

SMARTCITY
EXPO WORLD CONGRESS


Fira Barcelona



EMPOWER
CITIES

EMPOWER
PEOPLE

Report 2017

#theEventforCities

REPORT

2017

SMARTCITY
EXPO WORLD CONGRESS

1. Smart City Expo World Congress 2017	4
2. Barcelona, an Open and Innovative City	12
3. Partners	14
a. Global Partners	14
b. Supporting Institutions	17
c. Event Partners	21
d. Hosted by the City of Barcelona	29
e. Organized by Fira de Barcelona	29
4. Exhibition Area	30
5. Governments	36
6. Smart City Plaza	38
a. Agora	39
b. Marketplace	39
7. Mobility Hub	40
8. Railway Hub	42
9. The Village	44
a. Partners' Solutions	45
b. Call for Solutions	46
10. World Smart City Awards	48
11. Side Events	52
12. Activities	54
13. Towards Zero Waste	56
14. Smart City Expo Abroad Editions	58
15. Congress	60
a. Topics & Trends	62
b. Keynote and Plenary Sessions	64
c. Parallel Sessions	104
16. Sharing Experiences	138

1.

Smart City Expo World Congress 2017



Empowering Cities: The Strength of People

Today, expectations for city leadership are rising by the day. Already leading on policies such as the combat against climate change, cities are on the front lines in battles over immigration, social inclusion or transportation while spurring more sustainable patterns of development. In this new scenario, civic stakeholders are sharpening relationships between academia, the public and private sector and the entrepreneurial ecosystem to turn urban areas into global centers of cutting-edge technology and to create innovative solutions to solve the toughest problems.

Indeed, new advancements in technologies such as the Internet of Things and blockchain, which are disruptively changing money and business, are becoming pivotal for the future development of cities. Yet technology by itself, nor local governments and civil servants can do it all on their own. People are a key ingredient in this transformation.

This year, Smart City Expo World Congress (SCEWC) has once more put people at the center of the debate to empower cities. With this baseline, the event has shattered all previous records and proved it is a worldwide cornerstone on smart urban development, a not-to-be-missed show for companies, cities and institutions fully invested in making better cities where people can live, learn and love.

For three days, the event brought together **18,754 attendees, representatives from more than 700 cities and 120 countries, as well as 675 exhibitors**. The show also provoked the interest of **427 accredited journalists**, which delivered **3,100 items** on the subject **valued at €3,837,681**. These figures translate into an 11% increase in comparison to 2016, which confirms the show as the benchmark event in the smart city field.

Over 420 experts, including keynotes such as Bettina Warburg, Robert Muggah, Joan Clos, Gilles Babinet, Jason Roberts, Geoff Mulgan and Beth Noveck debated on the challenges faced by cities in the current global context, encouraged out-of-the-box thinking and inspired a call for action to build together smarter cities for a better future.

They all gathered and networked in 30,000 sq.m of floor space combining three different areas: the Exhibition area, the Congress area and The Village, a 2017 edition new ground to network and rest. For the seventh year running, the **Exhibition area** showcased breakthrough solutions, cutting-edge projects and enthralling presentations in the smart city arena. In addition, the congress area drove debate and generated synergies on crucial issues such as people empowerment, equity and social innovation, public safety and security, livability and resilience, new business models, the transition to a circular economy and smart mobility. In fact, that was a topic that was fully discussed at the co-located **Smart Mobility World Congress**, which showcased disruptive models such as Hyperloop, a new mode of transportation moving freight and people quickly through low-pressure tubes.

Knowledge sharing was also the pivotal element both at the Agoras built on the Mobility Hub and the Smart City Plaza, a place recreating a full-scale portion of a city. Attendees passing by could listen to selected speakers presenting case studies on urban innovation, and find business opportunities within a market which is expected to grow **from USD 424.68 billion in 2017 to USD 1,201.69 billion by 2022*** at a Compound Annual Growth Rate (CAGR) of 23.1%. At the very same place, attendees and exhibitors could also search for talent and network in a Marketplace built for the occasion.

More than **50 side events and activities** complemented the Smart City Expo World Congress offer by focusing on the development of new city models. With constant innovative drive as its cornerstone, the **World Smart City Awards** also recognized new initiatives on urban development, especially the first blockchain city in Dubai. In parallel, the event again ran the Towards Zero Waste initiative to reduce waste, save resources and become carbon neutral.

In conclusion, the 2017 edition of Smart City Expo World Congress was a major success where attendees learned why **empowering cities means empowering people**, thus building a better future.

*"Smart Cities market by Focus Areas", MarketsandMarkets.com, July 2017

Key figures



18,754
Attendees
(+73% in the last 3 years)



675
Exhibitors
(+145% in the last 3 years)



420
Speakers



+700
Cities

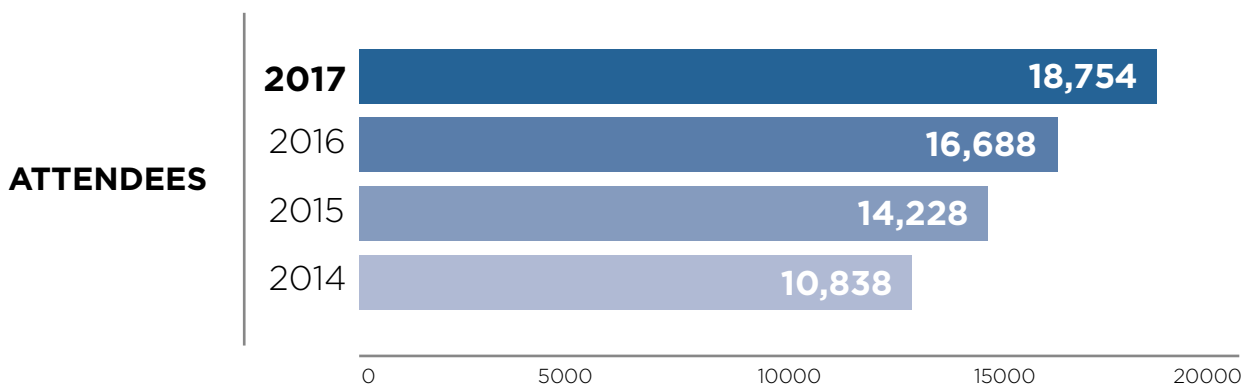


+120
Countries

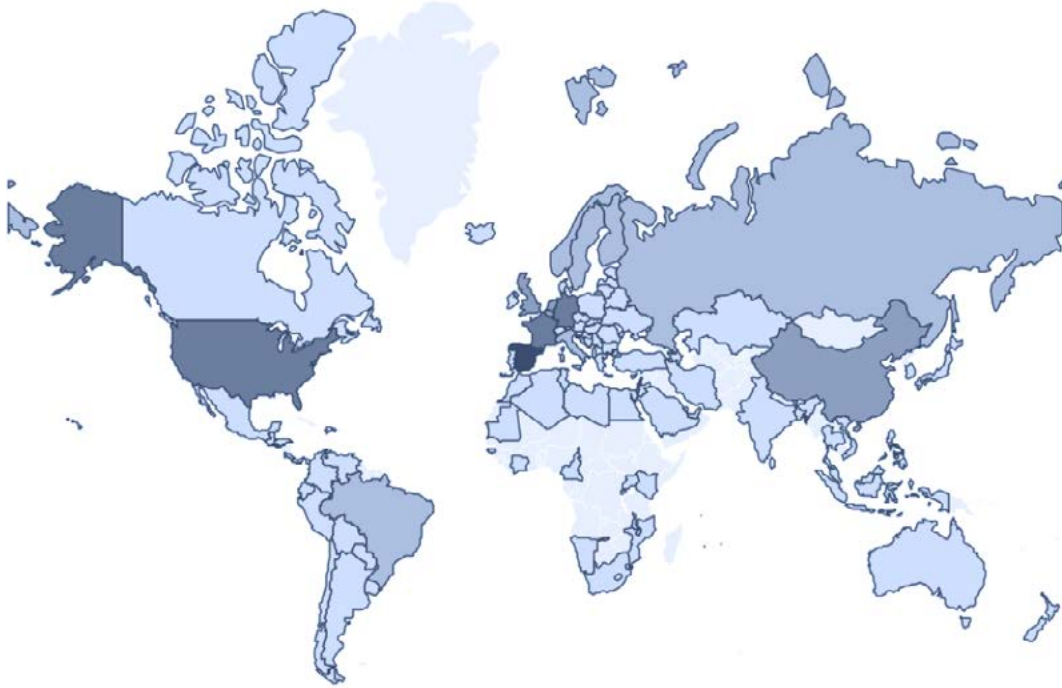


+50
Side Events

An ever-growing event



A smarter global community

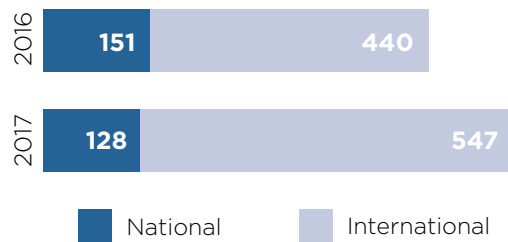


Attendees came from 120 different countries
+ -

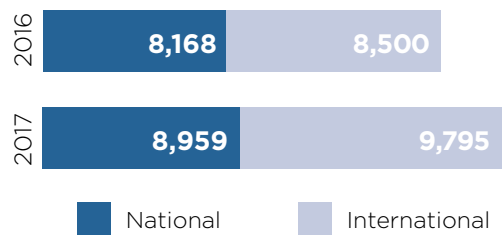
Top 10 visiting countries

- France
- Germany
- United States
- Spain
- China
- United Kingdom
- Israel
- Belgium
- Netherlands
- Italy

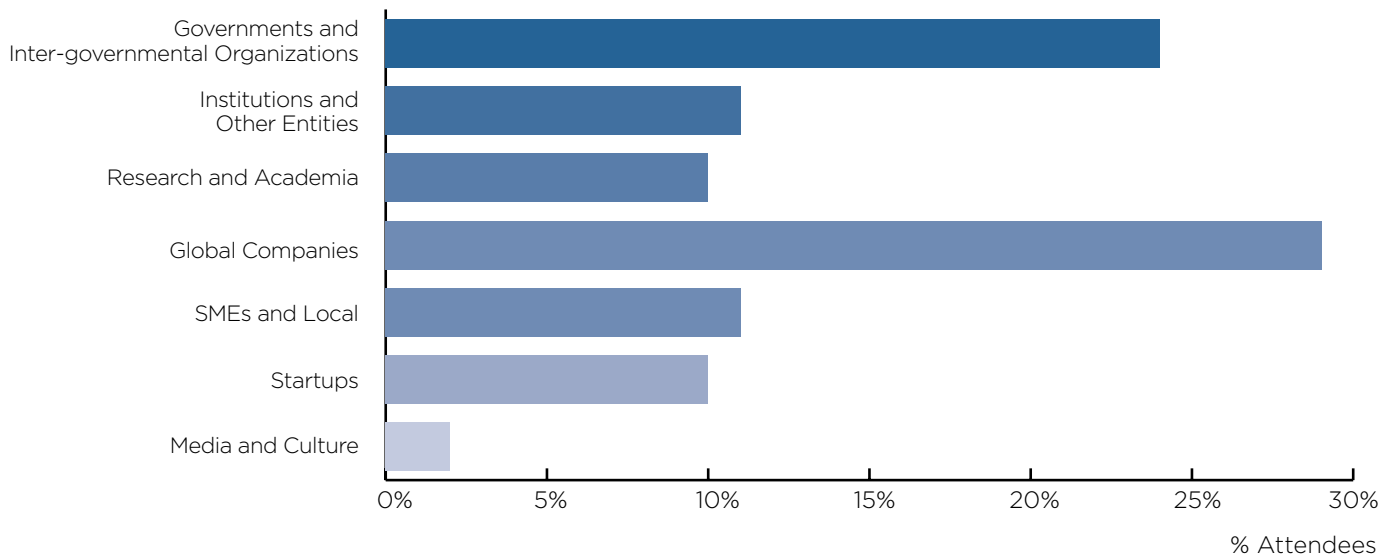
Exhibitors



Attendees



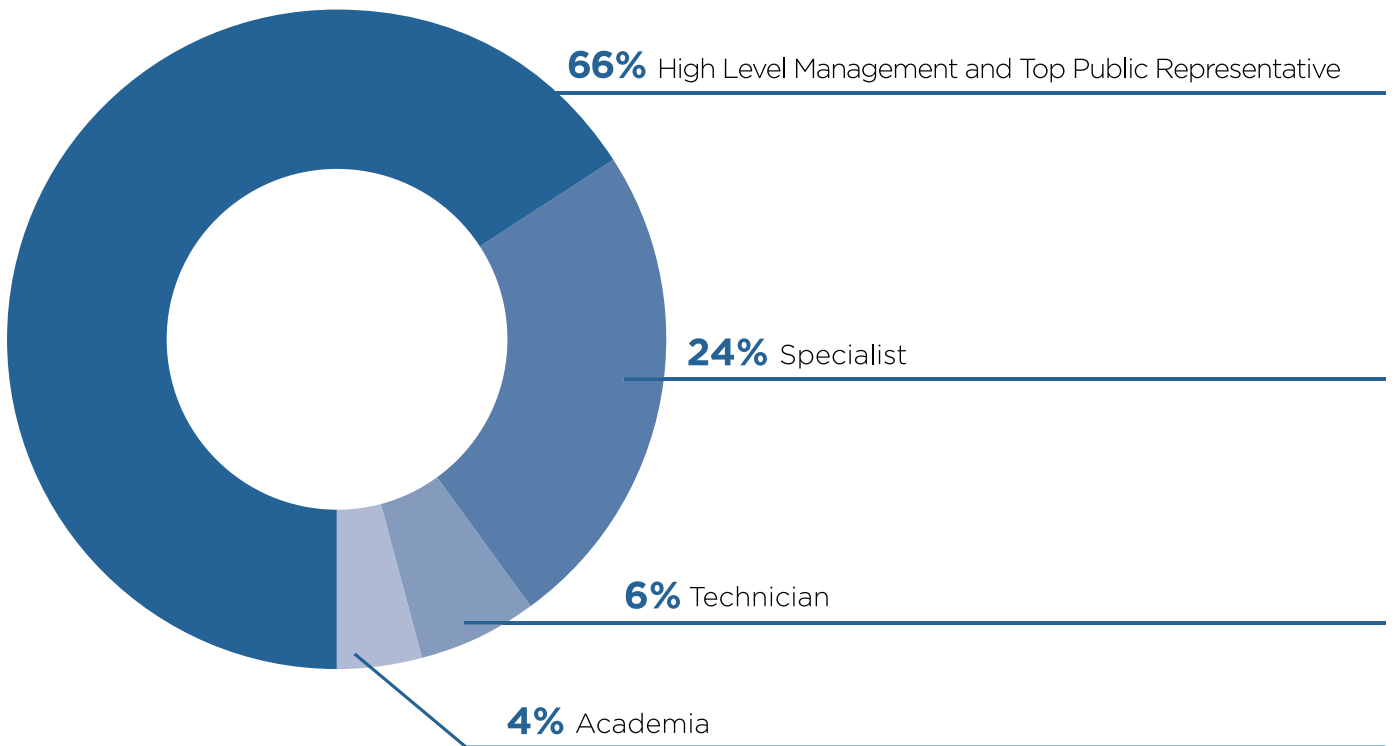
A diverse and multi-sectorial interest in Smart Cities



Topics of major interest were Data & Tech, Mobility and Sustainability

1. Data & Tech
2. Mobility
3. Sustainability
4. Economy
5. Safe Cities
6. Governance
7. Society
8. Circular Economy

Two out of three attendees are key decision makers



92% **OF OUR PARTICIPANTS**
are highly satisfied with the quality of the contacts made at the event

90% **OF OUR PARTICIPANTS**
believe that this is the world's leading event on urban development

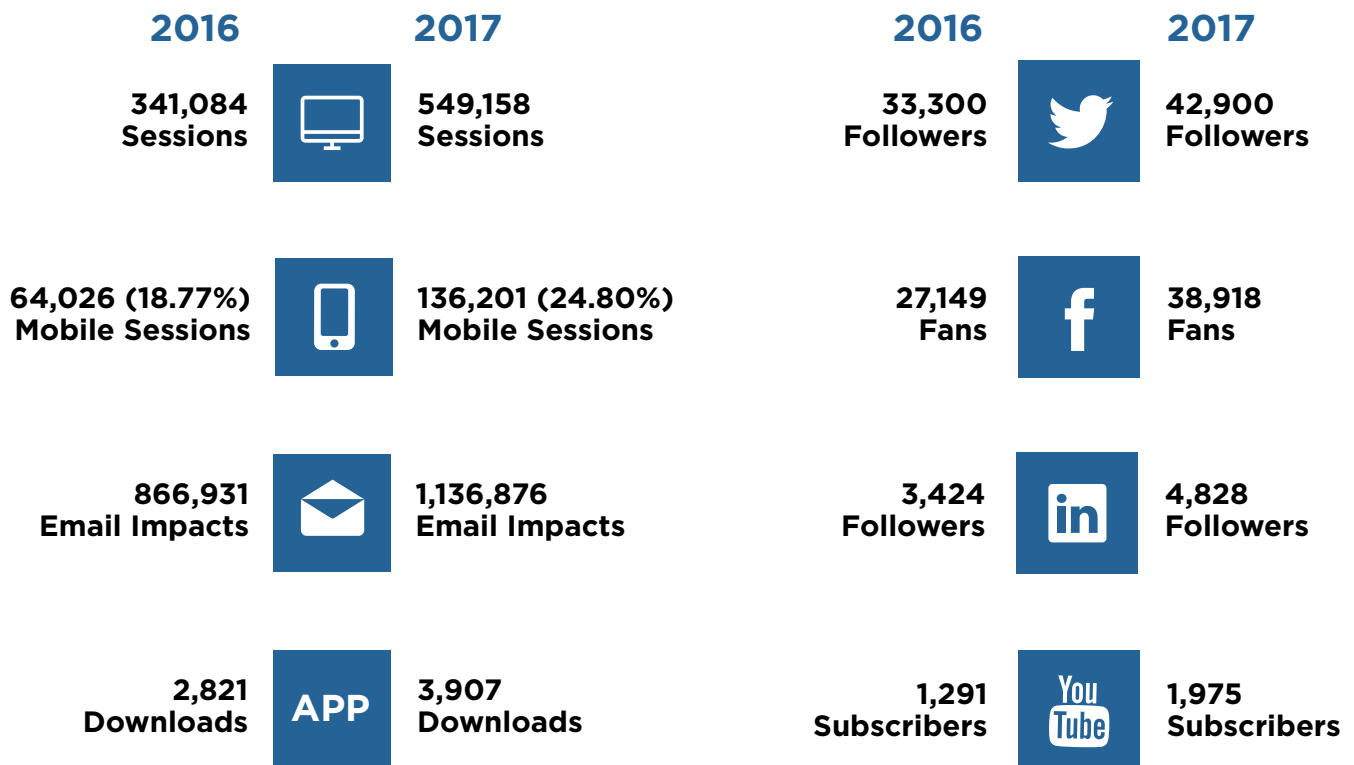
Widespread regional print and international media coverage

 **427**
Registered
Journalists

 **3,100**
Media Items

 **820,481,563**
Impacts on
Audience

A social media hit



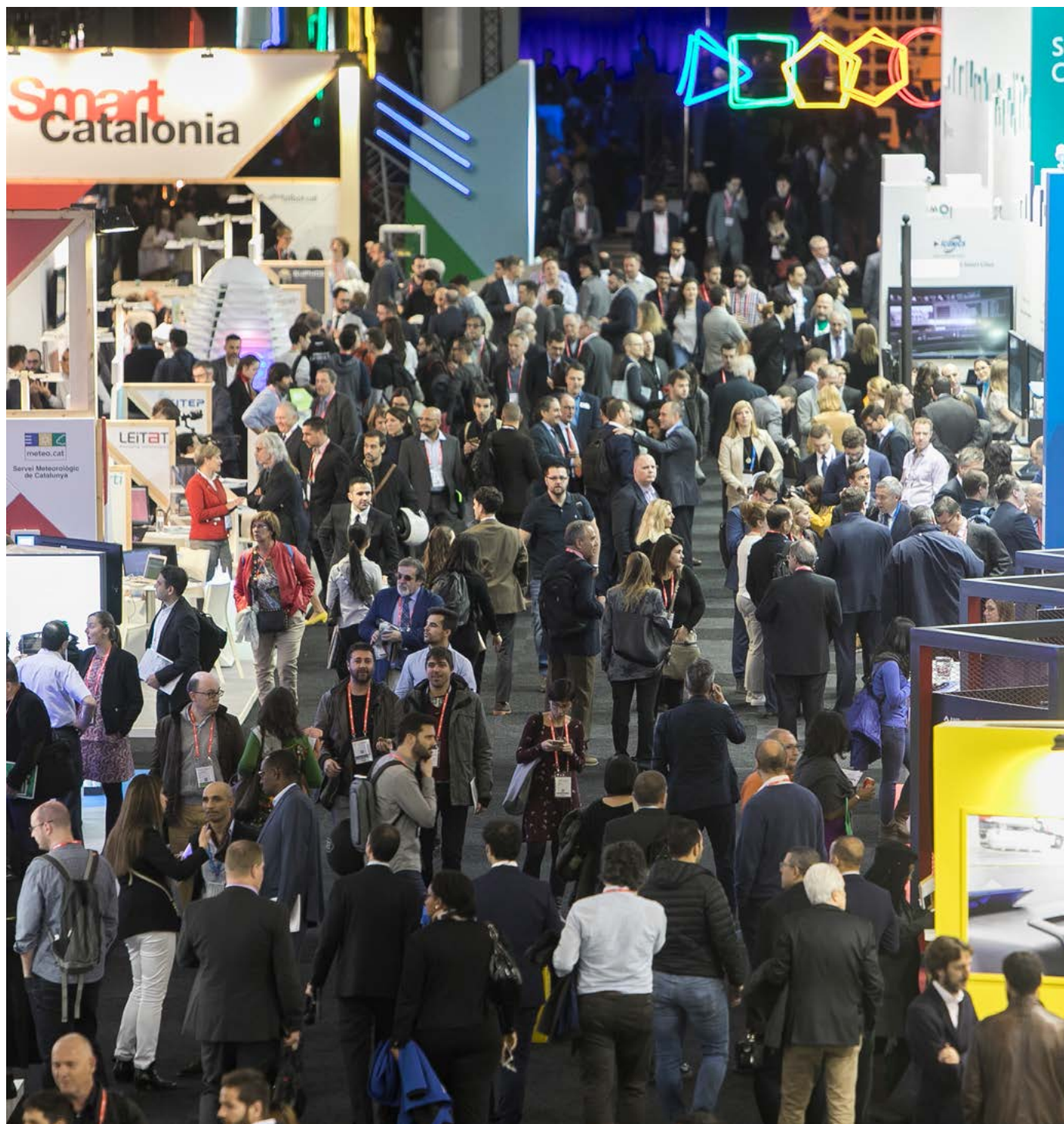
Insights

- SCEWC social networks got **6,538,690 total impressions**.
- #SCEWC17 was a **trending topic** before and during the event.
- SCEWC tweets got **1,800 RT** and **3,077 Fav**.
- SCEWC posted videos got **244,837 views**.
- SCEWC scores **926 out of 1,000** on .Kred Influence Platform.



2.

Barcelona, an Open and Innovative City



The use of technology and data to provide better and more affordable services to citizens, and to make government more transparent, participative and effective has placed Barcelona among the world-leading smart cities. In 2016, the City Council presented to the international community the **Barcelona Digital City Plan 2017-2020** to drive technological sovereignty and foster an inclusive digital economy based on the collaboration between companies, public administrations, the academic and research community, and people. All with the purpose of boosting an innovative ecosystem to solve real problems and to create a sustainable urban landscape.

At Smart City Expo World Congress 2017, five main headings of discussions corresponding to the most pressing challenges facing the city were brought up to debate at Barcelona City Council's booth. Both the conceptual design of the stand, which integrated **17 companies supported by Barcelona Activa**, and the presentations translated key issues on: **Housing, Mobility, Social Development, Sustainability and Participation**.

The main purpose was building up a space for networking and collaboration between different stakeholders to foster public-private-partnership (PPP) resulting in a more plural and resilient local economy, as well as better urban planning and infrastructures.

Presentations and workshops by local companies and associations stressed the transformative power of Innovative Public Procurement, Living Labs, the use of drones, Internet of Things and 5G to develop innovative services, co-creation with smart citizens, smart mobility solutions and participation platforms.

These themes along with other crucial topics such as Digital Inclusion, Democracy and Digital Rights were also highlighted in congress sessions by representatives from the local government:

OPENING SESSION

Empower Cities. Empower People

Gerardo Pisarello - Deputy Mayor of Economy and Labor, Digital City and International Relations

PLENARY SESSIONS

Harnessing Data and Tech to Achieve Common Urban Goals

Francesca Bria - Chief Technology and Digital Innovation Officer

Boosting Collaborative, Sharing and Circular Cities

Álvaro Porro - Councilor of Social Economy, Local Development and Consumption

THEMATIC SESSIONS

Beyond the Smart City: Democratizing Innovation while Putting Citizens First

Francesca Bria - Chief Technology and Digital Innovation Officer

Innovative Public Transit Models Reshaping Cities

Álvaro Nicolás - Mobility Adviser

Managing a Smart Destination and its Impacts

Mariano Lamarca - Infrastructures, Standardization and Smart Cities Manager for Information Technology Barcelona City Council Institute

Strategies to Protect Critical Infrastructures and Assets

Ares Gabàs - Head of the Resilience Department

Advancing the Health and Wellbeing of People in Cities

Davide Malmusi - Director of Health Services

Cities Welcoming Diversity and Managing Migratory Flows

Ramon Sanahuja - Director of Migrants Attention and Hosting

Energy and Environmental Solutions for More Sustainable Cities

Maïta Fernández Armesto - Project Coordinator at Mobility and Infrastructures

Solutions to Make Cities Safer

Ares Gabàs - Head of the Resilience Department

Dialogue BCN-NYC

Gala Pin - Councilor of Participation and Districts

Moreover, Francesca Bria handed out the City Award together with Jeff Merritt, Director of Innovation of the City of New York, at the World Smart City Awards Ceremony.

In addition, various networking and matchmaking activities, such as the **Job Marketplace**, were promoted by the City Council and Barcelona Activa with the support of Smart City Expo World Congress.

Finally, the local government, which opened Smart City Expo World Congress with a **Welcome Dinner** attended by Mayor Ada Colau as well as more than 100 representatives of cities, institutions and corporations, highlighted that the event made networking with CIOs from other cities much easier, facilitating knowledge sharing and great international exposure.

Smart City Expo World Congress will keep striving to support this new model by generating synergies, sharing knowledge, provoking discussion and reflection and inspiring new actions.

3.

Partners

Global Partners

We are thankful to our partners and supporters, without whom this event would not have been possible.



Cisco designs and sells broad lines of products, provides services and delivers integrated solutions to develop and connect networks around the world, building the Internet. Over the last 30 plus years, the company has been the world's leader in connecting people, things and technologies. It has expanded to new markets that are a natural extension of its core networking business as the network has become the platform for delivering an ever-increasing array of IT-based products and services. Cisco is focused on helping businesses of all sizes, public institutions, governments and communication service providers achieve their desired business outcomes and use IT to drive growth, improve productivity, reduce costs, mitigate risk, and gain a competitive advantage in an increasingly digital world.

www.cisco.com



The FCC group has been delivering Services for Cities for more than 115 years. With a team of more than 54,000 people and a turnover of around €6 billion, the company is today present in 36 countries. FCC Environment is the FCC business area that provides environmental services to 59 million people in over 5,000 municipalities and 13 countries. From integrated industrial and urban waste management to all types of municipal services, including the re-cultivation of polluted soils, FCC Environment recovers and processes in excess of 24 million tons of waste every year at more than 200 state-of-the-art and sustainable recycling and treatment facilities, including 10 Waste-to-Energy projects with 300MWe, producing 3.2 million tons of recyclables and Refuse-Derived Fuel (RDF).

www.fcc.es



Ferrovial Services is an innovative solutions and service provider for infrastructure and cities. We are an international benchmark in the maintenance and operation of public and private infrastructures for transport, environment, industry, natural resources (oil, gas and mining) and utilities (water and electricity), and in the provision of facility management services. Ferrovial services has a broad range of critical and integrated services, proven capacity for managing complex projects, extensive differentiated and transferable capabilities and a clear focus on operational excellence through continuous efficiency improvement. With a solid international presence in stable regions such as the UK, Spain, Australia, New Zealand, the United States and Chile, and with a workforce of more than 69,000, we provide integrated asset management services throughout the life cycle: from consultation, design and planning to operation, optimization and maintenance.

www.ferrovial.com



FIWARE envisions the city as a platform that breaks vertical information silos by creating a Context Information Management layer that provides a complete picture of what is going on in the city. The City becomes an enabler of a right-time open data marketplace, where right-time and historic information from inside the City can be merged together with data from external data providers, which can then be monetized. This data space will enable not only better governance of the City and management of City Services (predictive and prescriptive models) but also the creation of new innovative services by third parties. Partnering with front-runner cities that share the vision, FIWARE is leading the definition of implementation-driven standards in this area.

www.fiware.org/smart-cities



Hexagon is a leading global provider of information technologies that drive productivity and quality across geospatial and industrial enterprise applications. Driven by disruptive innovation, Hexagon's information technology portfolio empowers customers with integrated data feeds and seamless workflows to create smart ecosystems – named Smart X. From smart cities, smart power plants and smart factories, to smart mines and smart farms, Hexagon leverages data to digitally transform the way these systems operate, thus enabling cities of all sizes to cure growing pains, not just cope with them. By offering reduced power consumption and comfortable housing to less waste and full access to public services, Hexagon is empowering cities to reach their true potential.

www.hexagon.com



Huawei is a leading global information and communications technology (ICT) solutions provider. Driven by responsible operations, ongoing innovation, and open collaboration, the company has established a competitive ICT portfolio of end-to-end solutions in telecom and enterprise networks, devices, and cloud computing. Its ICT solutions, products, and services are used in more than 170 countries and regions, serving over one-third of the world's population. With more than 170,000 employees, Huawei is committed to enabling the future information society, and building a better-connected world.

e.huawei.com/uk/



As a technology company in the global payments industry, MasterCard operates the world's fastest payments processing network, connecting consumers, financial institutions, merchants, governments and businesses in more than 210 countries and territories. Mastercard is committed to helping cities become more inclusive, more sustainable and more efficient – by applying technology, data insights and partnerships to the challenges of an increasingly urban world.

www.mastercard.com/smart-cities



Founded in 1975, Microsoft empowers every person and every organization on the planet to achieve more. Microsoft engages cities around the world through Microsoft CityNext – an initiative that enables cities to be more sustainable, prosperous and inclusive by embracing the transformative power of digital technology and the cloud. This transformation results in a city that is more attractive to talented citizens and employers.

www.microsoft.com/citynext

Global Partners



Siemens AG is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries and has around 351,000 employees, focusing on the areas of electrification, automation and digitalization. Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. It's also a leading provider of medical imaging equipment, such as computed tomography and magnetic resonance imaging systems, and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2016, Siemens generated revenue of €79.6 billion and net income of €5.6 billion.

www.siemens.com/scewc



SUEZ is a French multinational corporation. As an expert in water and waste for 150 years, the company is fully engaged in the resource revolution. In a world where resources are becoming increasingly scarce, their sustainable management is the challenge of the 21st Century. By 2050 there will be 9.6 billion inhabitants living on our planet, most of them concentrated in cities. A resourceful city is first and foremost circular, capable of generating the resources that are essential to the future. SUEZ proposes an integrated vision of the City: environment, transport, energy, street lighting, security, etc. and brings its know-how and smart solutions to all stakeholders to help build a resourceful city where it is pleasant to live.

www.suez.com



SAP is a European multinational corporation helping its customers to seamlessly connect people and technology in real time. With new digital technologies intersecting and combining, the company empowers leaders in both the public and private sector to transform communities into smart cities that deliver better outcomes to all. By thinking through the likely possibilities and developing scenarios with the expertise of SAP, cities can prepare to maximize the positive outcomes in a future we've just begun to imagine. With SAP solutions, cities can run more efficiently and effectively, help make it easier for businesses to thrive, and provide a safe environment for citizens.

www.sap.com/industries/smart-cities.html



ZTE Corporation is a global leader in telecommunications and information technology. As part of its mobile information and communication technologies strategy, the company, founded in 1985, is committed to providing integrated end-to-end innovations to deliver excellence and value to consumers, carriers, businesses and public sector customers around the world. With the industry's most comprehensive product range and end-to-end solutions, ZTE offers cutting-edge wireless, access & bearer, value-added services, terminals and managed services to telecommunications carriers, in addition to ICT solutions for enterprises and government agencies. ZTE is committed to driving innovations in telecommunications and ICT globally as the business and technology needs of the industry evolve.

www.zte.com.cn

Supporting Institutions



The European Commission is the EU's executive body. It represents the interests of the whole European Union. The Commission's main roles are to propose legislation which is then adopted by the co-legislators, the European Parliament and the Council of Ministers; enforce European law (where necessary with the help of the Court of Justice of the EU); set objectives and priorities for action, outlined yearly in the Commission Work Program, and work towards delivering them, as well as managing and implementing EU policies, the budget, and representing the Union outside Europe. The European Commission has its headquarters in Brussels, Belgium, and some services are also in Luxembourg. The Commission has Representations in all EU Member States and 139 Delegations across the globe.

www.ec.europa.eu



At Smart City Expo World Congress, the Government of Catalonia held a corporate booth hosting 20 innovate companies from different Smart City sectors. Information on Smart Catalonia and its strategy by several public enterprises was also shown. The Smart Catalonia Strategy is designed to make Catalonia an international smart region benchmark, taking advantage of digital technology and information to encourage innovation in public services, foster economic growth and promote a more intelligent, sustainable and integrative society. With this strategy, the Government aims to improve the services provided for citizens, thanks to the more efficient use of resources and more intelligent performance by handling the maximum amount of available information in real time.

www.gencat.cat



ICEX Spain Trade and Investment is a public business organization which works worldwide with the objective of promoting the internationalization of Spanish companies to improve their competitiveness, as well as boosting foreign investment in Spain. ICEX offers its services through 98 Economic and Commercial Offices worldwide, the largest foreign network, 31 Provincial and Territorial Trade Offices in Spain and 17 Business Centers abroad keeping close contact with Spanish companies. Every year, ICEX organizes around 1,200 promotional activities in foreign markets and answers over 90,000 queries on internationalization.

www.icex.es



Diputació de Barcelona, as the Provincial Council, provides financial and technical resources to the 311 municipalities in its area to support them in the process of becoming smart cities. Since early 2016, Diputació de Barcelona has offered a multi-tenant sensor platform to collect, process and analyze data from urban devices. Currently, 12 cities and local organizations are using it. In the exhibition area, Diputació de Barcelona showed major smart region projects in which the institution is involved (regional platform, new apps, open government program, library bus, sustainability and energy efficiency solutions, etc.). Projects from several municipalities and local authorities in the area were also presented at its booth (Sentilo platform use cases, security app, eGovernment solutions, City Protocol Society initiatives, issue reporting apps, etc.).

www.diba.cat

Supporting Institutions



The Barcelona Metropolitan Area (AMB) is a public body which coordinates metropolitan services and promotes the main assets of 36 metropolitan municipalities. It is responsible for the planning of public space, housing, mobility and public transport, waste management, and the whole water cycle. It also works in the field of urban planning, including policies on the environment, open spaces, economic promotion and social and territorial cohesion. The AMB strives to implement new data solutions to facilitate citizens' day-to-day lives by applying a wide range of smart responses to improving public transport service, urban parks and 32km of beaches. Building an efficient and livable city demands placing people at the forefront of every activity and public service, plus developing creative and innovative solutions to improve quality of life and create new high-skilled jobs. This is the goal of the AMB.

www.amb.cat



Innovative use of ICT is driving a new era for cities. During this transformation city leaders and ecosystem partners need to approach these challenges with a collaborative mindset. TM Forum is an association of over 850 companies that generate a combined US\$2 trillion in revenue and serve five billion customers across 180 countries. It drives collaboration and collective problem-solving to maximize the business success of cities, communication and digital service providers and their ecosystem of suppliers. It supports its members as they navigate their unique digital transformation journeys by providing practical and proven assets and tools to accelerate execution, and by creating digital and physical platforms that facilitate collaborative problem solving and innovation.

www.tmforum.org



The World Bank Group has set two goals for the world to achieve by 2030: 1) End extreme poverty by decreasing the percentage of people living on less than \$1.90 a day to no more than 3%, and 2) Promote shared prosperity by fostering the income growth of the bottom 40% for every country. The World Bank Group comprises five institutions managed by their member countries. Established in 1944, the World Bank Group is headquartered in Washington, D.C., and has more than 10,000 employees in more than 120 offices worldwide. The World Bank is a vital source of financial and technical assistance to developing countries around the world. It is not a bank in the ordinary sense but a unique partnership to reduce poverty and support development.

www.worldbank.org



UN-Habitat is the United Nations program working towards a better urban future. Its mission is to promote socially and environmentally sustainable human settlements development and the achievement of adequate shelter for all. In October 2016, at the UN Conference on Housing and Sustainable Urban Development - Habitat III - member states signed the New Urban Agenda. This is an action-oriented document which sets global standards of achievement in sustainable urban development. Through drawing together cooperation with committed partners, relevant stakeholders, and urban actors, including at all levels of government as well as the private sector, UN-Habitat is applying its technical expertise, work and capacity to implement the New Urban Agenda and Sustainable Development Goal 11 to make cities inclusive, safe, resilient and sustainable.

unhabitat.org



ICLEI is the leading global network of more than 1,500 cities, towns and regions committed to building a sustainable future. By helping the ICLEI Network to become sustainable, low-carbon, ecomobile, resilient, biodiverse, resource-efficient, healthy and happy, with a green economy and smart infrastructure, we impact over 25% of the global urban population.

www.iclei.org



The effects of rapid urban growth combined with the impact of climate change are creating new challenges for cities, which require better usage of information. To manage these challenges and deliver better urban services, cities need to better leverage technology, people and processes. IDB works to improve lives in Latin America and the Caribbean through financial and technical support for countries working to reduce poverty and inequality. It helps improve health and education, and advance infrastructure. As the leading source of development financing for Latin America and the Caribbean, it conducts extensive research and provides loans, grants, and technical assistance, achieving measurable results and the highest standards of increased integrity, transparency, accountability and sustainability.

www.iadb.org



The GSMA Connected Living program is working with mobile operators, governments and city councils to agree a common approach to smart city solutions that will deliver real, long-term benefits to businesses and citizens. Its smart cities initiative provides an array of resources which can assist governments, city planners and digital service providers in their quest to deploy connected solutions and create cities that are truly smart.

www.gsma.com/smartcities



For the third year running, 4 Years From Now (4YFN), the startup business platform of Mobile World Capital Barcelona, bridged the gap between entrepreneurs, investors and corporations to create long-lasting connections during Smart City Expo World Congress. The 4YFN startup village, situated next to the Congress area, showcased pioneering startup innovations and pitches that took place on stage to key players within the industry. It appeared to be the perfect place to discover disruptive smart city technology.

www.mobileworldcapital.com
www.4yfn.com



United Cities and Local Governments (UCLG) represents and defends the interests of local governments on the world stage, regardless of the size of the communities they serve. Headquartered in Barcelona, the organization's stated mission is "to be the united voice and world advocate of democratic local self-government, promoting its values, objectives and interests, through cooperation between local governments, and within the wider international community." With this goal in mind, UCLG's work program focuses on increasing the role and influence of local government and its representative organizations in global governance, as well as becoming the main source of support for democratic, effective, innovative local government close to the citizen, while ensuring an effective and democratic global organization.

www.uclg.org



City Protocol is a collaborative innovation framework that fosters city-centric solutions which benefit citizens and their quality of life. It seeks to define a common systems view for cities of any size or type, and then embraces or develops protocols that will help innovators create - and modern cities deploy - cross-sectorial solutions that can connect and/or break down city silos. City Protocol aims at working across diverse cities by interconnecting them and ultimately creating the "Internet of Cities". With City Protocol, innovators enjoy a robust market for their solutions, and cities enjoy solution choice, reduced cost and risk, and increased collaboration and learning - all while supporting the development of a Science of Cities.

cityprotocol.org



ETSI is the recognized regional standards body - European Standards Organization (ESO) - dealing with telecommunications, broadcasting and other electronic communications networks and services. Its role includes supporting European regulations and legislation through the creation of Harmonized European Standards. ETSI was initially founded to serve European needs but now its standards are used the world over. It collaborates and works in partnership with diverse types of organizations and programs including the international Third Generation Partnership Project (3GPP™), aimed at developing 4G and 5G mobile communications.

www.etsi.org



The Southeast Asian Creative Cities Network (SEACCN) is a network for creative cities and clusters in Southeast Asia. This includes representatives from cities, agencies, specialists, experts, groups and communities. The initial members include George Town (Penang, Malaysia), Bandung (Indonesia), Cebu (Philippines), and Chiang Mai (Thailand). It is an open group focused on SE Asia and particularly on so-called "second cities", but SEACCN welcomes collaboration with other organizations and cities including those in the rest of Asia or Europe. The network was informally founded in April 2014 in Chiang Mai and a MOU was signed in August 2014.

www.seaccn.com

Event Partners



As a promoter of sustainable mobility, Alstom develops and markets systems, equipment and services for the transport sector. It offers a complete range of solutions (from high-speed trains to metros, tramways and e-buses), passenger solutions, maintenance services, modernization, infrastructure, signaling and digital mobility solutions. Alstom Digital Mobility division develops and offers a full range of breakthrough technologies to address the evolving needs of both operators and passengers: connectivity, multimodal, efficiency, safety, accessibility and sustainability. The Group, present in 60 countries, employs 32,800 people and recorded sales of €7.3 billion in the 2016/17 fiscal year. In Spain, Alstom is the second main employer for the railway sector, with close to 2,000 employees in 19 sites.

www.alstom.com



Amazon Web Services (AWS) Worldwide Public Sector helps government, education, and nonprofit customers deploy cloud services to reduce costs, drive efficiencies, and increase innovation across the globe. With AWS, you only pay for what you use, with no up-front physical infrastructure expenses or long-term commitments. Public Sector organizations of all sizes use AWS to build applications, host websites, harness big data, store information, conduct research, improve online access for citizens, and more. AWS has dedicated teams focused on helping our customers pave the way for innovation and, ultimately, make the world a better place through technology.

aws.amazon.com



As a communications and Internet of Things (IoT) leader, AT&T is helping cities deploy integrated Smart City solutions to accelerate sustainable economic growth and create safer and more efficient cities in which citizens live, work and play. The AT&T Smart Cities framework helps urban areas address critical issues such as infrastructure, transportation, citizen engagement, public safety and smart grid management, to help better meet the needs of citizens by using Internet of Things (IoT) technologies.

www.att.com/smartcities



The Australian Trade and Investment Commission (Austrade) helps companies around the world to identify and take up investment opportunities in Australia as well as to source Australian goods and services. Its assistance includes providing insight on Australian capabilities, identifying potential investment projects and strategic alliance partners as well as helping you identify and contact Australian suppliers. Austrade led a delegation of 40 Australian representatives who attended Smart City World Expo Congress, including world-class providers of smart city technologies and solutions, Australian Council Mayors and industry representatives.

www.austrade.gov.au/international

Event Partners



As the market leader in network video, Axis is driving the industry by continually launching innovative network products delivering high value to customers through a global partner network. With the help of 90,000 partners spanning 179 countries, the Sweden-based company has delivered a series of groundbreaking products and many industry firsts. Cities around the world have implemented intelligent video solutions from Axis and partners in public places and areas such as retail chains, airports, trains, freeways or universities to better prevent, deter and solve crime, shorten commuter times and help citizens feel safe and secure.

www.axis.com



Bouygues Energies & Services covers engineering through to construction and operation, delivering tailor-made solutions and services for public infrastructure, buildings and industrial processes. Bouygues Energies & Services is committed to developing smart cities and has positioned itself as a full-service project operator in the long-term contract environment (PPP, DBOM). At Smart City Expo World Congress 2017, Bouygues Energies & Services, with Citelum, Suez and Cap Gemini, presented a centralized and connected control center for the management of public facilities, designed for the Dijon Métropole in France. A unique smart city initiative, offering new public services and open urban governance based on Open Data.

www.bouygues-es.com



Bosch is transforming the cities of the future into vibrant, attractive, and sustainable places for people to be. These connected cities are interactive places where everyday life is easy and efficient and where people are in tune with each other and their city.

We provide connected solutions, devices, and information for people in the city. Working with city stakeholders and partners, we strive to simplify urban mobility, enhance safety and security, optimize use of resources, and support citizen participation. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life."

www.bosch.com/smartcities



Cellnex Telecom is Europe's leading operator of wireless telecommunications and broadcasting infrastructures with a total portfolio of more than 24,000 sites all over Europe. The company operates in six countries: Spain, Italy, Netherlands, France, the United Kingdom and Switzerland. Cellnex structures its activities into four main areas: telecommunication infrastructures services; audiovisual broadcasting networks; security and emergency service networks and solutions for smart urban infrastructure and services management (smart cities and the "Internet of Things" (IoT)). Cellnex is listed on the continuous market of the Spanish Stock Exchange and is part of the IBEX 35 and Euro Stoxx 600 indexes. It is also part of the FTSE4GOOD and CDP (Carbon Disclosure Project) sustainability indexes and has recently been included in the Standard Ethics index.

www.cellnextelecom.com



Citelum, a subsidiary of EDF, creates a smart, attractive and sustainable world of light. Citelum is a reference in smart lighting worldwide and has developed a wide range of connected services including: CCTV, traffic management, smart parking, Wi-Fi, Li-Fi, air quality sensors, etc. Over 1,000 cities and industries in the world have already trusted Citelum: Barcelona, Madrid, Mexico City, Copenhagen, Dijon, Nice, Sète, Rome, Venice, etc. At Smart City Expo World Congress 2017, Bouygues Energies & Services and Citelum, in partnership with Suez and Cap Gemini, presented a centralized and connected control center for the management of public facilities, designed for the Dijon Métropole in France. For the project, Citelum will deploy its multi-services management digital platform MUSE® which will enable coordination of the works and maintenance of the facilities and the new connected services implemented (street lighting, traffic light system, access bollards, CCTV, etc.)

www.citelum.com



Civiciti is a participation platform that allows citizens, governments and groups to discover, discuss and decide on the issues that affect them all. Civiciti allows entities and municipalities of all sizes to access a unique channel of communication using state-of-the-art technology. It provides an unbiased and secure environment of continuous democracy that fosters communication between governments and citizens and helps them take the best decisions based on real data. Civiciti offers different services and functionalities in a single environment, giving continuity to citizen participation. Clients don't need anything else. They can start participatory budgets, secure consultations, advanced surveys and proposal discussions.

www.civiciti.com



Dahua Technology is a leading product and solution provider in the global video surveillance industry. It had the 2nd highest share of the global video surveillance equipment market in 2015 according to the IHS 2016 report. It was ranked 4th in 2016 by a&s Security 50, which grades global security industry players. It's committed to providing the highest quality products with the latest technology to enable customers to perform their business successfully. The company's product categories include Advanced Video Surveillance System, Intelligent Transportation System, Smart Building System, Access Control, Video Intercom, Alarm, Smart Lock, etc. Dahua enables a safer society and smarter living.

www.dahuasecurity.com



Deutsche Telekom is one of the world's leading integrated telecommunications companies, with some 156 million mobile customers, 29 million fixed-network lines, and more than 18 million broadband lines. The company provides fixed-network/broadband, mobile communications, Internet, and IPTV products and services for consumers, and information and communication technology (ICT) solutions for business and corporate customers. It's present in more than 50 countries and employs 225,200 people throughout the world, generating €69.2 billion in revenue (2015), about 64% of it outside Germany. Although its core business remains the operation and sale of networks and connections, Deutsche Telekom is committing to new business areas that open new growth opportunities like the area of Smart Cities.

www.telekom.com

Event Partners



ENGIE is committed to taking on the major challenges of the energy revolution, towards a world more decarbonized, decentralized and digitalized. The Group aims to become the leader of this new energy world by focusing on three key activities for the future: low carbon generation in particular from natural gas and renewable energy, energy infrastructure and efficient solutions adapted to all its customers (individuals, businesses, territories, etc.).

Innovation, digital solutions and customer satisfaction are the guiding principles of ENGIE's development. ENGIE is active in around 70 countries, employs 150,000 people worldwide and achieved revenues of €66.6 billion in 2016. The Group is listed on the Paris and Brussels stock exchanges (ENGI) and is represented in the main financial indices (CAC 40, BEL 20, DJ Euro Stoxx 50, Euronext 100, FTSE Eurotop 100, MSCI Europe) and non-financial indices (DJSI World, DJSI Europe and Euronext Vigeo Eiris - World 120, Eurozone 120, Europe 120, France 20, CAC 40 Governance).

www.engie.com



Eptisa is a multinational engineering, consulting and ICT company with more than 55 years of experience. With a presence in more than 45 countries and a network of 25 consolidated local offices, Eptisa is a global company that acts locally, close to the client and to civil society. It specializes in working with municipalities, governments and international organizations such as the European Union, the ADB and the WB. In September 2016, Eptisa strengthened its global reach by becoming part of the Chinese group JSTI, based in Nanjing.

Its expertise now covers all the key sectors of sustainable and smart urban planning: water, environment, mobility, ICT, energy, buildings and socio-economic development. Eptisa provides added value throughout the whole urban transformation process.

www.eptisa.com



ESRI is the global market leader in GIS and has helped customers improve their results since 1969. Today ESRI's software is deployed in more than 350,000 organizations, including the world's largest cities and most national governments. The company is user-centric and research-driven to better serve its customers. It spends 25% of its annual revenue on R&D and has a dynamic workforce with experts in geographic science, software development and data analytics. Users can unlock the full potential of their data with the ArcGIS platform which can be used on any device, at anytime, anywhere.

www.esri.com



Indra is one of the world's top technology and consulting firms and a technology partner for the key operations of its customers' businesses worldwide. It is a leading worldwide provider of proprietary solutions in niche areas in Transport and Defense Markets and the absolute leader in IT in Spain and Latin America. It offers a comprehensive range of proprietary solutions and cutting edge services with high added value in technology based on a unique culture of reliability, flexibility and adaptability to the needs of its customers. Indra is a world leader in the development of end-to-end technology solutions in fields such as Defense and Security, Transport and Traffic, Energy and Industry, Telecommunications and Media, Financial Services, Electoral Processes, and Public Administrations and Healthcare. Minsait is Indra's digital transformation business unit. In 2016 Indra posted revenue of €2,709 million, employed 34,000 professionals, and had a local presence in 46 countries plus sales operations in more than 140 countries. Following its acquisition of TecnoCom, Indra's combined revenue amounted to more than €3,200 million in 2016 with a team of nearly 40,000 professionals.

www.indracompany.com



Intel is known for its processors, but it does much more. Intel invents at the boundaries of technology to make amazing experiences possible for business and society. Today's cities need near-real-time, data-driven insights at the edge, but the challenges are complex—from aging infrastructure, incompatible systems, and diverse state and local agencies to compliance, security, and budget requirements. Intel offers a wide range of solution to improve the quality of life in urban communities. At Smart City Expo World Congress 2017, it presented its Public kiosks, which can help support smart city initiatives by delivering real-time information, services, and alerts to citizens and visitors—quickly and cost-effectively.

www.intel.com/publickiosks



Masdar City is successfully pioneering a “green print” for how cities can accommodate rapid urbanization and dramatically reduce energy and water. The city, which combines ancient Arabic architectural techniques with modern technology, uses clean energy generated onsite from rooftop solar and one of the largest photovoltaic installations in the Middle East. Masdar City is integrating a smart transportation network, which includes cars, metro, light rail transit LRT, group rapid transit GRT, public bus, cycling and pedestrian routes, automated pod cars person rapid transit PRT and a variety of electric-powered public transport options. But most importantly, the city prioritizes walking, cycling and public transportation.

masdar.ae



ISBAK, which was established by the Istanbul Metropolitan Municipality and has been leading technological developments in Smart Transportation Systems with its more than 30-years of experience, has broken ground in Turkey with its R&D Department that it established in 1996. It transforms its expertise into innovative and effective solutions with its R&D Centre that is the first licensed R&D Centre of Turkey, which it put into operation in 2015.

ISBAK, which has renewed its mission, vision and values in order to transfer its experience in Smart Transportation Systems to Smart City Solutions, continues to lead future cities as the Architect of Smart Cities in Turkey and in the World. Presently, ISBAK is continuing its studies and cooperation in its journey, which it started by establishing the first domestic signalization system of Turkey, in order to make all the systems serving the “Smart City” vision to be manageable and sustainable.

It has been performing studies for setting up a strong technological infrastructure in the fields of activities that are needed most by the inhabitants of the city such as Smart Transportation Systems, Transportation Planning and Geographical Information Systems, National and International Consultancy and Planning Services, City Security and Management Systems, Tunnel Management System, Fleet Management System and Smart Lighting System.

isbak.istanbul

Orchestrating a brighter world



NEC can provide a holistic approach for Smart Cities enabling an integrated solution to be deployed in an efficient way, together with Advanced Vertical Solutions for Smart Services. Today what the city really needs is a solution engineered to manage a multitude of evolving smart services whilst enhancing its inhabitants' quality of life. The NEC Platform acts as the “brain” of the city, monitoring and controlling various vertical services. NEC also provides solutions based on smart technologies helping to optimize resource consumption and improve services through better management of demand and supply. This way the city can offer better services to its citizens.

www.nec.com/p-safety

Event Partners



Orange Business Services is focused on supporting the digital transformation of multinational enterprises and French SMEs across the world. With 21,000 employees, Orange Business Services is not only an infrastructure operator but also a technology integrator and a value-added service provider. It offers companies digital solutions that help support their projects. Its integrated technologies range from Software Defined Networks (SDN/NFV), Big Data and IoT, to cloud computing, unified communications and collaboration, as well as cybersecurity. Orange Business Services customers include over 3,000 renowned multinational corporations at an international level and over two million professionals, companies and local communities in France.

www.orange-business.com

Rambus

Rambus is an American company developing technologies and solutions that serve the needs of the market from the Data Center to the Mobile Edge.

Rambus chips, IP cores, architecture licenses, tools, software, services, training and innovations improve customers' competitive advantage. By partnering with chip designers, foundries, IP developers, EDA companies and validation labs, Rambus products are integrated into billions of devices and systems, powering and securing diverse applications, including Big Data, IoT, mobile payments, and smart ticketing. Its new IoT Security Service is a turnkey solution that provides seamless device-to-cloud secure connectivity for service providers and OEMs to meet the evolving challenges of the digital society.

www.rambus.com



Saba is a benchmark industrial operator in the development of solutions in the field of urban mobility, specializing in car park management. With a workforce of more than 1,300 people, the Group operates in five countries in Europe and Latin America and has 200,000 parking spaces in around 400 centers. We understand car parks as one more link in the chain of mobility in cities and propose a new sustainable model focused on inclusive, safe, resilient, and sustainable communities.

www.saba.eu



Schröder is a worldwide leader in intelligent outdoor lighting solutions. The company, founded in 1907, serves its customers around the world through 48 subsidiaries and five R&D centers. As clients' 'Partner Beyond Light', the company designs and develops intelligent solutions that transform public and private spaces into safe, comfortable, sustainable and smart environments with engaging experiences for users and operational benefits for managers.

www.schreder.com



Silver Spring Networks enables the Internet of Important Things™ by reliably and securely connecting things that matter. Cities, utilities, and companies on five continents use the company's cost-effective, high-performance IoT network and data platform to operate more efficiently and enable innovative services that can improve the lives of millions of people. With more than 26 million devices delivered, Silver Spring provides a proven standards-based platform safeguarded with military grade security. Silver Spring Networks' customers include Baltimore Gas & Electric, ComEd, Consolidated Edison, CPS Energy, Florida Power & Light, Pacific Gas & Electric and many others.

www.ssni.com



Smart Dubai is anchored in the vision of His Highness Sheikh Mohammed Bin Rashid Al Maktoum to make Dubai the happiest city on earth. Collaborating with private sector and government partners, Smart Dubai is the government office charged with facilitating Dubai's citywide smart transformation, to empower, deliver and promote an efficient, seamless, safe and impactful city experience for residents and visitors. Smart Dubai is committed to a collaborative and agile approach to Dubai's smart city transformation, empowering strategic partnerships with the public sector, private sector and academia to design and implement services and elevate citywide thought leadership, in line with its mission to make Dubai the happiest city on earth through technology innovation.

www.smartdubai.ae



PTC's ThingWorx platform provides broad and robust sets of integrated IoT-specific development tools for developing innovative IoT solutions for a variety of industry applications. ThingWorx includes rapid application development functionality, connectivity, advanced analytics, machine learning, and augmented reality, and integrates with leading device clouds. These capabilities enable businesses to securely connect assets and create innovative applications and services, supporting digital transformation initiatives across industries.

www.ptc.com



Ujet Group is a new age transformational company that sits on the exciting intersection of high-tech, advanced materials, connectivity, and sustainable thinking. Founded in 2015, Ujet Group is offering a new generation of urban mobility solutions that empowers urban communities to create more sustainable cities using smart technologies. With a design center in Germany and state of the art assembly plant in Luxembourg, Ujet Group employs more than 55 professionals from eclectic backgrounds that match the company's vision of being a hi-tech platform and incubator providing game-changing solutions and services to evolving and engaged city dwellers today and tomorrow. Solutions like the Ujet e-scooter will embody freedom, access, and opportunity and recapture the joys of city life.

www.ujet.com

UNIT

UNIT LLC is a Ukrainian IT company that creates and develops products to impact the digital transformation of society in Ukraine. Every implemented product was developed to improve the living standards of citizens and drive Ukrainian society to the idea of Smart City. UNIT is an investor and developer of “Kievan Card”. This is a bank card with a number of additional services. The “Kievan Card” includes eight modules: transport, healthcare, commercial, insurance, education, culture, housing and utilities, administrative services. The solution helps Kiev to stand out among other capitals in Eastern Europe. This is an innovative product that is an indispensable part of a Smart City. This is the experience that is worth telling the world about.

unit.com.ua



URBASER is a business group that belongs to Firion Investments and a leader in providing services related to the environment. It specializes in street cleansing, waste removal and transporting, urban waste treatment and recycling and comprehensive management of the water cycle, as well as urban landscaping and gardening. It also leads the removal and treatment of used mineral oils and industrial waste. URBASER covers the entire value chain when providing these services. The company also works in the field of renewable energies with a view to limiting the negative impact of greenhouse gases and is developing treatment processes for alternative sources of energy, biomass from biomass crops, waste woodland mass, and biodegradable agricultural and industrial waste.

www.urbaser.es

VIMANA®

Redwood City, California-based VIMANA, founded by CEO Evgeni Borisov, is launching a blockchain-backed airspace network to operate autonomous aerial vehicle flight paths as smart cities of tomorrow embrace air transportation. Exploding urban populations demand transportation solutions outside of existing road and train infrastructure. VIMANA’s Vertical Takeoff and Landing Autonomous Aerial Vehicles (AAVs) will move seamlessly in 3D cityscapes by communicating directly with other AAVs running on the VIMANA Blockchain Airspace Network. The company plans to roll out its urban air mobility solution first, followed by solutions for cargo and hazardous conditions at a later stage.

vimana.global



Worldsensing is a widely recognized global IoT pioneer. Founded in 2008, the Barcelona-based technology provider delivers Operational Intelligence to traditional industries and cities. With over 70 employees and offices in Barcelona, London and Los Angeles, Worldsensing is globally active and has already conducted projects in over 50 countries in five continents. With a focus on developing integrated software and hardware solutions for both smart city and industrial applications, the company’s flagship products are those related to its integrated City Operational Intelligence Solution Mobility, Loadsensing, the Connected Infrastructure Solution and Fastprk, its Parking Management System.

www.worldsensing.com

Hosted by



Barcelona, an innovative and digital city, wants to take advantage of modern technologies to improve citizens' lives, create new jobs and be more sustainable and collaborative. This new strategy considers public digital services as the key to a more equitable city, reducing social and economic inequalities and ensuring the sovereignty of technology and data. Digital Barcelona works in four areas: The city and its challenges; Technology and public innovation; Socioeconomic and innovation ecosystems and the empowerment of citizens. Barcelona goes further than being a Smart City; it is not only about technology, it is all about people.

www.barcelona.cat

Organized by



Fira Barcelona

Fira de Barcelona is one of the leading European trade fair institutions and the Spanish market leader, particularly in trade and industrial shows. It has a portfolio of over 80 shows of different frequencies with 30,000 exhibitors, both direct and represented, and receives two million visitors from over 200 countries. The institution has some 400,000 square meters of exhibition floor space, one of the largest in Europe, spread over two venues: Montjuïc and Gran Via. Fira de Barcelona has established itself as a global event organizer with international positioning, twinned with the unmatched Barcelona brand, a city with over a century of tradition in the organization of big events.

www.firabarcelona.com



4.

Exhibition Area



COMPANY

2GETTHERE
 6AIKA: CITY OF HELSINKI, ESPOO, TAMPERE, VANTAA, OULU, TURKU
 7G WIFI
 99CLOUD
A
 A.P.SYSTEMS
 A2M
 ABARO
 ABB
 ACCELLERAN
 ACIIST SMART NETWORKS
 ACIN ICLOUD SOLUTIONS
 ACTOLL
 ACTUA INVEST IN ANDORRA
 ADEC TECHNOLOGIES
 ADOXIO
 ADVANTAGE AUSTRIA
 AFCON CONTROL & AUTOMATION, SOFTWARE DIVISION
 AGENT VIDEO INTELLIGENCE
 AGENZIA PER LA COESIONE TERRITORIALE - PON METRO
 A-INSINÖÖRIT
 AIT - AUSTRIAN INSTITUTE OF TECHNOLOGY
 AJUNTAMENT DE L'HOSPITALET
 ALDEBARAN
 ALNA
 ALPINE PRO CHINA
 AMAZON WEB SERVICES
 AMC NETWORK
 AMEC URBIS
 AMURRIO FERROCARRIL Y EQUIPOS
 ANPO TECHNOPORT
 ANTEVERTI
 AOD
 APTICA
 AQUAMATIX
 ÀREA METROPOLITANA DE BARCELONA
 ARELSA
 ARMIS
 AS REACH-U

ASPERN SMART CITY RESEARCH
 ASSOCIACIÓ EMPRESARIAL PEDROSA
 ASSOCIACIÓ WOMAN IN GAMES
 ATEKNEA SOLUTIONS EUROPE
 AUVERGNE RHÔNE-ALPES ENTREPRISES
 AVANCAR
 AVEPOINT
 AVIAPOLIS
 AXIS COMMUNICATIONS
B
 B.H.C.
 B2M SOFTWARE
 BADEN-WÜRTTEMBERG INTERNATIONAL
 BAMBOO GROUP
 BARCELONA SUPERCOMPUTING CENTER (BSC)
 BAVARIAN PAVILION
 BAXENERGY ITALIA
 BEEODIVERSITY
 BEIJING GS TECHNOLOGY - GSAFETY
 BEIJING TERRA VISION
 BEMOBILE
 BERLIN PARTNER
 BERLINER AGENTUR FÜR ELEKTROMOBILITÄT EMO
 BH TECHNOLOGIES
 BIGBELLY
 BIKEEP
 BIN-E
 BISMART
 BISMART BUSINESS INTELLIGENCE SERVICES
 BIT4ID IBERICA
 BIZERTE SMART CITY
 BODØ MUNICIPALITY-SMART CITY IN THE ARCTIC
 BOSCH
 BOUYGUES ENERGIES ET SERVICES
 BRILLIANT SYSTEMS
 BRILLIANT TECHNOLOGY
 BS2 SICHERHEITSSYSTEME
 B-SPROUTS

BUILDINGS & ICT
 BUSAN CENTER FOR CREATIVE ECONOMY & INNOVATION
C
 CAF - CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES
 CAMPUS ENERGYVILLE
 CAPMAR
 CAR2GO
 CARMERA
 CARNET
 CARTO
 CAVE DIGITAL
 CCTV CENTER
 CELLNEX
 CENTRE DE RECHERCHE EN AERONAUTIQUE CENAERO
 CERTICON
 CGI
 CHARVET DIGITAL MEDIA
 CHECK POINT
 CHINASOFT INTERNATIONAL
 CHORDANT
 CICADA TECHNOLOGIES
 CIEMSA
 CIMCON LIGHTING
 CISCO
 CITCEA-UPC
 CITELUM
 CITIBRAIN
 CITIES OF JOENSUU & JYVÄSKYLÄ
 CITIES OF MALMÖ, LUND, HELSINGBORG, ELONROAD, GREINON
 CITIES TODAY
 CITILOG
 CITIZENLAB
 CITY DIGITAL
 CITY OF AARHUS
 CITY OF AMSTERDAM
 CITY OF ANTWERP
 CITY OF ATLANTA, GEORGIA
 CITY OF AURANGABAD

CITY OF BARCELONA
 CITY OF BERLIN
 CITY OF BIZERTE
 CITY OF BODØ
 CITY OF BRUSSELS
 CITY OF BUCARAMANGA
 CITY OF BUSAN
 CITY OF CHICAGO
 CITY OF COPENHAGEN
 CITY OF DUBAI
 CITY OF EINDHOVEN
 CITY OF FLORENCE
 CITY OF GENOA
 CITY OF GHENT
 CITY OF KARLSRUHE - ECONOMIC DEVELOPMENT DEPARTMENT
 CITY OF KOBE
 CITY OF LEEDS
 CITY OF L'HOSPITALET
 CITY OF MADRID
 CITY OF MILAN
 CITY OF MONTEVIDEO
 CITY OF NEW YORK
 CITY OF PRATO
 CITY OF REGGIO CALABRIA
 CITY OF RIVAS VACIAMADRID
 CITY OF ROME
 CITY OF ROTTERDAM
 CITY OF SCHENECTADY
 CITY OF 'S-HERTOGENBOSCH
 CITY OF TARNÓW
 CITY OF TEL AVIV
 CITY OF THE HAGUE
 CITY OF TRONDHEIM
 CITY OF TURIN
 CITY OF VENICE
 CITY OF YOKOHAMA
 CITYBRAIN
 CITYGLOBE
 CITYMART
 CITYSHOB
 CIVICITI
 CLARITY MOVEMENT
 CLEVERCITI SYSTEMS
 CLICK & GROW
 CLUSTER ANDALUCIA SMART CITY
 COLEGIO OFICIAL DE INGENIEROS DE TELECOMUNICACIONES (COIT)
 COMMISSARIAT À L'ÉNERGIE ATOMIQUE ET AUX ÉNERGIES ALTERNATIVES (CEA)
 COMMUNITHINGS
 COMODULE
 COMUNIDAD FELIZ
 CONNECTHINGS
 CONTEXTSPACE SOLUTIONS
 COPADATA
 CORPORACION EMPRESARIAL VECTALIA
 COWI AS/SOLLIHØGDA PLUSBY
 CR SEARCHLIGHT
 CROSSLUX
 CSIT
 CTRL4ENVIRO
 CUBIC
D
 DAHUA
 DAPESCO
 DATALONG16
 DCBRAIN
 DEDRONE
 DEJERO
 DELOITTE
 DENMARK
 DEUTSCHE TELEKOM
 DHC SOFTWARE
 DIAB
 DIEHL METERING

DIGITAL ISRAEL BUREAU - MINISTRY FOR SOCIAL EQUALITY
 DIGITAL LIGHTING
 DIGITAL WALLONIA
 DIGITALTOWN
 DILAX
 DIMONOFF
 DIPUTACIÓ DE BARCELONA
 DIRECCIÓN GENERAL DE TRÁFICO (DGT)
 DISTROMEL
 DITECH
 DIVERCITIES
 DOG PARKER
 DORLET
 DPP TECH
 DRONEFUTURA
 DRUKARNIA CZESTOCHOWSKIE ZAKŁADY GRAFICZNE SP. Z O.O.
 DSP VALLEY
E
 E.ECO VITERBO
 E3TCITY
 EASYMILE
 EASYPARK
 EBEE SMART TECHNOLOGIES
 EDASCA SCE
 EDF DEUTSCHLAND
 EERA JOINT PROGRAMME ON SMART CITIES
 EIP-SCC
 EIT DIGITAL
 EKIONA SOLAR LIGHTING
 ELECNOR
 ELICHENS
 ELT
 EMBASSY OF THE UNITED STATES OF AMERICA - COMMERCIAL SECTION

“

“I am always amazed at the sheer size of the floor and the richness of the exhibitors”

Tim Turitto
 Worldwide General Manager
 Government, Microsoft

EMCO E-SCOOTER
 E-MOBIL BW
 EMSER
 EMZ - ENVIRONMENTAL TECHNOLOGY
 ENBW
 ENECO
 ENEDIS
 ENERGIS
 ENGIE
 ENGINENY PROJECT
 ENTERPRISE SOLUTIONS
 EPTISA-JSTI
 ESCOLA JOAQUIM RUYRA DE L'HOSPITALET
 ESCOLA MARE DE DÉU DE BELLVITGE DE L'HOSPITALET
 ESPRESSO
 ESRI
 ESRI CHINA INFORMATION TECHNOLOGY

ESTONIA
 ETRA
 EUROFIBER
 EUROPEAN COMMISSION
 EUREKA SMART WASTE MANAGEMENT SOLUTIONS
 EXPOPOLIS
F
 FAMA SYSTEMS
 FAROMEDIA CREATIVE NETWORK-INTERAKTIVE
 FCC SERVICIOS CIUDADANOS
 FERROCARILS DE LA GENERALITAT DE CATALUNYA (FGC)
 FERROVIAL SERVICES
 FETC INTERNATIONAL
 FF SYSTEMBAU
 FH JOANNEUM, UNIVERSITY OF APPLIED SCIENCES
 FIND YOUR GAP - ECHTZEIT PARKINFORMATIONSSYSTEME
 FINGERTIPS
 FINLAND
 FIWARE
 FLANDERS
 FLASHNET
 FLEXTILA
 FLIR SECURITY
 FLUICITY
 FLUIDTIME DATA SERVICES
 FLUXGUIDE AUSSTELLUNGSSYSTEME
 FONATSCH
 FONDA TECHNOLOGY
 FOOT ANALYTICS
 FORD
 FRAUNHOFER IAO
 FUJISAKI ELECTRIC
 FUJITSU
 FUNDACIÓ CENTRE TECNOLÒGIC DE TELECOMUNICACIONES DE CATALUNYA (CTTC)
 FUNDACIÓ EURECAT
 FUNDACIÓ PRIVADA I2CAT, INTERNET I INNOVACIÓ DIGITAL A CATALUNYA
 FUNDACION ICIL
 FUTURE DIALOG
G
 GAS GAS - TORROT
 GDI
 GENELAB
 GENERALITAT DE CATALUNYA
 GENETEC
 GERMAN FEDERAL MINISTRY OF EDUCATION RESEARCH
 GINSA
 GLODON
 GOBERNACIÓN DE ANTIOQUIA
 GOLDSCHMIDT THERMIT RAILSERVICE
 GRAND CENTRAL TECH
 GREEN DIGITAL CHARTER
 GREENIQ
 GRENOBLE-ALPES MÉTROPOLÉ
 GROWSMARTER
 GRUP PLANETA
 GSMA
 GSMA MIOT
H
 HABIDATUM
 HAKOM SOLUTIONS
 HANDHELD EUROPE
 HANGZHOU HIKVISION DIGITAL TECHNOLOGY
 HECTRONIC
 HEMAV
 HENAN ZHONGXIAO INTERNET OF THINGS TECHNOLOGY
 HERTA SECURITY
 HEXAGON

HIGHQ COMPUTERLÖSUNGEN
 HIKOB
 HOLLAND PAVILION
 HONEYWELL
 HOPLR
 HUAWEI
 HYDROSCAN
I
 I.S.R. TECHNOLOGIES (ISRAEL)
 IANUS CONSULTING AND DEVELOPMENT
 IBIOLA MOBILITY SOLUTIONS
 ICE - ITALIAN TRADE AGENCY
 ICEX
 ICONICS
 IDC
 IDIBELL
 IDOM
 IEM GROUP
 IK4-IKERLAN
 IKUSI
 IMDEA SOFTWARE INSTITUTE
 IMEC LEUVEN
 IMMERACTIVE
 INCINITY
 INCLUDE
 INCONNECT-GROUP
 INCREMENTAL SOLUTIONS
 INDRA
 INECO
 INFRAPLAN
 INNODEP
 INNOVA&SMART CONSULTING (DOXA)
 INNOVATE4CLIMATE
 INS INSIDER NAVIGATION SYSTEMS
 INSTITUT DE RECHERCHE TECHNOLOGIQUE
 INSYS ICOM
 INTEGR@ PARKING SOLUTIONS
 INTELLIGENT SMART IDEAS
 INTERACTIVE 4D
 INTERDIGITAL
 INTERSECTION
 INVEST IN GRENOBLE-ISÈRE
 INVEST IN SELANGOR
 IOT DENMARK
 IOT SOLUTIONS WORLD CONGRESS
 IOTSSENS
 IP GALLERY
 IQUADRAT INFORMATICA
 IRH - INFRAROT - HEIZUNGSSYSTEME
 IS CLEAN AIR
 ISAAC
 ISBAK ISTANBUL IT & SMART CITY TECHNOLOGIES
 ISRAEL EXPORT INSTITUTE
 ITC
 ITRON
 ITSOLUTIONS
J
 JETRO
 JIANGSU GUOTAI EPOINT SOFTWARE
 JIANGXI SANCHUAN WATER METER
 JOYN
K
 K2 GEOSPATIAL
 KEBAI SCIENCE BEIJING
 KIMALDI
 KONNEKTIS
 KRUCH SIDOS
 KU LEUVEN
 KUNAK AIR TECHNOLOGIES
 KYRON STREET
 KYITI GROUP
L
 L&T TECHNOLOGY SERVICES
 LA CELSIA

LABORATOIRE D'EXCELLENCE - INTELLIGENCES DES MONDES URBAINS
 LAZIO INNOVA
 LEADING CITIES
 LEANHEAT
 LEAPCRAFT
 LED CENTS
 LEEDS CITY REGION ENTERPRISE PARTNERSHIP
 LEITAT
 LETI CEA TECH
 LETSGO CITY
 LH - KOREA LAND & HOUSING CORPORATION
 LIAONING SCALER TECHNOLOGY
 LIBELIUM
 LIJT - LUZ SOLAR
 LITTLE ELECTRIC CAR
 LIVECITIES
 LIVING TOMORROW
 LKS INGENIERÍA
 LOCATE IN LIMBURG
 LONSHINE TECHNOLOGIES SUZHOU
 LPV
 LUMIPLAN
 LYON MÉTROPOLÉ
M
 M2AIM
 MAGISTRATSABTEILUNG 20 - ENERGIEPLANUNG
 MAKE IT YORK
 MARIMATIC
 MARKETPLACE.CITY
 MASQUELEARNING
 MASTERCARD
 MATRIX
 MCC TELECOM
 MESSE MÜNCHEN
 MESSINA
 METRIC ARTS
 METRO CONTROL
 METROPOLIS BARCELONA
 METROPOLIS:LAB
 MICROSOFT
 MINALOGIC
 MITSUFUJI CORPORATION
 MOBA
 MOBI LAB OÜ
 MOBIKE
 MOBILEYE
 MOBILITY&TRANSPORT
 MONDRAGON
 MOOVEL GROUP
 MOTOROLA SOLUTIONS
 MOVE SYSTEMS
 MOVUS
 MPREST
 M-PRODUCTS
 MPT - MOBILIDADE E TERRITÓRIO
 MR - BUBO
 MS.GIS INFORMATIONSSYSTEME
 MULTITEL
 MUNROE K
 M-U-T MASCHINEN-UMWELTECHNIK-TRANSPORTANLAGEN
 MYCELIUM NETWORKS
 MYSMARTLIFE
N
 NAVLY
 NAVVIS
 NEARBYSENSOR
 NEC
 NEDAP
 NETAS
 NEUSTAR
 NEW LAB
 NEW YORK CITY PAVILION

NEXUS GEOGRAPHICS
 NORDIC EDGE / STAVANGER-REGION SMART CITY CLUSTER
 NORDSENSE
 NORTH SWEDEN CLEANTECH
 NORWAY
 NOVACCESS
 NYC ECONOMIC DEVELOPMENT CORPORATION
O
 OBIKE
 OIZOM
 ONDOAN
 OPEN & AGILE SMART CITIES (OASC)
 OPENDATA
 OPENDATASOFT
 OPTICITS
 ORANGE APPLICATIONS FOR BUSINESS
P
 PANSOFIK
 PARK SMART
 PARKAM (ISRAEL)
 PARKARE
 PARKBOB
 PARKD
 PARKEON
 PARKKISÄHKÖ
 PARQUERY
 PARTITALIA
 PASCH Y CIA
 PAYIQ
 PBSC URBAN SOLUTIONS
 PERCALL & SMOOVE
 PESSL INSTRUMENTS
 PHOTINUS - BRILLIANCE IN LIGHTING
 PILASTER
 PILZ
 PLANET IDEA
 PLAYKERS
 PMG TECHNOLOGIES
 PÔLE SCS
 POLYCONSEIL
 PRISMA SOLUTIONS
 PROCHILE
 PROCONSI
 PRODWARE, MICROSOFT PARTNER, MICROSOFT
 PTC
 PTV PLANUNG TRANSPORT VERKEHR
 PUBLIC FOUNDATION OF KANSAI RESEARCH INSTITUTE
 PYXIS
Q
 QUÉBEC
R
 RADWIN
 RAILGRUP
 RAILTECH KLK
 RAILTECH SUFETRA
 RAMBØLL GROUP
 RAMBUS
 REALI TECHNOLOGIES
 REALTERM ENERGY
 REMOURBAN
 REPLICATE
 REPORTY HOMELAND SECURITY
 RESPONSCITY
 REVOLTA
 REVOLUTIONI1
 REYCO INGENIERIA Y SERVICIOS
 ROMA CAPITALE - DIPARTIMENTO PROGETTI DI SVILUPPO E FINANZIAMENTI EUROPEI
 ROMBOUS HOLDING
 ROS ROCA
 ROSMIMAN

ROTAS ITALIA
 RUCKUS
 RUGGEDISED
 RUICHENG TECHNOLOGY
S
 SABLE CORPORATION
 SAFER PLACE
 SAIMA
 SALESFORCE
 SALVI
 SANSI
 SAP
 SC SYSTEGRA ENGINEERING
 SCE LATAM
 SCHNEIDER ELECTRIC
 SCHREDER SOCELEC
 SCIS
 SCUTER
 SEAT
 SEISMICAI
 SENSEFIELDS
 SENSING & CONTROL SYSTEMS
 SETTLEMINT
 SHAOXING HUA WEI ZHONGBANG MDT
 INFO TECH
 SHAOXING TAIWEI INFORMATION
 TECHNOLOGY
 SHARINGCITIES
 SHENZHEN CLOU ELECTRONICS
 SHENZHEN RENCARE TECHNOLOGY
 DEVELOPMENT
 SHIPITWISE
 SHORT EDITION
 SICTIAM
 SIEMENS
 SIKLU
 SILVER SPRING NETWORKS
 SIMAC
 SIMBIM SOLUTIONS
 SIMPLIT
 SINAPSE
 SIRIAS INGENIERÍA
 SIS.TER
 SISTEMAS EXPERTOS E INGENIERÍA DE
 SOFTWARE
 SISTEMAS KERN
 SISTROL
 SITEP
 SITOWISE
 SK TELECOM
 SKALAR AS
 SKÁNE REGION
 SKYLANE OPTICS
 SMART CITIES SAN DIEGO
 SMART CITY AURANGABAD
 SMART CITY SWEDEN
 SMART DUBAI
 SMART PARKING
 SMART SPACE
 SMART SUSTAINABLE INNOVATIVE CITY
 OF STOCKHOLM
 SMARTAPPCITY
 SMARTATL
 SMARTENCITY
 SMARTER DC
 SMARTER TOGETHER
 SMARTMEDIA
 SMARTNODES
 SOCIEDAD COMERCIAL Y SERVICIOS ABACO
 SOLOMON
 SOLUTIONS MODEX
 SOOFA
 SORAMA
 SOSMART
 SOUTH SWEDEN
 SPARSITY

SPL LYON CONFLUENCE
 STADLER
 STOCKHOLM, GROW SMART PROJECT
 SUEZ
 SUIPHOS URBAN INTELLIGENCE (SUI)
 SURF COMMUNICATION SOLUTIONS
 SUSTAINER
 SWEDEN
 SWISS INNOVATION LAB
 SYREN
 SZ REACH TECH
T
 T2V
 TAIPEI COMPUTER ASSOCIATION
 TAIPEI SMART CITY PROJECT
 MANAGEMENT OFFICE
 TALQ CONSORTIUM
 TÉCNICAS COMPETITIVAS
 TECNOGEO
 TECSIDEL
 TEGEL PROJEKT
 TEKNE
 TEMPEL GROUP
 TENERRDIS
 TERABEE
 THE DISTRICT OF COLUMBIA
 THE ORGANIZING COMMITTEE OF KYOTO
 SMART CITY EXPO
 THE SMART CITY RESEARCH INSTITUTE
 OF CHINA ELECTRONICS TECHNOLOGY
 GROUP CORPORATION
 THE SOCIAL COIN
 THE WORLD OF THOR
 THERMIT ITALIANA
 THINGSPLAY
 THINK TANK
 THOUGHTWORKS
 TIETO/RED OCEAN
 TINKERERS
 TMB
 TOMORROW LAB
 TOMTOM
 TOSE SOFTWARE HANGZHOU
 TRACTO-TECHNIK
 TRAM
 TRANSDEV
 TRIAD
 TRIANGULUM
 TRONDHEIM MUNICIPALITY/NTNU
 TSG IT ADVANCED SYSTEMS, FOXBERRY
 TECHNOLOGIES
 TSS TRANSPORT SIMULATION SYSTEMS
 TURNIT
 TÜV SÜD IMMOWERT
U
 U.S. COMMERCIAL SERVICE
 U.S. PAVILION
 UBIK SOLUTIONS
 UIV URBAN INNOVATION VIENNA
 UMBO COMPUTER VISION
 UN-HABITAT
 UNION DES MUNICIPALITÉS DU QUÉBEC
 UNIT
 UNIVERSITAT POLITÈCNICA DE CATALUNYA
 / UPC TECHNOLOGY CENTER (CIT UPC)
 UNIVERSITE DE LIEGE SMART CITY
 INSTITUTE
 UNIVERSITY OF APPLIED SCIENCES
 POTSDAM
 UNIVERSITY OF ABERDEEN
 UPC / ECHORD ++
 URBAN AI (STARLAB)
 URBAN CLOUDS
 URBAN INSTITUTE
 URBANLOGIQ
 URBASER

URBIKES CITY
 URBIOTICA
 UTRECHT REGION
 UVAX
V
 VADECITY
 VECTUEL
 VEXCEL IMAGING
 VIA LIBRE
 VIRATECHNOLOGIES
 VOCITA LVC
 VODAFONE
 VOLTAIC SYSTEMS
 VTT TECHNICAL RESEARCH CENTRE OF
 FINLAND
W
 WALLONIA
 WANXIANG GROUP
 WASION GROUP
 WATCHITY
 WATTABIT
 WELLNESS SMART CITIES & SOLUTIONS
 WENGLOR
 WEVER
 WINDNODE
 WIRTSCHAFTSAGENTUR WIEN
 WISEUP
 WITRAFI
 WORLDSENSING
 WR CITIZENS (GAGNANTS DU HACKHATON
 DIGITAL WALLONIA)
X
 XIAMEN LENZ COMMUNICATION
 XI'AN CHINASTAR M&C
Y
 YITU
Z
 ZEITMEILEN
 ZENCITY
 ZENTRUM DIGITALISIERUNG BAYERN
 BICCNET
 ZHEJIANG CHINT ELECTRICS
 ZHEJIANG HELOWIN MEDICAL
 TECHNOLOGY
 ZHEJIANG INNOTEK
 ZHEJIANG PROVINCE
 ZIBLUE
 ZTE

“

**“This has been a
 wonderfully rich and a
 wonderfully important
 event for us. We’ve been
 able to engage with so
 many cities around the
 world.”**

Hany Fam
 Executive Vice President
 Enterprise Partnerships,
 Mastercard

4YFN Smart City Village



For the third year running, 4 Years From Now (4YFN), the startup business platform of Mobile World Capital Barcelona, led the smart tech innovators area labeled **4YFN Smart City Village**, located next to the Congress area.

A curated selection of startups pitched their services and products for redesigning the life in cities to investors, corporates and the general audience, while experienced entrepreneurs explained how to successfully raise a million in Spain and what the challenges are that startups face scaling up. They also talked about how Next Generation Internet (NGI) can better respond to the needs of citizens, and floated fresh ideas on privacy, trust and data lake management.

The 4YFN Lounge area hosted a workshop on equity-free funding for startups within the EU, which will invest **€2,000 million by 2020** in startups and Small and Medium-sized Enterprises (SMEs) via a range of programs and instruments.

Finally, the GSMA Mobile IoT Innovators community discussed how Mobile IoT technologies are being used to contribute to smart city success.

Entrepreneurs who participated in 4YFN sessions coincided that "it was great to see how smart cities are evolving". Some highlighted that Smart City Expo World Congress was "the right place to be in that sense".

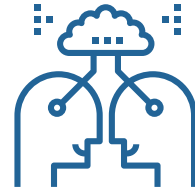
4YFN Figures



40
Startups



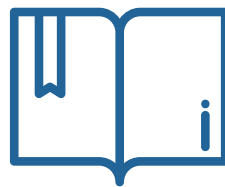
14
Countries



8
Startup & City
Matchmaking
Sessions



22
Startup
Pitches



9
Mentoring
Sessions

5.

Governments



“

“The Smart City Expo World Congress has become the cornerstone for every city manager to learn from other cities and from other technology companies how to serve their people to become happier.”

Aisha Bin Bishr
Director General, Smart Dubai Office

Smart City Expo World Congress was the meeting point for technical and political representatives from more than **700 cities and 120 countries** in the biggest-ever gathering of public authorities in the event's history. They all shared the latest trends in the use of technologies to implement sustainable urban planning and discussed the common challenges facing them in the future.

More than 75 cities, regions, countries and organizations built their own pavilions to show the world their success in the implementation of smart solutions, promote their local companies and find funding. Their delegates also organized a myriad of activities (receptions, workshops, cocktails, performances, etc.) at their meeting points throughout the venue and presentations for companies through their network, so that they could establish significant partnerships and different forms of collaboration with companies and institutions worldwide.

This was a unique opportunity to discover at first-hand projects such as the Dubai Blockchain Strategy, epitomizing this innovative technology's ability to keep data secure and optimize decisions to better run a city state. Attendees could also delve into the successful Amsterdam Circular City Innovation Program, the New York City projects focusing on user experience as a key consideration for success, and the Andorra Living Lab, developed jointly with researchers from the Massachusetts Institute of Technology (MIT) to bring smart solutions to the little country in the Pyrenees, to cite only a few.

A vast number of **key government authorities** from around the world and major global institutions like the United Nations Human Settlements Program (UN-Habitat) shared best practices on sustainable urban planning and identifying areas of common ground.

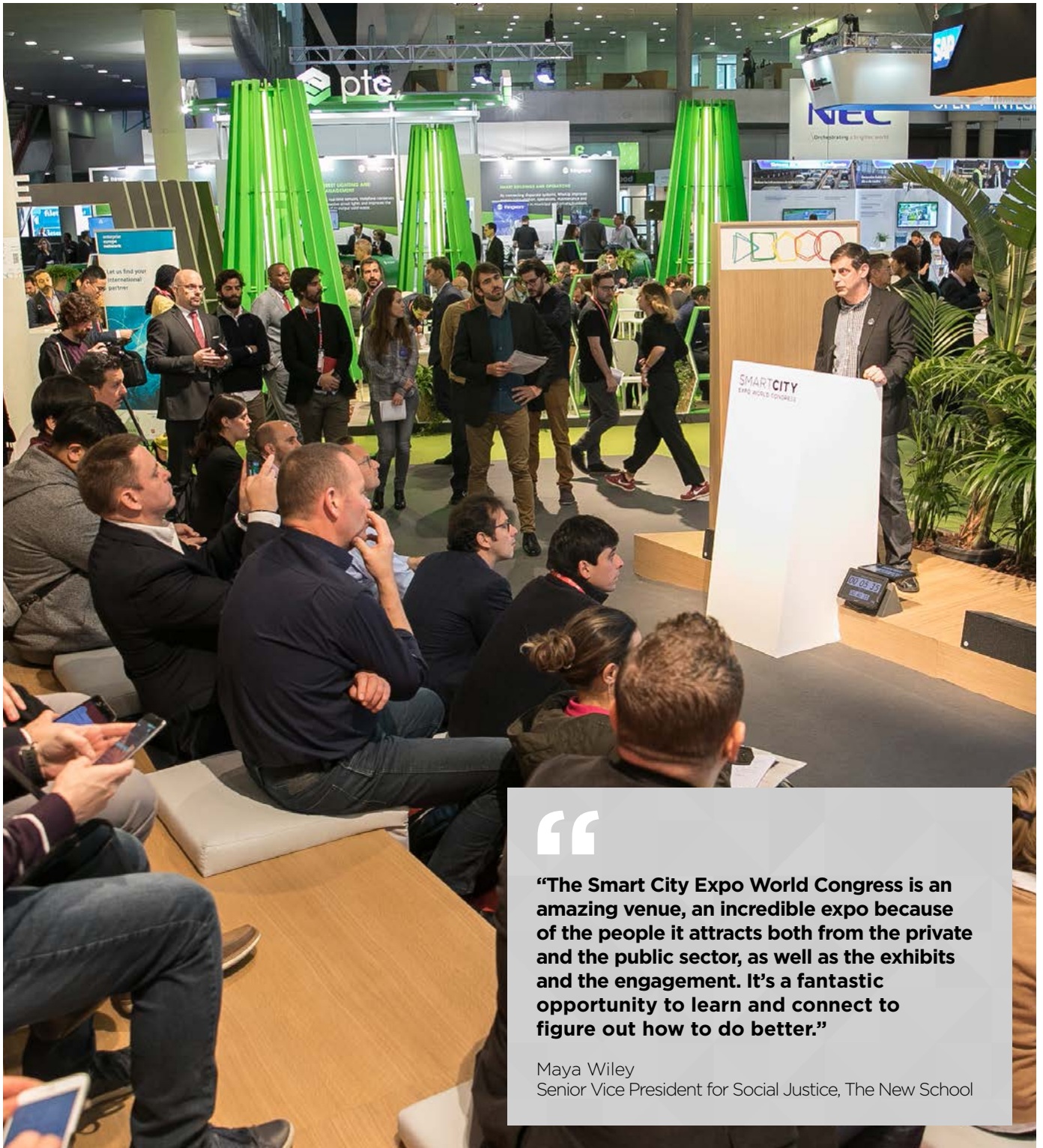
Cities and Governments exhibiting from all over the world

Aarhus	Brussels	Genoa	Madrid	Sweden
Andorra	Bucaramanga	Germany	Malmö	's-Hertogenbosch
Area Metropolitana de Barcelona	Busan	Ghent	Milan	Taipei
Aspern	Casablanca	Grenoble	Montevideo	Tarnów
Atlanta	Chicago	Holland	Moscow	The Hague
Aurangabad	Chile	India	New York	Tel Aviv
Australia	Copenhagen	Israel	Norway	Turin
Austria	Denmark	Italy	Prato	UN-Habitat
Baden-Württemberg	Dubai	Japan	Puebla	USA
Barcelona	Estonia	Karlsruhe	Québec	Venice
Bayern	European Commission	Kobe	Rivas Vaciamadrid	Vienna
Belgium	Finland	L'Hospitalet de Llobregat	Rome	Wallonia
Berlin	Flanders	Leeds	Russia	Yokohama
Bizerte	Florence	Lódz	Selangor	Zhejiang
Bodo	Generalitat de Catalunya	London	Schenectady	
		Lyon	Spain	
			Stockholm	



6.

Smart City Plaza



“

“The Smart City Expo World Congress is an amazing venue, an incredible expo because of the people it attracts both from the private and the public sector, as well as the exhibits and the engagement. It’s a fantastic opportunity to learn and connect to figure out how to do better.”

Maya Wiley
Senior Vice President for Social Justice, The New School

Smart Reality at your fingertips

Right at the heart of the event, a real city plaza was recreated so that attendees could make the most of two main arenas for gathering and networking: **the Agora and the Marketplace.**

Agora

The word Agora is Greek for **'open-space for assembly.'** Back in the Hellenistic period, it referred to public gatherings but also to a setting where people were used to hearing orators. In this year's edition, Smart City Expo World Congress brought visitors full circle back to the Greek arena where citizens assembled to listen and learn.

Selected speakers debated on the challenges faced by cities and presented the most innovative case studies on urban innovation to the passer-by audience. The place, which included a smart café to have a coffee and grab a healthy snack, also welcomed diverse workshops on city developments and public-private partnership successes.

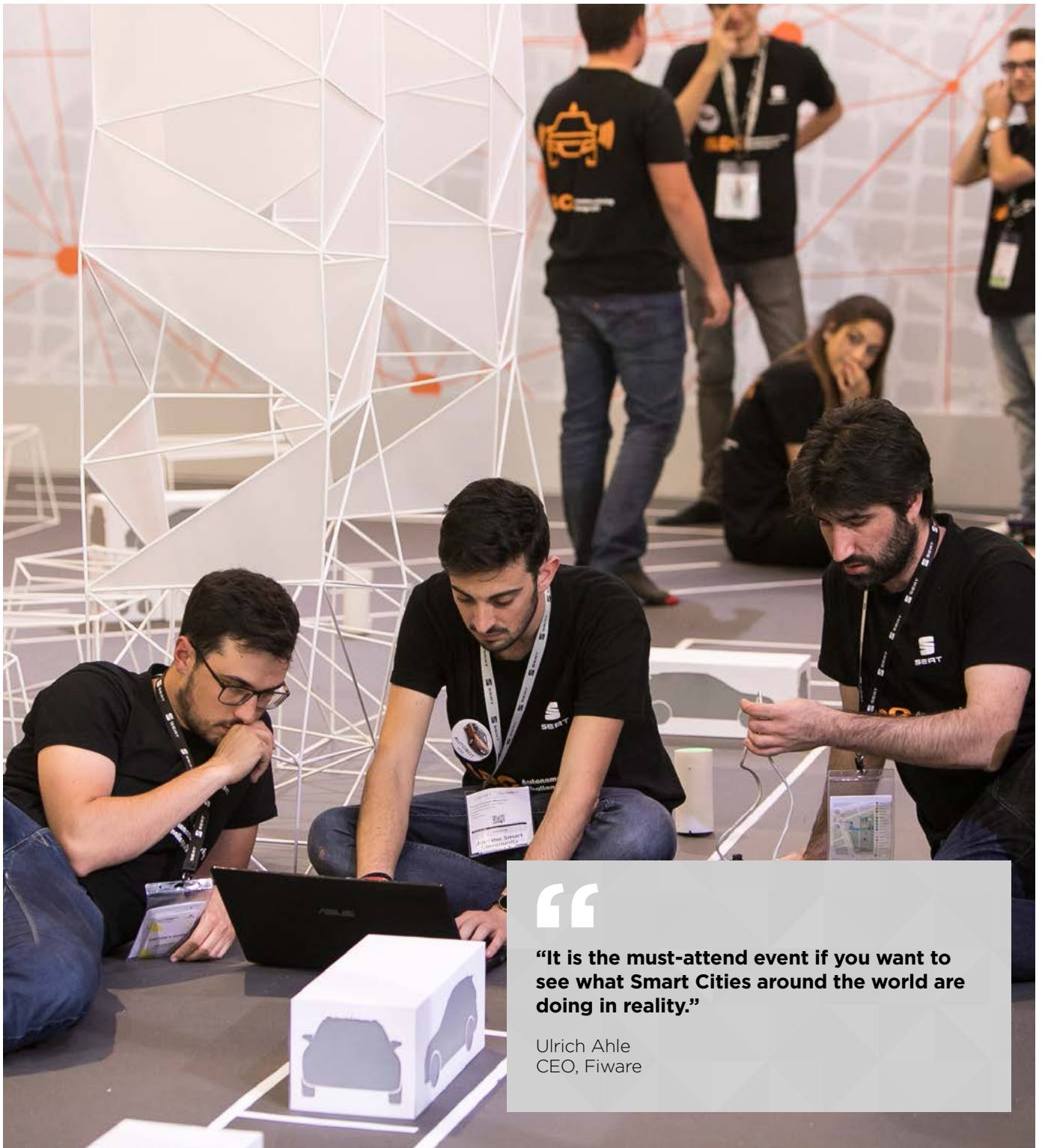
Marketplace

The Marketplace was the meeting platform for two hugely popular networking activities: The Job Marketplace, the recruitment event linking smart talent to companies jointly organized by Smart City Expo World Congress and Barcelona Activa; and the Brokerage Event, the **one-to-one networking** platform to meet targeted companies and institutions. More than 1,400 pre-scheduled meetings were held to find new potential partners and clients.



7.

Mobility Hub



“

“It is the must-attend event if you want to see what Smart Cities around the world are doing in reality.”

Ulrich Ahle
CEO, Fiware

Zooming in on the next mobility revolution

The Mobility Hub was an integrated area, shared with the co-located **Smart Mobility World Congress** and featuring dynamic and interactive activities as well as real-time test-bed displays.

SEAT Autonomous Driving Challenge

The 2017 edition hosted the final round of the **Autonomous Driving Challenge** powered by SEAT and the Cooperative Automotive Research Network (CARNET), integrated by the mentioned automotive company as well as Volkswagen Group Research and the Polytechnic University of Catalonia (UPC). The overall initiative was supported by Technische Universität Berlin.

The final nine teams, coming from the most important academic centers in Spain, had worked on their prototypes for six months and could race their fully automated cars in front of an expert committee.

The winner of the competition was the team **AMUVAG** coming from the University of Valladolid. **URBots** from

Rovira i Virgili University (Tarragona) and the **Center for Automation and Robotics** from the Polytechnic University of Madrid ranked second ex aequo.

SEAT Autonomous Driving Challenge was the first public project of this magnitude in Spain and brought the best future talent in **Robotics** and **AI** to Smart City Expo World Congress and Smart Mobility World Congress.

Agora

The Mobility Hub Agora was another key meeting point of the event. It hosted over **30 sessions** focusing on the latest mobility trends. International speakers from transport agencies, research and innovation centers, car makers and disruptive companies, like Hyperloop, reflected on traffic management, new transport systems, smart ticketing, Open Data, V2V and, of course, autonomous driving.



8.

Railway Hub

The Railway Hub lumped together three different streams of discussion related to Smart Mobility challenges and jointly developed with **Smart Mobility World Congress**, which gathered multi-sectorial experts and industry practitioners to develop connections and business, discuss case studies and promote networking among peers.



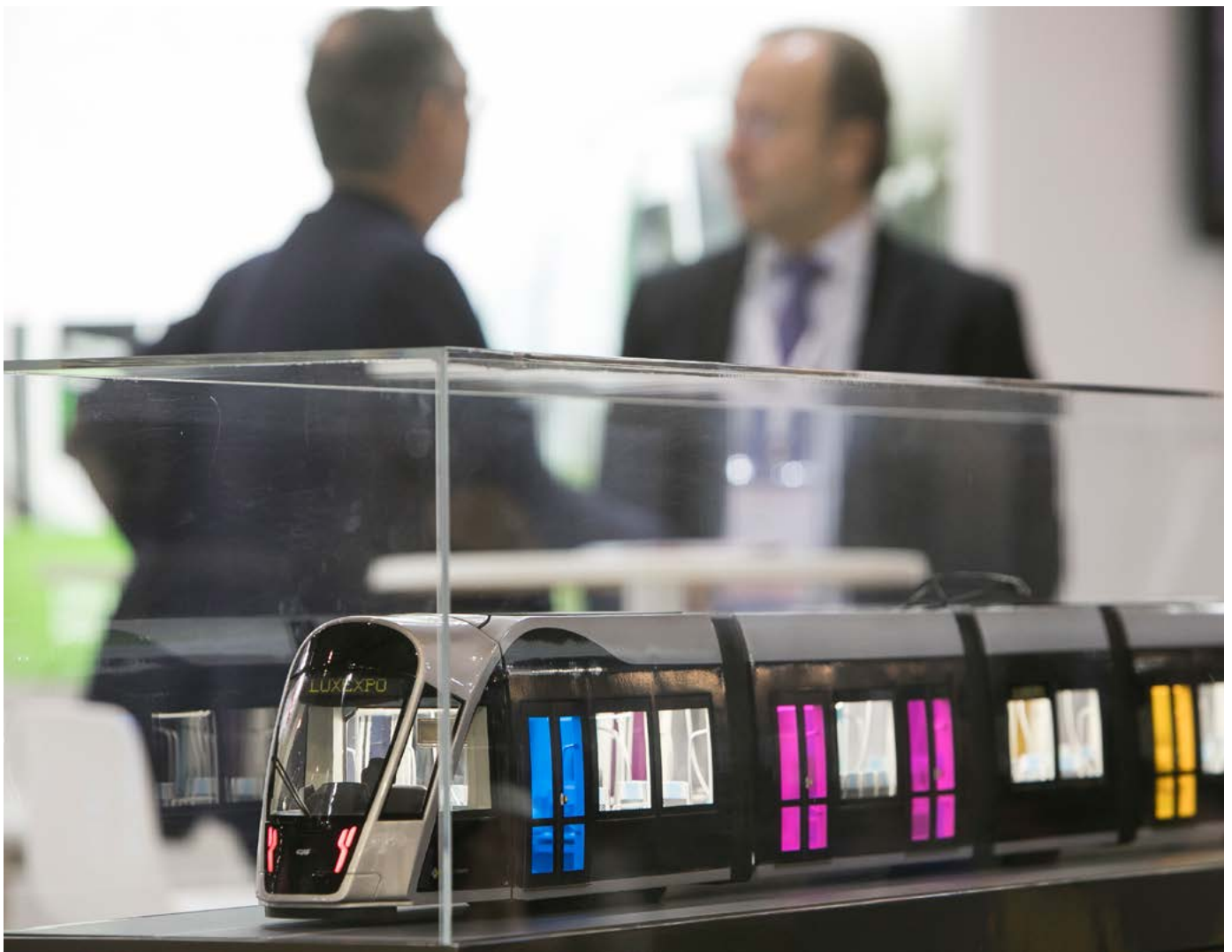
The Mobility stream, developed in the Congress area, took an in-depth look at **how smart mobility is reshaping our cities**.



The Public Transport stream hosted the **31st Alamy's annual congress** from the Latin-American Association of Metros and Undergrounds, which was created in response to the need to pool the concerns and experiences of the public transport and metropolitan railway sector.



The Railway stream presented **leading edge technologies** shifting the railway industry, such as smart solutions for rail vehicles and infrastructure, platforms for data management, solutions for cybersecurity and apps for rail mobility.



Highlighted Sessions

Keynote sessions from Hyperloop Transportation Technologies, featuring CEO Dirk Ahlborn, and Transport for London, delivered by CTO Shashi Verma, drew a large and relevant audience.

Hyperloop

Dirk Ahlborn explained that Hyperloop brings up a **new concept of urban transportation for long distances and a cutting-edge technological background** which it has been developing thoroughly over the past 10 years: tubes, vacuum and alternative energy. Hyperloop started as an idea and developed with an **active campaign of crowd-storming** which led to question every side of the transportation system as it is known today: ticketing, energy, sponsoring and funding. Now the technological system supporting Hyperloop is ready to be tested within the next year in several cities, such as Jakarta or Abu Dhabi, where a feasibility study commissioned by local government has already come to a positive outcome.



Transport for London

Shashi Verma, from Transport for London, highlighted some innovative trends within public transport use. London's population is increasing, so Transport for London needs to face the big challenge of fitting more people into what is an already full system. However, as the company has improved efficiency and connection between all systems, public transport demand has increased.

As a result, Transport for London is now implementing a **ticketless payment service that operates with credit/debit cards** and which is expected to improve users' experience. Accordingly, the organization hopes **private traffic will decrease by 20%**. This will be a certain asset for air-quality improvement.



9.

The Village

Having already built a Plaza in our exhibition area, we needed our own smart neighborhood. Hence this year Smart City Expo World Congress created The Village, **a pivotal point of the show displaying cutting-edge innovations and ideas** in a tented place which offered exclusive networking zones, including picnic areas and a wide range of restaurants to suit everyone's taste. It was the perfect place to sit down, eat and recharge, chit-chat with colleagues to find common ground and enjoy the sunny weather of Barcelona.



“

“We come here to get ideas, we learn a lot by talking to customers, mayors and partners, so we are here to learn and also to share our learnings.”

Anil Menon
Global President Smart+Connected Communities, Cisco

Partners' Solutions

Throughout The Village a total of nine top projects developed by Smart City Expo World Congress partners were showcased during the three-day event:



Mixed Reality with Alstom Iconis™ Security (Alstom)

A system to change the paradigm of Incident and Crisis Management and help high-level officials and security forces make the right decisions.



Cisco Kinetic for Cities (Cisco)

A connected digital platform to collect, integrate and view data from multiple sources aiming at increasing operation effectiveness.



Citybeacon (Intel)

An integrated platform to connect cities, citizens and business through Internet of Things (IoT) technology.



CEDUS (EIT/Fiware)

Innovative software to collect and exploit urban data, supporting decision making processes, and allowing fast delivery of new digital urban services.



Environment

Smart Human Environmental Services (FCC)

Services integrating Circular Economy principles, promoting a cultural change and achieving integration with the public.



Intergraph Planning & Response (Hexagon)

An application for managing major incidents and events from a sole source of information throughout the entire life cycle for safe, efficient, and effective operations.



HUAWEI

Huawei Smart City Nervous System (Huawei)

An Intelligent Operation Centre solution that centralizes and coordinates city management, and its City Internet of Things.



mastercard.

City Possible (Mastercard)

A new model of public-private partnerships that brings together cities with a united private sector to solve system-wide challenges.



SAP S4/HANA and Philips CityTouch (SAP/Philips)

A single integrated dashboard harnessing the Internet of Things and integrating data from connected street lights with data from other city ERM systems.

Call for Solutions Winners

The cutting-edge initiatives developed by the startups selected in this year's Call for Solutions were also on display in The Village:

Ateknea Solutions

A platform to map air pollution in cities. Ateknea technology is now being tested in several cities in Catalonia as well as in New York, and it has been sold to several clients such as German and Belgian universities.

www.ateknea.com

FrigiKern

A sustainable solution for perishable product delivery under controlled temperature systems.

Nimb

The smart ring with an emergency alert platform. It sends an alert signal to pre-selected contacts via a panic button and an app on a smartphone.

www.nimb.com

Numina

A computer vision solution to measure multimodal street traffic and enable urban automation.

www.numina.co

Tropa Verde

A gaming-based web platform to encourage environmentally responsible behaviors, rewarding citizens who are engaged in recycling.

www.tropaverde.org





10.

World Smart City Awards

The 7th edition of the World Smart City Awards got to celebrate the most innovative ideas and projects that are nurturing sustainable development in urban areas around the world, thus enhancing quality of life. As the global population continues to grow, smarter, inclusive and more livable cities have become an urgent necessity for a decarbonized future for all citizens.

This year, seven different category proposals covering key smart cities issues were considered for the competition:

- The **Innovative Idea Award**, considering concepts contributing to the successful transformation of our cities.
- The **Project Award**, offering recognition to the most successful and innovative projects that are being implemented in a specific urban development area.
- The **Circular Economy Award**, rewarding the most successful projects developed in the Circular Economy field.
- The **Safe City Award**, rewarding initiatives aimed at making cities safer.

- The **Mobility Award**, giving recognition to great initiatives aimed at improving urban mobility.
- The **Data & Technology Award** for ground-breaking solutions delivering real value.
- The **City Award**, recognizing a global strategy developed by a city that combines projects, initiatives, and policy implementations in different urban fields or with a new approach that adds value to the smart cities vision.

After an unprecedented number of entries, reaching **58 countries and 309 proposals**, the winners were selected based on a careful review of their proposals and considering the innovation, impact and feasibility of the projects and thus their benefits for cities and citizens.

The winners were announced on November 15th at a ceremony with an innovative and dynamic format that attracted an audience of more than **1,000 key public and private decision makers**, providing an excellent opportunity to gain prestige and visibility.



Finalists and Winners

Discover all the finalists of this inspiring edition.

Finalists:

- **Amsterdam Circular Innovation Program** - City of Amsterdam (Netherlands).
- **Chiang Rai City: Inclusive Urban Development for Informal Workers** - Home Net Thailand (Thailand).
- **Cyclespex: Enabling a Shift Towards Customer Oriented Smart Cycling Policy** - NHTV (Netherlands).
- **Dubai Blockchain Initiative: The First Smart City on the Blockchain** - Dubai Smart Office (United Arab Emirates).
- **Easy Urban Mobility: Towards the Digital World** - SEAT (Spain).
- **Exploring Smart Zhengding by Innovative Tourism Project** - Zhengding County Government (China).
- **Food Care Program** - Buenos Aires City (Argentina).
- **Fukuoka City's Hydrogen Leader City Project** - Fukuoka City Government (Japan).
- **Global-First All-Scenario Intelligent Transportation Solutions Helps Building "Traffic Brain" for Cities** - Shenzhen Traffic Police (China).
- **Growsmarter: Transforming Cities for a Smart, Sustainable Europe** - City of Stockholm (Sweden).
- **Innovative Smart Weifang Improves Social Wellbeing** - Weifang Smart City Development Office (China).
- **IoT Encryption and IoT Device Authentication Solution from Edge Devices to Smart City Applications** - CIOT (South Korea).
- **Jaipur City: Transforming a Heritage City into World Class Smart & Connected City** - Jaipur Development Authority (India).
- **Lyon Métropole's Ambitious Smart City Strategy to Respond to New Urban Challenges** - Lyon Métropole (France).
- **Marketplace.city - Helping Government Innovators Make Cities Smarter** - Marketplace.city (USA).
- **Microgrid Solar Plant Help Cameroon To Improve the Livelihood and Boost the Economic Development** - Ministry of Water Resources and Energy of the Republic of Cameroon (Cameroon).
- **Pavnext: The Safer, Smarter and Sustainable Road Pavement Device** - Pavnext (Portugal).
- **Royal Commission Smart City Project** - The Royal Commission for Yanbu (RCY) (Saudi Arabia).
- **Smart Dublin: The Small Enough Yet Big Enough Smart City Test Bed** - Smart Dublin (Ireland).
- **Smart H2O: A Digital Transformation into a Utility of the Future** - City of Atlanta's Department of Watershed Management (USA).
- **Smart Wuhan IoT and Big Data Reality** - ZTE Corporation (China).
- **To Make Street Light Connected as a Neural Network of Smart City** - Taipei Smart City Project Management Office (Taiwan).



Winners

Innovative Idea Award

Helping Government Innovators Make Cities Smarter
Marketplace.city - USA



Project Award

Food Care Program
City of Buenos Aires - Argentina



Circular Economy Award

Amsterdam Circular Innovation Program
City of Amsterdam - Netherlands



Safe City Award

Global-First All-Scenario Intelligent Transportation Solutions Helps Building "Traffic Brain" for Cities
Shenzhen Traffic Police - China



Mobility Award

Easy Urban Mobility: Towards the Digital World
SEAT - Spain



Data & Technology Award

Royal Commission Smart City Project
The Royal Commission for Yanbu (RCY) - Saudi Arabia



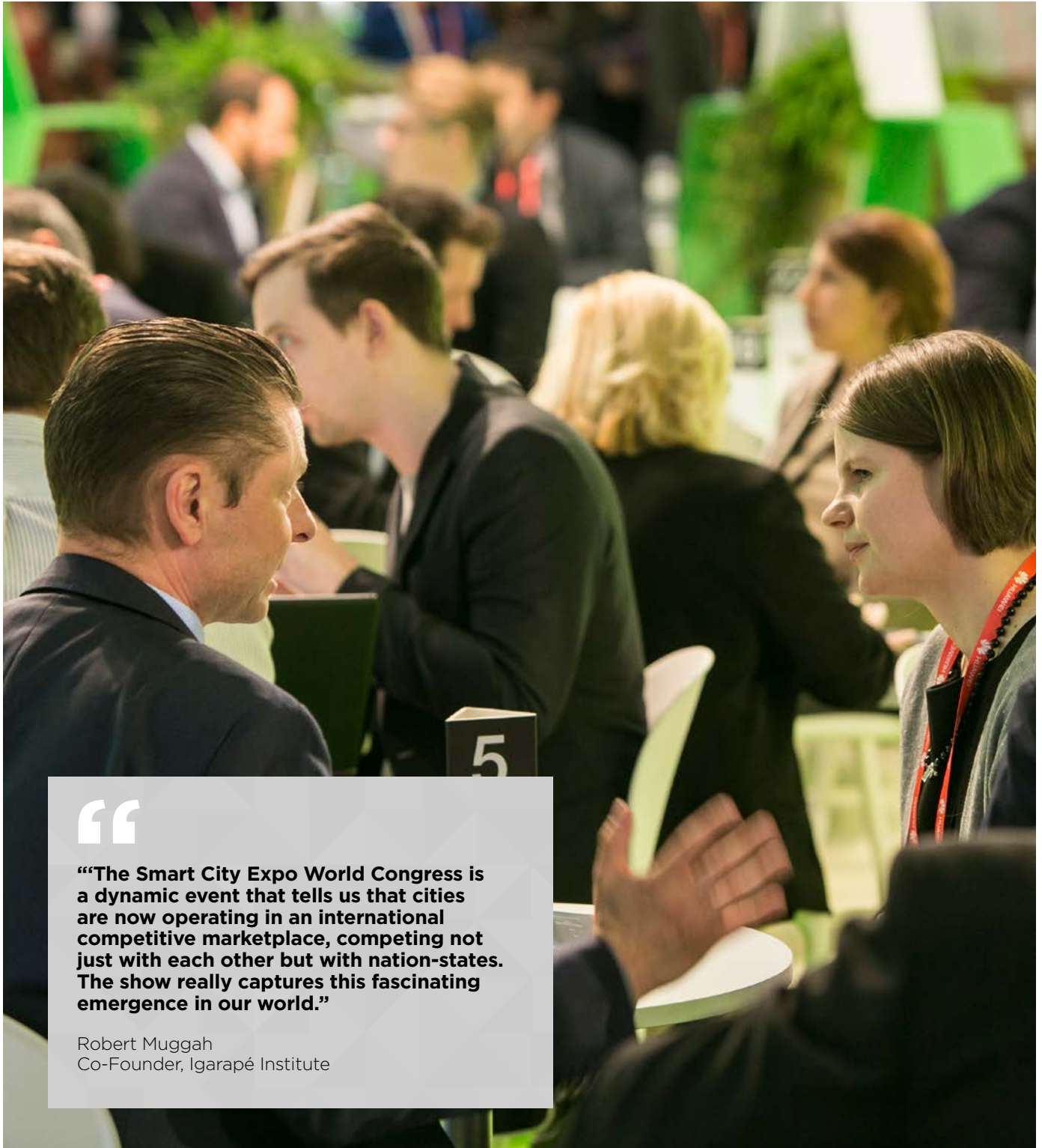
City Award

The First Smart City on the Blockchain
Dubai Smart Office - UAE



11.

Side Events



“

“The Smart City Expo World Congress is a dynamic event that tells us that cities are now operating in an international competitive marketplace, competing not just with each other but with nation-states. The show really captures this fascinating emergence in our world.”

Robert Muggah
Co-Founder, Igarapé Institute

Supplementing the main conference official program, more than 50 industry and theme specific **Side Events** diversified the experience for Smart City Expo World Congress attendees and got them to the heart of smart city issues with educational and actionable sessions.

Highlighted Side Events

Smart City Forum: Future Cities – Solutions for Common Challenges

Over 200 of the most influential smart city thinkers gathered together to share knowledge and highlight solutions on how to create economically viable and sustainable cities. Structured in 20 dynamic round-tables, the Forum focused on International Standards as an answer to specific technical, environmental, social and security challenges affecting services and the well-being of citizens.

Organizer: ISO, IEC, ITU

ETSI Pre-Kick-Off Meeting for New ISG on Smart Cities

The purpose of this open workshop was to present the work of the ETSI City Digital Profile Group, aiming at accelerating the delivery of integrated citizen services and providing a roadmap technology for city leaders. The open Q&A format of the event gave the group important and actionable feedback from key actors such as city leaders, operators, vendors and users.

Organizer: ETSI

Collaboration Opportunities in Smart City Projects

This workshop, organized by ICEX Spain Trade and Investment, enabled city leaders and other stakeholders to meet Spanish companies operating in the smart city field to seek collaboration opportunities. Cities from the Netherlands, Poland and Australia shared their experiences and needs.

Organizer: ICEX Spain Trade and Investment

PPP for Cities

PPP for Cities is a research, innovation and advisory center providing support to public administrations throughout the world to develop projects involving collaboration between the public and private sectors in the smart and sustainable cities arena. The third edition of PPP (Public-Private-Partnership) for Cities focused on Latin American

cities, which could concentrate about 90% of its population by 2050 according to AIDB. Presentations had a special scope in showing how People-first PPPs are strong tools to reach United Nations Sustainable Development Goals.

Organizer: PPP for Cities, IESE

SME-Instrument Companies Pitching Sessions for Investors and Business Partners

This pitching session organized by the European Commission Horizon 2020 SME Instrument brought together investors, business partners and selected SMEs that could pitch their business project in front of a world-renowned jury.

Organizer: European Commission, EurA AG, Cat Cap

Smart Housing in a Smart City – Meeting of EUROCITIES Housing Working Group

Are there new modes of provision of affordable housing in cities? How can municipalities respond to pressure on local housing rental markets? The EUROCITIES meeting brought together city authorities from Amsterdam, Barcelona, Lisbon, London, Paris and Vienna to answer these questions and discuss the role of housing rental platforms in cities, and the gentrification phenomenon.

Organizer: Ajuntament de Barcelona, Eurocities

Responsive City Symposium 2017 – Active Public Space

The event, organized by the Institute for Advanced Architecture of Catalonia, reflected on the applications and implications of innovative technologies in the dynamic sphere of public spaces. The specific focus was placed on the advancements of technologies of information, interaction and fabrication in the redefinition of public space as a catalyst for achieving urban resilience and high quality of life.

Organizer: IAAC, CCEA, Angewandte



12.

Activities

Networking Activities



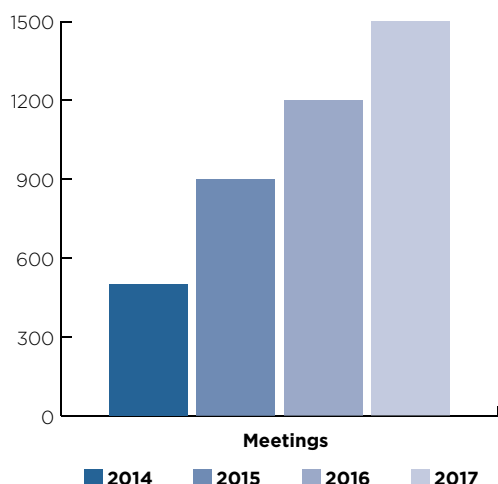
Brokerage Event

The fourth edition of the Brokerage Event was organized jointly with ACCIÓ, the Catalan Government's business support agency, and Enterprise Europe Network, which helps SMEs to make the most of business opportunities in the EU and beyond.

This international matchmaking initiative aimed at assisting SMEs, start-ups, entrepreneurs, universities, research groups, corporations, institutions and cities in finding international partners for product development, manufacturing and licensing agreements, joint ventures or other types of partnership.

This fourth edition brought together **more than 500 participants** (67% from abroad) from **41 countries** who sat for 30-minute pre-scheduled meetings in an area specially designed for networking to meet potential cooperation partners, establish connections and create bridges to carry out future projects. During the three-day event, **1,488 meetings** were arranged.

Participants also had the opportunity to meet EUREKA experts. EUREKA is a bottom-up (no predefined topics), close-to-market network of more than 40 countries that finance smart city international and innovative projects.



Job Marketplace

This recruitment space, organized together with Barcelona Activa, the Barcelona City Council area focused on the generation of employment, created the ideal platform for smart city professionals looking for job opportunities in the sector as it put companies from the sector in touch with potential employees pre-selected by Barcelona Activa.

During the interviews, companies had the opportunity to select the profiles that best fit the requirements of their vacant positions.



Other Activities



Smart City EDucational Xperience

The aim of this educational experience powered by **WÄRKS** and **Labs4Reality** was to design a *multifunctional microsquare* built up from recycled elements of older congresses. A group of 30 students from 5 different high schools worked collaboratively through a co-creation methodology and 3D modeling online apps. Their design had to fulfill needs such as a resting corner, sitting, a meeting point, device-charging spots and a networking area. The participating students were able to take a virtual walk through their designs using 360 VR glasses.



EZ10 Autonomous Vehicle Demo

The EZ10 is a last mile driverless electric transportation solution combining three different location and detection technologies: GPS, visual guidance and SLAM technology. Attendees could feel what moving hands-free really means as the vehicle made continuous demonstrations during the whole event, carrying up to 12 people at a time.



Smart City Party

The Smart City Party brought together many congress attendees and exhibitors to continue networking in a more relaxed atmosphere, where they could listen to recent musical hits, dance and also eat and drink to unwind and recharge. It was the perfect time to get close to other participants from near and far.

13.

Towards Zero Waste

Smart City Expo World Congress's objective is to work towards creating **efficient, inclusive and sustainable cities**. Hence the show should lead by example. For the third year running, the event prompted the **Towards Zero Waste initiative**, aimed at reducing residual waste, saving resources and ensuring maximum sustainability. Attendees' response was sizable and resounding.

This year, **Smart Mobility World Congress** joined this initiative which is in line with the European Commission's Circular Economy strategy based on use of fewer materials, reuse and recycling of products and no food waste.

These were some of the ways Smart City Expo World Congress and Smart Mobility World Congress contributed Towards Zero Waste:



ENVIRONMENTAL AWARENESS

- The event was carbon neutral and participants were informed on how to offset their own carbon footprint.
 - **CO2e compensation: 178 tonnes***.
 - 178 carbon credits gained for an Andra Pradesh project to produce wind energy in India, an initiative certified by the Verified Carbon Standard.
- Solar panels were installed on the roof of the venue, thus a great percentage of the energy used by the events came from renewable sources.
- During assembly and dismantling exhibitors were constantly informed on how to manage hazardous waste.

*More info about the compensation:



PAPERLESS

- All the paper used at the stands was collected at the end of the events.
- QR code points were set up at strategic places throughout the venue for downloading the congress app.
- The app of the event was downloaded **3,907 times**, helping save **56 kg of paper**.
- 36 magazines related to event topics were also available for download.



NO FOOD WASTE

- Containers for separating organic waste were available at restaurant centers and temporary dining areas.
- **664 kg of leftover food** were donated to the NGO Nutrition Without Borders, to be distributed and used by community kitchens.



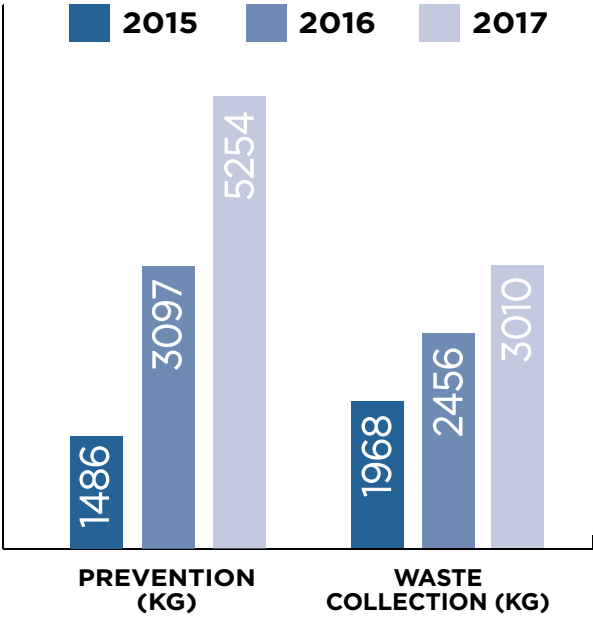
RECYCLING

- **19,100 sq.m of carpet** from the passageways as well as **912 sq.m of stand carpeting** was reused after the events.
- **4,470 kg** of material from several booths was also reused after the events.
- Other materials, such as plants, were donated to several local associations.



ATTENDEE INVOLVEMENT

- Attendees could use the recycling bins distributed throughout the venue, especially for packaging and paper waste.
- Visitors could also return their badge, made of recycled plastic, at the return point. **3,000 accreditations** were returned, helping save **45 kg of material**.



Cloth for a cause!



All money raised from Smart City Expo merchandising was donated to **UNHCR/ACNUR** emergencies in areas where conflict has displaced people from their homes.

14.

Smart City Expo Abroad Editions

Spreading the word on the urban revolution

After seven editions, Smart City Expo World Congress has strengthened its position as the leading international event on how to convert our cities into effective, inclusive, and sustainable urban environments. Due to the success of this model, the event has been exported since 2013 and has become a thriving phenomenon present in four continents.

Smart City Expo Abroad Editions are completely focused on local needs, which is why they complement and create fascinating synergies with the worldwide event held in Barcelona.

In 2017, Smart City Expo was held in Mallorca (Spain), Casablanca (Morocco), Puebla (Mexico), Buenos Aires (Argentina) and Kyoto (Japan).

Smart Island World Congress Powering Islands in the Global Era

Smart Island World Congress is the first worldwide event specialized in Smart Islands. Held in April 2017, it gathered the most relevant island leaders and industry experts to reflect on how to include these territories in the global conversation and bring to the table transformative ideas to shape new futures. Former Spanish Prime Minister José Luis Rodríguez Zapatero, global strategist Parag Khanna and former President of Kiribati Anote Tong made clear why small is smart. The event attracted more than 1,300 attendees, 70 international islands, 95 speakers and 86 journalists.

Smart City Expo Casablanca Cities by All

The second edition of **Smart City Expo Casablanca**, held in May 2017, marked a decisive step for the Moroccan city towards the goal of integrating itself into the prize list of Smart Cities worldwide. More than 5,000 visitors from 47 cities around the world, 83 speakers and 30 exhibitors turned the event into a remarkable success. Keynote speakers, such as Anibal Gaviria, former Mayor of Medellín (Colombia), and Charles Landry, consultant and international speaker from the United Kingdom, enriched the discussion about future mobility, urban and technological innovation, resilience and climate change, the collaborative society and attractive cities.

Smart City Expo LATAM Congress People and Government for the Common Good

Smart City Expo LATAM Congress, held in Puebla (Mexico) in June 2017, attracted more than 11,000 attendees and 120 institutions and companies, as well as 200 speakers. In three days of plenary and parallel presentations, they discussed how to make urban planning more sustainable and cities more resilient, how to achieve social equity and Open Government, how to use data for the common good and how to encourage technological innovation and a more collaborative economy.



Smart City Expo Buenos Aires Innovative Cities, Future Cities

The first edition of **Smart City Expo Buenos Aires** stood out for its debate on Innovative Cities and for its exhibition of products and initiatives related to equity, sustainability, open government, digital transformation and the new collaborative economy. The three-day event attracted 7,000 visitors, 34 exhibitors and more than 100 speakers to address the smart city challenges facing Argentina and Latin America in general.

Smart City Expo Kyoto Regions and Industries Creating a Sustainable and Livable Future

The Japanese city of Kyoto held the **4th Asian edition of Smart City Expo** in order to keep on working towards a sustainable and livable future, and overcome the urgent issues that Asian cities are currently facing. With this goal in mind, the event looked into the latest developments related to smart cities – energy, technology, urban policy, environment, health and education. Smart City Expo Kyoto 2017 was an international meeting point for companies, public administrations and research institutions to network and create new collaboration opportunities within the Exhibition Area, the Symposium and the Seminar, and many more co-located activities.



Next editions in 2018 will take place in Curitiba (Brazil), Casablanca (Morocco), Mallorca (Spain), Buenos Aires (Argentina), Puebla (Mexico) and Hyderabad (India).

15.

Congress



Empower Cities. Empower People

Cities are shaping our future. They have already turned into dominant demographic and economic clusters, which are now operating in an international competitive marketplace, competing not just with each other but with nation-states. Their importance is undeniably growing, but they still need to be empowered to have access and control over important decisions and resources. Only such a plan will make them able to act together across borders to tackle similar challenges. Yet citizens must be at the center of this process, as smarter cities are those that are developed by their citizens.

This year, Smart City Expo World Congress took a step further in the smart city discussion and engaged participants in deep reflection on what empowering people means, echoing the concerns expressed about participation outcomes.

With a full program of 82 sessions, structured in eight topics - **Governance, Mobility, Safe Cities, Economy,**

Sustainability, Circular Economy, Society and Data & Technology - the 2017 edition of the conference attracted **6,106 delegates** (10% increase in comparison to 2016) and delved into the design of strategies for cities and citizen empowerment.

More than **420 influencers and global innovators** shared the latest thinking on sustainable and efficient city development and suggested cutting-edge solutions to transform urban environments for the better. The general sentiment was that the traditional smart city model is getting more much human and that makes probably much more sense to citizens out there.

How technology is assisting cities to allow efficient transportation, tackle air pollution, engage citizens and make stronger communities, and build a decentralized, resource-efficient economy were some of the main topics reflected in the three-day congress. Definitely fertile ground for more discussion.

Key Figures



420
Speakers



82
Sessions



9
Conference
Rooms



8
Topics



308
Call for Speakers
Applications from
42 Countries



“One of the problems with smart city events in the past is they were only about hardware, about water and traffic and sensors, all of which is important, but now I think the Smart City Expo World Congress in Barcelona is bringing the human element.”

Geoff Mulgan
CEO, Nesta



“It’s extremely inspirational seeing communities and cities come together in an event like the Smart City Expo World Congress and talk about what their shared visions and ideals are and how they are addressing problems.”

Jason Roberts
Founding Director, Better Block

Topics & Trends

Smart ideas for smarter cities

Governance

#CityEmpowerment #PerformanceMeasurement
#RightToTheCity

What does good governance really mean today?

- Technology is a tool that might help us to achieve sustainable development goals and implement the New Urban Agenda.
- There are various levels of governance and they have to cooperate with one another. Collaboration is a central value when dealing with smart cities. Together we are better and smarter.
- Cities should be aware that with empowerment comes responsibility.

Mobility

#SustainableMobility #IntelligentTransportSystems
#ElectricVehicles

Is urban mobility meant to be driverless?

- Cars have become a hazard rather than a concept of freedom. They should be like horses: You have it in the countryside, you visit it once in a while but you do not actually commute on it.
- The new paradigm for urban mobility starts by considering mobility as a shared connected on-demand service.
- Hyperloop transportation brings up a new concept of urban transportation involving tubes, vacuum and alternative energy. The system is ready to be tested but the passenger experience still needs to be improved.

Safe Cities

#PublicSafety #Cybersecurity #Resilience

How can we make our cities safer?

- Being a safe city is a precursor of being a smart city. Having a plan is one of the most important aspects for tackling security issues.
- Any risk reduction effort starts with risk analysis.
- Security is not a feature, security is a process.

Economy

#FinancingModels #SocialEconomy
#PublicPrivatePeoplePartnerships

Why do new urban economies make sense for sustainable development?

- The decentralized economy supported by blockchain, AI, and IoT is about to change everything. Dubai wants to turn into the first Blockchain powered government.
- The sharing economy and collaborative consumption are disrupting many industries and challenging established business models.
- Urbanization requires innovation and investment in smart structures such as smart grids, healthcare, public safety and buildings.

Sustainability

#AlternativeResources #ClimateChange #ZeroCarbon

Cities leading the global fight against climate change

- There's no relevant climate change project without political support.
- The city has to be thought of as a system: changes should occur in several sectors to have a systemic impact. The best energies are the ones that are not being used.
- A truly smart city needs a holistic policy approach towards sustainability.

Circular Economy

#Recycle #WasteManagement #ReUse #Repair

Taking transformative actions to a circular future

- The Circular Economy is about a system change. Circular projects cannot develop within the existing system, which needs to be hacked. This transformation involves all the stakeholders.
- The way forward involves viewing challenges as opportunities, designing solutions that fit the local context with a global perspective, building supportive coalitions and engaging the global value chain to enable scalability.
- Over the next years, one of the economic challenges for circular economies will be effectively synchronizing market regulations with new technological solutions.

Society

#Co-creation #Education #Equity #LivableCities #SocialInnovation

Empowering people to tackle social challenges

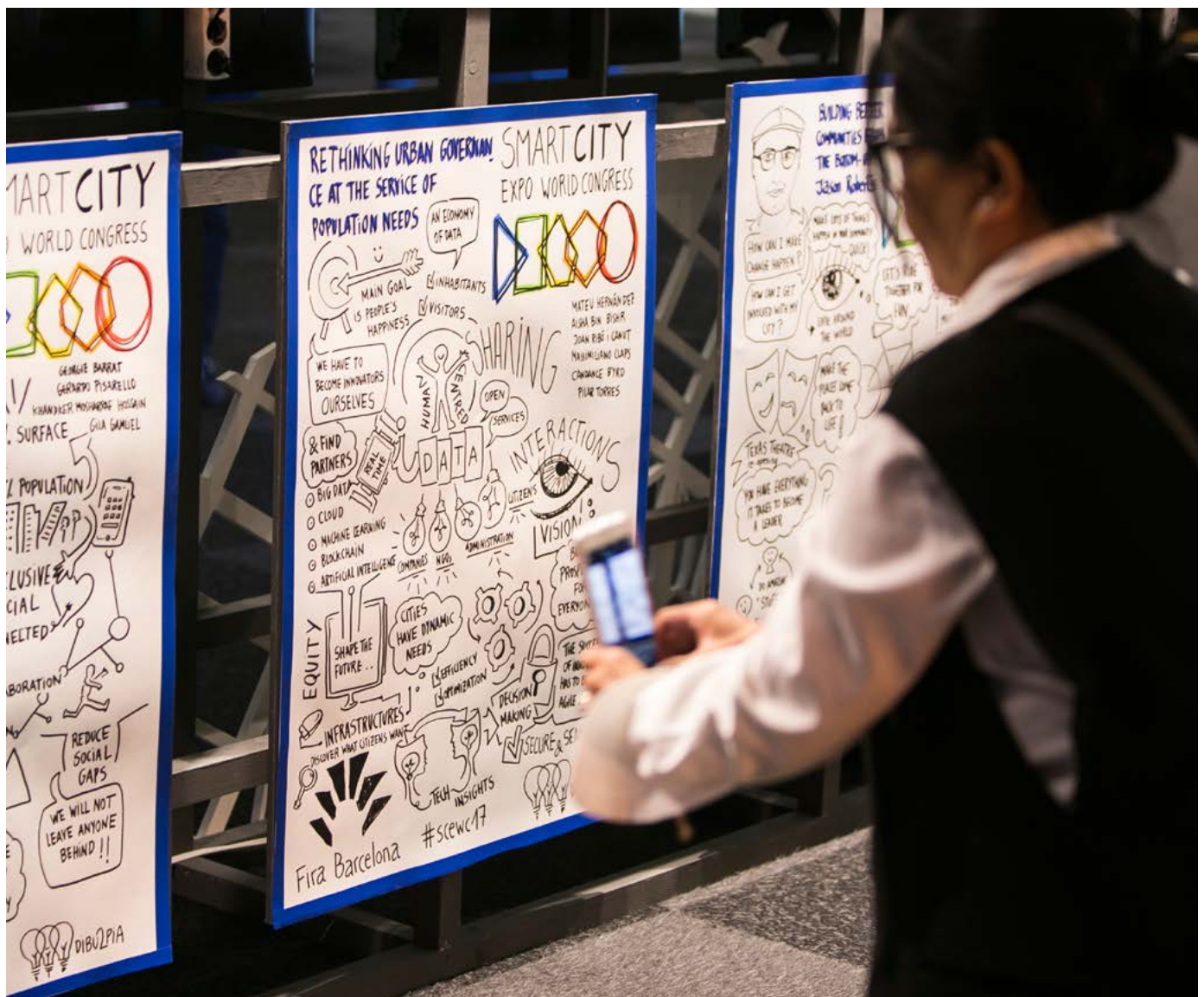
- Social housing is the main issue for social integration and social stability.
- A smart city is a city that can solve problems. With or without technology. Humans give complexity to cities and are the key issue for their management.
- The main challenge of governments is to involve citizens in their actions. Living Labs can be a tool for testing, mitigating risk and strengthening resilience.

Data & Technology

#Engagement #OpenData #AI #IoT #BigData #Cloud #UrbanLabs #Collaboration

How are disruptive technologies reshaping cities?

- Cities that have the most opportunities to grow as smart cities are those that can handle the speed at which technology grows.
- Tech solutions increase the efficiency of cities incrementally but not exponentially because of the lack of replicability. In this respect, digital standards that are ethical and responsible can ensure cybersecurity, privacy and trustworthiness.
- Leading innovative cities encourage live experimentation through urban labs, openness of data, collaboration between innovators and civic engagement.



Opening Session

Empower Cities. Empower People



14/11/2017 09:30-10:15

INTRODUCED BY

Georgie Barrat / Journalist - London - UK

SPEAKERS

Gerardo Pisarello / Deputy Mayor of Economy and Labor, Digital City and International Relations - Barcelona City Council - Spain

Khandker Mosharraf Hossain / Minister of Local Government, Rural Development and Cooperatives - Dhaka - Bangladesh

Gila Gamliel / Minister for Social Equality - Jerusalem - Israel

Cities have a critical role to play in building a better future. Gerardo Pisarello started off his intervention by emphasizing that Barcelona is a crucial technological hub of Southern Europe and made clear that “when we empower cities, we also empower people”. Yet the challenges are huge. Digitalization is bringing many opportunities, but leaders must stand for the values of democracy. In this respect, he said that the main goal of the Barcelona Digital City Plan, presented in 2016, is to maximize the social impact of technology while improving citizens’ lives and exporting innovations.

Khandker Mosharraf Hossain pointed out that smart cities not only optimize the quality of urban life but also governance indicators such as accountability and transparency. In fact, he was convinced that cities have no better option but to turn into smart ones. Accordingly, he explained how Digital Bangladesh is connecting citizens in a way which is meaningful to them and engaging them in different sectors to develop innovative ideas. As a result, 11 city corporations and 328 municipalities are functioning

“

“The future of humanity will be decided in cities.”

Gerardo Pisarello

there as urban local bodies to empower people and achieve sustainable development.

Finally, Gila Gamliel stated that “our treasure is our human intellect” and insisted that today digital technologies provide cities with many tools to give citizens equal opportunities, thus reducing social gaps in society. She also highlighted that Israel is a world leader in the field of cybersecurity and ended up by stressing that cities need to be smarter but also cyberprotected. “With the proper tools, every city can be a smart city,” she concluded.

EMPOWER CITIES, EMPOWER PEOPLE.



EMPOWER CITIES. EMPOWER PEOPLE.

- GERARDO PISARELLO
- KHANDKER MOSHARRAF HOSSAIN
- GILA GAMLIEL



NY.11.17 @dibu2pia

Fira Barcelona

#SCEWC17

SMARTCITY
EXPO WORLD CONGRESS

Keynote

Joan Clos: Smart Urbanization



14/11/2017 12:45-13:15

SPEAKERS

Joan Clos / Executive Director - UN-Habitat – Nairobi - Kenya

Urbanization has a global strategic relevance as it is linked with some of the pressing challenges on the international political scenario. Joan Clos kicked off his intervention by noting that the phenomenon is speeding up and has turned into a key tool for development. The UN-Habitat conference held in Quito in 2016 reflected on the major issues brought by rapid urbanization and gave a few hints on how to promote a better urban future. One of these issues is climate change as cities host 55% of the world's population and originate 70% of greenhouse gas emissions.

“

“The three main challenges for the next 20 years are linked with strategy, climate change and development.”

Joan Clos

Moreover, people moving from rural to urban areas increase their energy consumption tenfold. Hence the question is how to deal with massive consumption of energy while reducing greenhouse gas emissions. Another change of paradigm promoted by UN-Habitat is that urbanization is an accelerator of wealth and not vice versa. Hence, how can smart urbanization be promoted?

Clos used the wheel of sustainable and qualitative urbanization to explain that urbanization is a “well-balanced cocktail” of the rule of law, physical design and income. Currently the weakest of these three components in the places where urbanization is going faster is related with rules. And this is what makes urbanization such a cultural production of humanity. Clos finished up the session by acknowledging that “reaching excellent urbanization is tough”, and that is why stakeholders need to exercise critical thinking to better understand and address problems caused by rapidly growing urban areas.



SMART URBANIZATION

Joan Clos



EMPOWER CITIES. EMPOWER PEOPLE.



NY.11.17 @dibu2pia

Fira Barcelona

#SCEWC17

SMARTCITY EXPO WORLD CONGRESS

Keynote

Robert Muggah: From Fragile to Resilient Cities



15/11/2017 09:45-10:15

SPEAKERS

Robert Muggah / Co-Founder - Igarapé Institute - Rio de Janeiro - Brazil

“Cities are essential to our survival in the 21st century. If we design them right, we just might make it through to the 22nd century. If we get them wrong, we don’t stand a chance.” The sentence was a wake-up call for those thinking that is a long way in the future. Then, Robert Muggah showed some stunning visualizations about the major threats facing cities around the world. The convergence of multiple risks such as population growth, income inequality, concentrated poverty, reduced access to employment, limited access to services, pollution, homicide, or increased exposure to floods and cyclones, as well as deforestation and climate change make them fragile. Hence they need to prepare well. But how?

One of the biggest problems is that the world is still seen through the lens of nation-states. We’re still caught in this 17th century paradigm. But nation-states are in decline as they’re not agile enough. Now, said Muggah, a new politics of empowered cities is emerging and these cities can and must be part of the solution to the mentioned issues. In fact, they are already taking action, setting plans, leading decarbonization efforts, investing in multi-modal energy solutions and trying to build densely but also sustainably.

Yet they need financing and a renegotiation of the relationship with their nation-states. The co-founder of the Igarapé Institute finally highlighted that working in global coalitions and city networks will help as they amplify the voice of cities on the global stage. After all, the global challenges of today are intimately linked with local challenges.

“

“If we design cities right, we have a chance to get through to the 22nd century.”

Robert Muggah



FROM FRAGILE TO RESILIENT CITIES

Robert Muggah



EMPOWER CITIES. EMPOWER PEOPLE.



Fira Barcelona

#SCEWC17

SMARTCITY
EXPO WORLD CONGRESS

Keynote

Bettina Warburg: The Rise of the Decentralized Economy



16/11/2017 11:15-11:45

SPEAKERS

Bettina Warburg / Co-Founder and Managing Partner - Animal Ventures - San Francisco - USA

“A future economy will be much more decentralized.” Bettina Warburg kicked off her session with this unqualified statement based on the current proliferation of technologies biased towards decentralization. She recalled the origins of blockchain, the shared database technology that powers cryptocurrencies such as bitcoin and that has developed an almost unchallenged reputation as the next big thing in finance and technology.

Then she pointed out what having a system which eliminates a middleman of sorts really means. Today, we’re seeing a proliferation of application experiments in blockchain, which run on “smart contracts”. This allows us to automate not only business logic but actually also governance, and this is an important step towards a decentralized economy.

Warburg also took her reflection a step further and invited the audience to start imagining decentralized supply chains as well. In the end, blockchain can unlock a shared reality to make more informed choices and decisions as it’s giving citizens an autonomous network state and machine trust.

“

“We all need to take on this idea of learn and unlearn in order to thrive in this decentralized economy.”

Bettina Warburg

This future may sound rather abstract, or strange or far off. But, for Warburg, it’s rather “inevitable”. So, new paradigms need to be developed to innovate faster. In fact, she said, we all have to take on this idea of learning and unlearning to start thriving in this new scenario because it opens up a lot of opportunities for change. And “if we change the economy, we do change society,” she concluded.



THE RISE OF THE DECENTRALIZED ECONOMY

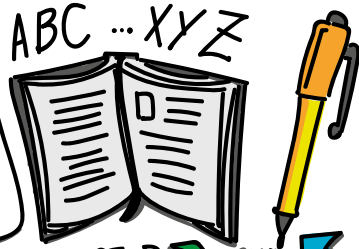


EMPOWER CITIES. EMPOWER PEOPLE.

Bettina Warburg

WE ARE STUCK WITH PARADIGMS

EXPERIMENT & PROTOTYPE MUCH FASTER!



ABC ... XYZ

READ WRITE

PAST

MANY/MANY relationships

FUTURE

ONE/ONE relationships

Block transactions

PUBLICLY

Blockchain Technology



INTELLIGENT SYSTEMS

MODERN DECENTRALIZED COMPUTERS

WITHOUT A MIDDLE MAN

NETWORK STATE

TRUST

- DESIGN
- MAKE
- COORDINATE



GLOBAL TRADE

A SHARED REALITY THAT WE CAN TRANSACT ON

MACHINE DRIVEN

SIMULATE

LEARN HOW TO LEARN & LEARN HOW TO UNLEARN

MAYBE THERE IS NOT A BETTER FUTURE...

BEFORE THE IMPLEMENTATION

COMMUNICATE MORE FREELY & SECURELY!

BUT IT IS INEVITABLE TO COUNT ON MACHINES FROM TODAY !!

17.11.17 @dibu2pic



Fira Barcelona

#SCEWC17

SMARTCITY EXPO WORLD CONGRESS

Inspirational Talk

Jason Roberts: Building Better Communities from the Bottom-Up



14/11/2017 13:15-13:45

SPEAKERS

Jason Roberts / Founding Director - Better Block - Dallas - USA

Better Block Foundation is a nonprofit that educates, equips, and empowers communities and their leaders to reshape and reactivate built environments to promote the growth of healthy and vibrant neighborhoods. Jason Roberts homed in on the idea that the smart city is about creating great neighborhoods where we can thrive and age in place. Yet bringing places back to life and building more human urban environments requires getting people together and working fast. In this respect he cited numerous examples of how to get the community involved and rapidly transform spaces, even if that means breaking the law at some point.

On the Better Block website there are plenty of recipes on how to use the ideas brought by different communities around the world. The ABC of the process may be summarized in the following points: First, you have to show up, then give your ideas a name and finally set a short date to publish the project so that it forces you to make things happen. Roberts called this latter step “blackmailing yourself into action”. “With these three things you can pretty much fix everything,” he said. And he presented himself as the best example of it, as the community helped him to “build a better Jason” when he was diagnosed with cancer and was at his sickest. “What I got is a neighborhood,” he said. This is what the real smart city hinges on at the end of the day.

“

“It’s amazing what a community can do.”

Jason Roberts



BUILDING BETTER COMMUNITIES FROM THE BOTTOM-UP

Jason Roberts



EMPOWER CITIES. EMPOWER PEOPLE.



NY 11.17.17 @dibu2pic

Fira Barcelona

#SCEWC17

SMARTCITY EXPO WORLD CONGRESS

Inspirational Talk

Beth Noveck: Smart Cities from the Bottom-Up



15/11/2017 15:30-16:00

SPEAKERS

Beth Simone Noveck / Founder and Director - The Governance Lab - New York - USA

There is still a lot of misunderstanding and concern about how to effectively engage with the public in solving problems in new ways. Beth Noveck pointed out that cities need to listen to their communities to reimagine how to govern. They can use technology to tap into expertise and build platforms and processes to improve governance. However, these platforms and processes must be well designed to get people to co-create solutions to problems.

The main goal, said the director of the Governance Lab, is not hearing opinions but getting expertise to go beyond hackathons and challenges to actually look at new ways of engaging formally in law making processes. This is not an easy step. Noveck insisted that cities have to design for both citizens and institutions so that answers can be implemented; they also need to design to achieve the desired goal, know who is going to manage the process, making clear how to participate and how one's information will be used, and share the outcomes of final decisions.

In addition, she highlighted the need to diversify opportunities to engage so that the risk of excluding people is minimized, test what works and be aware that

“

“Success at building smart cities depends as much on innovating in how we govern as on technology.”

Beth Simone Noveck

civic engagement may not be the answer. It doesn't work in every place, in every stage or in every process, she noted. But cities do have the opportunity to improve the outcomes of how they make law, how they make policy and how they govern in practicing engagement.



SMART CITIES FROM THE BOTTOM UP



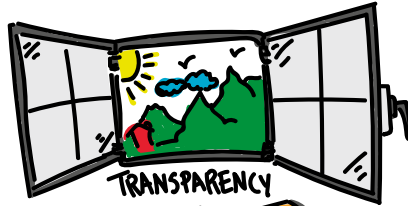
EMPOWER CITIES. EMPOWER PEOPLE.

Beth Simone Noveck

HOW CAN WE MAKE OUR INSTITUTIONS MORE EFFECTIVE??

GOVERNMENTS

UNDERSTAND + LISTEN TO SOLVE PROBLEMS



BE THE ACCELERATOR NOT THE IMPEDIMENT



COMMON EXPERTS + PEOPLE

CITIZENS ARE EXPERTS

LAWS DON'T ALWAYS ACHIEVE THEIR PURPOSE



CO-CREATING INTO IMPLEMENTABLE SOLUTIONS

CROWDLAW

MONITOR & EVALUATE LAW AND POLICY MAKING

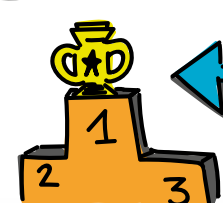
WHO KNOWS WHAT

NOT JUST IDEAS!

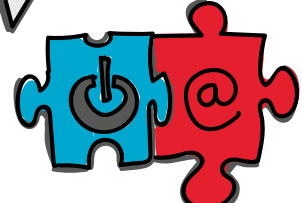
ADMINISTRATION & PROCESSES



INDIVIDUALS CITIZENS GROUPS



MAKE PARTICIPATION RELEVANT



ONLINE OFFLINE

15.11.17 @dibu2pia

Fira Barcelona

#SCEWC17

SMARTCITY EXPO WORLD CONGRESS

Inspirational Talk

Geoff Mulgan: How Cities Can Amplify Their Collective Intelligence



15/11/2017 16:45-17:15

SPEAKERS

Geoff Mulgan / CEO - Nesta - London - UK

Geoff Mulgan considers that a smart city is one that harnesses the full potential of human and machine intelligence to meet its wants and needs. The CEO of Nesta set out his vision for a future world where citizens are not just passive observers but are makers and shapers, living in an urban space where complementary innovation has been developed and where complexity is embraced. "One of the biggest mistakes of some of the visions of the smart city is they wanted to simplify the city," he said.

Yet this complex and rich future city has to be made up of active citizens. Accordingly, Mulgan spotlighted the importance of giving kids a chance to be makers of the digital world, not just consumers of Facebook pressing Like or Don't Like, leveraging creativity of all kinds, critical thinking and the ability to think systemically. He also emphasized that a key challenge for the next few years is social and complementary innovation. Many of the technologies of the smart city will only have their full effect on society and productivity if we design complementary innovations.

And again, that means thinking systematically, not just in terms of the technology. When handled gracefully, this approach will lead to a radical change of the aesthetics of the smart city coming mainly from the arts. In the end, a true 21st century city embraces complexity to burst with life, he concluded.

“

“The most exciting smart cities make their people smarter, not just their infrastructures.”

Geoff Mulgan

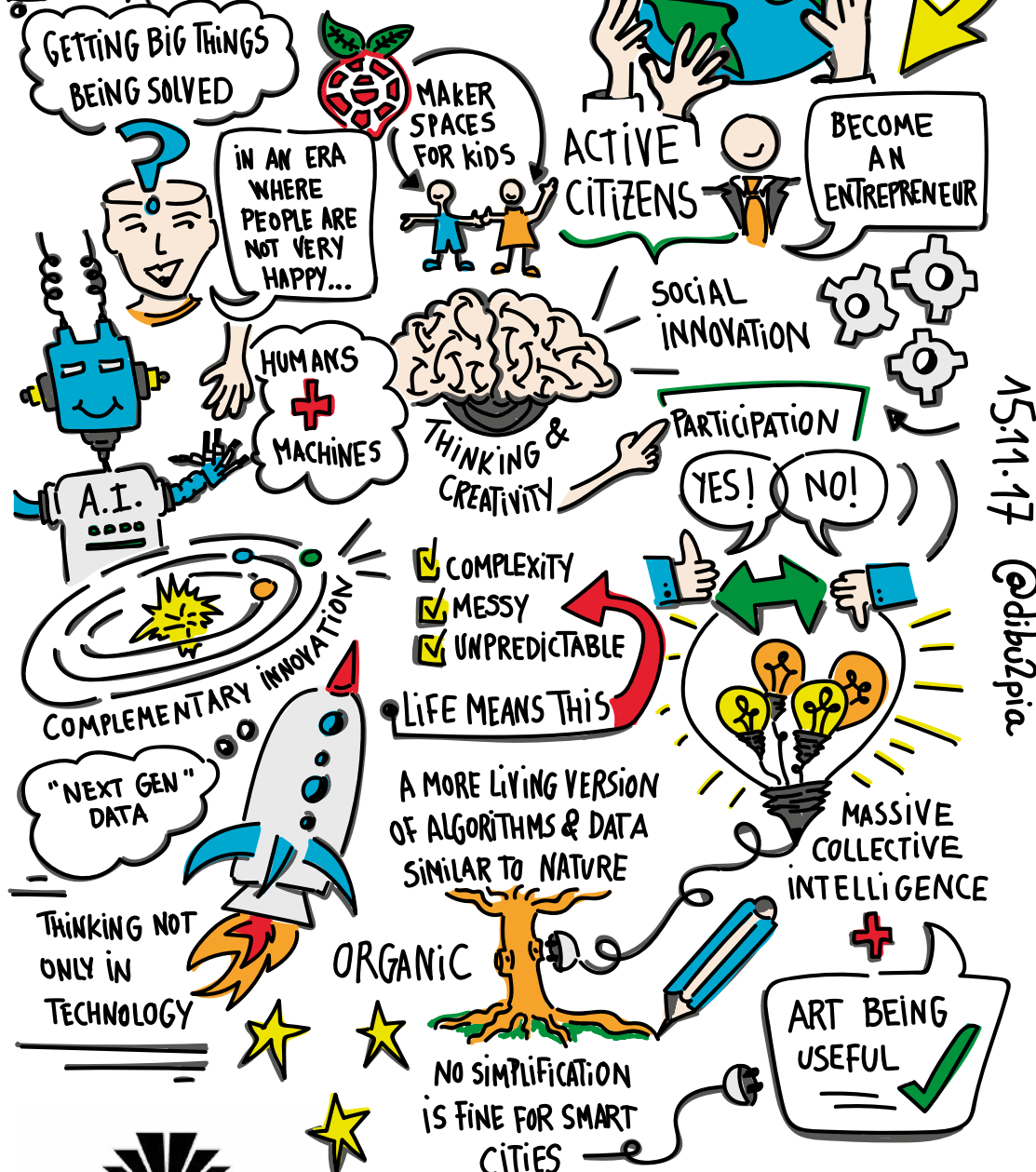


HOW CAN CITIES AMPLIFY THEIR COLLECTIVE INTELLIGENCE?

Geoff Mulgan



EMPOWER CITIES. EMPOWER PEOPLE.



15.11.17 @dibu2pia

Fira Barcelona

#SCEWC17

SMARTCITY EXPO WORLD CONGRESS

Inspirational Talk

Gilles Babinet: Smart Cities: Much More About Total Design & Engagement Than Technology



16/11/2017 09:45-10:00

SPEAKERS

Gilles Babinet / Digital Champion representing France - European Commission - Paris - France

Gilles Babinet commenced his intervention by stating that smart cities are much more than technology. An often-repeated phrase of this Smart City Expo World Congress edition. The Digital Champion of France at the European Commission elaborated on the holistic transformation of cities into platforms letting people interact to understand what their needs are and solve their problems accordingly.

Yet understanding the demographics of an urban area, engaging people and then stepping further in an innovative way is no mean feat. Babinet underlined that the notion of designing experience is really key within a disruptive innovation framework. Yet he cautioned against putting innovation at the core of a working system, as it can fail.

Instead, he recommended building labs and creating a culture of innovation to make things happen fast, as the more you shorten the time for innovation, the more disruptive it becomes. Nonetheless, he acknowledged that often fear acts as a major brake. Then the only alternative is to fight the unknown and moving forward. In the end, he said, a smart city is a city that is agile, disruptive and able to create innovation from anyone.

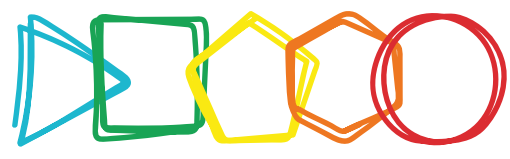
“

“Smart cities are much more about culture than technology.”

Gilles Babinet



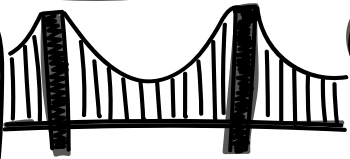
SMART CITIES:
MUCH MORE ABOUT TOTAL
DESIGN & ENGAGEMENT
THAN TECHNOLOGY



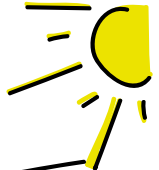
EMPOWER CITIES. EMPOWER PEOPLE.

Gilles Babinet

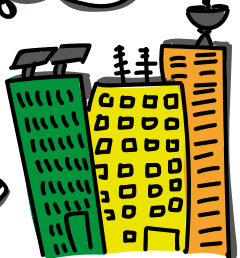
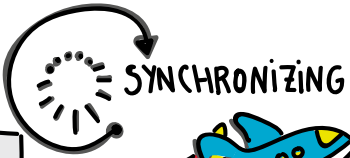
REGARDING CITIES
THE CHALLENGE IS
HUGE!



INFRASTRUCTURE
= ACTION



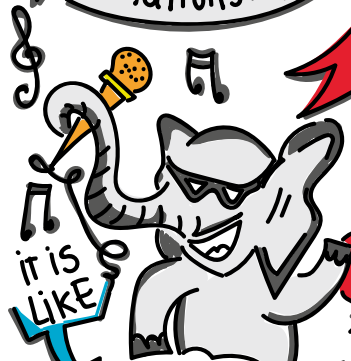
A MANY 2 MANY
Relationship



CITY CENTER

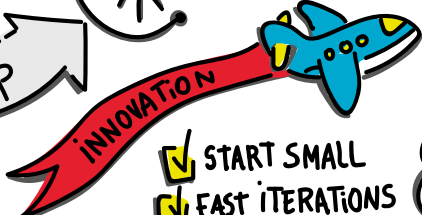
17.11.17

@dibu2pia



IT IS LIKE

DANCING
WITH
ELEPHANTS



- START SMALL
- FAST ITERATIONS
- CHEAP FAILURES

WE CAN'T GROW
IN TERMS OF
INFRASTRUCTURE
...

SCARCE

FIGHT THE FEAR

IT WILL NOT
WORK!!

DEFINE WHAT IS SUCCESS

IS
INFINITE!

SPEAK THE
"SAME"
LANGUAGE!



ISOLATED
LABS

BUT NOT
SILOS!

OPEN
MINDSET

TALENT

Fira Barcelona

#SCEWC17

SMARTCITY
EXPO WORLD CONGRESS

Institutional Talk

José María Lassalle



15/11/2017 11:20-11:30

SPEAKERS

José María Lassalle / Secretary of State for Information, Society and Digital Agenda - Government of Spain - Madrid - Spain

Some years ago, Richard Florida argued that it is in cities where creative ecosystems flourish when there is a conjunction of the three T's: Technology, Talent and Tolerance. José María Lassalle echoed the words of the American professor and urbanist to point out that the combination of the three T's is key to achieving a 4.0 sustainability model for smart cities. He also argued that future smart cities should reconcile citizens with their urban environment.

To this end, the Government of Spain has deployed the National Plan for Smart Cities focusing on standardization of the model, support for industry and the governance of the system. Yet this plan needs to be renewed, widening its geographic scope to develop public services 4.0, stated the Spanish Secretary of State for Information, Society and Digital Agenda.

Hence the Spanish government is planning to launch the National Smart Territories Plan, worth €150 million, and aimed at endorsing the Smart Spain project, which promotes diversity, efficiency, tolerance and sustainability.



“Digital disruption must also be social and ethical.”

José María Lassalle

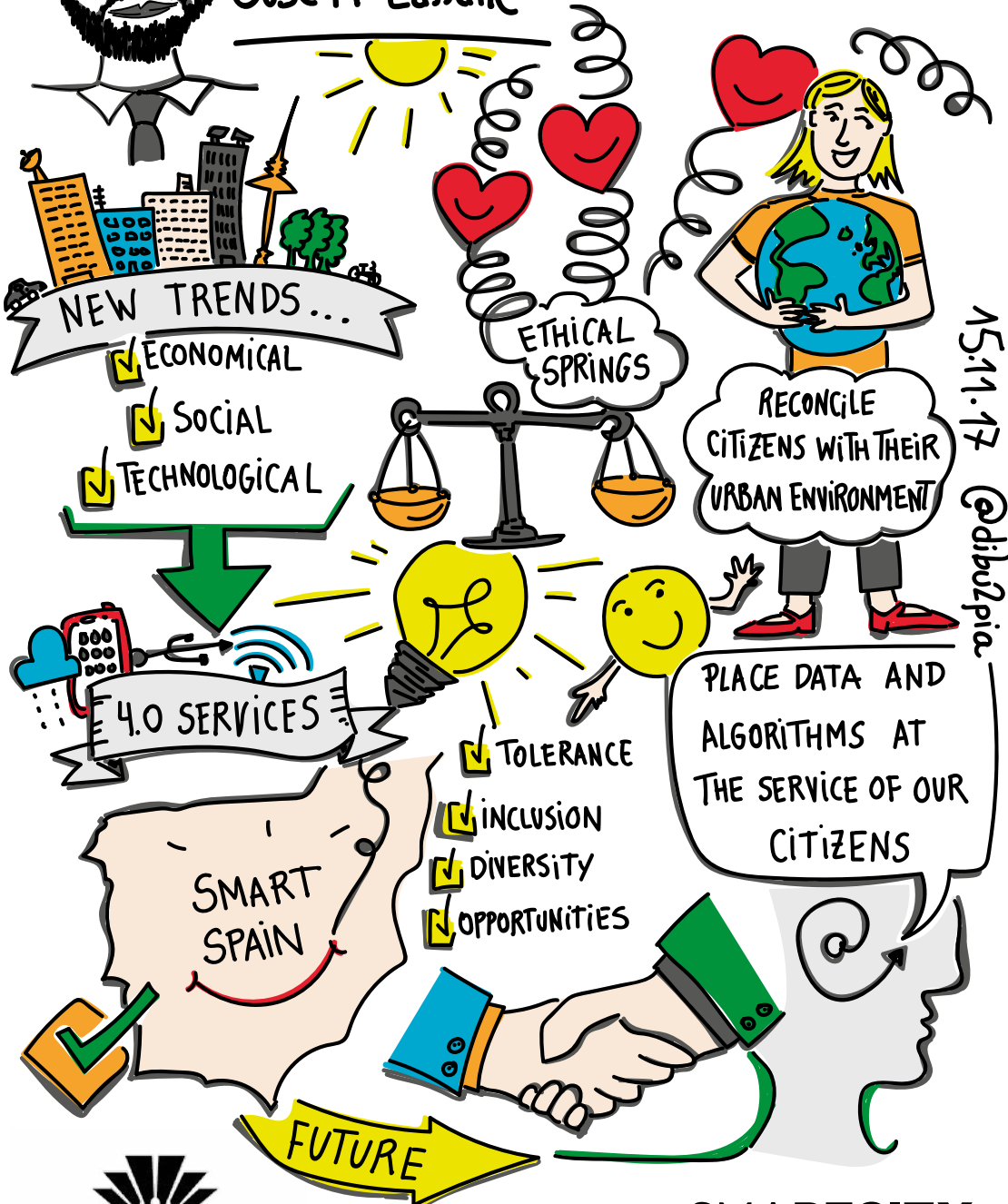


INSTITUTIONAL TALK

José María Lassalle



EMPOWER CITIES. EMPOWER PEOPLE.



15.11.17 @dibu2pia


Fira Barcelona

#SCEWC17

SMARTCITY
EXPO WORLD CONGRESS

Plenary Session

Rethinking Urban Governance: Cities at the Service of Population's Needs



14/11/2017 10:15-11:15

CHAIR

Mateu Hernández / CEO - Barcelona Global - Barcelona - Spain

SPEAKERS

Aisha Bin Bishr / Director General - Smart Dubai Office - Dubai - UAE

Joan Ribó Canut / Mayor - City of Valencia - Spain

Massimiliano (Max) Claps / VP Global Public Sector - SAP - Milan - Italy

Candace Byrd / Chief of Staff for Mayor - City of Atlanta - USA

Pilar Torres / Head of Public Sector Iberia - Amazon - Madrid - Spain

In many ways, the history of cities is the history of human innovation. Aisha Bin Bishr was convinced that digital innovation is changing for good the face of cities, but acknowledged some of them are finding it hard to keep pace with technological progress. However, she considered it essential that governments work to discover citizens' needs and then change policies to cover those needs. In Dubai, she said, they plan to have a government fully powered by blockchain technology, and thus more efficient, by 2020.

Yet the ultimate goal of this shift is not technology by itself but "making people happier," she concluded. Joan Ribó followed up by stating that smart cities can improve city life when they are a means, not an end. The Mayor of Valencia elaborated on this idea by emphasizing that Public Private Partnerships (PPP) are a key factor to develop applications at the service of citizens. Max Claps continued along the same lines, underscoring that "smart cities are enabled by technology, but they are not technology".

In her turn, Candace Byrd highlighted that the most strategic scenario of development includes everyone, thus emphasizing equity as a crucial ingredient for Atlanta to be "a livable and viable city". Finally, Pilar Torres made it clear that the agility and ability to deploy an infrastructure is a huge enabler of innovation, which has to be cheap to be successful. At the end of the day, even if each city is a unique case, the best way to empower citizens is starting with proven solutions and very specific areas, she concluded.

“

“The most strategic scenario of development includes everyone.”

Candace Byrd

RETHINKING URBAN GOVERNANCE AT THE SERVICE OF POPULATION NEEDS



EMPOWER CITIES. EMPOWER PEOPLE.



MAIN GOAL IS PEOPLE'S HAPPINESS

WE HAVE TO BECOME INNOVATORS OURSELVES

AN ECONOMY OF DATA

- IN HABITANTS
- VISITORS

- MATEU HERNÁNDEZ
- JOAN RIBÓ I CANUT
- CANDANCE BYRD
- AISHA BIN BISHR
- MASSIMILIANO CLAPS
- PILAR TORRES

SHARING



OPEN

SERVICES

DATA

BUILD PROSPERITY FOR EVERYONE

AND FIND PARTNERS

REAL TIME

- BIG DATA
- CLOUD COMPUTING
- MACHINE LEARNING
- BLOCKCHAIN
- ARTIFICIAL INTELLIGENCE

CITIZENS COMPANIES ADMINISTRATION



VISION

THE SUCCESS OF INNOVATION HAS TO BE AGILE AND SCALABLE

EQUITY

SHAPE THE FUTURE!!

CITIES HAVE DYNAMIC NEEDS

- EFFICIENCY
- OPTIMIZATION

DECISION MAKING

INFRASTRUCTURES DISCOVER WHAT CITIZENS WANT

TECH INSIGHTS

SECURE & SEAMLESS



14.11.17 @dibu2pia

Fira Barcelona

#SCEWC17

SMARTCITY EXPO WORLD CONGRESS

Plenary Session

Collective Efforts to Tackle Global Urban Challenges



14/11/2017 11:30-12:30

CHAIR

Dimitri Zenghelis / Head of Climate Policy - Grantham Research Institute, London School of Economics - London - UK

SPEAKERS

Miguel Gamiño /CTO - City of New York - USA

Sajeesh Kumar /Director, Smart Cities - Ministry of Housing and Urban Affairs - Delhi - India

Tim Turitto /Worldwide General Manager, Government - Microsoft - Seattle - USA

Theo Blackwell /Chief Digital Officer - Greater London Authority - London - UK

Martin Powell /Global Head of Urban Development - Siemens Center of Competence Cities - London - UK

Cities are all about efficiency and that's why people choose to live there in the first place. But nowadays efficiency requires managing the plethora of data that cities create on a day-to-day basis, having some infrastructure and turning to smart, creative and inclusive solutions, as Dimitri Zenghelis put it to start the session. Miguel Gamiño signaled that focusing on neighborhoods and discovering what the priorities of the community are is key to developing successful inclusive policies. Technology is not a priority, but it can solve issues. The CTO of the City of New York also pointed out that cities have to better realize that government has to improve citizens' lives and the private sector is profit driven, but that is not mutually exclusive. It is possible to find those sweet spots where people can have their needs fulfilled and the private sector still makes money.

Sajeesh Kumar added that technology should be brought up in an integrated way. Tim Turitto continued along the same lines and stated that a smart city is a connected city, but that connection is made by people. Hence, what is important is how people organize themselves to carry out projects. In this respect, Theo Blackwell stressed the need

“

“When you ask the community, you start building solutions to things that people themselves have prioritized.”

Miguel Gamiño

to develop “a collaborative framework between all the stakeholders and to create a common sense of purpose”. Martin Powell asserted that anybody should be allowed to take a dataset and create smart applications. Smart projects have to really improve people's lives, he concluded.

COLLECTIVE EFFORTS TO TACKLE GLOBAL URBAN CHALLENGES



EMPOWER CITIES. EMPOWER PEOPLE.

- DIMITRI ZENGHELIS
- SAJEESH KUMAR
- TIM TURITTO

- MIGUEL GAMIÑO
- THEO BLACKWELL
- MARTIN POWELL



11.17 @dibu2pia

Fira Barcelona

#SCEWC17

SMART CITY EXPO WORLD CONGRESS

Plenary Session

Strategic Alliances to Ensure a Green and Sustainable Future



14/11/2017 15:10-16:10

CHAIR

Mitchell Kosny / Associate Director and Professor - School of Urban and Regional Planning, Ryerson University - Toronto - Canada

SPEAKERS

Shannon Lawrence / Director of Global Initiatives - C40 Cities Climate Leadership Group - London - UK

Thomas Geisel / Mayor - City of Düsseldorf - Germany

Anil Menon / Global President, Smart+Connected Communities - Cisco - Orlando - USA

Mohamed Mezghani / Secretary General Elect - UITP - Brussels - Belgium

Mitchell Kosny kicked off the session by asking the panel what strategic alliances need to be created to collaboratively achieve a green and sustainable future. Shannon Lawrence answered that from the C40 perspective city-to-city alliances are the most strategic as mayors and city officials most often like to learn from their peers. She also focused on cooperation between cities and the private sector to reduce greenhouse gas emissions and meet their targets. As to the best strategies to develop a sustainable future, she listed three main actions: having a plan and a vision for how to build these cities of the future, developing collective action and integrating resilience into everything.

Thomas Geisel followed up by explaining the issues faced by Dusseldorf, especially regarding transportation, and pointed out that smart city is an imperative to serve citizens. In his turn, Mohamed Mezghani showed the constraints in the definition of smart and sustainable city, as the issues both concepts encompass are complex. That is why alliances are needed, he said. In his view, old players and new actors have to redesign new business relationships so that we can redefine how we move around the city or how we consume energy.

“

“Smart city is an imperative if we want to provide the services citizens rightfully expect from governments.”

Thomas Geisel

Finally, Anil Menon brought up the concept of smart connected communities, and recognized communities are the soul of the city, so technology is just a tool. He ended his speech by mentioning five elements to create a smart sustainable city: political will, global standards, smart regulations, Public Private Partnership (PPP) and a local innovation ecosystem.

STRATEGIC ALLIANCES TO ENSURE A GREEN & SUSTAINABLE URBAN FUTURE



EMPOWER CITIES. EMPOWER PEOPLE.

- MITCHELL KOSNY
- THOMAS GEISEL
- SHANNON LAWRENCE
- ANIL MENON
- MOHAMED MEZGHANI



14.11.17 @dibu2pia

Fira Barcelona

#SCEWC17

SMARTCITY EXPO WORLD CONGRESS

Plenary Session

Boosting Collaborative, Sharing and Circular Cities



14/11/2017 17:30-18:30

CHAIR

James Pennington / Project Specialist Circular Economy, China/Africa Lead - World Economic Forum - Geneva - Switzerland

SPEAKERS

Sladjana Mijatović / Circular Innovation Officer - City of Amsterdam - Netherlands

Felipe Urbano de Saleta / Head of Business Development, Communications and External Affairs - FCC Environment - Madrid - Spain

Álvaro Porro Gonzalez / Councilor of Social Economy, Local Development and Consumption - Barcelona City Council - Spain

Clémentine Malgras / Explorer - #Sharitories - Paris - France

We are going in the wrong direction in terms of resource use. James Pennington started off the session by citing significant figures in this respect: In 2010, we extracted 70 billion tons per year of resources, and by 2030 this will reach 100 billion. So, we need to start thinking differently about resources. This is where the Circular and the Sharing models come in.

“

“Mobility as a service is one of the most promising solutions for the coming years.”

Sladjana Mijatović

Álvaro Porro talked about Circular Economy as a fantastic opportunity for collective action and innovation but also as a significant challenge bringing economic, social and cultural changes. He said that Barcelona is ready for that shift, while he acknowledged the city is trying to manage the impacts created by platforms using the sharing economy label to do business in an unregulated context. In his turn, Felipe Urbano pictured the differences concerning waste recycling among EU countries and emphasized the need for harmonization and quite serious investments in specific markets to meet the 2030 sustainable goals.

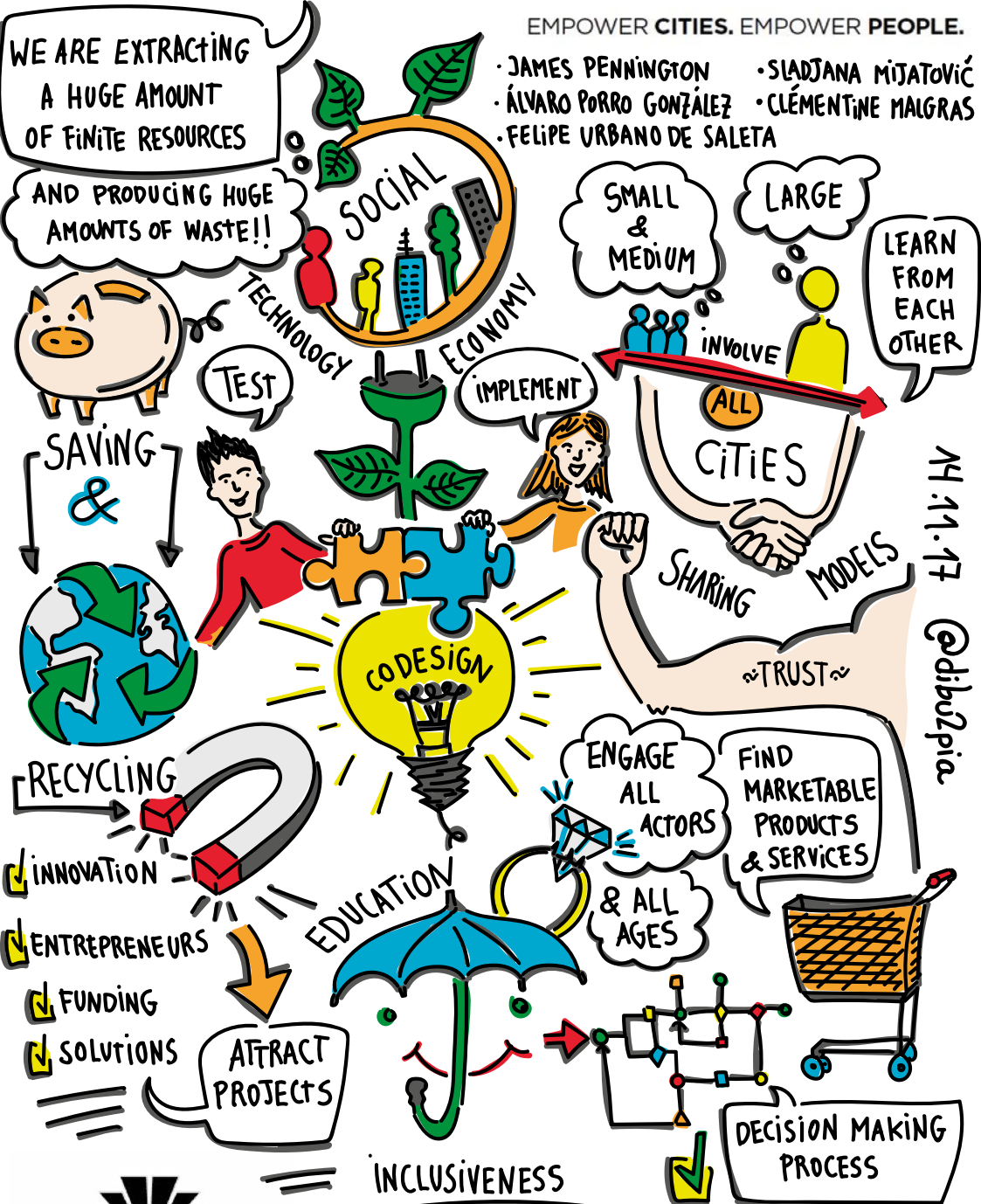
Clémentine Malgras followed up by explaining that the sharing city model is helping small and medium-sized cities (20,000 to 100,000 inhabitants) in three aspects: the relocalization of value, the diversity of economic activity, and the impact on the social fabric of the city. Finally, Sladjana Mijatović recognized it is not that easy to realize the whole circular system change. The big challenge is how to do that in an existing city, as many instruments have to be repurposed. In any case, there is a real need for collaboration between different stakeholders to make it possible.

BOOSTING COLLABORATIVE, SHARING AND CIRCULAR CITIES.



EMPOWER CITIES. EMPOWER PEOPLE.

- JAMES PENNINGTON
- SLADJANA MIJATOVIĆ
- ÁLVARO PORRO GONZÁLEZ
- CLÉMENTINE MALGRAS
- FELIPE URBANO DE SAETA



Fira Barcelona

#SCEWC17

SMARTCITY
EXPO WORLD CONGRESS

Plenary Session

Making Safer, Smarter and Healthier Cities



15/11/2017 10:15-11:15

CHAIR

Emilia Saiz / Deputy Secretary General - United Cities and Local Governments - Barcelona - Spain

SPEAKERS

Rob Meikle / CIO - City of Toronto - Canada

Karine Dognin-Sauze / Vice President of Innovation, Smart City and Digital - La Métropole de Lyon - France

Joe So / CTO of Industry Solutions, Marketing and Solutions Sales Dept., Enterprise Business Group - Huawei Technologies - Shenzhen - China

Tri Rismaharini / Mayor - City of Surabaya - Indonesia

Austin Ashe / General Manager of Intelligent Cities - Current, powered by General Electric - San Ramon - USA

Data can help cities solve the root of problems, said Rob Meikle to start off the discussion. Yet urban areas have to double-check that analytics are used to serve people and be resilient. Accordingly, he also made it clear that governments should prepare for cybersecurity attacks and make sure they close the social divide. Karine Dognin-Sauze emphasized that the main concern for a city is to create a lifestyle to generate innovation, as well as the right environment for collaboration and experimentation. In this respect, she underlined that the collaborative approach is fundamental to make a city much smarter, agile, creative and human-centric.

Joe So elaborated on this idea and stated that the smart city is a “systematic process of re-engineering”. He went through the various stages of smart city development and underscored that today we are dealing with the smart city 3.0 involving IoT. On that note, he pointed out that an ecosystem of different partners is needed to develop a smart city. Tri Rismaharini agreed that cooperating with different stakeholders can help solve many problems. She particularly insisted on those faced

“

“We need to define how we want to live with innovative technologies.”

Karine Dognin-Sauze

by the city of Surabaya, the second largest city in South Asia.

Austin Ashe came full circle when stating that the most important ingredient of smart cities is people. He advocated building a platform aimed at understanding citizens’ needs and then measuring what a success really means in terms of developing a smart city. Emilia Saiz closed the session by insisting that problems affecting local communities need to be solved by the local experience.

MAKING SAFER, SMARTER AND HEALTHIER CITIES.



EMPOWER CITIES. EMPOWER PEOPLE.

- EMILIA SAIZ
- ROB MEIKLE
- JOE SO
- KARINE DOGNIN-SAUZE
- TRI RISMAHARINI
- AUSTIN ASHE



AS.11.17 @dibu2pia

Fira Barcelona

#SCEWC17

SMARTCITY EXPO WORLD CONGRESS

Plenary Session

Building Participatory, Inclusive and Livable Cities



15/11/2017 11:35-12:30

CHAIR

Ali Aslan / TV Presenter and Journalist - Berlin - Germany

SPEAKERS

Soichiro Takashima / Mayor - City of Fukuoka - Japan

Núria Marín Martínez / President, Mayor - Spanish Network of Intelligent Cities (RECI), L'Hospitalet City Council - Spain

Maya Wiley / Senior Vice President for Social Justice - The New School - New York - USA

Hany Fam / Executive Vice President, Enterprise Partnerships - Mastercard - London - UK

How can local governments adopt participatory approaches to encourage citizens to be involved and contribute to more livable cities? This was the question posed by Ali Aslan for the start of the session. Núria Marín responded that any government should prioritize citizens' well-being and govern the city, not just manage it. Accordingly, she highlighted that L'Hospitalet de Llobregat is working on both environmental and socio-economic aspects to develop the smart city.

In his turn, Soichiro Takashima noted that Fukuoka is collaborating with industry, academia and citizens to develop a sustainable city for the upcoming 100 year lifetime aging society, thus supporting a startup ecosystem and focusing on mobility, security and energy. By contrast, Maya Wiley went back to the basics. She said that in New York City 27% of the population is not even online at home and brought up a couple of initiatives to solve that problem: the LinkNYC initiative to give superfast free wireless connection through over 7,500 pay phones, and the creation of the world's largest hot gigabit speed corridor throughout the city.

Hany Fam followed up by emphasizing that Mastercard wants to bring at least half a billion people (out of 2.5 billion) into the formal economy by 2020. Then, he proposed redefining PPP and taking into consideration the engagement between citizens and government; the engagement between government and the private sector; and the engagement between citizens and the private sector. Yet underpinning this, an intelligent use of data and great access to that data is needed.

“

“We need to move beyond our thinking about PPP.”

Hany Fam

BUILDING PARTICIPATORY, INCLUSIVE & LIVABLE CITIES.



EMPOWER CITIES. EMPOWER PEOPLE.

- ALI ASLAN
- MAYA WILEY
- NURIA MARÍN
- SOICHIRO TAKASHIMA
- HANY FAM



15.11.17 @dibu2pia


Fira Barcelona

#SCEWC17

SMARTCITY
EXPO WORLD CONGRESS

Plenary Session

Developing More Affordable and Sustainable Cities



15/11/2017 17:15-18:15

CHAIR

Christopher Swope / Managing Editor - Citiscope - Washington DC - USA

SPEAKERS

John Jorritsma / Mayor - Municipality of Eindhoven - Netherlands

Koon Hean Cheong / CEO - Housing and Development Board - Singapore

Denis Hameau / Metropolitan Councilor, Delegate for Education and Innovation - Dijon Métropole - France

Ulrich Ahle / CEO - FIWARE - Berlin - Germany

Francisco Javier Garcia Vieira / Director of Public Services - Red.es - Madrid - Spain

Christopher Swope introduced the session by asking the panelists whether it's possible to have both sustainable and affordable cities. John Jorritsma announced that Eindhoven plans to replace its fuel buses by 2020. For now, 43 electric buses are used in the Dutch city with great success. Another major goal is bringing the service to rural areas. But that would require more battery capacity, thus more research.

In her turn, Koon Hean Cheong stated it's possible to develop sustainable public housing. Singapore houses 82% of the population in one million public and sustainable flats equipped with broadband and fiber with a system of grants and subsidies enabling people to pay their mortgage every month without any cash outlay. Denis Hameau followed up by stating that smart cities need to have a vision and a strategy. He elaborated on the need to centralize data and make the best of private innovation with public leadership.

Ulrich Ahle regretted that data existing in the city environment is still organized in silos. Hence the priority

“

“Innovation is not easy, but sharing experience and collaborating can make the difference.”

John Jorritsma

should be creating standards to generate value. The Fiware solution was created with this purpose and is now used by more than 100 cities from 23 countries. Finally, Francisco Javier Garcia Vieira stressed that smart city technologies have to be within reach of every kind of city and not only big capitals. In Spain, more than 40 cities are benefitting from the National Plan for Smart Cities. The chair wrapped up the session by stating that technology is often part of the solution but it's not the only solution.

DEVELOPING MORE AFFORDABLE & SUSTAINABLE CITIES



EMPOWER CITIES. EMPOWER PEOPLE.

- CHRISTOPHER SWOPE
- JOHN JORRITSMAN
- KOON HEAN CHEONG
- DENIS HAMEAU
- FCO. J. GARCÍA VIEIRA
- ULRICH ALHE

AS CITIES GET BIGGER... THE COST OF LIVING GETS HIGHER...



RESEARCH



ZERO EMISSIONS

START



HOUSING

FINDING FUNDS

PUBLIC MOBILITY

IMPLEMENT "TRY & ERROR"

15.11.17 @dibu2pia

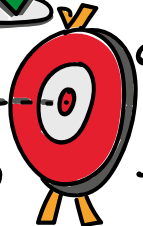
NEW

DIGITAL ECOSYSTEM



VISIONARY

STRATEGY



- ✓ CHEAPER
- ✓ FASTER
- ✓ STRONGER

HUGE OPPORTUNITY FOR ICT INDUSTRY



LEADERSHIP

SHARING

- ✓ KNOWLEDGE
- ✓ EXPERIENCE
- ✓ SUCCESSFUL CASES

SCALABILITY



MIDDLEWARE PLATFORMS

YOU CAN ONLY SCALE IF ... YOU DO IT!

INNOVATION DRIVEN BY CITIZENS' NEEDS

OPENSOURCE FREE ROYALTY LAST LAYER "BLOCKS"

COLLABORATION

PUBLIC

PRIVATE

Fira Barcelona

#SCEWC17

SMARTCITY EXPO WORLD CONGRESS

Plenary Session

Engaging and Empowering People Using Data and Digital Innovations



16/11/2017 10:00-11:00

CHAIR

Carl Piva / Vice President of Strategic Programs - TM Forum - Stockholm - Sweden

SPEAKERS

Adriana Krnáčová / Mayor - City of Prague - Czech Republic

Claudio Simão / CTO - Hexagon - Kingston upon Thames - UK

Danielle DuMerer / CIO and Commissioner - City of Chicago - USA

Vasyl Kryvonos / COO - Unit - Kiev - Ukraine

Gilles Babinet / Digital Champion representing France - European Commission - Paris - France

“Cities need to lead the way in how we deal with data,” said Carl Piva to start off the session. But how? Adriana Krnáčová acknowledged that not having data is costly for municipalities, as modern cities have incorporated complex process flows which are neither interconnected nor synchronized. She cited the city of Prague, with 57 boroughs and 57 different budgets, as an example of the need for real-time process flows. She also noted that security and privacy have to mark out the route towards a standardized platform to solve those issues.

Claudio Simão echoed that sentiment by underlining the need to optimize the interoperability of processes. Moreover, he pointed to crowdsourcing as a fundamental component of smart cities that can lubricate the sharing economy and foster more democratic management of cities. In her turn, Danielle DuMerer talked about The Array of Things project in Chicago and the modernization of the FreeII as examples of how to collect information via IoT and develop projects with citizens’ contributions. However, she insisted governments need to identify what kind of data they really need.

“

“You have to be safe to be smart.”

Adriana Krnáčová

Vasyl Kryvonos argued that alongside the collected data comes the question of the amount of engagement cities really want to get. Gilles Babinet followed through by wondering whether data helps cities make better political decisions. Accordingly, he provided examples of good initiatives in Rwanda and Estonia and advocated open data and open source to engage and empower people. Carl Piva finished off the session by wondering what can happen if everything we do is scrutinized? Food for thought.

ENGAGING AND EMPOWERING PEOPLE USING DATA & DIGITAL INNOVATIONS



EMPOWER CITIES. EMPOWER PEOPLE.

- CARL PIVA
- ADRIANA KRŇÁČOVÁ
- CLAUDIO SIMÃO
- DANIELLE DUMERER
- VASYL KRYVONOS
- GILLES BABINET



16.11.17 @dibu2pia

Fira Barcelona

#SCEWC17

SMARTCITY EXPO WORLD CONGRESS

Plenary Session

Harnessing Data & Tech to Achieve Common Urban Goals



16/11/2017 11:45-12:45

CHAIR

Mara Balestrini / CEO - Ideas for Change - Barcelona - Spain

SPEAKERS

Francesca Bria / Chief Technology and Digital Innovation Officer - Barcelona City Council - Spain

Andrew Collinge / Smart City Lead and Assistant Director, Intelligence and Analysis - Greater London Authority - London - UK

Ravi Sirigineedi / Global Segment Marketing Manager - Intel - Chandler - USA

Jamie Burke / CEO and Founder - Outlier Ventures - London - UK

Andrés Camacho / Innovation and Change Director - Ferrovial - Madrid - Spain

Today cities can leverage big data and abstract it in ways that are useful for long range planning. Yet some challenges have to be overcome, warned Mara Balestrini to start off the session. Ravi Sirigineedi echoed that sentiment by emphasizing that data needs to be actionable and provide social impact. He also stressed the need to secure the information that is flowing back and forth through IoT.

“

“We need a New Deal on data.”

Andrew Collinge

Jamie Burke followed up by emphasizing that what people want are intelligent systems which are usable and responsive, say decentralized environments where value can be better distributed. This is what blockchain offers. Andrés Camacho turned the discussion back to city services and said the use

of data will enable a quantum leap in operational efficiency, a change in business models, and more empowerment for citizens resulting in better experiences.

In his turn, Andrew Collinge explained how London is using data and machine learning to address public policy challenges such as air quality. He also declared himself in favor of taking the discussion of how people's data is used to the community. Finally, Francesca Bria said cities need to create a positive narrative on data so that they can build an economy that really serves citizens. Opportunities will emerge if they move away from data extractivism to a system that socializes data much more, she added. In this respect, she argued Barcelona is creating ethical data standards, as it all boils down to giving power back to the citizens so they decide with whom to share data and with what purpose.

HARNESSING DATA AND TECH TO ACHIEVE COMMON URBAN GOALS



EMPOWER CITIES. EMPOWER PEOPLE.

- MARA BALESTRINI
- ANDREW COLLINGE
- ANDRÉS CAMACHO
- FRANCESCA BRIÀ
- RAVI SIRIGINEEDI
- JAMIE BURKE



Fira Barcelona

#SCEWC17

SMARTCITY
EXPO WORLD CONGRESS

Plenary Session

Keep Cities Moving: Towards New Mobility Models



16/11/2017 15:20-16:20

CHAIR

Paul Krutko / President and CEO - Ann Arbor SPARK - Ann Arbor - USA

SPEAKERS

Ani Dasgupta / Global Director - WRI Ross Center for Sustainable Cities at World Resources Institute - Washington DC - USA

Carlos Moreno / The Mayor of Paris's Special Envoy for Smart Cities - City of Paris - France

Isaac Martín-Barbero / President - INECO - Madrid - Spain

Michel Chain Carrillo / Secretary of Competitiveness, Labor and Economic Development -Government of the State of Puebla - Puebla - Mexico

Paul Krutko introduced the session by saying that “we’re living a great period of accelerations of accelerations”, meaning that technologies are developing faster and impacting the way people and goods move in our communities. Then he asked the panelists to analyze how city leaders can better translate current user behavior towards transport to provide sustainable travel and keep cities moving.

Ani Dasgupta answered by pointing out that leveraging existing mobility solutions with new mobility is good for people and the planet. Connecting informal transport to public transport and shared mobility is the ecosystem that is working, he added. Carlos Moreno followed up by underscoring that mobility is responsible for the unhealthy air people are breathing in cities and claimed that it’s becoming urgent to change the transportation paradigm and transform the urban culture about mobility. How? Engaging citizens and using technology for the best.

In his turn, Isaac Martín-Barbero emphasized that cities have to move beyond what is comfortable to do from the

“

“We won’t get cities moving unless we significantly improve mobility solutions.”

Isaac Martín-Barbero

supply or the bureaucratic side, and incorporate citizens’ feelings and needs. Michel Chain agreed that it is crucial to foster citizens’ engagement and then prioritize. The first priority, therefore, should be pedestrians, then bicycles and public transportation, and finally cars and motorcycles. The most important input is not technology but people who are going from point A to point B. In fact, all the panelists agreed that technology is not enough, but as Ani Dasgupta said: “it is happening and it can be turned towards good.”

KEEP CITIES MOVING: TOWARDS NEW MOBILITY MODELS



EMPOWER CITIES. EMPOWER PEOPLE.

- MICHAEL CHAÍN CARRILLO • PAUL KRUTKO
- ISAAC MARTÍN-BARBERO • ANI DASGUPTA
- CARLOS MORENO



16.11.17 @dibu2pia

Fira Barcelona

#SCEWC17

SMARTCITY
EXPO WORLD CONGRESS

Dialogue Session

Barcelona - New York



16/11/2017 16:20-17:05

CHAIR

Gemma Galdon Clavell / Director - Eticas Research and Consulting - Barcelona - Spain

SPEAKERS

Gala Pin Ferrando / Councilor of Participation and Districts - Barcelona City Council - Spain

Miguel Gamiño / CTO - City of New York - USA

Gemma Galdon started off the session by bringing to the table the role that cities are playing in reshaping the relationship between technology and society. Both Gala Pin and Miguel Gamiño agreed that cities have to make sure they are paying attention to the needs of their population. Sometimes that is through the implementation of technology, sometimes that is through the analytical evaluation of data for better decision-making.

“

“Data represents the opportunity to make better decisions.”

Miguel Gamiño

In this respect, Gala Pin highlighted the importance of open software and open data to design new governance standards adapted to the digital age. Miguel Gamiño added that it's necessary to ensure that everyone has access in the first place. He also placed emphasis on privacy and the need to close the literacy gap.

Gala Pin pointed out that Barcelona is offering various training courses on privacy and security and recounted her pride in the creation of the Barcelona Open Data portal and the participation platform named Decidim.Barcelona. Miguel Gamiño echoed her sentiment by emphasizing the scale of the NYCx project, a program to transform urban spaces into hubs for tech collaboration, research, testing and development, as it's changing the nature of the city's relationship with industry and introducing the voice of the community into the conversation.

Both speakers applauded the collaboration existing between the two cities, as instanced by a project to improve urban mobility for blind people, and hoped it will continue so that they don't need to reinvent the wheel to solve common problems.

DIALOGUE BCN-NYC



EMPOWER CITIES. EMPOWER PEOPLE.



- GEMMA GALDON CLAVELL
- GALA PIN FERRANDO
- MIGUEL GAMIÑO



15.11.16 @dibu2pia

Fira Barcelona

#SCEWC17

SMARTCITY EXPO WORLD CONGRESS

Thematic Sessions

Governance

Solutions to Improve Governance Models and Manage Innovation

14/11/2017 12:45-13:45

MODERATOR

Marc Garriga Portola / CEO and Founder - desideDatum Data Company - Barcelona - Spain

SPEAKERS

Younus Al Nasser / CEO - Smart Dubai Office - Dubai - UAE

Rushi Rama / Strategy, Markets and Standards Team Lead - Future Cities Catapult - London - UK

Pedro Vidal Matamala / Managing Director of Santiago Smart City Program - Santiago de Chile - Chile

Catarina Selada / Head of City Lab - Centre of Engineering and Product Development (CEiiA) - Matosinhos - Portugal

Claus Mullie / Smart City Consultant and Project Manager - Bax and Company - Barcelona - Spain

Mats Nilsson / Head of Technology Office - Kiruna Municipality - Sweden

Pilar Roch González / CEO - ideas4all Innovation - Madrid - Spain



“A Smart City is a tool to touch the life of every individual and to achieve a happier life for all.”

Younus Al Nasser

Cities for People: How to Implement the New Urban Agenda

14/11/2017 15:10-16:10

MODERATOR

Christopher Swope / Managing Editor - Citiscope - Washington DC - USA

SPEAKERS

Paulius Kulikauskas / Acting Chief of Office for Europe and European Institutions - UN-Habitat - Brussels - Belgium

Wild Ndipo James / Mayor - Blantyre City Council - Malawi



“Technology is neither a philosophy, nor a goal, nor an objective; it is a tool.”

Paulius Kulikauskas

Thematic Sessions

Governance

Standards for Smart Cities

15/11/2017 16:20-17:20

MODERATOR

Katie Bird / Head of Communication - International Organization for Standardization (ISO) - Geneva - Switzerland

SPEAKERS

Daniel Martínez Villaamil / Mayor - Montevideo City Hall - Uruguay

Gao Sumei / Executive Secretary General - China Electronics and Information Industry Alliance - Beijing - China

Frans Vreeswijk / General Secretary and CEO - International Electrotechnical Commission (IEC) - Geneva - Switzerland

Chaesub Lee / Director of Telecommunication Standardization Bureau - International Telecommunication Union - Geneva - Switzerland

Sergio Mujica / Secretary-General - International Organization for Standardization (ISO) - Geneva - Switzerland



“Everybody likes collaboration, but finds being coordinated hard.”

Sergio Mujica

Leveraging the Potential of City Network

14/11/2017 17:30-18:30

MODERATOR

Mehrnaz Ghojeh / Senior Urban Development Specialist - City Leadership Laboratory - London - UK

SPEAKERS

Pep Roig / Secretary General - United Cities and Local Governments (UCLG) - Barcelona - Spain

Shannon Lawrence / Director of Global Initiatives - C40 Cities Climate Leadership Group - London - UK

Rodrigo de Oliveira Perpétuo / Regional Director - ICLEI South America - Sao Paulo - Brazil

Bernadett Köteles-Degrendele / Smart Cities Project Co-ordinator - EURO CITIES - Brussels - Belgium

Paulo Oliveira / Coordinator of International Relations - FNP - Brasilia - Brazil



“Local governments have a major role in reinventing local democracy.”

Pep Roig

Thematic Sessions

Governance

From Smart Cities to Smart Regions and Nations

15/11/2017 13:00-14:00

MODERATOR

Daniel Marco / Director SmartCatalonia - Government of Catalonia - Barcelona - Spain

SPEAKERS

Jordi Puigneró / Secretary of Telecommunications, Cybersecurity and Digital Society - Government of Catalonia - Barcelona - Spain

Chang Khim Dato' Teng / Senior State Minister for Industry and Commerce, SMEs and Transportation Standing Committee - Selangor State Government - Shah Alam - Malaysia

Rebecca Lim / Director of the Adoption and Engagement Directorate - Smart Nation and Digital Government Office, Prime Minister's Office - Republic of Singapore

Henriette Bersee / Deputy Director for Spatial Development - Ministry of Infrastructure and the Environment - The Hague - Netherlands



“Key factors for developing smart cities are innovation, connectivity, social unity and sustainability.”

Chang Khim Dato' Teng

From e-Government to e-Participation

15/11/2017 14:15-15:15

MODERATOR

Adolfo Borrero Villalón / Vice President of Regional Action and President of the Smart Cities Commission - AMETIC - Madrid -Spain

SPEAKERS

Tony Fitzgerald / Lord Mayor - Cork City Council - Ireland

Pablo Sarrias / CEO - Civiciti - Barcelona - Spain

Henri Westra / (Open) Data Discoverer - Hollands Kroon - Netherlands

Eduard Martin Lineros / Director of Smart Cities and Strategy for the Public Sector - Sopra Steria - Barcelona - Spain



“Digital competences are crucial to truly achieve e-Governance and e-Participation.”

Eduard Martin Lineros

Thematic Sessions

Governance

Going Beyond Data Mining: Building a City Data Strategy

16/11/2017 10:00-11:00

MODERATOR

Esteve Almirall / Director of the Center for Innovation in Cities - ESADE Business and Law School - Barcelona - Spain

SPEAKERS

Igor Calzada / Lecturer and Senior Research Fellow - University of Oxford - Oxford - UK

Konstantinos Champidis / Chief Digital Officer - City of Athens - Greece

Stefano De Panfilis / Chief Operations Officer - FIWARE Foundation - Berlin - Germany

José Antonio Rubio Blanco / Data and Algorithms Leader - MINSAIT by INDRA - Madrid - Spain



“Each person and each interaction can be turned into the best sensor.”

José Antonio Rubio Blanco

Services Integration and Open Innovation to Improve Urban Management

16/11/2017 14:10-15:10

MODERATOR

Brenna Berman / Executive Director - City Digital - Chicago - USA

SPEAKERS

Kishia Powell / Commissioner - Department of Watershed Management - Atlanta - USA

Carlos Betancourth Llanos / Team Leader Smart City - EPTISA - Kolkata - India

Chen-Yu Lee / Director - Taipei Smart City Project Management Office - Taipei - Taiwan

Olga Kuzmina / COO - Moscow Agency of Innovations - Moscow - Russia



“Smart City models should evolve to be more human-centric.”

Carlos Betancourth Llanos

Thematic Sessions

Governance

Creating Shared Value through Innovative Collaborations and Partnerships

16/11/2017 15:20-16:20

MODERATOR

Miquel Rodríguez Planas / Manager of PPP for Cities - IESE - Barcelona - Spain

SPEAKERS

Ophir Paz Pines / Founder and Head - Institute for Local Government, Tel Aviv University - Tel Aviv - Israel

Mika Rantakokko / COO - The Six Cities Strategy, Open Innovation Platforms, Urban Agenda for the EU, Digital Transition Partnership - Oulu - Finland

Toni Richard Crisolli / Project Lead Smart Cities Education Initiatives SCEI - Friedrich Naumannm Foundation for Freedom - Belgrade - Serbia

Ricardo López de Haro / Director of Local Administrations - Ferrovial - Madrid - Spain

Roberto Sánchez Sánchez / General Director of Innovation and City Promotion - Madrid City Council - Spain



“To create smart cities we need disruptive entrepreneurs, active citizens and brave politicians.”

Toni Richard Crisolli

Strategies for Small and Intermediate Cities

16/11/2017 16:20-17:05

MODERATOR

Tomas Llorente Aguado / Architect, Tech Coordinator - Collado Villalba Town Council - Spain

SPEAKERS

Gary McCarthy / Mayor - Schenectady - USA

Trevor Budge / Manager of Regional Sustainable Development - City of Greater Bendigo - Australia

Vicki-May Hamm / Mayor of the City of Magog - Union of Municipalities of Quebec - Canada



“To develop smarter solutions, you should first evaluate your digital maturity.”

Vicki-May Hamm

Thematic Sessions

Mobility

Improving Real-time Mobility Information for Commuters

14/11/2017 12:45-13:45

MODERATOR

Enric Cañas Alonso / CEO - TMB Barcelona Metropolitan Transport - Barcelona - Spain

SPEAKERS

Pieter Litjens / Deputy Mayor of Traffic and Transport - City of Amsterdam - Netherlands

Miguel Cabeza / Senior Presales Manager - Dahua Technology - Madrid - Spain

Gene Myers / CTO-Wyld Research - London - UK

Miklos David Vago / Responsible for Sales and Business Development - Deutsche Telekom EU's European Smart Solutions CC - Budapest - Hungary



“Citizens will only accept mobility as a service when different modes of transportation connect seamlessly.”

Pieter Litjens

Innovative Public Transit Models Reshaping Cities

14/11/2017 14:00-15:00

MODERATOR

Álvaro Nicolás-Loscós / Mobility Adviser - Barcelona City Council - Spain

SPEAKERS

Dionisio González García / Director of Advocacy and Outreach - International Association of Public Transport (UITP) - Brussels - Belgium

Wang Jingliang / Deputy Director - Tianjin Industry and Informatization Committee - Tianjin - China

David Beeton / Founder and Managing Director - Urban Foresight - Newcastle upon Tyne - UK

Alvaro Urech / Innovation Manager - Alstom - Madrid - Spain

Nico Anten / Managing Director - Connekt - Delft - Netherlands



“Innovation is key to achieving sustainable public transit models.”

Dionisio González García

Thematic Sessions

Mobility

Bringing Pedestrians and Bikes Back to the City

15/11/2017 17:15-18:15

MODERATOR

Sunil Dubey / Metropolis Adviser and Academic - The University of Sydney and Metropolis World Association - Sydney - Australia

SPEAKERS

Claudia Peñaranda Fuentes / Principal Technical Specialist - Transport for London - UK

Tina Engen / Consultant - Agency of Urban Environment, Trafikkagenten - Oslo - Norway

Britt-Ida Tøftum / Project-member and Coordinator - Trafikkagenten - Oslo - Norway

Irene McAleese / Co-Founder and CSO - See.Sense - New-towards - UK

Sílvia Casorrán Martos / Specialist Sustainable Mobility and Head of Bicycle Projects - Barcelona Metropolitan Area (AMB) - Barcelona - Spain



“Cars are becoming a hazard rather than a concept of freedom.”

Sunil Dubey

Connected, Shared and On-demand Mobility

16/11/2017 11:45-12:45

MODERATOR

Manel Villalante Llauro / Director of Mobility and Transport Infrastructures - BCN Regional - Barcelona - Spain

SPEAKERS

Sami Sahala / Project Manager Smart Mobility - Forum Virium Helsinki - Finland

José Antonio López Becerra / Technology and Systems Director - SABA - Barcelona - Spain

Anton Fitzthum / Sales and Business Development - Fluidtime Data Services GmbH - Vienna - Austria

Alfonso Díaz del Río / Head of Strategic Projects - Ferrovial - Madrid - Spain

Paul Krutko / President and CEO - Ann Arbor SPARK - Ann Arbor - USA



“Mobility as a Service does not compete with transport, and nor does it replace it, but it makes transport systems better.”

Sami Sahala

Thematic Sessions

Mobility

Disruptive Trends Transforming Urban Mobility

16/11/2017 13:00-14:00

MODERATOR

Lluís Jofre Roca / Academic Director - Cooperative Automotive Research Network (CARNET) - Barcelona - Spain

SPEAKERS

Peter Marland / Mayor - Milton Keynes Council - UK
Ignasi Vilajosana / CEO and Co-Founder - Worldsensing - Barcelona - Spain
Will Judge / Vice President, Enterprise Partnerships - Mastercard - London - UK
Chris Atkins / Vice President for Digital Government Transformation - SAP - McCordsville - USA



“Three disruptive trends transforming urban mobility are digital integration and intermediation; route-shortening and multi-stage trips; and demand-side engagement.”

Will Judge

Intelligent Transport Systems Increasing Accessibility in Urban Areas

16/11/2017 14:10-15:10

MODERATOR

Dionisio Gonzalez García / Director of Advocacy and Outreach - International Association of Public Transport (UITP) - Brussels - Belgium

SPEAKERS

Nicolás Grandón Espinoza / Head of Smart Cities Unit - Ministry of Transport and Telecommunication - Santiago de Chile - Chile
Ian Koeppel / Transportation Business Development Manager for Europe - ESRI - Paris - France
Eugenio Prieto / Director - Valle de Aburrá Metropolitan Area - Medellín - Colombia
Miguel Izquierdo Soriano / Business Development Manager - Datatons - Madrid - Spain



“Supporting real time applications is enabling smart transportation.”

Ian Koeppel

Thematic Sessions

Mobility

Solutions to Enhance Urban Mobility

16/11/2017 14:10-15:10

MODERATOR

Konstantinos Kourkoutas / Cluster Manager of CORE Smart and Sustainable Cities - Universitat Autònoma de Barcelona (UAB) - Barcelona - Spain

SPEAKERS

Gearoid Ó Riain / Director - Citi Logik - London - UK

Sabine Flores / Managing Director - Association of Municipalities Hannover Braunschweig Göttingen Wolfsburg - Hannover - Germany

Dennis Mica / Business Development Manager - 2getthere - Utrecht - Netherlands

Janaina Camile Pasqual Lofhagen / PhD Student - Pontifical Catholic University of Parana - Curitiba - Brazil

Christina Franken / Project Lead - Mapbox - Amsterdam - Netherlands

Albane Siramy / Global Director for Corporate Affairs and Sustainability - UJET - Luxembourg - Luxembourg

Sile Ginnane / Co-Founder - Liberty Bell - Dublin - Ireland

Tim Franke / Business Development Manager, Innovative Mobility Solutions - Siemens - Munich - Germany



“Open cities are smarter cities.”

Christina Franken

Thematic Sessions

Safe Cities

Securing the Digital City: Cyber Threats and Responses

14/11/2017 14:00-15:00

MODERATOR

Joe Paiva / CIO - International Trade Administration, Department of Commerce, USA Government - Washington DC - USA

SPEAKERS

Alison Brooks / Research Director, Smart Cities and Public Safety - International Data Corporation (IDC) - Framingham - USA

Munish Khetrpal / Director, Business Development, Smart+Connected Communities - CISCO - San José - USA

Ian Smith - IoT Security Director - GSMA - London - UK

Asaf Ashkenazi / Vice President, IoT Security Products - Rambus - San Francisco - USA



“There are security risks of IoT, but the benefits are much bigger.”

Ian Smith

Strategies to Protect Critical Infrastructures and Assets

14/11/2017 15:10-16:10

MODERATOR

Ramon Sagarra Rius / Founder - Nearby Sensor - Barcelona - Spain

SPEAKERS

Juma Assiango / Safer Cities Program Coordinator - UN-Habitat - Nairobi - Kenya

Tomas Roy / Security Strategy Director - Information Security Center of Catalonia - Barcelona - Spain

Ares Gabàs Masip / Head of the Resilience Department - Barcelona City Council - Spain

Jed Sundwall / Global Open Data Lead - Amazon Web Services - Munich - Germany



“Cybersecurity makes business possible.”

Tomas Roy

Thematic Sessions

Safe Cities

Bend Not Break: Preparing Our Cities to Respond to Emergencies and Disasters

14/11/2017 16:20-17:20

MODERATOR

Magnus Qvant / Secretary General - Resilient Regions Association - Malmö - Sweden

SPEAKERS

Esteban León / Chief Technical Adviser of City Resilience Profiling Program - UN-Habitat - Barcelona - Spain

Steven Cost / President of Safety and Infrastructure - Hexagon - Madison - USA

Duvan Lopez Meneses / PhD Researcher - UNESCOSOST, UPC - Bogotá - Colombia

Ángel Pacheco Almendros / Business Development, Messaging and Emergency Services - Telefónica - Valencia - Spain



“Any risk reduction effort starts with risk analysis.”

Steven Cost

Technologies to Improve Public Safety and Resilience

15/11/2017 11:30-12:30

MODERATOR

Dan Lewis / Chief of Urban Risk Reduction Unit - UN-Habitat - Vancouver - Canada

SPEAKERS

Luis Nhaca / Councilor of Urban Planning and Environment - Maputo Municipality - Mozambique

Alexey Golubev / City Manager and President of the Association of Rosatom Nuclear Cities - Local Government, City of Sarov - Russia

Stefan Alfredsson / Global Solution Marketing Manager of Safe Cities - Axis Communications - Lund - Sweden



“We need to move away from silos and instead provide an increasingly collaborative approach to running a smart city.”

Stefan Alfredsson

Thematic Sessions

Safe Cities

Data Sovereignty: A New City Challenge

15/11/2017 13:00-14:00

MODERATOR

Marco Berlinguer / Researcher of Internet and Commons - Governance and Public Policies Institute (UAB) - Barcelona - Spain

SPEAKERS

Marijn Fraanje / CIO - City of The Hague - Netherlands

Bertrand Serp / Deputy Mayor of Digital Economy, Innovation and Robotics - Toulouse Métropole - France

Martin Cahen / Smart City Experimentation Project Leader - TUBA - Lyon - France

Andreas Bentz / Executive Consultant Smart Cities Solutions - Deutsche Telekom - Bonn - Germany



“Data sovereignty is now one of the big challenges for companies.”

Bertrand Serp

Solutions to Make Cities Safer

15/11/2017 14:15-15:15

MODERATOR

Ares Gabàs Masip / Head of the Resilience Department - Barcelona City Council - Spain

SPEAKERS

Thimo Thoeye Django / Open Data Manager - Stad Gent - Gent - Belgium

Bart Rosseau / Chief Data Officer - City of Ghent - Belgium
Gohar Sargsyan / Partner/ICT Innovation Lead - CGI - Rotterdam - Netherlands

Edwin Diender / Vice President, Government and Public Utility Sector - Huawei Enterprise Technologies - Shenzhen - China

Zvika Ashani / CTO - Agent Video Intelligence (Agent Vi) - Rosh Haayin - Israel

Sébastien Capelle / Director of Business Development Transport - Orange Business Services - Paris - France

Xavier Arrufat / Founder and CEO - AWAAIT Artificial Intelligence - Barcelona - Spain

Rahul Tomar / CTO - Tsenso GmbH - Stuttgart - Germany

Patricio Cofre / CEO - Metric Arts - Santiago de Chile - Chile



“AI will make our cities smarter.”

Zvika Ashani

Thematic Sessions

Safe Cities

Ensuring Digital Trust in the IoT Era

16/11/2017 13:00-14:00

MODERATOR

Tomas Roy / Security Strategy Director - Information Security Center of Catalonia - Barcelona - Spain

SPEAKERS

Samir Saini / Chief Information Officer - City of Atlanta - USA

Frank Zeichner / CEO - Internet of Things Alliance Australia - Sydney - Australia

Feng Guo / Chief IoT Solution Architect, Integrated Solution Sales Dept. - Huawei Enterprise Technologies - Shanghai - China



“Using the IoT, big data, and analytics allows cities to forecast what will happen and to take action.”

Samir Saini

Thematic Sessions

Economy

Women Leading Tech Innovations & Entrepreneurship

15/11/2017 10:15-11:15

MODERATOR

Ton Van't Noordende / Partner - StartupDelta, Keadyn and Angel Island - Amsterdam - Netherlands

SPEAKERS

Anne Sandelin / Director of Business Development and Employment Services - City of Jyväskylä - Finland

Cecilia Tham / Founder and Director - MOB - Barcelona - Spain

María Jesús Salido / CEO - SocialDiabetes - Barcelona - Spain

Edna Pasher / Founder and Chair - Israel Smart City Institute (ISCI) - Tel Aviv - Israel



“The future belongs to the most creative and innovative.”

Edna Pasher

Municipalities Addressing Financial Challenges

15/11/2017 11:30-12:30

MODERATOR

Hila Oren / CEO- The Tel Aviv Foundation - Tel Aviv - Israel

SPEAKERS

Elena Bourgangskaia / Global Head of Water and Municipal Infrastructure - International Finance Corporation - Washington DC - USA

Leonor Berriochoa Alberola / Senior Engineer, Urban Development Division, Projects Directorate - European Investment Bank - Luxembourg - Luxembourg

Rodolfo Enrique Zea Navarro / President - FINDETER - Bogotá - Colombia

Arvind Satyam / Managing Director of Smart Cities - CISCO - San Francisco - USA



“When addressing financial challenges, citizens are those who should set priorities.”

Leonor Berriochoa Alberola

Thematic Sessions

Economy

Innovation Ecosystems Enabling Entrepreneurship in Cities

15/11/2017 13:00-14:00

MODERATOR

Josep Miquel Piqué / Executive President - La Salle Technova Barcelona - Barcelona - Spain

SPEAKERS

Dimitri Zenghelis / Head of Climate Policy - Grantham Research Institute, London School of Economics - London - UK

Teppo Rantanen / Executive Director, Growth, Innovation and Competitiveness - City of Tampere - Finland

Víctor Enrique Mata Temoltzin / Secretary of Economic Development - City of Puebla - Mexico

Liora Shechter / CIO - Tel Aviv Yafo Municipality - Israel

Luisa Silva / Director of GTM at Startup Focus - SAP - Luxembourg - Luxembourg



“Cities are the place to apply innovations for entrepreneurs and to handle new challenges.”

Josep Miquel Piqué

How Smart Cities Can Accelerate the Transformation in Africa

15/11/2017 14:15-15:15

MODERATOR

Emery Rubagenga / CEO - ROKA - Kigali - Rwanda

SPEAKERS

Hakima Fasly / Vice Mayor - Municipality of Casablanca - Morocco

Erias (Ssalongo) Lukwago / Lord Mayor - Kampala Capital City Authority (KCCA) - Uganda

Daniel Eric Clive Laurent / Lord Mayor - Maire de Port-Louis - Mauritius

Riad Hartani / Founder - Padovani Ventures - Alger - Algeria

Fatitha Slimani / Responsible of Alger Smart City Project - City of Alger - Algeria



“Smart cities could be a chance to leapfrog the infrastructure gap between African cities and more developed cities.”

Emery Rubagenga

Thematic Sessions

Economy

Sustainable Development and Economic Growth through Innovation

16/11/2017 13:00-14:00

MODERATOR

Alex Ivancic / Senior Consultant - Aiguasol - Barcelona - Spain

SPEAKERS

Edgar Mora / Mayor - City of Curridabat - Costa Rica

André Moreira Fraga / Secretary of Sustainable City and Innovation - City of Salvador - Brazil

Maties Serracant / Mayor - Sabadell City Council - Spain

Lisa Enarsson / Project Manager - City of Stockholm - Sweden



“The city can work as a hub of innovation and business accelerator to integrate government, the environment and people.”

André Moreira Fraga

Managing a Smart Destination and its Impacts

16/11/2017 14:10-15:10

MODERATOR

Cristina Mateo / Executive Director - IE School of Architecture and Design - Madrid - Spain

SPEAKERS

Jesús Cañadas Fernández / Area Manager; Secretary of State for Information Society and Digital Agenda - Ministry of Energy, Tourism and Digital Agenda - Madrid - Spain

Carlos Romero Dexeus / Director of Tourism Research, Development and Innovation - SEGITTUR - Madrid - Spain

Mariano Lamarca Lorente / Infrastructures, Standardization and Smart Cities Manager - Information Technology Municipal Institute of Barcelona - Spain

Josep Lluís Colom Martínez / Director of Modernization and Innovation - Consell Insular de Mallorca - Palma - Spain



“We need a global standard solution for tourism.”

Jesús Cañadas Fernández

Thematic Sessions

Economy

4 Years From Now: How Startups are Innovating Cities

16/11/2017 15:20-16:20

MODERATOR

Mike Lake / President and CEO - Leading Cities - Boston - USA

SPEAKERS

Frederico Augusto Lacerda / CEO - Curitiba Development Agency - Curitiba - Brazil

Jeremy Goldberg / Deputy CTO, Industry Engagement - City of New York - USA

Emmanuel Leger / Managing Director - DataCity - Paris - France

Shana Krakowski / Director of "the Platform" - Municipality of Tel Aviv - Israel

Denys Bornauw / Corporate Relationships Director - Digital Attraxion - Mons - Belgium



“We shouldn’t be solving over and over the same problems in our own bubble.”

Shana Krakowski

Thematic Sessions

Sustainability

Transforming Today's Cities into Low-carbon Settlements

14/11/2017 10:15-11:15

MODERATOR

Roman Serdar Mendle / Smart Cities Program Manager - ICLEI - Bonn - Germany

SPEAKERS

Koon Hean Cheong / CEO - Housing and Development Board - Republic of Singapore

José Maria Piqué Riera / Regional Manager for Catalonia, Aragon and Balearics - Siemens - Cornellà de Llobregat - Spain

Christophe Ferrari / President - Métropole de Grenoble - France

Oliver Juli - Project Manager - Aspern Smart City Research - Vienna - Austria

Nicolas Keutgen / Chief Innovation Officer - Schröder - Brussels - Belgium



“It’s crucial to involve citizens in the process of transforming the city into a sustainable area.”

Christophe Ferrari

Rethinking Strategies for Integrated Urban and Regional Development

14/11/2017 12:45-13:45

MODERATOR

Paulius Kulikauskas / Acting Chief of Office for Europe and European Institutions - UN-Habitat - Brussels - Belgium

SPEAKERS

Jordi Pericàs Torguet / Director of Technology and Systems - Barcelona Provincial Government - Barcelona - Spain

Feng Bo / Deputy Director of Smart and Low-Carbon Cities - China Center for Urban Development - Beijing - China

Wolfgang Volz / Software Innovations - Bosch - Barcelona - Spain

Costly Chanza / Director of Town Planning and Estates Services - Blantyre City Council - Malawi

Xi Chen / Dean of Smart City College and Chief Architect of Smart City Planning - ZTE - Beijing - China



“Different levels of governance have to cooperate to achieve good urban development.”

Paulius Kulikauskas

Thematic Sessions

Sustainability

The Art of Placemaking: Inclusive Public Spaces and Green Areas

14/11/2017 14:00-15:00

MODERATOR

Manuel Ruisánchez Capelastegui / Board of Directors - COAC - Barcelona - Spain

SPEAKERS

Michelle Holland / Councillor - City of Toronto - Canada
Mauricio Vila Dosal / Municipal President - City Hall of Merida - Mexico
Elsa Díaz Castro / Urban Manager Director - Ciudad Creativa Digital Guadalajara - Guadalajara - Mexico



“Security is the most important element to open an inclusive public space.”

Elsa Díaz Castro

Affordable Housing and Sustainable Living

14/11/2017 16:20-17:20

MODERATOR

Bessy Kong / Former Deputy Assistant Secretary, Housing and Urban Development - Wilson Center - Washington DC - USA

SPEAKERS

Alejandro Lopez-Lamia / Specialist Leader - Inter-American Development Bank - Washington DC - USA
Bojan Schnabl / Task-Leader Communication, Smarter Together project - City of Vienna - Austria
Pascual Berrone / Academic Co-Director of the IESE Cities in Motion Strategies platform, Professor of Strategic Management - IESE Business School - Madrid - Spain
Maria Sisternas Tusell / Co-Founder and CEO - Mediaurban - Barcelona - Spain



“Social housing is the main issue for social integration and social stability.”

Bojan Schnabl

Thematic Sessions

Sustainability

Cities Standing up to Climate Change

15/11/2017 13:00-14:00

MODERATOR

Arnau Queralt Bassa / Director - Advisory Council for the Sustainable Development of Catalonia - Barcelona - Spain

SPEAKERS

Yasuharu Shimoda / Director General - City of Yokohama - Japan

Lada Strelnikova / Director Deutsche Asset Management - Investment Adviser European Energy Efficiency Fund - Frankfurt - Germany

Jean-Marc Boursier / Deputy CEO for Recycling and Recovery Europe - Suez - Paris - France

Scott McCarley / Senior Director of Smart City Solutions - PTC - Needham - USA

Abdul Malek / Permanent Secretary, Local Government Division - Government of Bangladesh



“There is no relevant climate change project without political support.”

Lada Strelnikova

Improving Performance with Retrofitting and Intelligent Building Systems

15/11/2017 14:15-15:15

MODERATOR

Eddie Bet-Hazavdi / Director of Department of Energy Conservation and Smart Cities Administration - Government of Israel - Jerusalem - Israel

SPEAKERS

Vanessa Miranville / Mayor and Vice President - La Possession (TCO) - France

Jutta Wolff / Department of Smart City and Innovation - Free and Hanseatic City of Hamburg - Germany

Eduardo Cembrano Burgos / Project Manager - CIRCE Foundation - Zaragoza - Spain

Sam Weaver / Member of Boulder City Council - USA

Bruce E. Johnson / Director, Technical Strategy - Microsoft - Seattle - USA



“A truly smart city needs a holistic policy approach towards sustainability.”

Eddie Bet-Hazavdi

Thematic Sessions

Sustainability

Cities Adapting to a More Extreme Climate

16/11/2017 10:00-11:00

MODERATOR

Dan Lewis / Chief of Urban Risk Reduction Unit - UN-Habitat - Vancouver - Canada

SPEAKERS

Christin Kristoffersen / Former Mayor of Longyearbyen and Arctic Resilient Cities Network Adviser - UN-Habitat - Oslo - Norway

Mohamed El Harti / Third Deputy Mayor - City of Fez - Morocco

Firmino Filho / Prefeito - Prefeitura de Teresina - Brazil

Luce Ponsar / Climate Plan Project Manager - Métropole de Lyon - France



“Resilience is all about people.”

Christin Kristoffersen

Sustainable and Energy-Efficient Urban Strategies

16/11/2017 11:45-12:45

MODERATOR

Luigi Carafa / Executive Director - Climate Infrastructure Partnership - Barcelona - Spain

SPEAKERS

Francisco Manuel de la Torre Prados / Mayor - Málaga City Council - Spain

Amit Pathare / Group Director of New Solutions, Director of the Key Program for Cities - ENGIE - Paris - France

Yousef Baselaib / Executive Director of Sustainable Real Estate - Masdar City - UAE

Annie Cheenne / Smart Grid and E-mobility Director - Nexans - Paris - France

Ignacio Martín Cerón / Industrial Solutions Director - FCC - Madrid - Spain



“Energy solutions should be closer to the customer.”

Amit Pathare

Thematic Sessions

Sustainability

Energy and Environmental Solutions for More Sustainable Cities

16/11/2017 13:00-14:00

MODERATOR

Maíta Fernández Armesto / Project Coordinator at Mobility and Infrastructures - Barcelona City Council - Spain

SPEAKERS

Tomas Llorente Aguado / Architect, Tech Coordinator - Collado Villalba Town Council - Spain

Nadine Kuhla von Bergmann / Senior Researcher and Lecturer - CHORA Conscious City, TU Berlin - Germany

Digu Aruchamy - International Business Developer - Ctrl4 Enviro - Barcelona - Spain

Janis Gummersbach / Project Manager Energy Technologies - Berlin Partner for Business and Technology GmbH - Berlin - Germany

Gil Lladó Morales / Energy Transition and Climate Change Officer - Barcelona Metropolitan Area (AMB) - Spain

Alex Mateo / Senior Key Account Manager Smart Cities - Libelium - Zaragoza - Spain



“We already have the infrastructure and the technology. Now we need to know what citizens’ needs are.”

Nadine Kuhla von Bergmann

Thematic Sessions

Circular Economy

New Economies Changing Cities and Regions

14/11/2017 10:15-11:15

MODERATOR

Julia Vol / Portfolio Manager - Ellen MacArthur Foundation - Isle of Wight - UK

SPEAKERS

Mireia Cañellas Grifoll / Head of the Sustainable Development Unit - Directorate-General for Environmental Policy and Natural Resources, Ministry of Territory and Sustainability of Catalonia - Barcelona - Spain

Alessandro Dacomo / Project Manager - Interreg CircE EU Project - Lombardia - Italy

Sladjana Mijatović / Circular Innovation Officer - City of Amsterdam - Netherlands

James Pennington / Project Specialist Circular Economy, China/Africa Lead - World Economic Forum - Geneva - Switzerland



“Circular economy is about a system change.”

Sladjana Mijatović

Towards a Circular Economy: Catalyzing Action

14/11/2017 11:30-12:30

MODERATOR

Burcu Tunçer / Team Leader, Networking and Partnerships - Regional Activity Centre for Sustainable Consumption and Production (UN Environment/Mediterranean Action Plan) - Barcelona - Spain

SPEAKERS

Oleg Sadov / Senior Engineer - ITMO University - Saint Petersburg - Russia

Eduard Barcons Comellas / Managing Director - Association for Rural Development of Central Catalonia - Puig-reig - Spain

Eduardo Fernández Giménez / Innovation Director - Urbaser - Madrid - Spain

Elena Ruiz / Project Manager - Foretica - Madrid - Spain

Jordi Oliver-Solà / CEO - Inèdit - Barcelona - Spain



“One of the economic challenges for circular economies will be effectively synchronizing market regulations with new technological solutions.”

Oleg Sadov

Thematic Sessions

Circular Economy

Building Efficient Circular Urban Systems

14/11/2017 14:00-15:00

MODERATOR

Luca Volpi / Architect - Societat Orgànica - Barcelona - Spain

SPEAKERS

Francisco Cuenca Rodríguez / Mayor - Granada City Council - Spain

Ignacio Gastón / Managing Director - Ferrovial Services Spain - Madrid - Spain

Veronica Kuchinow / Founder and CEO - Simbiosy - Barcelona - Spain

Mario Serrano / Industrial Engineer - Consorci Zona Franca - Barcelona - Spain



“Symbiotic collaboration rarely appears spontaneously. A proactive promoter is essential to make things happen.”

Mario Serrano

Circularity in the City: Opportunities and Challenges

14/11/2017 16:20-17:20

MODERATOR

Maria Colantoni / Deputy Director - Eco Intelligent Growth - Barcelona - Spain

SPEAKERS

Matthew Fraser / Senior Project Manager - Circle Economy - Amsterdam - Netherlands

Oihana Blanco Mendizábal / Project Manager Circular Economy - Innobasque, Basque Innovation Agency - Zamudio - Spain

Bruno Hervet / Executive Vice President Smart and Resourceful Cities - SUEZ - La Defense - France



“Innovation is much more than technology; it is about new business models for resourceful cities.”

Bruno Hervet

Thematic Sessions

Society

Co-production in Action: Towards more Equitable Cities

14/11/2017 14:00-15:00

MODERATOR

Octavi de la Varga / Secretary General - Metropolis - Barcelona - Spain

SPEAKERS

Elkin Velasquez / Director of the Regional Office for the Caribbean and Latin America - UN-Habitat - Rio de Janeiro - Brazil

Luciano Rezende / Mayor - City of Vitória - Brazil

Yoshihide Sekimoto / Associate Professor - University of Tokyo - Tokyo - Japan

Marc Darder / Chief of Unit in charge of the Action in the Urban Habitat Unit - Regional Ministry of Territory and Sustainability of Catalonia - Barcelona - Spain

Karin Markvica / Scientist - AIT Austrian Institute of Technology - Vienna - Austria



“Cities should know, value and foster community involvement in decision making.”

Elkin Velasquez

Solutions to Co-Create Inclusive and Equitable Cities

14/11/2017 14:00-15:00

MODERATOR

Nicky Keefe / Associate Publisher - ViewPoints Media - Barcelona - Spain

SPEAKERS

Jessica Christiansen-Franks / Co-Founder and CEO - Neighbourlytics - Melbourne - Australia

Jordi Puy / COO - Sound Diplomacy - Barcelona - Spain

Eckhart Hertzsch / CEO - Joanes Stiftung - Berlin - Germany

Philipp Bouteiller / CEO - Tegel Projekt - Berlin - Germany

Miguel Ángel Menéndez del Fueyo / CEO - COMAMSA - Madrid - Spain

Eyal Feder-Levy / CEO and Co-Founder - ZenCity - Tel-Aviv - Israel



“People give complexity to cities and are the key issue for management.”

Eyal Feder-Levy

Thematic Sessions

Society

Advancing the Health and Wellbeing of People in Cities

14/11/2017 16:20-17:20

MODERATOR

Davide Malmusi / Director of Health Services - Barcelona City Council - Spain

SPEAKERS

Christine Kendrick / Air Quality Lead and Smart Cities Project Manager - Bureau of Planning and Sustainability - City of Portland - USA

Hoffman Lantum / CEO - MicroClinic Technologies - Nairobi - Kenya

Krishnamurthy Gowda / Chairman - Karnataka Urban Infrastructure Finance Corporation - Bengaluru - India

Luis Suárez Zarcos / Director, Head of Human Resources - FCC Environment - Madrid - Spain



“e-Medicine can really make a difference in people’s lives.”

Hoffman Lantum

Fostering Open Innovation through Living Labs

15/11/2017 13:00-14:00

MODERATOR

Manu Fernandez / Senior Consultant - Anteverti - Barcelona - Spain

SPEAKERS

Jeff Merritt / Director of Innovation - City of New York - USA

Gilbert Saboya Sunyé / Minister of Economy, Competitiveness and Innovation - Andorra

Maria Ådahl / Director of the Open Arena-Urban Development - Johanneberg Science Park - Gothenburg - Sweden

Regiane Relva Romano / Professor and CEO - Smart Campus FACENS - Sorocaba - Brazil

Sapan Shah / Enterprise Partnerships - Mastercard - London - UK



“City Labs are a strong tool for understanding people, their real needs and behavior, thus helping governments to make better decisions.”

Jeff Merritt

Thematic Sessions

Society

Age and Child-friendly Cities and Communities

15/11/2017 14:15-15:15

MODERATOR

Josep M. Coll / Associate Professor and Program Director - EADA Business School - Barcelona - Spain

SPEAKERS

Erion Veliaj / Mayor - City of Tirana - Albania

Masashi Mori / Mayor - City of Toyama - Japan

Joseph Runzo-Inada / Chief Resilience Officer - City of Toyama - Japan

Albert Isern / CEO - Bismart - Barcelona - Spain

Alberto Sanfeliu / Full Professor and Head of Mobile Robotics and Intelligent Systems - Institut de Robòtica i Informàtica Industrial (CSIC-UPC) - Barcelona - Spain



“Robots accompanying humans is one of the core capacities every service robot deployed in urban settings should have.”

Alberto Sanfeliu

Cities Welcoming Diversity and Managing Migratory Flows

15/11/2017 15:30-16:30

MODERATOR

Allison Garland / Program Associate - Urban Sustainability Laboratory - Wilson Center - Washington DC - USA

SPEAKERS

Kilian Kleinschmidt / Founder and CEO - Innovation and Planning Agency - Vienna - Austria

Ramon Sanahuja Velez / Director of Migrants Attention and Hosting - Barcelona City Council - Spain

Dionysia Lambiri / Project Coordinator of Athens Coordination Centre for Migrant and Refugee Issues - City of Athens - Greece

Eunice Rendón Cárdenas / Expert in Prevention, Migrations and Security - Agenda Migrante e Instituto Tecnológico y de Estudios Superiores de Monterrey - Mexico City - Mexico



“Urban planning has a key role in the management of migratory flows and integration.”

Kilian Kleinschmidt

Thematic Sessions

Society

Developing Inclusive Urban Environments

16/11/2017 14:10-15:10

MODERATOR

Cristina Garrido / Senior Consultant - Anteverti - Barcelona - Spain

SPEAKERS

Alberto José Rodríguez Saá / Governor - Gobierno de la Provincia de San Luis - Argentina

Josep Esteba Garcia-Valdecasas / Founder and CEO - Mapp4All - Barcelona - Spain

Kenny Cayama Javier / Managing Director of Metropolitan Projects - Alcaldía Metropolitana de Caracas/Instituto Metropolitano de Urbanismo Taller Caracas - Venezuela

Vasyl Kryvonos / COO - Unit - Kiev - Ukraine

Jorge Abrahão / General Coordinator - Sustainable Cities Program (SCP) - Sao Paulo - Brazil



“Collaborative platforms can help achieve more inclusive urban environments.”

Josep Esteba Garcia-Valdecasas

Thematic Sessions

Data & Technology

Common Standards Boosting the Digital Transformation of Cities

14/11/2017 11:30-12:30

MODERATOR

Martin Brynskov / Chair - Open and Agile Smart Cities - Brussels - Belgium

SPEAKERS

Gema Igual Ortiz / Mayor - Santander City Council - Spain
David Boswarthick / Director CSC - ETSI - Sophia Antipolis - France

Sokwoo Rhee / Associate Director of Cyber-Physical Program - National Institute of Standards and Technology - Gaithersburg - USA

Thilo Zelt / Partner-Roland Berger - Berlin - Germany

Juan José Hierro / CTO - FIWARE - Madrid - Spain



“The problem is not the lack of standards, but the adoption of standards.”

Sokwoo Rhee

Rethinking Urban Infrastructures in the Digital Age

14/11/2017 12:45-13:45

MODERATOR

Ellis Juan / Former Director of the Emerging and Sustainable Cities Initiative - IDB - Bethesda - USA

SPEAKERS

Jonas Donizette Ferreira / Mayor - City of Campinas - Brazil

Uwe Jasnoch / Director of Government, Transportation, and Defense - Hexagon Safety and Infrastructure - Ismaning - USA

Burak Aydin / EMEA General Manager - Silver Spring Networks - Istanbul - Turkey

Ben Nduva / Head of Energy and Infrastructure - Ordnance Survey - Southampton - UK

Oscar Pallarols / Innovation and Product Strategy Director - Cellnex Telecom - Barcelona - Spain



“Digital disruption is changing how we are thinking and how we are behaving.”

Burak Aydin

Thematic Sessions

Data & Technology

Trends and Opportunities in Smart City Development

15/11/2017 10:15-11:15

MODERATOR

Ellis Juan / Former Director of the Emerging and Sustainable Cities Initiative - IDB - Bethesda - USA

SPEAKERS

Jarmo Eskelinen / Chief Innovation and Technology Officer - Future Cities Catapult - London - UK

Mustafa Eruyar / Smart City Coordinator - ISBAK - Istanbul - Turkey

Rajat Bansal / Municipal Commissioner and Managing Director - Raipur Municipal Corporation - India

Jung Hoon(John)Lee / Associate Dean, Professor of Technology and Innovation Management - Yonsei University - Seoul - South Korea

Brian McGuigan / Sales Director Europe, Smart City Solutions - Silver Spring Networks - Edinburgh - UK



“Cities that have the most opportunities to grow as a smart city are those that can handle the speed at which technology grows.”

Jarmo Eskelinen

Data & Tech Solutions to Urban Challenges

15/11/2017 13:00-14:00

MODERATOR

Ton van't Noordende / Partner - StartupDelta, Keadyn and Angel Island - Amsterdam - Netherlands

SPEAKERS

Ignasi Vilajosana / CEO and Co-Founder - WorldSensing - Barcelona - Spain

Jean-Marc Lazard / CEO - OpenDataSoft - Paris - France

Pep Salas Prat / Founder - SmartGrid.cat - Molins de Rei - Spain

Paul Egan / Vice President Business Development - 8power Limited - Cambridge - UK

Greg Curtin / CEO - CivicConnect - Los Angeles - USA

Pep Lluís de la Rosa / Professor - Tecnio Centre Easy Innova (UDG) - Girona - Spain

Marek Bańczyk / CEO - Cityglobe - New York - USA



“When handling complex ecosystems, such as smart cities, the responsive concept is crucial.”

Ignasi Vilajosana

Thematic Sessions

Data & Technology

Beyond the Smart City: Democratizing Innovation While Putting Citizens First

15/11/2017 14:15-15:15

MODERATOR

Geoff Mulgan / CEO - Nesta - London - UK

SPEAKERS

Christian Rickerts / State Secretary - Senate Department for Economics, Energy and Public Enterprise - Berlin City Council - Germany

Paola Pisano / Deputy Mayor - City of Turin - Italy

Francesca Bria / Chief Technology and Digital Innovation Officer - Barcelona City Council - Spain

Jeff Merritt / Director of Innovation - City of New York - USA

Andrey Belozеров / Strategy and Innovations Adviser to CIO - Department of IT, Moscow Government - Russia



“We need a social pact on data, which is basically redistributing data production and making sure that the data can be used for communal use.”

Francesca Bria

IoT & Data Enabling the Next Generation of Urban Services

15/11/2017 15:30-16:30

MODERATOR

Sergi Figuerola / Chief Technology and Innovation Officer - i2CAT Foundation - Barcelona - Spain

SPEAKERS

David Graham / Deputy Chief Operating Officer - City of San Diego - USA

Trudy Norris-Grey / Managing Director, Microsoft CityNext - Microsoft - Redmond - USA

Nicola Villa / Senior Vice President, Government and Development - Mastercard - London - UK

Loïc Bar / CEO - Opinum - Mont-Saint-Guibert - Belgium

Jose Luis Mate / CTO, Public IT Services - NEC - Madrid - Spain



“Today we think that IoT might be dangerous, but tomorrow it will be the new normal.”

Loïc Bar

Thematic Sessions

Data & Technology

Disruptive Mindsets Transforming Cities

15/11/2017 17:15-18:15

MODERATOR

Rosa María Martín Santiago / IT Technical Director - Universitat Politècnica de Catalunya - Barcelona - Spain

SPEAKERS

Hiroyuki Suzuki / Executive Vice President, Representative Director - Advanced Telecommunications Research Institute International (ATR) - Kyoto - Japan

Adam Mowlam / Manager of the Smart City Office - Wyndham City Council - Australia

François Sonnet / Co-Founder - ElectriCChain - Andorra

Manu Monasterio / Artificial Intelligence Marketing Professor - ESADE - Barcelona - Spain

Evgeni Borisov / CEO - VIMANA - Moscow - Russia



“The use of holographic visualization can really change the way government can engage and communicate with citizens.”

Adam Mowlam

Leveraging the Power of Open Data to Improve City Services

16/11/2017 13:00-14:00

MODERATOR

Carl Piva / Vice President of Strategic Programs - TM Forum - Stockholm - Sweden

SPEAKERS

Wolfgang Volz / Software Innovations - Bosch - Barcelona - Spain

Delphine Woussen / Head of Smart Territories - Orange Business Services - Paris - France

Mickaël Suchanek / Director of Commercial Development - Bouygues Energies and Services - Montigny-Le-Bretonneux - France

Denis Hameau / Metropolitan Councilor, Delegate for Education and Innovation - Dijon Métropole - France

Carmen Munoz-Dormoy / CEO - Citelum - Paris - France

Wolfgang Glock / IT-Strategist, Smart City and E-/Open-Government - City of Munich - Germany



“Data is a shared resource which needs public leadership.”

Denis Hameau

Thematic Sessions

Data & Technology

Digital Fabrication: Transforming Citizens from Consumers to Producers

16/11/2017 14:10-15:10

MODERATOR

Mara Balestrini / CEO - Ideas for Change - Barcelona - Spain

SPEAKERS

Annibale D'Elia / Director - Urban Economy and Innovation Unit - Milan Municipality - Italy

Vickery Bowles / City Librarian - Toronto Public Library - Toronto - Canada

Tomás Díez / Founder - Fab Lab Barcelona, IAAC - Barcelona - Spain



“Access to information and the pathways to learning are the great equalizers of the 21st century.”

Vickery Bowles

City as a Platform: A Collaborative Framework to Drive Sustainability, Inclusivity and Innovation

16/11/2017 16:20-17:05

MODERATOR

Carl Piva / Vice President of Strategic Programs - TM Forum - Stockholm - Sweden

SPEAKERS

Andrew Collinge / Smart City Lead and Assistant Director, Intelligence and Analysis - Greater London Authority - UK

Thomas Kruse / Senior Policy Maker, CIO Office - City of Utrecht - Netherlands

Martin Brynskov / Chair - Open and Agile Smart Cities - Brussels - Belgium



“We need to make sure there is a collaborative framework in which we start to bring together the demands of the public sector and the tech sector.”

Andrew Collinge



16.

Sharing Experiences



Trudy Norris-Grey

Managing Director, Microsoft CityNext

“It’s so impressive, our partners are all on fire and our customers are queuing up at the door”

Ralf Nejedl

**Senior Vice President B2B Europe,
Deutsche Telekom**

“It’s the place to find ways together with cities to accelerate the deployment of smart city projects.”

Bettina Warburg

**Co-Founder and Managing Partner,
Animal Ventures**

“It’s really exciting to see all the products that people have brought to the Smart City Expo World Congress and what they are experimenting on in different cities.”

Gilles Babinet

**Digital Champion representing
France at EU**

“I’m very impressed by the size and the quality of the Smart City Expo World Congress.”

Hany Fam

**Executive VP of Enterprise Partnerships,
Mastercard**

“The Smart City Expo World Congress is a very great venue for bringing together technology business leaders with cities from around the world. It’s also a platform to drive dialogue around the use of technology to help cities think about their right way forward.”

Robert Ylitalo

**Head of Business Engineering North,
CGI**

“Smart City Expo World Congress is a wonderful opportunity to meet customers and colleagues to see what’s the latest in the area of smart cities.”

Albert Isern

CEO, Bismart

“Bismart is a company focused on smart cities and this is the best showroom for our worldwide expansion.”

Beth Noveck

**Founder and Director,
The Governance Lab**

“Citizens are engaging in very sophisticated forms, so I think this conversation is more urgent and more important, and that’s evidenced by how this conference has grown”

Eboni Ellis

Content Creator, Citibeats

“At Smart City Expo World Congress there’s a lot of innovative and amazing people who are trying to improve communities and the world and this is an incredible thing to see.”

Liina Ilves

Marketing Manager, Click & Grow

“We didn’t even anticipate this level of interest; we had the chance to get a lot of great business contacts so we see this event is very beneficial in what we came to do here.”

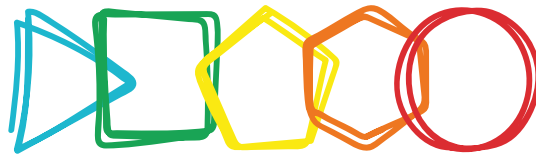


**See you at the next
edition
13-15 November 2018**

Watch all the sessions on
our YouTube channel
and website.

www.smartcityexpo.com





Global Partners



Hosted by



Organized by



Supporting Institutions



Event Partners

