

# 5. LJUBLJANA FORUM



[WWW.LJUBLJANAFORUM.ORG](http://WWW.LJUBLJANAFORUM.ORG)

FUTURE OF **CITIES**

**SUSTAINABLE – SMART – INCLUSIVE**

**SMART CITY**

# EMPOWERING CITIES & PEOPLE



Synthesis Report

**Conference**

October 8<sup>th</sup>, 9<sup>th</sup> 2015 • Ljubljana Castle, Slovenia



Ljubljana is the political, administrative, cultural and economic centre of Slovenia and is home to over 280,000 inhabitants. Ljubljana impressed the Jury by the significant transformation which has been made by the city in sustainability over the previous 10 - 15 years. This transformation has been achieved in areas including local transport and the pedestrianizing of the city centre.

From being a city which was previously dominated by car transport the focus is now on public transport and on pedestrian and cycling networks. The most significant measure that has been taken has been the modification of the traffic regime on the main traffic artery (Slovenska Street).

Progress has also been made in preserving and protecting the green areas which characterise the city and in the revitalisation and transformation of brownfield spaces.

Ljubljana has also demonstrated how they have progressed in terms of the treatment of waste and waste water. They have committed themselves to pursuing a zero waste objective.

In addition to this the Jury recognised the example Ljubljana has shown by sharing its experiences and solutions in managing natural disasters. This was demonstrated in recent times by its work with the Balkan Region during the recent flooding crisis.



To learn more about European Green Capital, please visit:

[http://ec.europa.eu/environment/europeangreencapital/index\\_en.htm](http://ec.europa.eu/environment/europeangreencapital/index_en.htm).

Conference



Synthesis report on  
FUTURE OF **CITIES**  
**SUSTAINABLE – SMART – INCLUSIVE**  
**SMART CITY**  
**EMPOWERING**  
**CITIES & PEOPLE**

# Content

<b>6</b>	Shared Leadership Introduction
<b>8</b>	About Ljubljana Forum 2015
<b>10</b>	City Leaders
<b>11</b>	Speakers
<b>13</b>	Moderators
<b>14</b>	About the agenda
<b>16</b>	Official Opening of Ljubljana Forum 2015
<b>18</b>	Empowering / Enabling / Moving forward
<b>20</b>	About the Highlights
<b>24</b>	Ljubljana Forum AWARD Ceremony
<b>30</b>	Networking & Workshops
<b>39</b>	Round table on Digital entrepreneurship & Smart City
<b>40</b>	Conclusions of Ljubljana Forum 2015
<b>42</b>	About the People
<b>46</b>	About the GoForeSight Institute

# Empowering Cities & People through Smart governance



# Shared Leadership Introduction

---

Empowering people was, is and will be the main reason for existence and importance of cities 2000 years ago, today and in the future. Throughout the history, the basic duty of each city is to ensure its undisturbed operation and providing suitable services to its residents in the area of: housing, water, energy and mobility. Besides these vital areas, each city needs to develop and ensure additional important services in the areas such as education, health, economy, safety, etc., which vary depending on the specific characteristics of a city.

Today, cities are faced with rapid change and fast urbanisation. The main purpose of 5<sup>th</sup> Ljubljana Forum was to discuss and identify methods for empowering cities and people to enable them to address city challenges efficiently and properly respond to the needs of people at the same time. The concept of a Smart City was discussed in that respect. This concept has led to the design and development of the Smart City Platform ([www.smartiscity.eu](http://www.smartiscity.eu)), which helps city leaders to manage complex city challenges in cooperation with people.

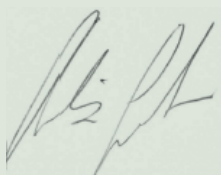
To summarize, 5 key messages of 5<sup>th</sup> Ljubljana Forum are:

1. Slovenian government is committed to support sustainable and smart development of cities and to advocate Urban agenda at the European level,
2. the city of Ljubljana is ready to endorse its European Green capital 2016 title with knowledge sharing and providing a concrete inputs for future development of European cities,
3. ISO 37120, the first global smart city measurement standard, promotes good governance of cities,
4. for the very first time, the Smart Mayor project to respond to smart city needs was presented, and
5. new partnerships, business models, and projects, promised to provide new value creation and bring about the *"Power to the people"*.

You are kindly invited to browse through this report with summaries of lectures, solutions for cities, and the accompanying events. Follow our work at [www.ljubljanaforum.org](http://www.ljubljanaforum.org).

See you at Ljubljana Forum 2016!

**Blaž Golob**  
Chairman of Ljubljana Forum





**Mr Miro Cerar, PhD,**  
Prime Minister, Government  
of the Republic of Slovenia



**Mr Zoran Janković,**  
Mayor of Ljubljana, Slovenia



**Ms Daniela Urschitz,**  
Smart City Vienna, Austria



**Mr Blaž Golob,**  
Chairman, Ljubljana Forum,  
Slovenia



**Mr Miran Gajšek,**  
Co-Chairman, Ljubljana  
Forum - City of Ljubljana,  
Slovenia



**Ms Patricia McCarney, PhD,**  
President and CEO, World  
Council on City Data



**Mr Oliver Rothschild,**  
Chairman, Oliver Rothschild  
Corporate Advisors





# About Ljubljana Forum 2015

## Ljubljana Forum 2015

Future of cities conference, held on 8<sup>th</sup> and 9<sup>th</sup> of October 2015 at Ljubljana Castle, Ljubljana, Slovenia, gathered over 120 participants to exchange the knowledge and discuss the issues, opportunities and ideas for **empowering cities and people**. The participants had the opportunity to network with the aim of cooperation building and creating innovative project ideas and initiatives.

**31 speakers** from governments, cities and municipalities, business, NGOs, institutes, and universities, gave their insights on the key urban development challenges, future development opportunities, and the best smart city development projects aimed at building the empowered cities and people of the future. City leaders learned about the importance of smart measuring, monitoring and managing the performance of the city and shared their experience on smart city development projects.

## Objectives of Ljubljana Forum 2015

**Objective 1:** to present the SMART CITY Concept

**Objective 2:** to present Governance Challenges of Smart Cities

**Objective 3:** to present international smart city monitoring standards

**Objective 4:** to present Industry Solutions for the SMART CITY

**Objective 5:** to connect, learn, bring about new projects and move forward

## Organizers and partners of Ljubljana Forum 2015

- GFS Institute
- City of Ljubljana
- Government of Slovenia
- Danube Region Strategy
- City of Vienna
- World Council of City Data
- Oliver Rothschild Corporate Advisors
- Institute for Electronic Participation
- PriceWaterHouse
- Petrol

- BTC
- SmartIS
- IBM
- Libellium
- UnistarPRO
- Studio12
- Energetika.net

## Participating cities

- City of Ljubljana
- City of Rijeka
- City of Belgrade
- City of Tirana
- City of Ankara
- City of Tbilisi
- City of Vienna





**Mr Miran Gajšek**, Co-Chairman, Ljubljana Forum – City of Ljubljana, Slovenia, **Ms Patricia McCarney**, PhD, President and CEO, World Council on City Data, Canada, **Mr Oliver Rothschild**, Chairman, Oliver Rothschild Corporate Advisors, United Kingdom, **Ms Violeta Bulc**, MSc European Commissioner for Transport, **Mr Zoran Janković**, Mayor of Ljubljana, Slovenia, and **Mr Blaž Golob**, Chairman, Ljubljana Forum, Slovenia

**Ljubljana Forum** is an annual gathering that combines **knowledge and experience** of city governance and defines **key areas, visions and strategies of the future development** of cities.

The aim of Ljubljana Forum is to promote opportunities for future development of cities and metropolitan areas of the South-East European region.

The objective of Ljubljana Forum is to **offer a framework for cooperation, networking and learning among various stakeholders**: political decision-makers, city leaders and city administration, investors, businesses, civil society, researchers, academics and students.

The objective of Ljubljana Forum is to empower this network of stakeholders to create prosperous future of cities through **researching, developing and implementing the best practices of urban development**.

# City Leaders at Ljubljana Forum 2015



Mr Zoran Janković, **Mayor of Ljubljana, Slovenia**



Mr Vojko Obersnel, **Mayor of Rijeka, Croatia**



Mr Milutin Folić, **City Architect of Belgrade, Serbia**



Ms Brunilda Paskali, **Vice Mayor of Tirana, Albania**

# Speakers of Ljubljana Forum 2015



**Mr Blaž Golob**, Chairman,  
Ljubljana Forum, Slovenia



**Mr Julij Božič**, General  
Manager, IBM Slovenia



**Mr Miro Cerar**, PhD, Prime  
Minister, Government of the  
Republic of Slovenia



**Ms Patricia McCarney**,  
PhD, President and CEO, World  
Council on City Data, Canada



**Mr Oliver Rothschild**,  
Chairman, Oliver Rothschild  
Corporate Advisors, United  
Kingdom



**Ms Daniela Urschitz**,  
Smart City Vienna, Austria



**Mr Jan Stureson**,  
International advisor  
RESTING, and former global  
leader of public sector in PwC



**Mr Marko Praprotnik**,  
Services Manager, SmartIS,  
Slovenia



**Mr Gregor Lončar**, Smart  
Cities Solutions, IBM CEE,  
Slovenia



**Mr Miha Valentinčič**,  
Head of Strategic  
Development, Petrol d.d.,  
Slovenia



**Mr Luka Prebil**, Head of  
facility management, BTC d.d.,  
Slovenia



**Mr Alex Mateo**, Industry  
Manager Smart Cities,  
Libellum, Spain



**Ms Ana Seliškar**, Smart  
City Consultant, Cisco  
Systems, Slovenia



**Mr Tihomir Divjak**, GFS  
Institute, Serbia



**Mr Driton Hapçiu**,  
founding and managing  
partner, Cacttus, Kosovo



**Mr Igor Papič**, PhD,  
Professor, Faculty of Electrical  
Engineering, University of  
Ljubljana, Slovenia





**Mr Zlatan Car**, PhD,  
Professor, University of Rijeka,  
Croatia



**Mr Simon Delakorda**,  
MSc, Institute for Electronic  
Participation (INePA), Slovenia



**Ms Milena Vukmirović**,  
PhD, Associate researcher,  
University of Belgrade – Faculty  
of Architecture and Urban  
Laboratory Belgrade, Serbia



**Mr Garry Jacobs**, President,  
Mira International. USA



**Mr Frane Šesnić**,  
Director, Zagreb Development  
Agency, Croatia



**Mr Robert Mulej**, Chief  
Editor, Zlati kamen, SBR d.o.o.,  
Slovenia



**Mr Pablo Collazzo**, PhD,  
Professor, Lauder Business  
School, Vienna, Austria

**Mr Rupert Gole**, Mayor,  
Municipality of Šentrupert



**Ms Ana Struna Bregar**,  
Director, ODP RTE HIŠE SLOVENIJE /  
member of Open House Worldwide,  
Slovenia



**Ms Lenka Kavcic**, Director,  
ODP RTE HIŠE SLOVENIJE / member  
of Open House Worldwide, Slovenia



**Mr Renato Totic**, Smart City &  
IoT Lead, Telecom Croatia



**Mr Milutin Folic**, Director of  
Urban Planning, City of Belgrade,  
Serbia



**Mr Jörg Mirtl**, Project Manager,  
EU Strategy for the Danube Region,  
Priority Area 10 „Institutional  
Capacity and Cooperation“, Urban  
Platform Danube Region, Austria



# Moderators of Ljubljana Forum 2015

---

**Mr Miran Gajšek,**

Co-Chairman, Ljubljana Forum –  
City of Ljubljana, Slovenia



---

**Ms Alenka Žumbar,**

Director, Energetika.net,  
Slovenia



---

**Mr An Krumberger,**

Director, Council One, Slovenia



---

**Ms Tanja Bogataj, MSc,**

Director General, Ministry of  
the Environment and Spatial  
Planning, Republic of Slovenia



---

**Ms Saša Mrak, General**

Manager, Institute for  
Organizational Solutions (IZOR),  
Slovenia



---

**Ms Jana Habjan Piletic,**

mag., Director, JHP project  
solutions d.o.o., Slovenia



---

**Mr Blaž Golob, Chairman,**

Ljubljana Forum, Slovenia



# About the agenda

Thursday, 8<sup>th</sup> October 2015

Place of venue: **Ljubljana Castle**

Time	Session	Speaker
9.00 – 9.30	Official Opening of Ljubljana Forum 2015 <b>Introduction &amp; Welcome address</b>	Mr Zoran Jankovic, Mayor of the City of Ljubljana Mr Julij Božic, General Manager, IBM Slovenia Mr Blaž Golob, Chairman of Ljubljana Forum
9:30 - 9:45	Key note address: <b>Empowering / Enabling / Moving forward</b>	Mr Miro Cerar, PhD, Prime Minister, Government of the Republic of Slovenia

## Session I: **The CONCEPT of SMART CITY Current Challenges**

Moderator: Mr Miran Gajšek, Co-Chairman, Ljubljana Forum, City of Ljubljana

9:45 - 10:45	<b>New International Standards for Smart Cities Development</b>	Ms Patricia McCarney, PhD, President and CEO, World Council on City Data
	<b>Smart City enabling Sustainable Development</b>	Mr Oliver Rothschild, Chairman, Oliver Rothschild Corporate Advisors
	<b>Vienna's Smart City concept</b>	Ms Daniela Urschitz, Smart City Vienna
	<b>Challenges for development of Smart City</b>	Mr Jan Stureson, International Advisor, RESTing

## Session II: **Round Table of City Leaders - City Good Practice Cases**

Moderator: Ms Alenka Žumbar, Director, energetika.net

11:00 - 12:30	<b>City of Rijeka, City of Bijeljina, City of Tirana, City of Belgrade, City of Ljubljana</b>	
12:30 - 13:00	<b>LJUBLJANA Forum AWARD Ceremony</b>	

## Session III: **Industry solutions for SMART CITY**

Moderator: Mr An Krumberger, Director, Council One

14:30 - 15:30	<b>Smart City Platform supporting governance &amp; operations of cities</b>	Mr Marko Praprotnik, Services Manager, SmartIS
	<b>Smart solutions for Cities</b>	Mr Gregor Loncar, Smart Cities Solutions, IBM CEE
	<b>Creating smart cities</b>	Mr Miha Valentincic, Head of Strategic Development, Petrol d.d.
	<b>Accelerating innovation</b>	Mr Luka Prebil, Head of facility management, BTC d.d.

## Session IV: **Industry solutions for SMART CITY**

Moderator: Mr An Krumberger, Director, Council One

15:45 - 16:30	<b>Libelium Smart World</b>	Mr Alex Mateo, Industry Manager Smart Cities, Libelium
	<b>Digital Transformation of Urban Spaces</b>	Ms Ana Seliškar, Smart City Consultant, Cisco Systems
	<b>Application of Broadband Satellite Communications in Smart City</b>	Mr Tihomir Divjak, GFS Institute
	<b>Development and Environment Protection From eGovernment to City Government</b>	
		Mr Driton Hapciu, founding and managing partner, Cactus

## Networking & workshop

16:30 - 18:00	<b>Becoming a Smart City measured by ISO 37120 standards</b>	Joint workshop between interested city representatives and Ms Patricia McCarney, President and CEO, World Council on City Data & Mr Blaž Golob, Chairman of Ljubljana Forum
---------------	--	---



## Friday, 9<sup>th</sup> October 2015

Place of venue: **Ljubljana Castle**

### Session V: **Academia, NGOs for Smart Cities**

Moderator: Ms Tanja Bogataj, MSc, Director General, Ministry of the Environment and Spatial Planning

Time	Session	Speaker
9:00 - 10:00	<b>Connecting Smart Cities with Smart Grids</b>	Mr Igor Papic, PhD, Professor, Faculty of Electrical Engineering, University of Ljubljana
	<b>High Performance Computing supporting Smart Cities Development</b>	Mr Zlatan Car, PhD, Professor, University of Rijeka
	<b>Smart participation enabling Development of Smart Cities</b>	Mr Simon Delakorda, MSc, Institute for Electronic Participation (INePA)
	<b>Empowerment of people through Urban Architecture</b>	Ms Milena Vukmirovic, PhD, Associate researcher, University of Belgrade – Faculty of Architecture and Urban Laboratory Belgrade

### Session VI: **Financial instruments & Business models for development of Smart cities**

Moderator: Ms Saša Mrak, General Manager, Institute for Organizational Solutions (IZOR)

10:00 - 11:00	<b>Hidden potentials of cities – Business development &amp; job creation</b>	Mr Garry Jacobs, President, Mira International
	<b>Public Procurement &amp; City SMEs for Smart City development</b>	Mr Frane Šesnic, Director, Zagreb Development Agency
	<b>Smart City Monitoring – New City Assets</b>	Mr Robert Mulej, Chief Editor, Zlati kamen, SBR d.o.o.
	<b>Building Competitiveness within a Smart City</b>	Mr Pablo Collazzo, PhD, Professor, Lauder Business School, Vienna

### Session VII: **Presentation of Smart City Projects**

Moderator: Ms Jana Habjan Piletic, mag., Director, JHP project solutions d.o.o.

11:15 - 12:15	<b>Smart Mayor</b>	Mr Rupert Gole, Mayor of Šentrupert
	<b>Open House Slovenia</b>	Ms Ana Struna Bregar, Director ODP RTE HIŠE SLOVENIJE / member of Open House Worldwide, and Ms Lenka Kavcic, Director ODP RTE HIŠE SLOVENIJE / member of Open House Worldwide
	<b>IoT &amp; Smart City Development - Telecom industry as a key enabler</b>	Mr Renato Totic, Smart City & IoT Lead, Telecom Croatia
	<b>Identity Mobility Environment (IME) Beograd Urban Platform Danube Region</b>	Mr Milutin Folic, Director of Urban Planning, City of Belgrade Mr Jörg Mirtl, Project Manager, EU Strategy for the Danube Region, Priority Area 10 „Institutional Capacity and Cooperation“, Urban Platform Danube Region

### **Round table on Digital entrepreneurship & Smart City**

Moderator: Mr. Blaž Golob, Chairman Ljubljana Forum

12:15 - 12:45		Ms Milena Vukmirovic, PhD, Associate researcher, University of Belgrade – Faculty of Architecture and Urban Laboratory Belgrade Mr Alex Mateo, Industry Manager Smart Cities, Libelium
12:45 - 13:00	Closure <b>Conclusions of Ljubljana Forum 2015</b>	



# Official Opening of Ljubljana Forum 2015

**Mr Zoran Jankovič**, Mayor of the City of Ljubljana, **Mr Miro Cerar**, Prime Minister of the Republic of Slovenia, **Mr Julij Božič**, General Manager, IBM Slovenia, and **Mr Blaž Golob**, Chairman of Ljubljana Forum, welcomed the participants at 5th Ljubljana Forum and invited all to actively participate in Ljubljana Forum discussions and create a strong cooperation networks in order to achieve the aim of empowering cities and people.

## 5 Highlights of Ljubljana Forum 2015 – Empowering Cities & People

- 1.** Presentations of the latest advances of smart cities
- 2.** The opportunity of becoming a Smart City measured by ISO 37120 standard
- 3.** Ljubljana Forum Future of Cities Award 2015 with best smart city practices presentations
- 4.** City Leaders' presentations of smart city projects
- 5.** Presentations of technology developments for empowering cities and people



**Mr Julij Božič**, General Manager, IBM Slovenia, **Mr Oliver Rothschild**, Chairman, Oliver Rothschild Corporate Advisors, United Kingdom, **Mr Blaž Golob**, Chairman, Ljubljana Forum, Slovenia, and **Mr Miro Cerar**, PhD, Prime Minister, Government of the Republic of Slovenia

*»One of the greatest challenges for cities is to develop a prosperous city with a high quality of life for future generations. The exchange of cities' experience in order to avoid repetition of mistakes, learning from each other and transferring good practices in our cities is an important step forward.«*

**Mr Zoran Janković**, Mayor of Ljubljana, Slovenia

*»The main topic of the 5th Ljubljana Forum is empowering cities and people. Smart cities of the future are empowered cities - cities that have the support of its citizens. Such support is gathered by the continuous process of empowering citizens through open and active inclusion into the city management.«*

**Mr Blaž Golob**, Chairman of Ljubljana Forum

*»We need to be aware and take advantage of technology solutions for the empowerment of cities and people, such as the new Smart City Platform that enables cities to act upon all city challenges, give citizens the power of active participation and business to use the platform to present their solutions.«*

**Mr Julij Božič**, General Manager, IBM Slovenia





**Key note address:**

## Empowering / Enabling / Moving forward

Cities are key partners for the transition to a green economy, which is a prerequisite for quality of life and development in the future. Development towards smart and sustainable living environment is already being supported by existing technology solutions and services, however it still represents a great challenge for creation of new innovative approaches and technologies.

**Mr Miro Cerar**, PhD, Prime Minister of the Republic of Slovenia, stressed the vital role of our cities for the future development, since cities are employment, educational, administrative, and cultural centres of creativity and innovation. At the same time, most of today's challenges concentrate in the city. Therefore, cities are places where challenges and opportunities strongly intertwine and should be managed in a smart manner - with consideration of sustainable economic, environment, and social dimension.



**Mr Miro Cerar**, PhD, Prime Minister, Government of the Republic of Slovenia, and **Ms Patricia McCarney**, PhD, President and CEO, World Council on City Data, Canada

Smart planning for the future of urban development must take into account cities' abilities to adapt to new and rapid changes. In order to develop towards smart empowered cities, smart specialization and consistent urban policies in the areas of transport, energy, social, environmental, and others, are of major importance. Comprehensive and more efficient investments in smart urban development with better adaptation of development instruments to the needs of cities are required as well.

“Smart urban management requires appropriate policy coordination, cooperation, and dialogue. Ljubljana Forum is a great opportunity to learn and build on existing skills, to strengthen our cooperation and promote dialogue.”

**Mr Miro Cerar**



# About the highlights

## Session I:

### The CONCEPT of SMART CITY - Current Challenges



**Mr Miran Gajšek**, Co-Chairman, Ljubljana Forum, City of Ljubljana, **Ms Patricia McCarney**, PhD, President and CEO, World Council on City Data, Canada, **Mr Oliver Rothschild**, Chairman, Oliver Rothschild Corporate Advisors, United Kingdom, **Ms Daniela Urschitz**, Smart City Vienna, Austria, **Mr Jan Stureson**, International advisor RESTING, and former global leader of public sector in PwC, Sweden, and **Mr Blaž Golob**, Chairman, Ljubljana Forum

Smart cities are resilient cities adapted for future living. Quality data as the universal language are a powerful tool for improving cities' performance.

Speakers presented their insights into the smart city concept and related new emerging trends, key urban challenges, and actions needed for a city to prosper towards a resilient smart city of the future offering a high quality of life. Speakers highlighted the need for a new holistic smart city concept where people are interconnected and contributing towards a common vision, creation of knowledge, and exchange of ideas. In order to achieve this, a more proactive action and policies of decision-makers, trust and generosity, multi stakeholder collaboration, and focus on real growth industries and profitable business models is crucial. However, quality decisions need to be based on knowledge and supported by quality data. The first international standard for cities, the ISO 37120, was presented with its opportunity of measuring and monitoring cities' performance, enabling comparison, and promoting cooperation and mutual learning. The presentation of the outstanding smart city development process of Vienna demonstrated the benefits of adopting the holistic approach and including citizens into the decision-making process.



**Ms Brunilda Paskali**, Vice Mayor of Tirana, Albania, and **Ms Daniela Urschitz**, Smart City Vienna, Austria



*"The World Council on City Data and ISO 37120, the first international standard for cities, are changing the way that cities plan for a smarter, more sustainable, resilient and prosperous future through high calibre city-level data."*

**Ms Patricia McCarney**, PhD, President and CEO, World Council on City Data, Canada



*"A smart city is something that adopts sensible policies and then enacts them and is more sensible with all the technology that is available to be able to make the living in the city a more comfortable for the growing population."*

**Mr Oliver Rothschild**, Chairman, Oliver Rothschild Corporate Advisors, United Kingdom



*"The elementary trait of Smart City Wien lies in the holistic approach pursued, which comprises new mechanisms of action and co-ordination in politics and administration as well as a wide involvement of citizens."*

**Ms Daniela Urschitz**, Smart City Vienna, Austria



*"The smart cities concept can be the difference between if we consume or create a legacy for the next generation."*

**Mr Jan Sturesson**, International advisor RESTING, and former global leader of public sector in PwC



# Session II:

## Round Table of City Leaders - City Good Practice Cases



**Mr Milutin Folić**, City Architect of Belgrade, Serbia, **Mr Zoran Janković**, Mayor of Ljubljana, Slovenia, **Ms Alenka Žumbar**, Director, Energetika.net, Slovenia, **Mr Vojko Obersnel**, Mayor of Rijeka, Croatia, and **Ms Brunilda Paskali**, Vice Mayor of Tirana, Albania

Mayors and city leaders presented their key city development challenges and projects and discussed the meaning of a smart city and smart mayor. Participants agreed that offering and maintaining high quality of life in the city is among key development challenges of each city. According to city leaders' opinion, a smart city is the one that manages to maintain its progress and meets the needs of its citizens at the same time.



*"The idea of smart cities should not be the main aim, but merely a tool to improve the progress of a city."*

**Mr Vojko Obersnel**, Mayor of Rijeka

**Mr Dejan Crnek**, Deputy Mayor, City of Ljubljana, Slovenia, **Ms Tjaša Ficko**, Deputy Mayor, City of Ljubljana, Slovenia, and **Mr Miran Gajšek**, Co-Chairman, Ljubljana Forum, City of Ljubljana



The City of Ljubljana, European Green Capital 2016, reached significant achievements in improving the living environment by investing in water quality, green city areas, and sustainable mobility. The city of Rijeka has achieved a remarkable advancement towards smart city development as well. Recently, the city invested in new university campus, hospitals, sewage and water management system, and supercomputer, to manage the city more effectively. The city of Tirana aims to lower the potable water loss by improving the water management system, and reduce traffic congestions in the city by promoting sustainable transportation and increasing the pedestrian areas in the city centre. The city of Belgrade is investing in water management projects, developing a new bus and train station, establishing a public gathering spaces, and improving bicycle lanes.

In conclusions, city leaders highlighted the importance of learning from best smart city practice cases and transfer of knowledge among cities. Round table participants agreed that sufficient financing is the key for the successful implementation of urban infrastructure projects. In order to attract investors administration has to be simplified and personal approach has to be applied to comfort each investor on the safety of the investment.



# Ljubljana Forum AWARD Ceremony



Mr Blaž Golob, Chairman, Ljubljana Forum, Slovenia, H.E. Mrs Serra Kaleli, Ambassador, Embassy of the Republic of Turkey, and Mr Zoran Jankovič, Mayor of Ljubljana, Slovenia.

**Ljubljana Forum Future of Cities Award** is granted annually to the most outstanding smart city development project. We are proud to announce that Ljubljana Forum Future of Cities Award 2015 was granted to the **Ankara Boulevard project**, a project that ensured a faster, comfortable and safer transportation to the citizens and significantly improved the efficiency of public transportation.



**Mr Dejan Crnek**, Deputy Mayor, City of Ljubljana, Slovenia, **Ms Zdravka Zalar**, CEO, SmartIS d.o.o., Slovenia, **Ms Tjaša Ficko**, Deputy Mayor, City of Ljubljana, Slovenia, **Mr Zoran Janković**, Mayor of Ljubljana, Slovenia, **H.E. Mrs Serra Kaleli**, Ambassador, Embassy of the Republic of Turkey, **Mr Oliver Rothschild**, Chairman, Oliver Rothschild Corporate Advisors, United Kingdom, and **Mr Blaž Golob**, Chairman, Ljubljana Forum, Slovenia.



Efficient transport is an important component of future economic development of cities. The Ankara Boulevard project represents an outstanding improvement of city service to the citizens of Ankara - better safety, faster, more comfortable and greener transportation. There has been nearly 4,5 million trees, flowers and bushes planted alongside this 14,5 km long road. The Ankara Boulevard project represents an excellent practice of reaching a multiple smart city development goals - economic development, social development, and environment protection.



Ljubljana Forum  
award by Oskar  
Kogoj

# Session III:

## Industry solutions for SMART CITY



**Mr An Krumberger**, Director, Council One, Slovenia, **Mr Gregor Lončar**, Smart Cities Solutions, IBM CEE, Slovenia, **Mr Luka Prebil**, Head of facility management, BTC d.d, Slovenia, **Mr Marko Praprotnik**, Services Manager, SmartIS, Slovenia, and **Mr Miha Valentinčič**, Head of Strategic Development, Petrol d.d., Slovenia

Digital and other technological tools and services offer reachable solutions for building empowered cities and people.

Cities are faced with the challenge of prompt adaptation to rapid social, economic and environmental changes. At the same time, they need to improve the quality of services and living environment to the residents. In order to enable their full development potential and improve the quality of living, cities have to allocate their resources wisely - supported with quality data and in cooperation with stakeholders and residents. To reach these aims, there are efficient industry and technology solutions available to cities.



*"SmartCityPlatform empowers cities and people by transforming complex city information into simpler ones and encouraging citizens' engagement and participation for improving the quality of life."*

**Mr Marko Praprotnik**, Services Manager, SmartIS, Slovenia



Ljubljana Forum 2015 networking.



*»Smart Cities should endeavour to accommodate Smart Utilities Services Contracts to reach cost efficiency and delivery excellence of city services.«*

**Mr Gregor Lončar**, Smart Cities Solutions, IBM CEE, Slovenia



*»We can't influence the rising price of energy, but we can manage its consumption by understanding the needs of the citizens and share relevant information with them, setting clear goals, and choosing effective comprehensive solutions.«*

**Mr Miha Valentinčič**, Head of Strategic Development, Petrol d.d., Slovenia



Source: **Creating Smart Cities**. **Mr Miha Valentinčič**, Head of Strategic Development, Petrol d.d., Slovenia. Presentation at Ljubljana Forum 2015, October 8<sup>th</sup> and 9<sup>th</sup>, Ljubljana, Slovenia

*"BTC City: smart city playground."*

**Mr Luka Prebil**, Head of facility management, BTC d.d, Slovenia

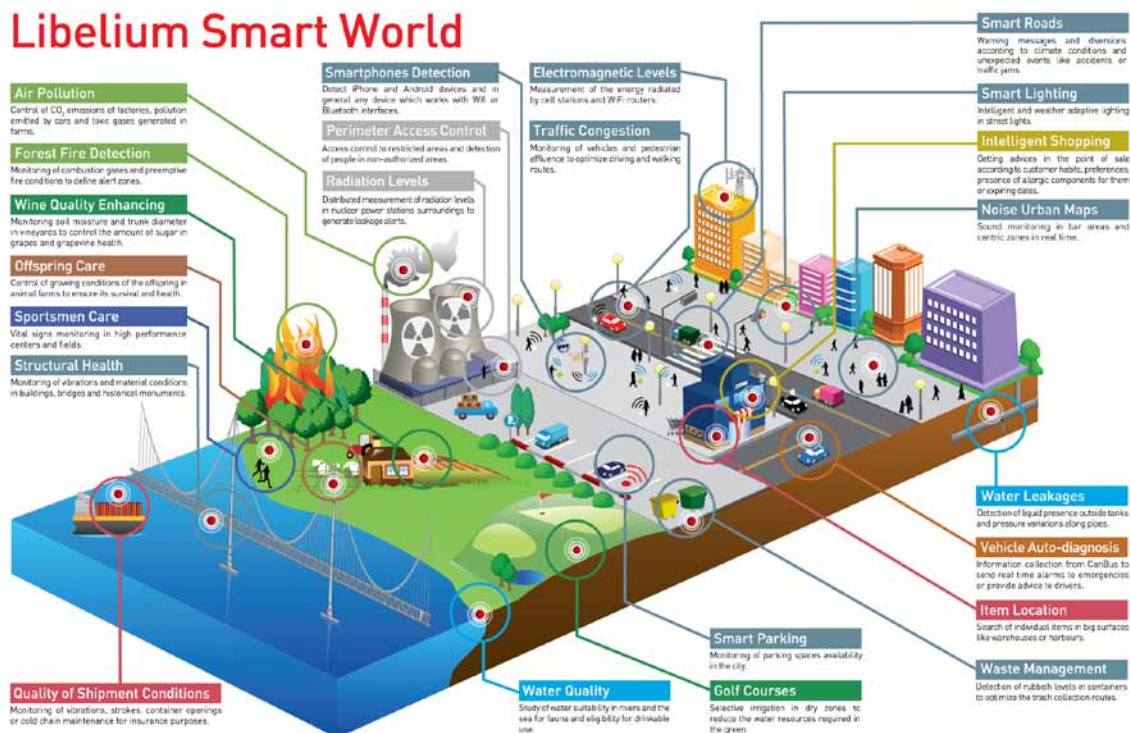


**Mr An Krumberger**, Director, Council One, Slovenia, **Mr Alex Mateo**, Industry Manager Smart Cities, Libelium, Spain, **Mr Driton Hapçiu**, founding and managing partner, Cactus, Kosovo, **Mr Tihomir Divjak**, GFS Institute, Serbia, and **Ms Ana Seliškar**, Smart City Consultant, Cisco Systems, Slovenia



*"Hardware is crucial to enable the bridge between the physical world and the internet."*  
**Mr Alex Mateo**, Industry Manager Smart Cities, Libelium, Spain

## Libelium Smart World



Source: **Libelium Smart World**. **Mr Alex Mateo**, Industry Manager Smart Cities, Libelium, Spain. Presentation at Ljubljana Forum 2015, October 8<sup>th</sup> and 9<sup>th</sup>, Ljubljana, Slovenia



- 





# Networking

Becoming a Smart City measured by ISO 37120 standard



**Ms Helen Ng**, Executive Vice President, World Council on City Data, **Ms Patricia McCarney**, PhD, President and CEO, World Council on City Data, Canada, **Mr Blaž Golob**, Chairman, Ljubljana Forum, Slovenia, and **Ms Janja Kreitmayer McKenzie**, Secretary, Ministry of the Environment and Spatial Planning, Republic of Slovenia

The opportunity of becoming a Smart City measured by ISO 37120 standards was presented at joint workshop of World Council on City Data with South East European (SEE) cities. **Ms Patricia McCarney**, President and CEO, World Council on City Data, and **Ms Helen Ng**, Executive Vice President, World Council on City Data, presented the ISO 37120 application process and shared examples of how cities are benefiting already from using the information gathered in the ISO 37120 platform.



*"It is important to have standardised data measuring what cities need and want to measure. So we listened to cities to come up with the ISO37120 standard."*

**Ms Patricia McCarney**, President and CEO, World Council on City Data

# & Workshop



**Mr Marko Filipović**, Vice Mayor, City of Rijeka, Croatia, and **Mr Željko Jurić**, CIO, City of Rijeka, Croatia



**Ms Brunilda Paskali**, Vice Mayor of Tirana, Albania

The discussion with SEE city representatives demonstrated the common city issues worldwide and opportunities for addressing them by adopting measurement and monitoring a city's performance through the ISO 37120 standardization.



Source: **Ms Patricia McCarney**, PhD, President and CEO, World Council on City Data. Presentation at Ljubljana Forum 2015, October 8<sup>th</sup> and 9<sup>th</sup>, Ljubljana, Slovenia

# Session V:

## Academia, NGOs for Smart Cities



**Mr Igor Papič**, PhD, Professor, Faculty of Electrical Engineering, University of Ljubljana, Slovenia, **Ms Tanja Bogataj**, MSc, Director General, Ministry of the Environment and Spatial Planning, Republic of Slovenia, **Ms Milena Vukmirović**, PhD, Associate researcher, University of Belgrade – Faculty of Architecture and Urban Laboratory Belgrade, Serbia, **Mr Zlatan Car**, PhD, Professor, University of Rijeka, Croatia, and **Mr Simon Delakorda**, MSc, Institute for Electronic Participation (INePA), Slovenia

Speakers presented the latest opportunities of academic and NGO research and developments, which offer valuable support to future smart city development.

The benefits of connecting smart cities with smart grids for improving the efficient use of energy at the system level were presented. Participants learned about the opportunities of high performance computing and how to take advantage of big data by high-performance data analysis. The need for promotion of urban design and architecture by using the multistakeholder and smart e-participation approach for designing empowered creative cities of the future was highlighted.



*"High performance computing systems enable data-intensive modelling and simulation problems at larger scale."*  
**Mr Zlatan Car**, PhD, Professor, University of Rijeka, Croatia



**Mr Miran Gajšek**, Co-Chairman, Ljubljana Forum – City of Ljubljana, Slovenia, **Oliver Rothschild**, Chairman, Oliver Rothschild Corporate Advisors, United Kingdom, and **Mr Blaž Golob**, Chairman, Ljubljana Forum, Slovenia



*"Smart grids are a precondition for smart cities."*

**Mr Igor Papič**, PhD, Professor, Faculty of Electrical Engineering, University of Ljubljana, Slovenia



*"Architecture and urban design as disciplines are concerned with creating a better built environment for humans and that's why there is a need for redefinition of the role of architect and urban designer in relation to the process of change."*

**Ms Milena Vukmirović**, PhD, Associate researcher, University of Belgrade – Faculty of Architecture and Urban Laboratory Belgrade, Serbia



Source: **Empowerment of People through Urban Design and Architecture**. Ms **Milena Vukmirović**, PhD, Associate researcher, University of Belgrade – Faculty of Architecture and Urban Laboratory Belgrade, Serbia. Presentation at Ljubljana Forum 2015, October 8<sup>th</sup> and 9<sup>th</sup>, Ljubljana, Slovenia

*"Smart City development is a multistakeholder journey, which is driven by trust. When stakeholders are aware of their responsibilities and limitations, then they are able to act as smart participants."*

**Mr Simon Delakorda**, MSc, Institute for Electronic Participation (INePA), Slovenia



# Session VI:

## Financial instruments & Business models for development of Smart cities



**Mr Pablo Collazzo**, PhD, Professor, Lauder Business School, Vienna, Austria, **Mr Robert Mulej**, Chief Editor, Zlati kamen, SBR d.o.o., Slovenia, **Mr Frane Šesnić**, Director, Zagreb Development Agency, Croatia, **Mr Garry Jacobs**, President, Mira International, USA, and **Ms Saša Mrak**, General Manager, Institute for Organizational Solutions (IZOR), Slovenia

To provide for prosperous smart city development cities have to enhance their competitiveness and gather knowledge and innovative solutions to attract financial and other development resources.

The need for developing innovative city's financing strategy was highlighted to mobilize the knowledge of all available stakeholders in the city to enable wise and comprehensive mobilisation of the city's human, social, economic, environmental and other resources. The importance of monitoring the city's performance for improving the governance of its resources was emphasized as well. Smart city development opportunities and public benefits of stimulating innovation and innovative SMEs through public procurement were presented with the Zagreb Model 2.0 example.



*"The city is the heart of human civilization and a seedbed of social energies, dynamic institutions and creative ideas that can be mobilized through a concerted, coordinated program of action to achieve a phenomenal rise in employment, social welfare and sustainability."*

**Mr Garry Jacobs**, President, Mira International, USA

Ljubljana Forum 2015 speakers and participants.



*"The Public Procurement of Innovative solutions and Pre-Commercial Procurement can lead to scientific and technological breakthroughs in areas such as clean & efficient energy, health and well-being, traffic management, food security, industrial development, urban ecology and others."*

**Mr Frane Šesnić**, Director, Zagreb Development Agency, Croatia



## Zagreb Model 2.0

Stakeholders for holistic approach in order to create innovative business environment



Source: **Public Procurement & City SMEs for Smart City development**. Mr Frane Šesnić, Director, Zagreb Development Agency, Croatia. Presentation at Ljubljana Forum 2015, October 8th and 9th, Ljubljana, Slovenia

*"ISSO Plus is a flexible and modular system of key performance indicators. It is a kind of a balanced scorecard for the cities and an essential smart tool for strategic governance on local level."*

**Mr Robert Mulej**, Chief Editor, Zlati kamen, SBR d.o.o., Slovenia



*"Being smart means doing more with least possible resources – from human to capital resources."*

**Mr Pablo Collazzo**, PhD, Professor, Lauder Business School, Vienna, Austria





# Session VII:

## Presentation of Smart City Projects



**Mr Milutin Folic**, Director of Urban Planning, City of Belgrade, Serbia, **Mr Rupert Gole**, Mayor, Municipality of Šentrupert, **Ms Jana Habjan Piletič**, mag., Director, JHP project solutions d.o.o., Slovenia, **Ms Lenka Kavcic**, Director, ODP RTE HIŠE SLOVENIJE / member of Open House Worldwide, Slovenia, **Mr Renato Totić**, Smart City & IoT Lead, Telecom Croatia, and **Mr Jörg Mirtl**, Project Manager, EU Strategy for the Danube Region, Priority Area 10 „Institutional Capacity and Cooperation“, Urban Platform Danube Region, Austria

Presentations of best smart city projects demonstrated the opportunities of taking advantage of available knowledge, innovative solutions and technologies for empowering cities and people.

The integration and connectivity possibilities of the IoT were presented for improving the city's resources management, enabling smart urban planning and enhancing cooperation between city administrations and people. Presentation of the SmartCityPlatform digital tool demonstrated solutions for optimisation and efficiency improvements of the city management and communication with the citizens. The Belgrade city planning project offered an insight into the integrative smart city planning process. The importance of creating a well-designed built environment for improving the quality of life in urban areas was presented by the OpenHouse initiative. The presentation of the updated Danube Transnational Programme offered an insight into opportunities for financing future smart city development solutions in the Danube Region.



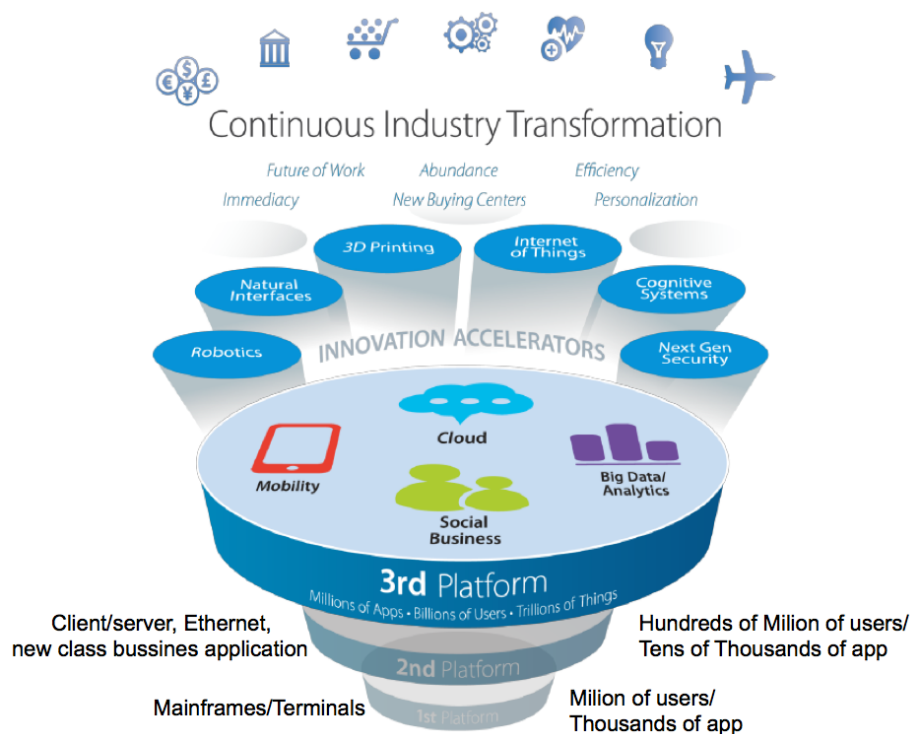
*"With SmartCityPlatform I have key information about my city's performance at my fingertips."*  
**Mr Rupert Gole**, Mayor, Municipality of Šentrupert, Slovenia

**Mr Jože Torkar**, MSc, Energy Solutions Director, Petrol, Slovenia, **Mr Blaž Golob**, Chairman Ljubljana Forum, Slovenia, **Mr Shota Sagrishvili**, Deputy Head, Technology Development Fund, City of Tbilisi, Georgia, and **Mr Sergo Khujadze**, Deputy Head of Administrative Division, Technology Development Fund, City of Tbilisi, Georgia



*"Considering transformation of telco industry, and connectivity as core of its business, it is obviously, that development of connectivity platform becomes a key enabler in order to ensure quality interconnection of things, platforms and People. Smart City is not about technology, it's primarily about People, and telecom communication platforms connects People..."*

**Mr Renato Totić**, Smart City & IoT Lead, Telecom Croatia



Source: IoT & Smart City Development – Telecom industry as a key enabler. **Mr Renato Totić**, Smart City & IoT Lead, Telecom Croatia. Presentation at Ljubljana Forum 2015, October 8<sup>th</sup> and 9<sup>th</sup>, Ljubljana, Slovenia



**Mr Zoran Janković**, Mayor of Ljubljana, Slovenia, **Mr Milutin Folić**, Director of Urban Planning, City of Belgrade, Serbia, and **Mr Miran Gajšek**, Co-Chairman, Ljubljana Forum – City of Ljubljana, Slovenia



*“Open House Slovenia as a member of Open House World Wide promotes the outstanding architecture & smart cities in order to raise the awareness and to generate greater, more sustainable economic development and a better quality of life.”*

**Ms Ana Struna Bregar**, Director, ODP RTE HIŠE SLOVENIJE / member of Open House Worldwide, Slovenia, and **Ms Lenka Kavcic**, Director, ODP RTE HIŠE SLOVENIJE / member of Open House Worldwide, Slovenia



*“The key challenges faced by cities can be mastered relying on the real intelligence of smart city - that of the citizens themselves and by responsible management of the various types of capital: social, democratic, environmental, cultural, technical and financial.”*

**Mr Milutin Folić**, Director of Urban Planning, City of Belgrade, Serbia



*“The Danube Transnational program will act as a policy driver towards positive change, contribute to a higher degree of territorial cohesion and develop policy frameworks, tools, services and concrete pilot investments.”*

**Mr Jörg Mirtl**, Project Manager, EU Strategy for the Danube Region, Priority Area 10 „Institutional Capacity and Cooperation“, Urban Platform Danube Region, Austria



## Round table on Digital entrepreneurship & Smart City

The participants of the round table presented their views of a city of the future with its key development accelerators. Opportunities emerging with digital entrepreneurship for prosperity of future cities were discussed as well. Participants agreed that urban development stakeholders need to strengthen their collaboration and communication to create innovative quality ideas and initiatives for future smart city development.

*"There is a strong political interest, all the legal possibilities, and funds available for successful future urban development. However, we have to strengthen our cooperation and define common projects, otherwise we will not prosper as much as we could."*

**Mr Miran Gajšek**, Co-Chairman, Ljubljana Forum – City of Ljubljana, Slovenia







## Conclusions of Ljubljana Forum 2015

Key message of the 5th Ljubljana Forum on Empowering Cities & People is that the future smart city development should follow the aim of building a liveable city FOR people WITH people, while the emerging technologies must serve to reach this aim.

A prerequisite for empowering cities and people is the introduction of improved governance principles where people are interconnected and contributing towards a common city high-quality development vision. To enable quality decision for efficient city's resources public management, stakeholders and people must be empowered with knowledge and supported with quality data. A city can gather a clear overview of its current condition and development goals and the needs of the people, by careful measurement and monitoring of its performance. Such an empowered city is able to take the most advantage of the available technology and industry solutions and services to develop its potentials and improve the living quality in accordance with the needs of the people.



# Joint Conference dinner with CIVITAS FORUM 2015

Hosted by the Mayor of Ljubljana Zoran Janković and  
EU Commissioner Violeta Bulc at Grand Hotel Union







# About the People

## City Leaders

Mr Zoran Janković, Mayor of Ljubljana, Slovenia  
 Mr Vojko Obersnel, Mayor of Rijeka, Croatia  
 Mr Milutin Folić, City Architect of Belgrade, Serbia  
 Ms Brunilda Paskali, Vice Mayor of Tirana, Albania

## Speakers & Moderators

Mr Blaž Golob, Chairman, Ljubljana Forum, Slovenia  
 Mr Julij Božič, General Manager, IBM Slovenia  
 Mr Miro Cerar, dr., Prime Minister, Government of the Republic of Slovenia  
 Ms Patricia McCarney, Dr., President and CEO, World Council on City Data, Canada  
 Mr Oliver Rothschild, Chairman, Oliver Rothschild Corporate Advisors, United Kingdom  
 Ms Daniela Urschitz, Smart City Vienna, Austria  
 Mr Jan Stuesson, International Advisor RESTING, and former global leader of public sector in PwC, Sweden  
 Mr Marko Praprotnik, Services Manager, SmartIS, Slovenia  
 Mr Gregor Lončar, Smart Cities Solutions, IBM CEE, Slovenia  
 Mr Miha Valentinčič, Head of Strategic Development, Petrol d.d., Slovenia  
 Mr Luka Prebil, Head of facility management, BTC d.d., Slovenia  
 Mr Alex Mateo, Industry Manager Smart Cities, Libelium, Spain  
 Ms Ana Seliškar, Smart City Consultant, Cisco Systems, Slovenia  
 Mr Tihomir Divjak, GFS Institute, Serbia  
 Mr Driton Hapciu, founding and managing partner, Cactus, Kosovo  
 Mr Igor Papič, PhD, Professor, Faculty of Electrical Engineering, University of Ljubljana, Slovenia  
 Mr Zlatan Car, PhD, Professor, University of Rijeka, Croatia

Mr Simon Delakorda, MSc, Institute for Electronic Participation (INePA), Slovenia  
 Ms Milena Vukmirović, PhD, Associate researcher, University of Belgrade – Faculty of Architecture and Urban Laboratory Belgrade, Serbia  
 Mr Garry Jacobs, President, Mira International, USA  
 Mr Frane Šesnić, Director, Zagreb Development Agency, Croatia  
 Mr Robert Mulej, Chief Editor, Zlati kamen, SBR d.o.o., Slovenia  
 Mr Pablo Collazzo, PhD, Professor, Lauder Business School, Vienna, Austria  
 Mr Rupert Gole, Mayor, Municipality of Šentrupert  
 Ms Ana Struna Bregar, Director, ODP RTE HIŠE SLOVENIJE / member of Open House Worldwide, Slovenia  
 Ms Lenka Kavcic, Director, ODP RTE HIŠE SLOVENIJE / member of Open House Worldwide, Slovenia  
 Mr Renato Totić, Smart City & IoT Lead, Telecom Croatia  
 Mr Milutin Folić, Director of Urban Planning, City of Belgrade, Serbia  
 Mr Jörg Mirtl, Project Manager, EU Strategy for the Danube Region, Priority Area 10 „Institutional Capacity and Cooperation“, Urban Platform Danube Region, Austria  
 Mr Miran Gajšek, Co-Chairman, Ljubljana Forum – City of Ljubljana, Slovenia  
 Ms Alenka Žumbar, Director, Energetika.net, Slovenia  
 Mr An Krumberger, Director, Council One, Slovenia  
 Ms Tanja Bogataj, MSc, Director General, Ministry of the Environment and Spatial Planning, Republic of Slovenia  
 Ms Saša Mrak, General Manager, Institute for Organizational Solutions (IZOR), Slovenia  
 Ms Jana Habjan Piletic, mag., Director, JHP project solutions d.o.o., Slovenia

## Participants

Ms Elisabeth Kuebler, Lauder Business School, Austria  
 Mr Robert Braun, Lauder Business School, Austria  
 Ms Helen Ng, Executive Vice President, World Council on City Data, Canada  
 Ms Alenka Šajn Slak, Head of Environmental department, CGS plus d.o.o., Slovenia  
 Mr Andrej Černe, prof., University of Ljubljana, Department of Geography, Slovenia  
 Mr Andrej Čas, Slovenia  
 Ms Aša Rogelj, Ministry of the Environment and Spatial Planning, Republic of Slovenia, Slovenia  
 Ms Barbara Radovan, Ministry of the Environment and Spatial Planning, Republic of Slovenia, Slovenia  
 Mr Blaž Peternel, Research Group Leader, TELEKOM SLOVENIJE, d. d., Slovenia  
 Mr Bojan Miličič, Project manager, Elektrosveti, d.d., Slovenia  
 Mr Borut Tomažič, Services Director, IBM Slovenija d.o.o., Slovenia  
 Mr Daniel Avdagič, Director, Mibeo d.o.o., Slovenia  
 Mr Dejan Kramberger, Valuator, Heta asset resolution d.o.o. Ljubljana, Slovenia  
 Mr Gašper Pintarič, COO, Špica international d.o.o., Slovenia  
 Mr Goran Golubič, Commercial Manager - South East, Ursa Slovenija, d.o.o., Slovenia  
 Mr Gregor Papa, Head of department, Jožef Stefan Institute, Slovenia  
 Mr Irena Ostojič, Irena Ostojič, prostorsko načrtovanje, s.p., Slovenia  
 Mr Janez Podobnik, Director, International ECPD Institute for Sustainable Development, Slovenia  
 Ms Janja Kreitmayer McKenzie, Secretary, Ministry of the Environment and Spatial Planning, Republic of Slovenia, Slovenia  
 Ms Staša Kotnik, Slovenia  
 Mr Luka Piletič, JHP project solutions d.o.o., Slovenia  
 Mr Matej Bregar, Director of IT, BTC d.d., Slovenia  
 Ms Nina Stupan, Director BTC PROP, BTC d.d., Slovenia  
 Mr Marko Lukič, Director, Lumar IG d.o.o., Slovenia  
 Ms Natalija Fon Boštjančič, Secretary, Ministry of the Environment and Spatial Planning, Republic of Slovenia, Slovenia  
 Mr Nejc Trnjanin, Head of development, SmartIS d.o.o., Slovenia  
 Mr Pavle Sicerl, Sicenter, Slovenia  
 Mr Peter Dolenc, General Manager, PDiVizija d.o.o., Slovenia  
 Ms Alenka Korenjak, Project Manager, kd prostor, Slovenia  
 Ms Zala Velkavrh, Project Manager, kd prostor, Slovenia  
 Mr Roman Renner, Advisor to the Director & Head of Marketing, Geodetic Institute of Slovenia,  
 Mr Sašo Rink, Director, Public Housing Fund of the Municipality of Ljubljana, Slovenia  
 Ms Tanja Bogataj, MSc, Director General, Ministry of the Environment and Spatial Planning, Republic of Slovenia, Slovenia  
 Mr Tine Logonder, HETA Asset Resolution d.o.o., Independent associate to assess the value of real estate, Slovenia  
 Mr Tomaž Simrajh, Owner, Advice Tomaž Simrajh s.p., Slovenia  
 Mr Tomislav Kokalj, General Manager, Erling d.o.o., Slovenia  
 Ms Liljana Jankovič Grobelšek, Head of Department, Department of spatial planning acts, Municipality of Ljubljana, Slovenia  
 Ms Mateja Doležal, Senior Advisor I, Department of Urban Planning, Municipality of Ljubljana, Slovenia  
 Ms Vanja Clemente, Senior Advisor, Ministry of the Environment and Spatial Planning, Republic of Slovenia, Slovenia  
 Ms Zdravka Zalar, Director, SmartIS d.o.o., Slovenia



Mr Brane Semolič, Member of the ZMCS Management Board, Chamber of Commerce and Industry of Slovenia- The Chamber of business service activities, Association of Management Consulting, Slovenia  
 Ms Ajda Cuderman, Petrol d.d., Slovenia  
 Mr Borut Hočevar, Slovenia  
 Mr Marko Filipović, Vice Mayor, City of Rijeka, Croatia  
 Mr Željko Jurić, CIO, City of Rijeka, Croatia  
 Mr Dejan Podgoršek, Slovenia  
 Mr Jože Torkar, Director of Energy Solutions, Petrol d.d., Slovenia  
 Mr Li Changcheng, Huawei, Slovenia  
 Mr Marko Gradišek, Slovenia  
 Ms Maruša Škopac, Slovenia  
 Mr Miha Hrženjak, MM Ibis, Slovenia





Mr Miha Zupanc, COO, BTC d.d., Slovenia  
 Mr Pavle Jazbec, Unistarpro, Slovenia  
 Mr Radko Luzar, Slovenia  
 Ms Sonja Žižek Fuis, Petrol d.d., Slovenia  
 Ms Suzana Pesjak, Unistarpro, Slovenia  
 Ms Špela Zakotnik, Petrol d.d., Slovenia  
 Mr Tomaž Boh, Slovenia  
 Ms Urša Zupan, Inspira, Slovenia  
 Mr Viktor Zaletelj, Slovenia  
 Ms Miryam Navarro Sarmiento, Trade Advisor, Economic and Commercial Office - Spanish Embassy, Spain  
 Mr Tomás Andrés Vitrih, Trade advisor, Spanish Embassy - Economic and Commercial Office, Spain  
 Ms Nataša Bogme Krim, Slovenia  
 Ms Mirjana Ribič, Slovenia  
 Mr Bersant Disha, Bersant Disha, MSc, CMC, Executive Director, RECURA Financials, Kosovo  
 Mr Visar Dobroshi, Managing Partner, RECURA financials, Kosovo  
 Mr Robert Markuš, Smartis d.o.o., Slovenia  
 Mr Mirjan Poljak, SL CONSULT Ltd., Slovenia  
 Ms Irena Razpotnik, Municipality of Ljubljana, Slovenia  
 Mr Marko Coklin, Director of Solutions and Services, UNISTAR LC, Slovenia  
 Mr Miha Murn, Institute AAMI, Slovenia  
 Mr Igor Maravič, Adriadata d.o.o., Slovenia  
 Mr Gregor Javornik, Slovenia  
 Ms Rebeka Križanič, Director, Jares d.o.o, Slovenia  
 Mr Marjan Kepic, Director, Omegatech Electronics GmbH, Slovenia  
 Ms Aša Rogelj, Ministry of the Environment and Spatial Planning, Republic of Slovenia, Slovenia  
 Mr Edo Sternad, Director, IB-PROCADD Ltd., Slovenia  
 Mr Boštjan Mešič, Business Development Manager - Public Safety & Smart Cities, Iskratel Ltd., Slovenia  
 Ms Ilka Čerpes, Faculty of Architecture, University of Ljubljana, Slovenia  
 Ms Janja Zalar, Slovenian Press Agency, Slovenia  
 Ms Julijana Unčina Slavec, Slovenia  
 Ms Hana Vidic, Futura PR, Slovenia  
 Ms Nina Krajnc, Alterna Distribution Ltd., Slovenia  
 Mr Arthur Perchel, Manager Central Eastern Europe, UITP - International Association of Public Transport, Belgium  
 Mr Danijel Vuk, Petrol d.d., Slovenia  
 Ms Veronika Suro, Freelancer, Slovenia  
 Ms Janja Solomun, Head of urban planning department, LUZ d.d. Ljubljana, Slovenia

## Team

Ms Maria Mardonović, TheEvents, Slovenia  
 Ms Diana Gazvoda, Hostess, Slovenia  
 Ms Andrea Plavljanič, Designer, Slovenia  
 Ms Helena Habjan, GFS Institute, Slovenia  
 Mr Luka Podgoršek, GFS Institute, Slovenia  
 Ms Mia Golob, GFS Institute, Slovenia  
 Mr Miha Sever, GFS Institute, Slovenia  
 Mr Peter Irman, Photographer, Slovenia



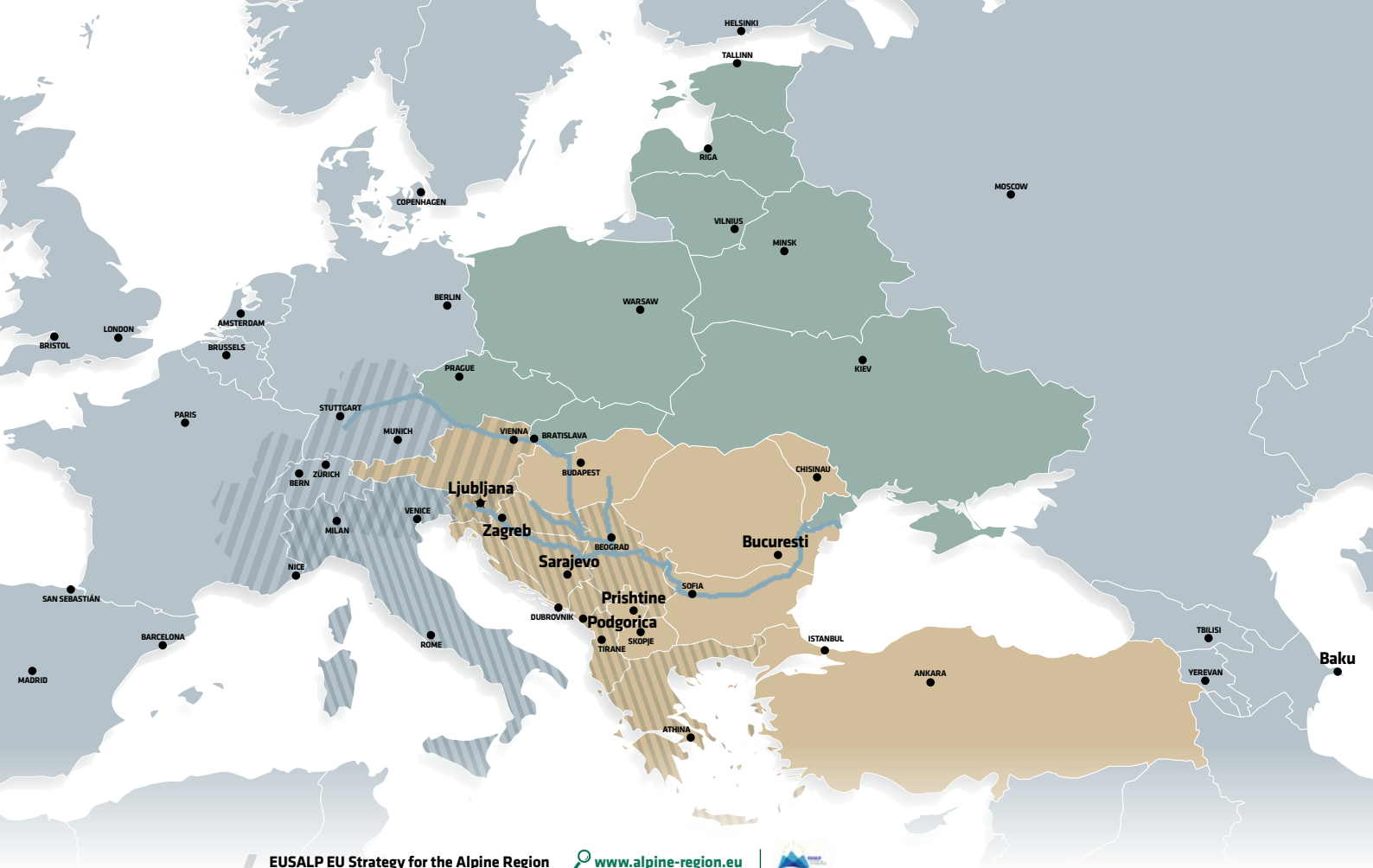
Enabling  
Sustainable / Smart / Inclusive  
Development

[www.smartiscity.eu](http://www.smartiscity.eu)

SmartIscity  
Ameriška 8  
Ljubljana

**SmartCity**Platform  
*Power to the people*





- EUSALP EU Strategy for the Alpine Region [www.alpine-region.eu](http://www.alpine-region.eu) | 
- EUSAIR EU Strategy for the Adriatic and Ionian Region [www.adriatic-ionian.eu](http://www.adriatic-ionian.eu) | 
- EUSDR EU Strategy for Danube Region (blue river line) [www.danube-region.eu](http://www.danube-region.eu) | 
- International Sava River Basin [www.savacommission.org](http://www.savacommission.org) | 
- SEE Political Process, Area of Operation
- CEE, Area of Operation

# About GoForeSight Institute

## [www.goforesight.eu](http://www.goforesight.eu)

### Mission

GoForeSight

### Vision

Supporting stakeholders in achieving prosperity and promoting development towards just world.

### Foresight

A systematic, participatory and multi-disciplinary approach to explore mid-to long-term futures and drivers of change.  
(Forward Thinking Platform)





GoForeSight Institute  
[www.goforesight.eu](http://www.goforesight.eu)

**Prepared by:** Blaž Golob, GFS Institute, and Helena Habjan, GFS Institute  
**Graphic design by:** Andrea Plavljanič  
**Photographs by:** Peter Irman

All rights reserved. No part of this report may be reproduced in any form by any electronic or mechanical means (including photocopying, recording or information storage and retrieval) without permission in writing from the GoForeSight Institute.  
©GFS

Published in 2015 by the GFS Institute, Cesta na Kurešček 46, 1292 Ig, Slovenia, EU  
[www.goforesight.eu](http://www.goforesight.eu)

ORGANISERS:



City of  
Ljubljana

PARTNERS:



City of  Vienna  
*Vienna is special.*



WCCD

WORLD COUNCIL  
ON CITY DATA



INSTITUTE  
FOR  
ELECTRONIC  
PARTICIPATION

PRISM GROUP  
Political Advisory | Public Affairs

SPONSORS:



SmartIS



 UNISTAR PRO

MEDIA  
PARTNER:



Energetika.NET