data into actionable insights through hyperpersonalized messaging, orchestrated across mobile, web and other emerging digital channels. The platform wants to act on behalf of the needs of citizens and tourists in any place of the world in real-time.



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### Company

**LOBELIA**

[www.lobelia.earth/](http://www.lobelia.earth/)

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### Contact

**Aytor Naranjo**

aytor.naranjo@lobelia.earth

933 505 508 / 679 676 174

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### Stand

Barcelona City Council C367 - Stand 12

**Lobelia Earth** is a Barcelona-based SME pioneer in satellite data and technology for climate action. We use Earth Observation, air quality data and climate projections for the assessment of vulnerabilities, risks and opportunities.

### Description of services / products / technologies:

- **Lobelia Air** is a web application for citizens and authorities mapping NO<sub>2</sub> and PM concentrations at street level and near-real time. These interactive maps provide with an urban x-ray of the hotspots, the impact of traffic, energy production and waste management in cities. Operational for Barcelona, Madrid and Amsterdam.
- **Lobelia Climate Analysis** provides an assessment of climate trends to define action plans. It uses downscaling techniques to generate high-resolution, locally-adapted data describing the future climate for any city worldwide.



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### Company

**MONEDER LOYALTY TOOL**

[www.moneder.com](http://www.moneder.com)

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### Contact

**Jan Bover**

janb@moneder.com

938 517 346

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### Stand

Barcelona City Council C367 - Stand 08

**Moneder** offers innovative solutions for the sustainability of local commerce with a loyalty and communication tool and offering advice to help increasing sales and the benefit of local trade.

### Description of services / products / technologies:

Moneder is a loyalty and communication tool present in 16 cities, including Barcelona (viba. barcelona), helping to increase sales and the benefit of local trade, integrating municipal services and rewarding customers with euros that can be used to pay their future purchases. Excluding Barcelona, the Moneder loyalty tool has recorded 26.000.000€ euros in sales in 750.000 transactions. 1050 businesses have delivered 400.000 euros or reward points to 30.000 customers.

Company

**MEQUONIC**  
[www.mequonic.com](http://www.mequonic.com)

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Contact

**Miguel Pérez**  
[miguel.perez@mequonic.com](mailto:miguel.perez@mequonic.com)  
669 750 978 / 934 617 067

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Stand

Barcelona City Council C367 - Stand 16

**Mequonic** is an Engineering and Consultancy company in innovation and product development, integrating mechanical, electronic and SW engineering.

Description of services / products / technologies:

Experts in the application of wireless systems and smartphones to mobility. Custom development of smart antennas and IoT systems for access control, traffic monitoring and frictionless payment. Introducing the innovative BLEiD© system for fast vehicle access control applicable to parking and city centres.



Company

**MOBA**  
[moba-automation.es](http://moba-automation.es)

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Contact

**Salomé Soria**  
[ssoria@moba.de](mailto:ssoria@moba.de)  
937 158 793

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Stand

Barcelona City Council C367 - Stand 13

We are a leading international company that provides technological solutions to optimize the waste management making cities smarter, efficient and sustainable. Smart Waste for Smart Cities.

Description of services / products / technologies:

IoT **MOBA** systems make city containers and fleet smarter, increase the selective waste rate and reduce the amount of waste, helping to close the loop and to achieve EU targets. Data obtained allow city councils to implement PAYT schemes and can be used to raise environmental awareness among citizens through bitPAYT app. By using our software MAWIS U2, apps, sensors, weigh, identification, access control and on-board solutions municipalities and disposal companies can optimize and increase the efficiency of the urban services.

**Company**

**SAALG**

**www.saalg.com**

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**Contact**

**Cristian de Santos**

cristiandesantos@saalg.com

625 080 870

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**Stand**

Barcelona City Council C367 - Stand 01

**SAALG Geomechanics** is an engineering firm specialized in advanced numerical model calibration and soil and rock parameter characterization to optimize the design and the construction process.

**Description of services / products / technologies:**

**DAARWIN** is a web-based platform that optimizes large construction projects using real-time backanalysis, comparing the data from the geotechnical instruments with a predictive model. It represents the soil behavior accurately, diagnosing over-dimension and the unexpected events, minimizing risks and maximizing the project's rentability.



**Company**

**SINAPSE-WATTABIT**

**www.wattabit.com**

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**Contact**

**Alberto García**

a.garcia@sinapseenergia.com

673 152 442

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**Stand**

Barcelona City Council C367 - Stand 02

**Sinapse** was founded in 2007 with the aim of providing solutions to improve efficiency and contribute to energy savings in electricity networks, especially in the public and private lighting.

**Wattabit** provides innovative management software for city assets as street lighting, buildings and a wide range of IoT devices.

**Description of services / products / technologies:**

Sinapse and Wattabit have joined forces and capacities of both Hardware and Software companies to implement the Smart Cities Platform: W-City. It is based on the experience in different public lighting projects such as electric vehicle charging points, noise and environment sensors, smart poles, etc.



Company  
**SMARTDATASYSTEM**  
[www.smartdatasystem.es](http://www.smartdatasystem.es)

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Contact  
**Adan Salcedo**  
[adan.salcedo@smartdatasystem.es](mailto:adan.salcedo@smartdatasystem.es)  
931 437 158

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Stand  
Barcelona City Council C367 - Stand 03

**SmartDataSystem** provide local authorities with the tools and knowledge needed to accelerate the energy transition in municipal buildings through our IoT platform and the SmartVillage pre-configured kits.

*Description of services / products / technologies:*

**SmartVillage** is an integrated energy management solution thought and designed for towns and small cities. It removes the complexities and high costs associated with large city initiatives, providing municipalities with a set of products and services that help them keep ownership of their data, improve citizen services, and lower maintenance costs.

The SmartVillage packaged kits include:

- Public building energy management
- EV charging station management
- Solar Photovoltaic monitoring



Company  
**SOTAVIA**  
[www.sotavia.com](http://www.sotavia.com)

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Stand  
Barcelona City Council C367 - Stand 04

**Sotavia** checks the condition of pavements with a new automatic defect detection device using in-house technology. This service allows a better resource management and saves time and money compared to current inspection methods.

*Description of services / products / technologies:*

Sotavia offers an automatic service for monitoring the condition of pavements. The solution consists on a vehicle that captures three-dimensional images of the pavement, a server that processes them and detects the defects, and a web server that shows the results on a map of the city.

Company  
**THINGTIA**  
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Stand  
Barcelona City Council C367 - Stand 05

We crafted it for Barcelona, now we share it on the cloud. We provide a sensor and actuator platform that collects, monitors, analyses and broadcasts the information.

Description of services / products / technologies:

- **Cloud based – horizontal scalability:** it allows for fast and easy scaling of the resources.
- **Available in Open Source:** in order to share contributions and improvements.
- **High performing:** the platform is designed with a focus on performance, allowing the processing of millions of messages with a very fast response time.
- **Provided with a REST Interface:** it provides a powerful interface, which can easily be connected to other platforms using the REST based API.
- **Modular and extensible:** easily add functionality.
- **Business Intelligence, Big Data and PoC** and small app developing tool.

Company  
**VADEBIKE**  
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Stand  
Barcelona City Council C367 - Stand 06

Through the startup **Vadecity** by Marta Recasens, Dr. Arquitect; Vadebike is born, the world's safest smart parking network service for bicycles and / or scooters, with the aim of providing sustainable mobility solutions in 21st century cities.

Description of services / products / technologies:

**Vadebike** presents the new safest intelligent parking service in the world, suitable for all types of bikes and electric kick-scooters. Each bicycle and kick-scooter is blocked by three lock points that protect wheels, frame, seat and helmet, thereby preventing theft and resulting in a management and order platform for mobility.

# ÀREA METROPOLITANA DE BARCELONA (AMB) Stand C349 Companies

# COMPANIES AT THE AMB STAND (C349)

stand 02 **ADTEL**

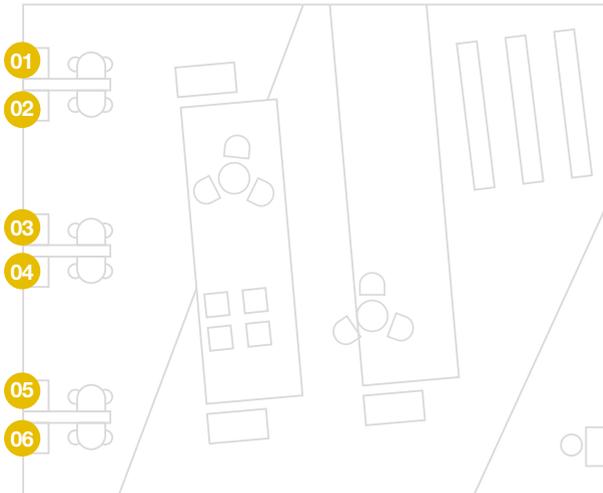
stand 01 **APP & TOWN**

stand 03 **BLINKAY**

stand 04 **MOSAIC FACTOR**

stand 05 **SENSITIVE DATA**

stand 06 **SMART SPACE**



**Company**  
**ADTEL**  
**www.adtel.es**

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**Contact**  
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**Stand**  
AMB C349 - Stand 02



APP&TOWN

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**Company**  
**APP & TOWN**  
**www.appandtown.com**

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**Contact**  
**Faustino Cuadrado**  
faustino.cuadrado@massfactory.com  
679 996 829

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**Stand**  
AMB C349 - Stand 01

**ADTEL** transforms structures and organizations with intelligent technologies. We combine the development of specific products and the integration of technological systems, providing a comprehensive service of communications, audiovisual and security in national and international markets.

**Description of services / products / technologies:**

**AirVoice** is the leading brand in the wireless PA system sector for both indoor and outdoor areas. The products in the AirVoice range have been designed to cover needs on beaches, urban areas, industry and, finally, a product for Smart Cities. AirVoice Smart In is the communications module connecting citizens with the environment. It has been designed to be integrated into lighting columns and urban furniture, avoiding the visual impact of boxes or outdoor cabinets. The module offers sound services, connectivity, environmental sensors, point of relief, etc. to the citizenship

High-Tech company founded with the mission to create innovative products that add value to society. **Mass Factory** develops systems based on mobile applications with geolocation and cloud processing.

**Description of services / products / technologies:**

**App&Town Compagnon** is an innovative end-to-end guidance system for assisted transport with built-in remote supervision functionalities. The System comprises 1) an accessible mobile application providing users with high precision guidance during their trips through the city, even when walking, using public transportation or accessing indoor facilities, and 2) a web-based control panel for watchers/carers, relatives or assistance volunteers to monitor their position, receive alerts when the user leaves the defined route or faces some sort of problem or emergency.

Company  
**BLINKAY**  
[www.blinkay.app](http://www.blinkay.app)

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Stand  
AMB C349 - Stand 03

Leaders in solutions and applications development for the management of urban mobility and parking, combining mobile and industrial technologies.

**Description of services / products / technologies:**

A multimedia parking meter with an IK10 certified touchscreen and a 10W solar panel with 16 adjustable positions capable of:

- Refunding unused time thanks to a virtual wallet associated with the license plate.
- Speeding up the operation process, thanks to the ticket and a scanner installed in the parking meter.
- Providing information to users about points of interest, among others.



Company  
**MOSAIC FACTOR**  
[www.mosaicfactor.com](http://www.mosaicfactor.com)

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Stand  
AMB C349 - Stand 04

**Mosaic Factor** is specialized in Big Data and Artificial Intelligence for mobility and logistics. Our technical expertise combined with more than 15 years of experience innovating in these two sectors, enables us to develop B2B data driven solutions.

**Description of services / products / technologies:**

**SEER Predicting Mobility** is a real-time forecasting model based on historical and real-time data using simulation models and Machine Learning techniques to predict the availability of limited resources such as availability of parking slots, EV charging points or shared vehicles or multimodal inland transports.

**Company**

**SENSITIVE DATA**

**www.sensitivedata.es**

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**Contact**

**Carlos Choclán**

cchoclan@sensitivedata.es

637 518 289

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**Stand**

AMB C349 - Stand 05

**Sensitive Data** offers custom solutions for automated Analytics & Data Visualization using IoT, Industry 4.0, Big Data & IA tools for Energy Efficiency, Buildings, Smart Cities, & Industrial sectors.

**Description of services / products / technologies:**

**The Smart Citizenship Thermometer** is a technological platform made in collaboration with Disclosing Social Science. It helps with political decision-making concerning the antisocial behavior. Thus, it aims at improving governance using both Open Data from cities and Google API while putting people in the center.



**Company**

**SMART SPACE**

**www.smartspace.es**

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**Contact**

**Neus Olea**

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933 370 450

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**Stand**

AMB C349 - Stand 06

**Smart Space** is the meeting point of companies with Smart solutions. It is a cooperation platform between large companies, innovative SMEs, startups and universities / technological centers, and promotes public-private partnership.

**Description of services / products / technologies:**

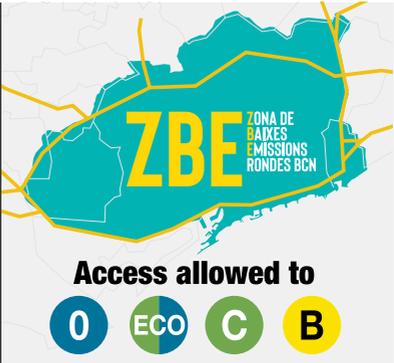
Smart Space has developed a model of Smart business area, sustainable and replicable in different industrial areas. It contemplates mobility, urbanism, connectivity, energy efficiency, waste and water, sustainability, tourism and security.

It also includes: business area management (the relationship between companies, stakeholders and the opportunities and the services -the smartization of Also it includes: business area management (the relationship between companies, stakeholders and the opportunities and the services -the smartization of both the public and the private space).

Visit us at stand  
**C349**  
Hall 2

# Winds of Change in the Metropolis of Barcelona

**Fight against air pollution**



**Efficient territorial management**



**Economic revitalisation**









**Generalitat de Catalunya**  
Government of Catalonia



Ajuntament de  
Barcelona



**AMB** Àrea Metropolitana  
de Barcelona