smart city expo
ISTANBUL

SMART CITY EXPO ISTANBUL 2016
Congress Report

Cities in motion

Smart City Expo Istanbul aimed to explore how innovative cities can transform the World to build a more sustainable future. Smart technologies and strategies to pursue better urban planning, mobility, energy and local policies were showcased stressing the importance of the connected society, in an event that took place from the **1st to the 3rd of June in the Haliç Kongre Merkezi.**

The Congress and the Expo were designed to put smart technologies in the spotlight of current urbanization process in the world and with a particular outlook at how this process is impacting Turkey and how the country faces digital transformation as a driver for smarter and more sustainable cities.

The main goal was highlighting actionable ideas that can move our cities move towards new urban development paths, and a strong focus was set to work **the future of mobility as one of the backbones** that can unleash the potential of urban innovation to lead to better cities.

What did we talk about in Istanbul?

The **program** was organized around **six main topics** (mobility, innovation and technology, energy and sustainable urban development, smart society, entrepreneurship and economic development and big data and urban management) and was organized with three different session formats: keynotes, plenary sessions and parallel session.

TRACK 1. MOBILITY

Accessibility, Sustainable Mobility, Public Space, Public Transport, Infrastructure and Logistics, Urban Space Quality, Green and Open Spaces, Alternative transportation, Urban design, Autonomous vehicles, Electric mobility, mobility as a service and the sharing economy.

TRACK 2. INNOVATION & TECHNOLOGY

Technological Innovation, Internet of Things, Knowledge and Innovation Management, Talent & Knowledge, Innovative &Technological Tourism, Big Data, Open Data, Civic tech.

TRACK 3. ENERGY AND SUSTAINABLE URBAN DEVELOPMENT

Efficient Urban Services, Renewable Energies, Energy sufficiency, Climate Change, Pollution, Urban design, Housing, Green urbanism.

TRACK 4. SMART SOCIETY

Civic Engagement, Public Space , Participation, Public Services, Co-city, Community, Collaborative Economy, Welfare & Quality of Life, Civic engagement.

TRACK 5. ENTREPRENEURSHIP & ECONOMIC DEVELOPMENT

Startups and Entrepreneurship, Innovative and Disruptive Business, Entrepreneurship Opportunities and Challenges, Sustainable Social Development.

TRACK 6. BIG DATA & URBAN MANAGEMENT

Big Data / Open Data / Quantitative urbanism / Visualization / Data management / Data-driven innovation / Intelligence and algorithms / Data analytics / Real-time city

Opening ceremony

The event was inaugurated with high personalities that gathered to show their commitment for building a more sustainable future and liveable cities and also to show the strong collaboration of Turkey and Spain in building stronger links, with this Smart City Expo representing one of these connections of national friendship. This co-operation took shape in this case in the support given by Turkish authorities and Spanish prominent international ambassadors that addressed the audience with some first remarks to launch the event.

This ceremony counted on the interventions from **Kadir Topbaş (Mayor of Istanbul), Jose Luís Rodríguez Zapatero (Former Prime Minister of Spain), Aisa Kirabo Kacyira (Deputy Executive Director of UN Habitat)**, Mehmet Özçelik (Vice President of TOKI) and **Ricard Zapatero (International Business Director from Fira Barcelona).** All these names represent the shared effort from both countries that led to the organization of the Smart City Expo in Istanbul, the commitment of the Istanbul municipality to hold it and the implication of different sponsors and international institutions to build a dialogue on the future of urbanization.

As **Jose Luís Rodríguez Zapatero** remarked, in a speech that expressed a warm congratulation to the Turkish institutions to be part of the global agenda on the future of cities, Istanbul is the perfect city to talk about cities if cities are about history and geography. This city is not only a place of history shaped by its particular geography, it is also a bridge between civilizations and cultures. As an innovative city, Istanbul represents the power of cities and their capacity to attract talent, inspiration and creativity. **Smart cities are cities for peace, cities for tolerance and cities for diversity, values well represented by Istanbul.**

Smart cities represent an opportunity for more transparent governance and citizen engagement in public issues and they can lead to broaden citizens rights and freedoms. **Smart cities mean innovation, creativity, wealth and, at the end of the day, better public services for all and new opportunities for job creation and economic growth.** Thus, technology is a change maker in our world and the question is whether we will be able to turn its potential into something that leads to conviviality, understanding and solidarity in our cities, in our nations and in a world that needs to build new alliances of cultural values and principles.

Highlights

Keynotes

KEYNOTE 1

Anthony Townsend, Senior Research Fellow, Rudy Center for Transportation and Policy Management, NYU.

Smart Urban Mobility: 5 years on: What Have We Learned?

The first keynote of the congress was addressed by **Anthony Townsend**, a USA scholar and researcher who has a strong background on analyzing the future paths of digital technologies and their impact in urban life. Worldwide known for his acclaimed book, **Smart cities. Big data, civic hackers and the quest for new utopia**, Mr. Townsend shared his views and recent research projects on the future for urban transportation and the role of smart city technologies.

In the 19th century, the telegraph and railroad worked together to enable industrial-scale cities. In the 20th century, wireless technology reshaped cities as radio, television, and mobile phones allowed us to spread out into metropolitan regions of unprecedented size. Today, digital technologies of coordination are allowing us to reshape how we choreograph life in cities - making them more synchronized, sharable, and serviced than ever. **Transportation was the first sector of urban life many cities can now call truly 'smart'**. But what have we learned from the last decade of innovation in smart urban mobility? What is to come? And more importantly, what does the record so far tell us about the future of cities and information technology?

This progress on smart city focus and implementation can be tracked from the first edition of Smart City Expo World Congress, held in Barcelona in 2011 to the present edition to be held in November 2016. **The movement has matured** in two main directions: things are more complicated than expected and more factors have to be added to understand the complexities of making smart cities real, and citizens are key to shape smart cities in a meaningful way for people to make sense in their everyday life. As such, transport and mobility experiments have been the key factor unlocking the smart cities inclusive power.

Transport and communication innovations have come together in the successive waves of technological progress, from railways and telegraph to roads and radios in the years of private car expansion. Connected mobility ecosystem is a broad number of sectors, solutions, Startups, from on-demand mobility to mobile ticketing, from self

driving cars to traffic flow management, from street level information to beacons for proximity.

We are in a process of **reprogramming mobility**. This affects not only to driverless cars, but also to other sorts of vehicles that will presumably diversify the mix of mobility modes, new kinds of connected infrastructures, market disruptions (represented by Uber and mechanisms such as price surging, individual and social preferences (sharing consumption patterns), places and urban design, etc.

Mr. Townsend used this particular analysis on mobility and transportation in the future city to illustrate the current situation in the development of the smart city, that it is just planting its seeds.

KEYNOTE 2

PHILIPP RODE, Executive Director and Senior Research Fellow from LSE Cities

Cities, Transport and Accessibility: Towards New Urban Mobility

The second keynote speech off the congress was addressed by **Philipp Rode**, Executive Director and Senior Research Fellow from LSE Cities, one of the most robust research institutions related to contemporary cities. His presentation focused on one central aspect of the development of cities: the **nexus of transport and urban form** and how the two shape the provision of access to people, goods and services, and information in cities. The more efficient this access, the greater the economic benefits through economies of scale, agglomeration effects and networking advantages. The presentation discussed how different urban accessibility pathways and their transport technologies impact directly on other measures of human development and environmental sustainability. It also presents the enabling conditions for increasing accessibility and sustainable mobility in cities and discusses the trend towards new urban mobility with considerable increases in walking, cycling, public and shared transport, alongside reductions in car use and ownership.

He remarked the importance of urban form and how dealing with it we can reach what we want, accessibility, Tech from industrial revolution and successive waves of tech innovation led to transformation of urban form (expansion): first industrial revolution (London), steam and railways, electricity and vertical elevators (Manhattan), oil and automobile (urban sprawl). Energy consumption and climate emissions are directly linked to urban form and reinforce with different implications in terms of space

consumption (the less pollutant modes are the less demanding spaces). This is why London is successful: concentration of people in the urban core for employment and, though quite disperse in terms of where people live, there is a powerful public transport system that avoids millions of cars commuting.

Regarding how to anticipate **transport futures**, Mr. Rode stated that car projections have been always designed as linear and ministries and other institutions fail to anticipate disruptions that change the transport modes balance: urban cycling trends are growing in mostly every city in Western cities. We need to accept we simply do not know what is happening in the future, but at least we can check some trends. These trends refer to the explosion of urban population and explosion of urban land use and the car as a technology that no longer can meet the expectations of the user in a world of fuel shortage.

This opens the chance to think about a **new urban mobility** represented by different factors that accentuate the importance of accessibility as the main goal and aspiration for people living in cities. This leads to imagining a future mobility in which walking, cycling, sharing, electro-mobility and multi-modality will have a larger importance in this mobility shift. To illustrate this, he used recent research on London and Berlin to extract some lessons and patterns about social preferences related to urban mobility. The tipping points of this change are economic reasons, urban change, policy, tech innovations, demographic and lifestyle changes, car ownership attitudes, etc.

Smart Cities: Vision and Leadership in Practice

The congress started after the opening session with a dialogue between mayors and high representatives of different local delegations attending the event. The session was designed to gather the **vision from municipalities coming from different regions of the World**, thus representing different context but a common responsibility of leading the transformation of their cities.

Moderator: Ali Çağatay (News Coordinator Bloomberg HT TV, Turkey)

Speakers

- Pekka Sauri (Deputy Mayor City of Helsinki, Finland)
- István Tarlós (Mayor Municipality of Budapest, Hungary)
- Kadir Topbaş (Mayor Istanbul, Turkey)
- Lakehayli Abdelmalek (Vice Mayor Municipality, Morocco)

They shared with the audience their experience in leading **urban transformation processes** and the particular challenges they face when taking their vision and strategies to actionable ideas. The goal was to highlight the role of municipalities in their respective national institutional frameworks and how they see the growing importance of cities in an urbanized world and how they try to cope with their own local pressures (population change, climate change, traffic, social services…) and the resources, competencies, budget,… they manage.

Sessions

Plenary sessions

<u>TRACK 1. MOBILITY</u>

PLENARY 1 – Imagining the future of sustainable urban mobility

Liveability and quality of life in cities is increasingly linked to urban mobility. Expanding cities have to cope with the need of integrating urban growth and infrastructures and services capable of providing population with suitable options for moving around in the city. Imagining a sustainable urban future requires connecting the dots of tech innovations around transportation, high standards of green urbanism and the social needs and expectations of inhabitants.

> **Moderator**. Erol Yanar. Head of Strategy Development Department Turkish Ministry of Transportation, Maritime Affairs and Communication Turkey
>
> **Speakers**
>
> - Arif Emecen. General Manager IETT Turkey
> - Yusuf Akçayoğlu. CEO IGA (Istanbul Grand Airport) Turkey
> - Mert Başar. Turk Telekom Turkey

This session started with an agreed vision on the **importance of mobility as a daily phenomenon affecting everyone in the city**. Human factor is crucial in smart cities and mobility closely affects the way people perceive their cities and the convenience they feel form their systems they use everyday such as transportation As such, it mostly gives the first impression about quality of life and this is why it is important to foresee the challenges and sustainability goals the Turkish ministry is trying to accomplish and why pedestrian zones and biking are part of the national strategy and vision of the ministry which is promoting guidelines for municipalities to act on these fields, along with interoperability.

In this framework, the speakers addressed their projects and their vision about future mobility they are trying to implement to make it smarter, with a particular focus on the Turkish reality, from public transportation authorities to IT companies. Mobility is growing in every city, but Istanbul is a particular case of how improving transportation and mobility options can lead to a better quality of life. This not only affects to the quantity (more investments, broader network of public transport,...); i is also about quality of service and shifting modal share. In this sense, technologies and urban innovation play a crucial role to achieve a more efficient transport system in cities and

real-time management appears as a concrete benefit for both managers of public networks and users. From sophistication of buses to mobile applications, his revolution is not only about improving the vehicles and the infrastructure, but about strengthening management skills and the governance of urban mobility. In this sense, transport authorities have to go beyond their role as providers to act as coordinating agencies for different stakeholders related to commuting because the mix of different options make possible for other to act on the system and we, as municipal agency, need to provide a framework for all to benefit users (sharing economy, driverless cars,…).

These changes are occurring thanks to the higher awareness of what happens around and people want information and make sense of it, while users are able to create their own data and adapt their useful information thanks to digital devices and social media. This was exemplified with the presentation about the new airport in Istanbul, which has been designed to be part of an integrated system within the transport network of the city, with connections to high speed rail and metro lines with the city and other airports in the area.

TRACK 2. INNOVATION & TECHNOLOGY

PLENARY 2. The changing role of governments in a digital society

Smart cities imply not only a set of technological innovations to improve our cities. They also point out the need for **new understanding of how cities are governed**, new institutional frameworks and arrangements to deliver public services and a new balance in which local authorities adapt to a digital context in which citizens, civic organisations and private companies can contribute to designing, implementing or financing public authorities action.

Moderator. Pilar Conesa. Curator Smart City Expo World Congress Spain

Speakers

- Antoni Vives. Cofounder The City Transformation Agency Spain
- Selim Karabulut. CIO Istanbul Metropolitan Municipality Turkey
- Erkan Musa Mızrak. Public Sector Sales Director Türk Telekom Turkey

This starting point of the session defined the contribution from the different speakers, who remarked not only the impact of technology in our lives but also in the governance of cities because it is changing traditional relations. Smart cities are not about tech solutions, but a **profound transformation of the role different actors play** in city making. This is the case of city councils.

Designing better cities through digital data can change things and there is a new paradigm on the verge: new arising citizenship, from coworking to uberisarion of services, which mean not only tech by social transformations. Data is meaningful when you use them to transformer social services that impact people's lives and the revolution for councils is that data can be used to transform and personalize our services, budgets,…This approach of using **data**, for example, on how people use public spaces and streets (through cell data) helps councils adapt and be flexible even when dealing with large construction sites in city centre to allow meanwhile uses and low budget transformation while public works are on.

Technology is emerging, growing and becoming more sophisticated and to make it meaningful we need an **integrated approach** and the notion of smart cities help us in so. Because it touches every aspect of life, data is exploding and collecting and reusing the data is also an invitation to give return to the data generated. Smart cities imply building a new sort of governance that makes sense of all of it, an strategic approach to governance, transparency that wants to lead to standardization

Smart citiy movement arrived without noticing it but we are building it every day with the available technologies of connectivity. Connectivity gives life to cities, but we need integration of systems for the different devices, providers, solutions,... **Public sectors** such as energy or mobility will be completely transformed because of the raise of real time management that leads to predictive management and personalization of responses from public services.

TRACK 3. ENERGY AND SUSTAINABLE URBAN DEVELOPMENT

PLENARY 3. Green technologies: what we can expect in the fight against climate change

Cleantech and eco-innovation entail a huge potential to offer solutions in the climate change movement, particularly in what it has to do with achieving mitigation goals in terms of emissions. The session wanted to offer a wide perspective on available projects and technologies related to energy efficiency, renewable energies,… and to

what extent we can rely on these solutions and what other sorts of arrangements (regulations, institutional frameworks, social behaviours,…) can contribute in this field.

Moderator. İsmail YÜKSEK. Rector Yıldız Teknik Üniversitesi Turkey

Speakers

- Richard Miller. Deputy Director for Innovation in Industry InnovateUK United Kingdom
- Yezdan Kanaat. Vice General Manager, Real Estate Development TAHİNCİOĞLU Turkey
- Onur Incehasan. Deputy Manager, IGDAS, Turkey
- Kerem Can Gökkütük. Deputy Manager T. Vakıflar Bankası T.A.O Turkey

The speakers shared their **optimistic view about what we can expect** in the future development of green technologies to build a better energy system that contributes to the global goals against climate change. There are lots of **expectations** out there, literally thousands of innovations that can change the energy sector in the future. These innovations share some features: real benefits have to be provided to users, they have to prove the return on investment and they use a new generation of available technologies. These innovations are using internet of things, data, flexible materials, energy storage systems, control systems, retrofitting or even peer-to-peer energy trading to advance a vast array of green and clean technology providing solution to a our **trilema: providing energy in a green and secure way.**

This scenario presented by Innovate UK, a public organization that has been dealing in the last years with the ecosystem of innovations in the country that has lead them to gain a wide understanding on current trends on energy innovations served as the inspiration to understand the role of other actors in Turkey. This was the case of the real estate companies, which are responsible for the introduction of the best green technologies in their developments. The building sector has a significant impact on the environment and green building (from selection of site to building materials, building techniques, energy sources, materials,…) makes its case when building more efficient and energy-saving buildings leads to reducing costs.

Public energy companies and private financial institutions were also represented in the discussion, sharing their own expectations about the use of digital and automated technologies to improve their performance on the one hand, and their new tools to understand the needs of complex energy investments that require specific financial analysis.

TRACK 4. SMART SOCIETY

PLENARY 4. Social disruptions in the way cities work

The emergence and availability of different forms of **platforms, apps or services** connected to the digital society are transforming the way people live in cities. This implies not only the use of certain social technologies, but also the rise of new social expectations and collective action around social innovation, collaborative cities or commons. The session was aimed at exploring these changes and how local authorities and other urban actors can accommodate to this scenario.

Moderator. Cevat Yaman – Gebze Technical University

Speakers

- Emir Kir. Député bruxellois à la Région de Bruxelles-Capitale Bourgmestre à Saint-Josse-Ten-Noode Belgium
- Arturo Muente-Kuginami. Senior ICT Policy Specialist World Bank United States
- Hakan Akbulut. Deputy General Manager Emlak Konut GYO Turkey

Following this framework, the speakers addressed their insights on the **new trends and expectations citizens are demanding**. Definitions of cities always involve human beings, inhabitants, people and this must be the main preoccupation of city management in a digital world. The big disruption is not that citizens are eager to being heard, but that now they have the means to express themselves thanks to digital tools. The opportunity is that innovation is not happening in labs and corporations; **society has the resources and skills to innovate**. The billion user generated platforms era: facebook, twitter, whatsapp,…people are there having their say, interacting between them.

In this context, the **digital economy** means a new digital market for products and services, citizens as active users and government as a platform, while citizens are capable and willing of telling what they are concerned about and what they demand from their councils. This puts a lot of pressure over budgets, as the demand for new services increases, but also leads to a new understanding of the role of city councils and citizens, with some principles overarching this change: design with the user, open data and open standards, open innovation, etc.

This pressure is perfectly known by city managers and officials: citizens are showing a lot of indignation towards politicians and political system and the context demands

strong measures. They do not want only voters, but active actors of the **democratic process** and is responsibility of local government resuming dialogue between representatives and citizens. **Participative models of governance** are a must nowadays if local governments want to remain as credible institutions. Our democracies face an unprecedented crisis t social, economic and human level. Digital revolution has created a new context in which people are better equipped and more demanding for transparency

TRACK 5. ENTREPRENEURSHIP & ECONOMIC DEVELOPMENT

PLENARY 5. Open innovation in smarter cities

This session was aimed at exploring how cities can **promote local economic eco-systems to make entrepreneurs**, start-ups and civic tech organisations flourish. Urban innovation projects can benefit from new business models, new sorts of relations between public authorities needs to improve their services and the skills and capabilities that local actors can align to improve life in cities.

Moderator. Şeref Oğuz. SABAH Newspaper Turkey

Speakers

- Esteve Almirall. Director Centre for Innovation in Cities Spain
- Muhammed Alyürük. General Manager ISBAK Turkey

Building upon the conversation of the plenary on social disruptions, this session focused on some concepts around the idea of **the city as a lab and as an innovation ecosystem** in which open innovation emerges as a response to growing stress in city management. Until now, cities have been conceptualized as services providers, with resource assignment in a zero sum game. In this sense open innovation for cities means governments become ecosystem managers with resources as a lever in a non zero sum game.

TRACK 6. BIG DATA AND URBAN MANAGEMENT

PLENARY 6. Quantified cities and the challenges ahead

As big data possibilities emerge as a powerful tool to transform urban management, new **challenges** appear in a scenario in which societal, ethical, technical and political issues have to be considered. A new understanding of urban data is opening up new possibilities that will only materialize if used from a wide perspective of these issues.

Moderator. Aybike Ongel, associate professor, Bahcesehir University

Speakers

- **Alissa Chisholm.** Research Consultant Sidewalk Labs United States
- **Ömer Korkut** (Deputy General Manager – STM) - Turkey

As such, this session addressed some profound implications of the emergence of the **quantified city and big data as a driver of urban innovations**. Cities are and have been always been quantified: population, consumption, property records, building lots and permits, vehicle registration,… What is new is that **challenges are becoming more pronounced with the proliferation of technology**. It raises societal, technical, ethical and political challenges. If oil generated the biggest value in the previous century, data arise now as the promise of new benefits, profits and value in the current century. Generation of economic value is based on data today, you can make many things out of it and it makes it the new oil. Data is omnipresent and we are the generators from our smartphones, social media activities,… but finding the right data for cities is more complex. The challenge for big cities is avoiding mistake of adopting somebody else's practices from other cities to our context. Istanbul needs to focus in its own priorities. You need to turn big data into something relevant, structured and meaningful. This is data analytics, that helps companies and cities extract relevance from massive data. It is not just business intelligence as we know it

Parallel sessions

THE FUTURE OF MOBILITY

This session wanted to offer an overview of different technologies that are advancing the future of urban mobility, from connected bikes to driverless cars, but also what are the barriers for building a new balance in transportation modes in cities that make the mobility system more sustainable and accessible.

Moderator   Melih Bulu (Rector - Istinye University) Istanbul - Turkey

Speakers

- Peter Elmlund (Director - Ax:son Johnson Foundation) Stockholm - Sweden
- Judit Batayé (Mobility Expert - Member of OuiShare. Ideas for Change) Paris - France
- Murat Özdemir (President – MMG)- Turkey
- Rutger Reman (President of Industry & Society Ericsson, Region Middle East – Ericsson) Doha - Qatar
- Yunus Emre Ayözen (President - IMM, Department of Transportation) Istambul - Turkey

SUSTAINABLE MOBILITY

This session was particularly connected to the need of implementing public strategies that encourage sustainable mobility systems in our cities. Urban planning will play a crucial role in building denser and mixed-use cities, while a new vision of the need to rebalance the different modes of mobility, in which walking, cycling and public transportation have to gain more attention, is urgent to secure a smarter mobility.

Moderator   Judit Batayé (Mobility Expert - Member of OuiShare. Ideas for Change) Paris - France

Speaker   s

- Projjal Dutta (Director, Sustainability Initiatives - NY Metropolitan Transport Authority)New York - United States
- Kasım Kutlu (General Manager - Metro Istanbul)- Turkey

- Mustafa Gürsoy (Director of Transportation Research Center - Yildiz Technical University)Istambul - Turkey
- ÇAĞRI YÜZBAŞIOĞLU (System Engineer - Oncu Security)- Turkey

TRACK 2. INNOVATION & TECHNOLOGY

BETTER POLICIES THROUGH OPEN DATA

Open data has gained worldwide attention as a driver for private and public innovation. Local governments are opening up their data to anyone (individuals, civic groups, start-ups,..) to favour reusing data from public services to deliver better policies that can impact people´s lives and enhance local economic actors, making the case for open data as a driver of urban innovation.

Moderator   Metin GÜMÜŞ (İstanbul İl Başkanı - TEKDER (Teknik Elemanlar Derneği) Istambul - Turkey

Speakers

- Ingrid Mulder (Associate Professor - TU DELFT) Rotterdam - The Netherlands
- Hanna Niemi-Hugaerts (Development Manager - Forum Virium Helsinki) Helsinki - Finland
- Halim Zaim (Professor - İstanbul Ticaret University) Istanbul - Turkey
- Mehmet Deniz Kaya (Country Manager – BARCO) Istambul - Turkey

URBAN TECHNOLOGIES & LOCAL STARTUP ECOSYSTEMS

Smart cities are connected to different drivers of current technological innovation. From internet of things to big data, smart technologies can be developed at different industrial scales, and local startup ecosystems can find new opportunities for growth and employment generation thanks to the growing demand from cities to implement new connected products and services in urban management.

Moderator   Ramazan Özcan Yıldırım (Head of Department of Institutional Development and Management Systems - Istanbul Metropolitan Municipality)Istambul - Turkey

Speakers

- Katalin Gallyas (CEO & Founder - Civic Tech Amsterdam)Amsterdam - The Netherlands
- Cem Duran (General Assistant Manager Yildiz Teknik Üniversitesi TeknoPark) Turkey
- Özgür Civek (Cisco Turkey IoT Partner Business Manager)- Turkey

TRACK 3. ENERGY AND SUSTAINABLE URBAN DEVELOPMENT

CLIMATE CHANGE MITIGATION STRATEGIES

Cities around the world are taking the leadership in fighting climate change and building a transition towards a fossil-free society. This entails a strong coordination effort in a multi-level governance, but leading the way and setting ambitious emissions reduction goals is also in the hands of cities capable of imagining a sustainable energy future.

Moderator   Tamer Yılmaz (Rector - Hasan Kalyoncu University) - Turkey

Speakers

- Júlia López (Regional Director for Europe - C40 Cities Climate Leadership Group) Madrid - Spain
- Fahrettin Soran (General Manager – ISTAÇ) Istanbul - Turkey
- Mehmet Gür (Board Member & CEO - Ortadoğu Energy) Istanbul - Turkey
- Andaç Yakut (Green Energy & Environment Section Coordinator - Daikin Turkey) Istanbul - Turkey

GREEN ISTANBUL THROUGH URBAN DESIGN AND NEW DEVELOPMENTS

This session hosted a dialogue of different players in the field of urban projects development and is aimed at discussing design options to build a greener Istanbul in the coming years. The participants shared their views on the challenges for a sustainable urban growth and the kind of projects that will shape the city.

Moderator   Rafet Bozdoğan (Yalova University)- Turkey

Speakers

- Ahmet Şahin (Vice President – TOKI)- Turkey
- İlker Aydın (Vice General Manager, Business Development and Investments – TAHİNCİOĞLU)REAL ESTATE Istambul - Turkey
- Alpay ÇEPNİ (Executive Board Member – VADISTANBUL) Istambul - Turkey

TRACK 4. SMART SOCIETY

LIVEABLE CREATIVE CITIES

A smart society is an invitation to rediscover the beauties of living together. Creativity, improvisation and exploration are common features of urban projects that seek to explore the liveability of our built environment through more engaging participatory processes and projects that converge in public spaces and public life. This way, a new understanding of how collaboration is emerging as the city making of the 21st century.

Moderator   Cristina Garrido (Consultant, Anteverti) - Spain

Speakers

- Osamu Okamura (Program Director - reSITE Festival) Prague - Czech Republic
- Mohamed Jouahri (Casablanca Events& Animation) Casablanca - Morocco
- Jorge Máximo Miguel Vicente de Campos (Deputy Mayor - City Council of Lisbon) Lisbon - Portugal

DIGITAL TOOLS AND CIVIC ENGAGEMENT

Digital tools and the cultural shift towards more open, transparent, personalized and real-time life experience in cities is gaining attention as the main driver of the smart city. This session was aimed at exploring how civic technologies can be used to widen the chances for urban population to take part in shaping their cities and improve their everyday life in cities.

Moderator   Katalin Gallyas (CEO & Founder - Civic Tech Amsterdam)Amsterdam - The Netherlands

Speakers

- Edward Charles Anderson (The World Bank) Washington, USA

- Fatih Dereli (Business Development Manager Belbim) Turkey
- Mohamed Ouriaghli (Brussels City Council) Brussels - Belgium
- Mücella Dogan (Ms.Architect/ Deputy Manager at Directorate of Planning/İstanbul Metropolitan Municipality - İstanbul Metropolitan Municipality) Istambul - Turkey

TRACK 5. ENTREPRENEURSHIP & ECONOMIC DEVELOPMENT

OPEN DATA & ENTREPREUNERSHIP

Open data policies can be promoted for different reasons. The most obvious one seems to be the need to correspond the growing demands for transparency, but this is not the only reason. Opening data is also a strategy that seeks to improve the efficient use of public resources (public data) that can be reused by potential users, developers, start-ups,...to build upon them new products, services, platforms or initiatives that benefit the city.

Moderator   Murat Yildiz (Director of Corporate Strategy – DUNYA)Istambul - Turkey

Speakers

- Tom Symons (Principal Researcher – Nesta) London - England
- Alberto González Paje (Data Scientist – Bestiario)Barcelona - Spain
- Kerem Alkin (Medipol University)- Turkey

SMART CITY STRATEGIES & ECONOMIC DEVELOPMENT

Smart city strategies can imply a substantial improvement in public services efficient delivery and a sounder management of our cities but, at the same time, they can trigger new opportunities for economic growth. Leading cities can showcase the way they are using urban innovation as a driver for local economic development.

Moderator   Fatih Gundogan (Deputy General Manager – isbak)Istambul - Turkey

Speakers

- Pamela Muhlmann (Senior Expert - TINA Vienna, Smart City Vienna Agency) VIenna - Austria
- Pavlo Vugelman (Deputy Mayor - Odessa City) Odessa – Ukraine

TRACK 6. BIG DATA & URBAN MANAGEMENT

THE NEW SCIENCE OF CITIES

Recent progresses in our understanding of urban complexity and computing tools are assembling the current paradigm of science of cities. This session wanted to explore some approaches to urban analysis, complexity studies and big data management that are contribution to give form to new knowledge about how cities work.

Moderator   Sadullah Uzun (CEO & Co-Founder – Verisun) Istambul - Turkey

Speakers

- Çetin Çibuk (Head of Information Technologies Department – İSKİ) Istambul - Turkey
- Güven Fidan (Argedor)- Turkey
- Necmettin Karasu (Business Development Manager - AYATEK TECHNOLOGY) Istambul - Turkey
- Rusen OZKAN (General Manager and Manager of the Board - ANKA IT AND CONSULTING CO) Istambul - Turkey

REAL-TIME CITIES

Smart cities, among other things, bring the possibility of advancing new ways of governing and analysing cities by using platforms base don real-time data management, visualization and exploration. Cities now have the chance to enhance their management tools to anticipate, integrate complex information and react in an adaptive way to the chnging circumstances of urban life.

Moderator   İhsan Taşer (Bilgi Teknolojileri Sektör Kurulu Başkanı – MÜSİAD) - Turkey

Speakers

- Artem Chakirov (Associate Researcher - ETH Zurich / Future Cities Laboratory (FCL) Zurich - Switzerland
- METİN SELÇUK ERCAN (Controls&Automation Technical Manager - ALARKO CARRIER) KOCAELİ - Turkey
- Richard Budden (Business Development Manager, Transportation, Infrastructure and Smart Cities – Esri) Dubai - United Arab Emirates
- Elif Kuralay (solution manager for SCM & Retail – SAP)Istambul - Turkey
- Esat Sönmezer (Business partnerships director - Türk Telekom) - Turkey
- Hasan Çelikdelen (CIO – IETT) - Turkey