Synthesis Report

Conference
October 4th - 5th 2018 • Ljubljana Castle, Slovenia
The European Commission (EC) launched a new initiative, the European Capital of Smart Tourism, with the aim to promote smart tourism, enable network, strengthen destinations, as well as to facilitate the exchange of good tourism practices among European cities. The initiative seeks to recognise achievements in four categories: sustainability, accessibility, digitalisation, and cultural heritage and creativity.

Independent experts and representatives of the EC and the European Parliament (EP) awarded Helsinki and Lyon with the European Capital of Smart Tourism 2019, while awarding the city of Ljubljana with European Smart Tourism Award for 2019.

Four cities received 2019 European Smart Tourism Award for their achievements in four categories: Málaga for Accessibility, Copenhagen for Digitalisation, Linz for Cultural heritage, and creativity, and Ljubljana as the best in the field of sustainable tourism development.

Ms Petra Stušek, the managing director of Ljubljana Tourism, has noted: ‘The award positions Ljubljana at the very top of good practices in the field of sustainable tourism development due to its results so far and its plans for the future, which will enable further economic and social development as well as preserve the natural environment and resources in the process’.

When it comes to the sustainable tourism development of the City of Ljubljana, Stušek presented ‘Green Supply Chains, Taste Ljubljana’ project, which connects primary schools to the local food producers, the city’s zero waste management measures, increase of public green spaces, pedestrian zones, cycling trails and public transport networks, the introduction of electric tourist train, measures taken in order to achieve deseasonalization and dispersion of tourism flows and the development of cultural districts.

To learn more about European Capital of Smart Tourism, visit: [https://smart-tourismcapital.eu](https://smart-tourismcapital.eu)
Synthesis report on
FUTURE OF CITIES
SUSTAINABLE – SMART – INCLUSIVE
EUROPEAN CITY & BLOCKCHAIN
ASIA-EUROPE COOPERATION
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Introduction

The eight forum on future of cities focused on sustainable, smart, and inclusive cities. Nevertheless, a special attention has been given to cooperation between Europe and Asia for digital transformation of cities towards successful smart cities.

For the first time, new emerging technologies such as blockchain and distributed ledger technologies (DLT) supporting different pillars of smart city development were showcased. We have organised a dedicated workshop on smart tourism and customer-friendly payment services.

Today, we live in a time of extraordinary opportunities and fundamental changes in our society, business, and personal environments. New technologies are solving those challenges for people, while cities and regions are gaining special type of importance.

Slovenia is successfully keeping the pace with global developments in the dynamic digital environment. Moreover, this country is often positioned as one of the leading countries in Europe when it comes to the development and application of blockchain technology, now with a particular focus on achieving the United Nations' recognised sustainable development goals (SDGs).

For this reason, one of the main topics at this year's Forum was 'blockchain city'.

I am particularly pleased that Slovenia, along with other European Union (EU) countries, is leading in successful cooperation with many countries in Asia, especially in the field of blockchain development technologies.

Ljubljana Forum is providing a unique space and European Blockchain Hub (EUBC HUB) is providing knowledge and resources. The EUBC HUB is reaching full potential in becoming global leading organisation which connects all relevant stakeholders (private sector, governments, academia, civil society, and others) in the field of advocating and supporting capacity building for blockchain development.

Only together, with joint effort, we can see the use of new emerging technologies, including blockchain, work for sustainable and resilient cities and societies for the greatest benefit to its citizens.

Thank you for being part of the eight Ljubljana Forum. We are looking forward to deepening our partnerships in 2019 and in the years to come.
About Ljubljana Forum 2018

The eight edition of the Ljubljana Forum took place 4-5 October 2018, at Ljubljana Castle, in Ljubljana, Slovenia. It welcomed 160 participants, speakers, and moderators from all over the world. More specifically, geographic diversity of participants was as follows: 50% from South East/Central Eastern Europe, 15% from Slovenia, and 35% from the rest of the world. When it comes to stakeholder diversity, the Forum welcomed participation of high level representatives, city leaders, futurists, urban planners, architects, academics and researchers, city industry solution providers, consultants, government, European Union (EU) institution representatives, banks, civil society, and media.

The overall objective of Ljubljana Forum 2018 was to connect, enable, and encourage good practice cases and concrete cooperation among different stakeholders, with the special attention to Europe and Asia cooperation for digital transformation of cities towards successful smart cities.

Objectives of Ljubljana Forum 2018

**Objective 1:** To present and promote the European green capital.

**Objective 2:** To present Governance Challenges and Smart Infrastructure.

**Objective 3:** To present the opportunities of industry solutions for cities and smart infrastructure.

**Objective 4:** To present the best project practices and entrepreneurship.

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

Ahead of the 2019 EU elections, new financial perspective 2021-2027, and reinforcement of the EU Urban agenda, the event’s focus was on EUROPEAN CITY as sustainable, smart, and inclusive. For the first time, new emerging technologies such as blockchain and distributed ledger technologies (DTL) supporting different pillars of smart city development, were showcased.

Organizers and partners of Ljubljana Forum 2018

- BTC City
- City of Ljubljana
- Development Agency Zagreb
- ELSA
- Energetika Ljubljana
- European Blockchain Hub
- European Investment Bank
- GoForeSight Institute
- ifeelsLOVEnia
- Petrol
- SunContract
- The Events
- Vodovod Kanalizacija
- World of Sharing, WOS

Participating cities

- City of Ljubljana
- City of Budapest
- City of Cetinje
- City of Novi Sad
- City of Podgorica
- City of Rijeka
- City of Tirana
- City of Vienna
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 Southeast 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 and Representatives at Ljubljana Forum 2018

Mr Miran Gajšek, head of department for urban planning, City of Ljubljana, Slovenia

Mr Zoran Janković, mayor of the City of Ljubljana, Slovenia

Mr Zdravko Jelušić, head of Mayor’s office, City of Novi Sad, Serbia

Mr Marko Filipović, deputy mayor of the City of Rijeka, Croatia

Mr Aleksandar Kašćelan, mayor of the City of Cetinje, Montenegro

Mr Genci Kojdheli, director general of strategic projects and economic development, City of Tirana, Albania

Mr Ivan Vuković, mayor of the City of Podgorica, Montenegro

Mr Bernd Wünschek, head of IT Architect for the City of Vienna, Austria

Mr Balázs Szeneczey, deputy mayor of the City of Budapest, Hungary
Speakers of Ljubljana Forum 2018

Mr Zoran Janković, mayor of the City of Ljubljana
Mr Damjan Kralj, member of the management board, director of sales and marketing, BTC d.d.
Mr Blaž Golob, chairman of Ljubljana Forum, president and CEO, EUBC HUB
Mr Rex Yeap, WOS Co-founder, member of the advisory board, EUBC HUB
Mr Lorenzo Madrid, GFS Institute consultant
Ms Stephanie E. Trpkov, World Bank consultant
Mr Mark Kalin, director of digital innovation, BTC d.d., member of the management board, EUBC HUB
Mr Gregor Novak, SunContract CEO and founder, member of the management board, EUBC HUB
Mr Primož Škerlj, deputy technical director at Energetika Ljubljana
Ms Anja Blaj, head of advocacy, EUBC HUB
Mr Jose Jacob Kalayil, CEO Integro Ltd, chairman of India Advantage Summit
Mr Jože Mermal, chairman of the management board, BTC d.d.
Mr Dato Rey Gan, EUBC Co-founder, member of the management board, EUBC HUB
Ms Emilija Stojmenova Duš, director of the Digital Innovation Hub Slovenia, president of the management board, EUBC HUB
Mr Tadej Slapnik, director, Tolar HashNET Slovenia, president of the advisory board, EUBC HUB
Mr Klemen Rupnik, founder and director Blockchain Association, member of the advisory board, EUBC HUB
Moderators of Ljubljana Forum 2018

**Mr Holm Keller**, chairman of the management board, EUBC HUB

**Mr Jan Künne**, consultant & network partner EDC / ABC Enterprise accelerator Palo Alto, Ljubljana

**Ms Aida Mahmutović**, community manager, EUBC HUB
About the agenda

Thursday, 4th October 2018
Place of venue: Ljubljana Castle

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<th>Session</th>
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<tr>
<td>9.00 – 9.30</td>
<td>Official Opening of Ljubljana Forum 2018 Introduction &amp; Welcome address</td>
<td>Mr. Zoran Janković, mayor of the City of Ljubljana, Mr. Damjan Kralj, member of the management board, director of sales &amp; marketing - BTC d.d., Mr Blaž Golob, chairman of Ljubljana Forum, president &amp; CEO of the European Blockchain HUB</td>
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<tr>
<td>9.30 – 9.50</td>
<td>Signing ceremony Ljubljana Forum Cities of the Future project – PETROL &amp; City of Ljubljana</td>
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Session I: European City & Europe – Asia Cooperation
Moderator: Mr. Holm Keller, Chairman kENUP Foundation & management board member – European Blockchain HUB

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<tr>
<td>9.50 - 10.50</td>
<td>European City</td>
<td>Mr. Miran Gaššek, head of department for urban planning – City of Ljubljana / co-chairman of Ljubljana Forum</td>
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<td>EUROPE – ASIA Cooperation</td>
<td>Mr. Rex Yeap, WOS Co-founder, Member of the Advisory Board of the European Blockchain HUB</td>
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<td>Smart &amp; Inclusive Cities</td>
<td>Mr. Lorenzo Madrid, GFS Institute consultant</td>
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<td>Digital transformation of Cities – from vision to concrete projects</td>
<td>Ms. Stephanie E. Trpkov, consultant World Bank</td>
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<td>Asian perspective of Smart City development – Hong Kong bay area</td>
<td>Mr. George So, chairman United Regent Group Ltd., chairman Hong Kong Node, European Blockchain HUB</td>
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Session II: Round Table of City Leaders – City Good Practice Cases
Moderator: Ms. Aida Mahmutović, social media & community manager, European Blockchain HUB

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<tr>
<td>11.00 – 12.15</td>
<td>Mr. Zoran Janković, mayor of Ljubljana; Mr. Ivan Vukočič, mayor of Podgorica; Mr. Aleksandar Kalčičan, mayor of Cetinje; Mr. Baláž Szencerzy, deputy mayor of Budapest; Mr. Marko Filipović, deputy mayor of Rijeka; Mr. Genci Kojdheli, director general of strategic projects and economic development, Tirana; Mr. Bernd Wünschek, head of IT Architect for the City of Vienna; Mr. Zdravko Jelušić, head of Mayor’s office, Novi Sad</td>
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Session III A: Industry Solutions for Cities
Moderator: Mr. Jan Künne, consultant & network partner EDG / ABC Enterprise accelerator Palo Alto / Ljubljana

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<tr>
<td>14.00 – 15.00</td>
<td>BTC CITY</td>
<td>Mr. Mark Kalin, member of the management board of the European Blockchain HUB</td>
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<td>World of Sharing</td>
<td>Mr. Rex Yeap, WOS Co-founder, Member of the Advisory Board of the European Blockchain HUB</td>
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<td>SUNCONTRACT</td>
<td>Mr. Gregor Novak, CEO &amp; founder Suncontract</td>
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<td>ENERGETIKA [P/L]</td>
<td>Mr. Primož Skrejš, head of sector [P Energetika Ljubljana]</td>
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Session III B: Industry Solutions for Cities & Reference Projects

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<th>Time</th>
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<tr>
<td>15.00 – 16.00</td>
<td>Legal Framework for Blockchain City Development</td>
<td>Ms. Anja Blaj, head of advocacy, European Blockchain HUB</td>
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<td>Smart Cities Development in India</td>
<td>Mr. Jose Jacob Kalayil, CEO Integro Ltd, chairman of India Advantage Summit</td>
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<td>16.00 – 16.15</td>
<td>Conclusions of the first day &amp; introduction to the second day</td>
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<td>16.30 – 18.00</td>
<td>Study tour visit to one of the selected city object that was energy retrofit (European Investment Bank – EIB financed / initiated in Ljubljana Forum in 2012)</td>
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<td>20:00</td>
<td>Ljubljana Forum Reception &amp; Award Ceremony</td>
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Friday, 5th October 2018
Place of venue: BTC City of Ljubljana / Visit to the Bitcoin City / Pyramid building, Šmartinska 140, Ljubljana, 6th floor

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<tr>
<td>9.00 – 10.00</td>
<td>Official opening of the European Blockchain HUB - BTC City</td>
<td>Mr. Blaž Golob, president &amp; CEO of the European Blockchain HUB, Mr. Zoran Janković, mayor of the City of Ljubljana, Mr. Jože Mermal, president of the board BTC, d.d., Mr. Damjan Bratko, president of the board BTC, d.d., Mr. Dato Rey, EUBC HUB Co-founder, Member of the Management Board of the European Blockchain HUB, Mr. Mark Kalin, blockchain lead BTC &amp; management board member of the European Blockchain HUB, Mr. Rex Yeap, WOS Co-founder, Member of the Advisory Board of the European Blockchain HUB, Mr. Blaž Golob, president &amp; CEO of the European Blockchain HUB</td>
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<tr>
<td>11.15 – 12.00</td>
<td>Introduction to the Work of the European Blockchain HUB</td>
<td>Ms. Emilija Stojmenova Duh, president of the management board of the European Blockchain HUB, Mr. Tadej Slapnik, president of the advisory board of the European Blockchain HUB, Mr. Mark Kalin, blockchain lead BTC &amp; management board member of the European Blockchain HUB, Mr. Rex Yeap, WOS Co-founder, Member of the Advisory Board of the European Blockchain HUB, Mr. Blaž Golob, president &amp; CEO of the European Blockchain HUB</td>
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Synthesis Report on Future of Cities | EUROPEAN CITY & BLOCKCHAIN | ASIA-EUROPE COOPERATION
Mr Zoran Jankovič, mayor of the City of Ljubljana, Mr Damjan Kralj, member of the management board, director of sales and marketing - BTC d.d., and Mr Blaž Golob, chairman of Ljubljana Forum, president and CEO of the European Blockchain HUB (EUBC HUB) welcomed participants to the eight Ljubljana Forum inviting to actively engage in discussions concerning European cities as sustainable, smart, and inclusive cities with the focus on emerging technologies, such as blockchain supporting different pillars of smart city development.

Signing ceremony
Ljubljana Forum Cities of the Future project – PETROL & City of Ljubljana

Energy Efficiency project initiated at Ljubljana Forum in 2013. In 2018 first phase was realised and second phase contract signed. Forum objective No 5 realised!!!
Technological disruption and social change means occupiers need new and different types of space. We are witnessing the emergence, and fast evolution, of new property types. These are often hybrids of traditional uses, but with a focus on services, flexibility, and sharing. Examples include co-working and serviced offices, co-living, micro-living, new leisure uses, and student housing/hotels. These are segments which do not have the depth and liquidity of the established sectors, but we expect them to lead investment into new property types, some of which have yet to emerge.
Mr Miran Gajšek, head of department for urban planning, City of Ljubljana and co-chairman of Ljubljana Forum, noted the following objectives for urban regeneration:

**Urban renewal**: transformation into a recognisable, programmatically rich and active part of the city, with intertwining activities enabling dwelling, working, and leisure.

**Economic renewal**: creation of conditions for an economically prosperous city district where the former employment in processing industry will be offset by new activities.

**Social renewal**: creation of conditions for a socially alive city district, with homes in the private market and social rented housing, local service businesses, and global production companies.

**Ecological renewal**: ecology-promoting city district, cleared off old environmental burdens; enabling energy-efficient construction that utilise energy-efficient technological solutions.
Mr Rex Yeap, co-founder World of Sharing (WOS) dedicated his speech to the cooperation between Europe and Asia.

He pointed out that as cities are evolving in Europe and Asia, the more advance they get there is a greater worry about environmental issues. Building smart cities plays an important role when it comes to global warming, as well as for the people who live in the cities for their healthy lifestyles. Yeap notes that in his opinion, smart cities are ‘not matured yet in many countries’. He concluded by noting that Asia will need more input by profession and experts from Europe to build smart cities. Europe did a fantastic job in building smart cities, while retaining the cultural and historical value of the cities. This certainly will enable future generation to be able to see these historical monuments, cities’ development throughout history still in-vivo and not in the books.

Ms Stephanie E. Trpkov, consultant, World Bank, presented on the subject of connecting cities in the Silk Road, more specifically on the PPP model for successful development. When it comes to digital transformation of cities, Trpkov offered food for thought with interesting examples which went from a vision to concrete projects.

Mr Lorenzo Madrid, GFS Institute consultant, spoke about what Smart City 3.0 is. He noted that the next ‘buzz words’ are: Next, IoT, Sensors, Connected, Future, Smart. City managers might face the urban planning challenges such are: shrinking revenues, budget cuts, limited natural resources, aging of citizens, outdated infrastructure, growing energy demands, and rigorous regulatory requirements; as well as importance to understand and provide improved cybersecurity and privacy when moving to digital technology.

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

Genci Kojdhei, director general of strategic projects and economic development, Tirana, Ivan Vuković, mayor of Podgorica, Bernd Wünschek, head of IT Architect for the City of Vienna, Zdravko Jelušić, head of Mayor’s office, Novi Sad, Aida Mahmutović, social media & community manager, European Blockchain Hub, Marko Filipović, deputy mayor of Rijeka, Balázs Szeneczey, deputy mayor of Budapest, Aleksandar Kašćelan, mayor of Cetinje, Miran Gajšek, head of department for urban planning, City of Ljubljana

“Some things we have heard today could be the future for us. In the end, we want to see improvement.”
Mr Ivan Vuković, mayor of Podgorica

“Some things we have heard today could be the future for us. In the end, we want to see improvement.”
Mr Marko Filipović, deputy mayor of Rijeka

“The most important part for the city of Rijeka is to be a smart city at 2020.”
Mr Marko Filipović, deputy mayor of Rijeka

“As politicians, we are watching public and making decisions in the right way, for our people and our city. Often, the problem is law. Laws about, for example digitisation of documents, are needed. We have to lot to do in the future if we want to reach discussion also about new technology, such is blockchain.”
Mr Zdravko Jelušić, head of mayor’s office, Novi Sad

“The City of Vienna cooperates with a lot of universities. Our projects are not big but we want to learn new technologies. Recycling is a big topic, but if it is not done right nobody cares. Important points are also privacy and security. And there are completely different ways in which people look on these topics.”
Mr Bernd Wünschek, head of IT Architect for the City of Vienna
Session III A: Industry Solutions for Cities

Gregor Novak, CEO & founder, Suncontract, Rex Yeap, WOS Co-founder, member of the advisory board of the European Blockchain Hub, Mark Kalin, head of innovation office and new technology, BTC City, member of the management board of the European Blockchain Hub, Primož Škerl, deputy technical director at Energetika Ljubljana, Jan Künne, consultant & network partner EDG / ABC Enterprise accelerator Palo Alto / Ljubljana

Mr Mark Kalin, head of innovation office and new technology, BTC Company, and member of the management board of the EUBCHUB, presented the BTC City as one of the largest business, shopping, entertainment, recreational, and cultural centers in Europe. Data shows more than 21 mio visitors per year, 3,000 companies, more than 450 shops, 70 food restaurants, 8,500 free parking spaces, and 12.5 mio cars per year.

Indicative data from BTC City as Innovative City: ABC Accelerator
- In last 3 years accelerated 90 startups from 24 different countries.
- ABC Accelerator became the best accelerator in Central Europe on 25 November 2017.
- Currently running 6th program for startups – DEEP TECH.
- Has all-inclusive package with apartments, developers, legal etc..
- Collected more than 30 mil of investments into its startups.
- Created more than 1,000 new jobs.

Looking into the new era of BTC Company, it aims to include: blockchain, virtual reality (VR), augmented reality (AR), and machine learning (ML) technologies, for the following:
- The future of shopping by implementing new technologies.
- Implementation of different blockchain projects in the BTC City.
- Being the center of the European Blockchain Hub (EUBCHUB).
- Being recognized as the Bitcoin city.
- Accepting cryptocurrency in every shop - Elipay.
- And stay tuned for: crypto ATMs.
Mr Gregor Novak, CEO and co-founder, SunContract, presented their vision which includes trust, transparency, traceability, time stamp, transaction, digitalisation, decarbonization, deregulation, decentralization, and democratization. SunContract works on solving on daily basis expensive electricity costs, pollution-based environment overheating, absence of retail peer-to-peer energy market, and inability to manage prosumption. Their work supports the growth of self-sufficient energy communities with batteries, supports EU directive and OZN in the area of achievable sustainable goals. Their platform has been launched in April 2018, in Bled, Slovenia.

Why to spread the word on implementing the ‘SunContract’?
- It promotes self-sufficiency
- Producers break even initial investment faster
- Consumers save money
- It promotes the use of renewables
- Contributes towards a cleaner environment

Mr Primož Škerl, deputy technical director at Energetika Ljubljana was one of the speakers at the Industry solutions for cities session. Škerl presented the PSTE (Pametni Sistem Toplotne Energije) project, about heart energy smart systems, its challenges and smart heating solutions.
Mrs Anja Blaj, head of advocacy at the EUBC HUB, addressed the issue of technology’s lack of neutrality. As it always reflects creators attitude, moral values and intentions, one needs to seek legal standards and common denominators in order to assure the development follows social needs. Blaj compared legal rules and decisions to a consensus protocols ingrained in a code and explained why an interdisciplinary approach might be needed today more than ever. She emphasised that legal framework creators will have to take into account the smart city infrastructure, including traffic surveillance, infrastructure funding, mobility, big data and its connection to smart incentives.

There are two important agility mechanisms to achieve stability of the system:
1. Minimum viable regulation (MVR) with rapid updates as new technology is adopted;
2. Sandboxes - experimental environment in which solution providers cooperate with government to better understand how to regulate the new technology.

Blaj named numerous pilot projects adopting blockchain technology for smart city infrastructure, such are Tidepool, Phosphorus, Fitbit, Johnson&Johnson, to name a few, and concluded with FDA Commissioner, Scott Gotlieb’s statement: ‘We need to modernize our regulatory framework so that it matches the kind of innovation we’re being asked to evaluate.’
Mr Jose Jacob Kalayil, CEO Integro Ltd, chairman of India Advantage Summit, presented about smart city solutions and development in India. Kalayil emphasized the current Prime Minister of India, Mr Narendra Modi has been awarded, along with the French president Emmanuel Macron, with United Nations honor, in policy leadership category, for ‘pioneering work in championing the International Solar Alliance and promoting new areas of levels of cooperation on environmental action.’ Indian sustainable policy implementation on green grassroots initiatives ‘have flourished’. A major push forward towards renewable energy in recent years has propelled India to become the fifth largest producer of solar energy and the sixth larger producer of renewable energy worldwide.

When it comes to education, they take special pride in their Smart classrooms in the following cities in India: Vishakhapatnam, Kakinada, in two schools, and Jabalpur in 22 schools.
During the eight Ljubljana Forum, the 2018 ‘Future of Cities Award’, for the best innovation in the field of developing future of the cities, has been given to the City of Almaty, for their Urban mobility reform ‘From a car-oriented to people-oriented city’, project.

To the Award ceremony, Mr Simon Trnovšek, secretary general of the Kazakh-Slovenian Business Club, has been invited and to whom the Award has been presented.

Ljubljana Forum’s ‘Future of the Cities Award’ is an annual tradition and it is presented to the most innovative smart city development project.

This year’s competition was extremely strong, and the job for the Selection committee was not easy. Apart from the winning project ‘From a car-oriented to people-oriented city’ from the City of Almaty, the following two projects also made it to the finals:

- the City of Ankara, Ankapark, ‘Sustainable tourism potential of the city’ project, and
- the City of Zagreb, River Save, ‘Returning citizens to the river Sava’.

Simon Trnovšek, secretary general, Kazakh-Slovenian Business Club, Miran Gajšek, head of department for urban planning, City of Ljubljana, Rex Yeap, WOS Co-founder, member of the advisory board, EUBC HUB, Marija Mardonović, TheEvents, Janez Koželj, vice-mayor of the City of Ljubljana, Blaž Golob, chairman of Ljubljana Forum
Welcome to Ljubljana and to Ljubljana Forum for the eight time

‘Dear visitors and participants of the Forum, dear colleagues,

Ljubljana Forum on the Future of the Cities is opening discussions about the underuse of ICTs which could foster the process of achieving the set of sustainable transformational goals. In this regard, we are concurrently striving to keep the pace.

The fundamental objective of our eight Forum is to bring closer the examples of good practice and effectively encourage significant collaborations between various stakeholders and partners to implement innovative technologies for safe mining of big data, which is being offered in the network of all the data used in the city management.

As we all know, the smart cities infrastructure is based on the Internet of Things (IoT), linked through a network of smart phones, tablets, and other devices, surveillance cameras, and sensors - with the purpose of monitoring traffic flows, consumer behaviour, criminal conducts, etc.

Mobile devices and IoT tools can be spread across the city and easily incorporated, registered within distributed ledger technology (such as blockchain). Since each device can be registered with its very own password and title caption, a unique identification guarantees much safer use and prevents the obtained data to be maliciously abused. This all being said, there’s countless opportunities for blockchain technologies in the sector of smart cities, where huge amount of data is constantly being provided, collected and processed, yet spared for our future measures and practical operations.
Data incorporated in a safe blockchain environment could ease the access, management of statistics, and facts by city administration and public service providers. Blockchain technologies enable various stakeholders to collect, revise, manage databases without the possible biased or vulnerable intermediaries, autonomously and in a decentralised manner. With this in mind, it offers effective infrastructure for the improvements of public safety, validation of public transportation, improvements of public procurement, and much more.

This are just some manners in which new, innovative blockchain technology or distributed ledger technology contributes to the removal of barriers and faster development of smart cities as a interconnected smart system of networks.

With strong belief everyone on the forum obtained more knowledge, made strong connections and perhaps even concluded some agreements about future cooperation, while enjoying each others company. I congratulate you all at the conclusion of our Forum.”

Zdravko Jelušič, head of mayor’s office, Novi Sad, Aleksandar Belić, Novi Sad, Denis Mladenić, Viškovo, Marko Filipović, deputy mayor of Rijeka, Maja Zupančič Pintar, EUBC HUB
The second day, 5 October 2018, marked the official opening of the European Blockchain Hub (EUBC HUB), in the BTC City Center premises, in Ljubljana, Slovenia. Over a hundred guests from all around the world, including partners, supporting organizations’ representatives, experts in the field, stakeholders, as well as curious visitors, attended the opening.

Guests were welcomed by Mr Blaž Golob, president and CEO of the EUBC HUB, who stated that the Hub marks a new era for the blockchain industry, with ambition to position its members, Ljubljana, Slovenia and Europe worldwide.
The opening of the Hub has been welcomed by Mr Zoran Janković, the mayor of the City of Ljubljana himself. Janković expressed his excitement and pleasure for putting Ljubljana, the most beautiful city in the world, in the center of conversation and action around emerging technologies, such as the blockchain.

Mr Rex Yeap, EUBC HUB advisory board member, noted that he sees the EUBC HUB as a platform not only to connect Europe and Asia, but countries within Asia as well, in using blockchain to reach out to the rest of the world. He invited to join forces on exchanging information, knowledge, as well as experience, in order to make Europe and Asia a better place.
The EUBC HUB is a cooperative that is currently gathering government, academia, business sector, and individuals, but is nonetheless welcoming interest and cooperation with other stakeholder representatives, as well, in the development of blockchain and distributed ledger technology (DLT) for achieving sustainable development goals (SDGs). It is open for everyone who shares the values of openness, social responsibility, and general care for others. It is an independent organization established with the purpose to increase the advantages of stakeholders in blockchain technology and the distributed economy, while increasing the advantages of Europe, through regional and global partnerships.

The second part of the opening was dedicated to the stakeholders and board members introducing the work of the EUBC HUB for guests and broader audience.

All information and activities of the European Blockchain Hub (EUBC HUB) can be found at: www.eubchub.eu.
Conclusions of Ljubljana Forum 2018

City leaders, speakers, emerging technologies and blockchain expertes, and participants of the VIII Ljubljana Forum gathered at Ljubljana Castle to discuss the concept of a sustainable, smart, and inclusive future of cities, with the emphasis of cooperation between Asia and Europe and blockchain technology.

It is not easy to keep the pace with the world evolving in economic, social, technological, as well as political ways. All of these are reshaping the world as we know it, bringing in new challenges for people and therefore for cities.

For urbanization, demographic changes, technological progress, and environmental challenges, having smarter cities is not an easy task for governments.

However, a ‘smart city’ is becoming a trending concept on global basis, and lately more than ever is more and more connected with emerging technologies such are artificial intelligence (AI) and blockchain. In order to become smarter, more collaborative, inclusive, connected, and more sustainable, they need to provide better services and offer higher living quality for its citizens. And for this, carefully planned smart city strategies are crucial.

At the eight Ljubljana Forum on future of cities, we focused on European city as sustainable, smart, and inclusive city, especially as we approach the 2019 European Union elections, new financial perspective 2030, and reinforcement of the EU Urban Agenda.

Miran Gajšek, co-chairman of Ljubljana Forum and Blaž Golob, chairman of Ljubljana forum.
We put special focus on cooperation between two continents, Europe and Asia, as strong and global partners, both strong in developing and using new technologies, such as blockchain.

For the first time, blockchain supporting different pillars of smart city development have been showcased.

Blockchain is somewhat a new technology, therefore most of governments have not yet seen its potential in building smart cities. Therefore, with Ljubljana Forum, and connecting solutions from Europe, Asia, and beyond we are working in emphasizing its great potential.

Only some of the areas where blockchain can play big role are voting systems, education, traceability of medicines, food and agriculture, energy, employment, insurance, among others. In addition, blockchain can decrease the risk of challenges related to data security, privacy, inefficiency, lack of transparency, as well as corruption. For that, we have included blockchain in looking into smart cities of the future.

Ljubljana Forum, within eight years, has become a platform for multistakeholder community, where knowledge is shared with new good practices and arising challenges.

We believe that cities need to learn one from another. With open collaboration, careful vision and development strategy, and potential of new technologies, we can help our cities become smart cities of well-being for everyone.

Extraordinary relaxed people at Ljubljana Forum. Right Mr Marko Filipović, deputy mayor of the City of Rijeka, Digital Cities Challenge (www.digitallytransformyourregion.eu), selected city by European Commission.

Miha Murn, president and CEO of AAMI International Corporation
City Leaders
Mr Marko Filipović, deputy mayor of the City of Rijeka, Croatia
Mr Miran Gajšek, head of department for urban planning, City of Ljubljana, Slovenia
Mr Zoran Janković, mayor of the City of Ljubljana, Slovenia
Mr Zdravko Jelušić, head of Mayor’s office, City of Novi Sad, Serbia
Mr Aleksandar Kačelin, mayor of the City of Cetinje, Montenegro
Mr Genci Kojdheli, director general of strategic projects and economic development, City of Tirana, Albania
Mr Balázs Szeneczey, deputy mayor of the City of Budapest, Hungary
Mr Ivan Vuković, mayor of the City of Podgorica, Montenegro
Mr Brind Wünschek, head of IT Architect for the City of Vienna, Austria

Speakers & Moderators
Mr Zoran Janković, mayor of the City of Ljubljana
Mr Damjan Kralj, member of the management board, director of sales and marketing, BTC d.d.
Mr Blaž Golob, chairman of Ljubljana Forum, director director Blockchain for SDGs tour, EUBC HUB
Mr Lorenzo Madrid, IFIS Institute consultant
Ms Stephanie E. Tripkovic, World Bank consultant
Mr Mark Kalin, director of digital innovation, BTC d.d., member of the management board, EUBC HUB
Mr Gregor Novak, SunContract CEO and founder, member of the management board, EUBC HUB
Mr Primož Škerl, deputy technical director at Energetika Ljubljana
Ms Anja Blaj, head of advocacy, EUBC HUB
Mr Jose Jacob Kalayil, CEO Integro Ltd, chairman of India Advantage Summit
Mr Jože Mermal, chairman of the management board, BTC d.d.
Mr Dato Rey Can, president Titanwave Pte Ltd, Singapore, member of the management board, EUBC HUB
Ms Emilija Stojmenova Duh, director of the Digital Innovation Hub Slovenia, president of the management board, EUBC HUB
Mr Tadej Slapnik, director, Tolar HashNET Slovenia, president of the advisory board, EUBC HUB
Mr Holm Keller, chairman KENUP Foundation, member of the management board, EUBC HUB
Mr Ian Künne, consultant & network partner EDG / ABC Enterprise accelerator Palo Alto, Ljubljana
Ms Aida Mahmutović, community manager, EUBC HUB

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Mr Tomaž Berločnik, Petrol d.d.
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Ms Anja Blaj, EUBCHUB
Ms Nataša Bogme Kirn, KingS d.o.o.
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Ms Brígida Bracho, THE EVENTS
Ms Safa Bunct, Arhitektura in oblikovanje
Ms Nadine Castillo
Ms Ian Chai, Creative Hive
Mr Kristopher Colja
Ms Norma De Saint Picman, Noravision Gallery Zavod za promocijo umetnosti, kulture in izobraževanja
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Mr Srećko Foski, Core Matrix Limited
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Synthesis Report on Future of Cities | EUROPEAN CITY & BLOCKCHAIN | ASIA-EUROPE COOPERATION
Petrol as the largest energy company in South East Europe has a clear vision of future low carbon society. With more than 70 years’ experience and long-term BBB investment grade, we are transforming to a Multi-Utility Mobility and Energy service Company (MUMESCO) Company that can help execute investments in smart city solutions or help investing through public private partnerships.

As a recognised partner of smart cities in the region, we manage five of the aspects that are important to cities, namely energy, buildings, infrastructure, the environment and mobility, in an optimum manner in order to achieve their goals, using minimum of energy and producing minimum environmental footprint.

Partnering for efficient production, supply and distribution of energy in cities, we optimise and manage district heating systems of cities, supply cities with cleaner, eco-friendlier energy sources, and construct the necessary infrastructure. We invest in power production coming from renewable energy sources, such as geothermal energy, wind power, solar power and hydropower.

Executing comprehensive solutions in the field of the supply and use of high-quality drinking water, supported by expert management tools, we provide cities with the control of their infrastructure, optimisation of their water supply and development planning. We significantly contribute to reducing the costs of water distribution, diminish energy consumption, reduce water losses and take care of wastewater operations.

With state of the art technology, we are digitalising the pathway for all smart city users, through solutions that connect data flow from IoT devices, public utilities to end users and through our digital outlets and smart home solutions. Let’s invest in smart decisions together.
WOS is creating a community of sharing economy around the globe to understand their lifestyle and behavior by using THREE CUTTING-EDGE TECHNOLOGIES. When resources are mobilized, every single consumer pays less for what they desire.

In WOS, we are obliged to recalibrate the unfit behavior with every single data collected throughout the events. The future is now, together we build a smarter community by leveraging on the BIG DATA.

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Pay Less, Share More.

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• Online Ordering & Booking

Community - Hive
• Smart Community and Cities

Distribution - Odamart
• Smart Shelve Sharing

Fashion *COMING SOON*
• Digital Shopping System

Space *COMING SOON*
• Smart Space Sharing

Transport *COMING SOON*
• Intelligent Vehicle Function

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One Belt One Road initiative

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

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