



4TH WEGO GENERAL ASSEMBLY 2017

June 27th-30th, 2017 | Ulyanovsk, Russia

"Smart Sustainable Cities for All"

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GREETINGS

Won-soon Park

Mayor of Seoul

Greetings to my fellow mayors and the other distinguished delegates, joining us from around the world for the 4th WeGO General Assembly. I offer you my sincere welcome to the Ulyanovsk Region, and thank you for your support of what I am sure will be an engaging and productive event for all of us.

At this year's General Assembly, we are proud to welcome over 40 member cities and 60 non-member cities who are participating as observers. I am sure you all have gathered here because you share the same vision for a smart, sustainable future for our cities. I am proud to serve as the President of WeGO, which was established in 2010 to empower cities to utilize digital technology to its fullest potential, seeking innovative solutions to urban challenges. Since its founding, WeGO has over doubled in membership and is constantly evolving to serve the diverse needs of its members in the dynamic field of Smart Cities.

Looking to the future, I am confident that WeGO will continue to lead the way for its members to achieve their goals. I would like to re-affirm my support to WeGO Secretariat and look forward to an exciting few days of hearing our shared success stories and best practices as we look to the future together.

Sincerely,

Won-soon Park
Mayor of Seoul



GREETINGS

Sergey I. Morozov

Governor of the Ulyanovsk Region

Dear participants of the IV WeGO General Assembly!

On behalf of the Government of the Ulyanovsk region and all its residents, I heartily welcome you to the Ulyanovsk region!

In the age of rapidly developing technologies we face a very complicated question: how to turn innovative solutions into real benefits for citizens? How to change and improve urban environment and state services with the help of science and technology?

It goes without saying, that such a serious challenge makes us look for answers in the context of global innovation processes. Therefore, we highly appreciate opportunities of consolidating efforts and sharing best practices provided by World E-governments Organization of Cities and Local Governments.

Since 2010 cooperation of our region with WeGO has brought many important practical results to both sides.

It is a great honour for us that WeGO Europe Regional Office is located in the Ulyanovsk region and this year we were given the privilege to host IV WeGO General Assembly here.

For us this decision is the highest assessment of the achievements and potential of the Ulyanovsk region on the way to formation of smart cities and the smart region. It is also a unique opportunity to share our own ideas and achievements with the world-leading experts, to draw inspiration from our colleagues and to immerse experts from Ulyanovsk in the atmosphere of innovative creation.

I am confident that such valuable communication will help us successfully implement the "Smart Region" concept in the Ulyanovsk region and become a pilot site for research and development of breakthrough solutions for smart cities throughout Russia.

We are open to new business contacts and cooperation with representatives of WeGO member-cities!

I sincerely wish you, dear colleagues, new professional achievements and successful and fruitful work at the IV WeGO General Assembly.

Sergey I. Morozov
Governor of the Ulyanovsk Region



GREETINGS

Young-sook Nam

Secretary General of WeGO

Thank you for joining us for the 4th WeGO General Assembly in Ulyanovsk Region, Russia. It has been a dynamic three years since WeGO last met in Chengdu, China for our 3rd WeGO General Assembly. I am honored to serve as the Secretary General of WeGO as we evolve to best serve out members and forge new partnerships.

As our world moves forward, and our cities take on the key challenges of our time, smart technologies hold immense potential for our shared future. With this in mind, we have chosen to focus on this potential under our theme "Smart Sustainable Cities for All" and this concept will be front and center as we discuss our successes and challenges over the next few days.

We hope that you will enjoy the rich program that we have prepared for you which includes the World Mayors Roundtable, World CIO Forum, six sessions packed with city experts, City Digital Solutions Forum, and the Design Thinking and Ideathon Workshop. Furthermore, we will enjoy summer in beautiful Ulyanovsk, a place pervaded with the heart and history of the Russian people.

Once again, I thank you for coming and look forward to a week full of meeting old friends and making new ones.

Yours truly,

Young-sook Nam
Secretary General of WeGO

WeGO 2017 GA / Program at a Glance

Session 1

The Road to Smart Sustainable Cities

Session 2

Open Innovation and Living Labs for Smart Cities

Session 3

Internet of Things (IoT), Big Data and Analytics

JUNE 27 ~ Day 1



17:00 **EXCOM MEETING**
17:00 ~ 18:30 / Assembly Hall

18:30 **WELCOME DINNER**
18:30 ~ 20:30 / Hilton Garden

JUNE 28 ~ Day 2

09:00 **REGISTRATION | PHOTO ZONE TIME**
09:00 ~ 10:00 / Lobby

10:00 **WORLD CIO FORUM**
10:00 ~ 11:30 / Assembly Hall

SESSION 1: THE ROAD TO SMART SUSTAINABLE CITIES
10:00 ~ 11:30 / Conference Room

11:30 **CIO LUNCH**
11:30 ~ 13:30 / Oblomov Res.

LUNCH
11:30 ~ 13:30 / Hilton Garden

13:30 **GENERAL ASSEMBLY SESSION I**
13:30 ~ 15:30 / Assembly Hall

15:30 **COFFEE BREAK**
 15:30 ~ 15:50 / Lobby

15:50 **GENERAL ASSEMBLY SESSION 2 & WEGO SMART SUSTAINABLE CITY AWARDS CEREMONY**
15:50 ~ 17:50 / Assembly Hall

17:50 **PRESS CONFERENCE**
17:50 ~ 18:30 / Conference Room

18:30 **RECESS**
18:30 ~ 19:00

19:00 **WEGO GALA DINNER (+ NETWORKING)**
19:00 ~ 21:00 / Lenin Memorial

Session 4

Smart and Low-Carbon Cities:
 Impact of Digitization on
 Management of Infrastructure



Session 5

Challenges and Solutions in
 Smart City
 Governance and Financing

Session 6

Smart Cities and
 Regions in Russia

JUNE 29 ~ Day 3

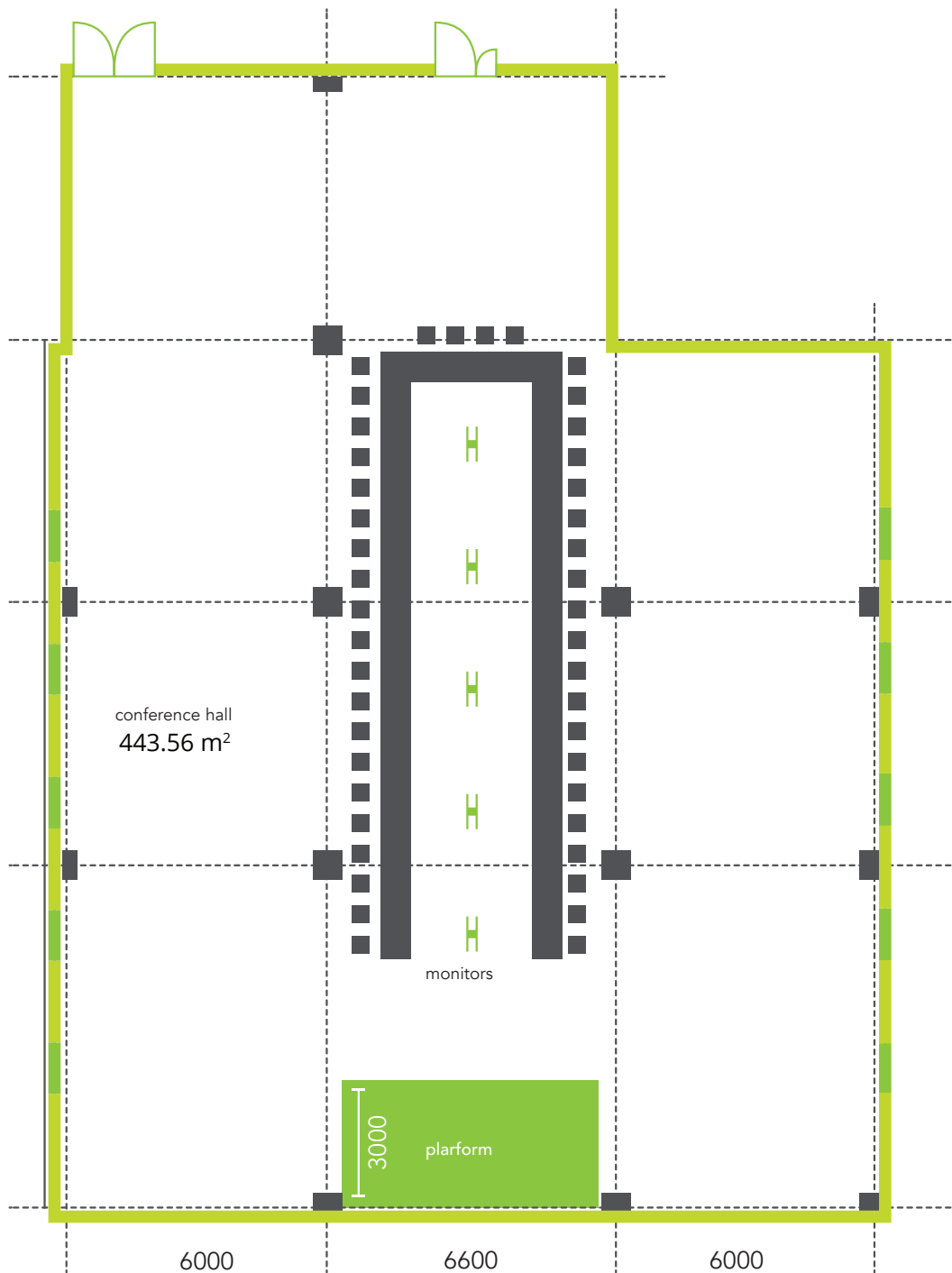
- 09:30 **WORLD MAYORS ROUNDTABLE**
 9:30 ~ 11:00 / Assembly Hall
- SESSION 2: OPEN INNOVATION AND LIVING LABS FOR SMART CITIES**
 9:30 ~ 11:00 / Conference Room
- 11:00 **COFFEE BREAK**
 11:00 ~ 11:20 / Lobby
- 11:20 **MAYORS LUNCH**
 11:20 ~ 12:50 / Oblomov Res.
- SESSION 3: IOT, BIG DATA AND ANALYTICS**
 11:20 ~ 12:50 / Conference Room
- 12:50 **LUNCH**
 12:50 ~ 14:30 / Hilton Garden
- NEW EXCOM LUNCH**
 12:50 ~ 14:30 / Hilton Garden
- 14:30 **SESSION 4: SMART AND LOW-CARBON CITIES: THE IMPACT OF DIGITALIZATION ON URBAN INFRASTRUCTURE (ICLEI SESSION)**
 14:30 ~ 16:10 / Assembly Hall
- CITY DIGITAL SOLUTIONS FORUM**
 14:30 ~ 16:10 / Conference Room
- 16:10 **COFFEE BREAK**
 16:10 ~ 16:30 / Lobby
- 16:30 **SESSION 5: CHALLENGES AND SOLUTIONS IN SMART CITY GOVERNANCE AND FINANCING**
 16:30 ~ 18:10 / Conference Room
- SESSION 6: SMART CITIES AND REGIONS IN RUSSIA**
 16:30 ~ 18:10 / Assembly Hall
- 18:10 **RECESS**
 18:10 ~ 19:00 / Lobby
- 19:00 **ULYANOVSK BANQUET DINNER (+ NETWORKING)**
 19:00 ~ 21:00 / Lenin Memorial

JUNE 30 ~ Day 4

- 09:30 **DESIGN THINKING & IDEATHON WORKSHOP**
 09:30 ~ 11:30 / Assembly Hall
- 11:30 **FAREWELL LUNCH**
 11:30 ~ 13:30 / Hilton Garden
- 13:30 **TECHNICAL VISITS & CULTURAL TOUR**
 13:30 ~ 18:30
- 18:30 **TRANSFER TO AIRPORT (LEAVE ULYANOVSK)**
 18:30 ~

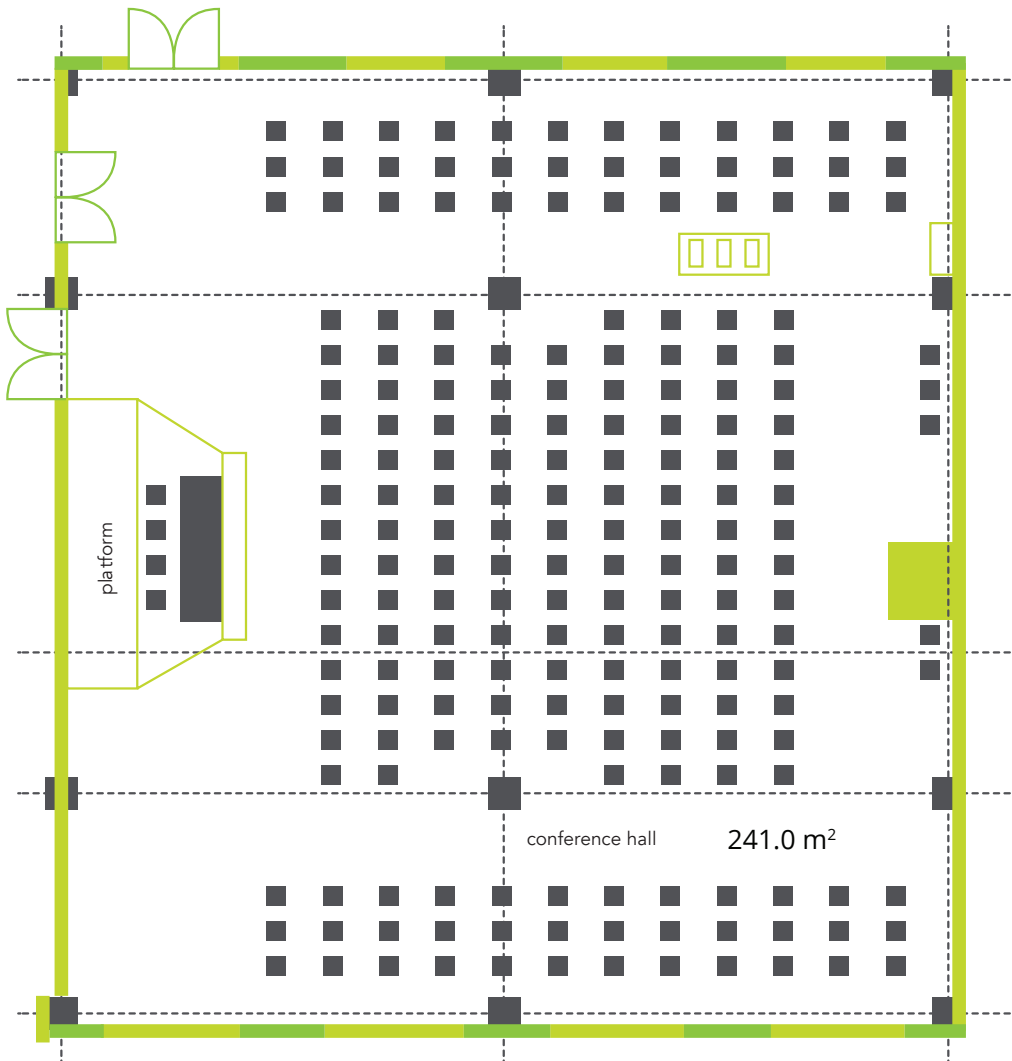
GA Venue Guide

2 floor, Annex Building



ASSEMBLY HALL

1 floor, Main Building



WeGO 2017 GA / Detailed Program

TUESDAY / ВТОРНИК WEDNESDAY / СРЕДА

27th of June | DAY 1

28th of June | DAY 2

17:00 EXCOM Meeting

17:00 ~ 18:30

Assembly Hall

Dress Code: Smart Casual

Chair

Mr. Younghoon Choi
CIO
Seoul, South Korea

Co-chair

Dr. Young-sook Nam
Secretary General
WeGO Secretariat

Participating EXCOM members

Chengdu	Maputo
Hebron	Nairobi
Jakarta	Seoul
Khartoum State	Ulyanovsk Region

Next EXCOM candidates

Addis Ababa	Kigali
Bangkok	Mexico City
Beyoğlu	Pittsburgh
Ha Noi	

18:30 Welcome Dinner

18:30 ~ 20:30

Hilton Garden

Dress Code: Smart Casual

9:00 Registration (Photo Zone Time)

09:00 ~ 10:00

Lobby

10:00 World CIO Forum

10:00 ~ 11:30

Assembly Hall

Dress Code: Smart Casual

Chair

Mr. Tom Symons,
Principal Researcher, Policy and Research
Team, Nesta

Presentations from CIOs

Citizen 360

Mr. Oscar Escobar
Director, Information Technologies
Department
Cali, Colombia

How Jakarta Becomes an Open City

Mrs. Dian Ekowati
Head, Communication, Informatics, and
Statistics Department
Jakarta Capital City Government,
Indonesia

Smart Jerusalem

Mr. Eitan Barzilay
Chief Business Development & Innovation
Officer
Jerusalem, Israel

Top-down Approach to Smart Development: Challenges and Solutions

Mr. Evgeny Kozlov
 Deputy Head of the Mayor of Moscow
 Staff Office
 Moscow City Government, Russia

HR Policy in the Sphere of IT the Ulyanovsk Region

Ms. Svetlana Openysheva
 Director, RSPI "Government for Citizens"
 Ulyanovsk Region, Russia

SESSION 1: The Road to Smart Sustainable Cities

10:00 ~ 11:30

Conference Room

Dress Code: Smart Casual

Chair

Ms. Mijung Kim
 CEO
 Yong Consulting

Presentations

The Road to Smart Sustainable Cities: an Overview

Ms. Mijung Kim
 CEO
 Yong Consulting

Smart City Benchmarking and City Case Studies

Mr. Paul Wilson
 Smart City Advisor
 TM Forum

Dudeuriso: An Integrated Portal for Petitions, Suggestions and Call Center Services

Mr. Seung-su Kim
 Vice Mayor
 Daegu Metropolitan Government

Global Trends in Smart, Sustainable Cities

Mr. Chungha Cha
 Founder and Chair
 Re-Imagining Cities Foundation

Smart Dubai 2021 - Towards Becoming the Happiest City on Earth

Dr. Okan Geray
 Strategic Planning Consultant
 Smart Dubai

GiGA Story

Ms. Sunjoo Lee
 Senior Vice President, Sustainability
 Management Center, KT

11:30 Lunch
 11:30 ~ 13:30
Hilton Garden

CIO Lunch
 11:30 ~ 13:30
Oblovov Restaurant

13:30 **General Assembly Session I**
 13:30 ~ 15:30
Assembly Hall
Dress Code: Smart Casual

15:30 Coffee Break
 15:30 ~ 15:50
Lobby

15:50 **General Assembly Session II & WeGO Smart Sustainable City Awards Ceremony**
 15:50 ~ 17:50
Assembly Hall
Dress Code: Smart Casual

17:50 Press Conference
 17:50 ~ 18:30
Conference Room

18:30 Recess
 18:30 ~ 19:00

19:00 WeGO Gala Dinner (+ Networking)
 19:00 ~ 21:00
Lenin Memorial
Dress Code: Smart Casual

THURSDAY / ЧЕТВЕРГ

29th of June | DAY 3

09:30 SESSION II: Open Innovation and Living Labs for Smart Cities

09:30 ~ 11:00

Conference Room

Dress Code: Smart Casual

Chair

Mr. Tom Symons
Principal Researcher, Policy and Research Team, Nesta

Presentations

Smart Cities from the Ground Up

Mr. Tom Symons
Principal Researcher, Policy and Research Team, Nesta

Living Labs: Key to Smart City Success

Mr. Chungha Cha
Founder and Chair
Re-Imagining Cities Foundation

4th Industrial Revolution, the definition of Smart City and innovation

Mr. Jaewon Peter Chun
CEO, XnTree

From user involvement to place-based sustainability experiments: Exploring the emergence of "Living Labs" in Korea

Dr. Marc Wolfram
Associate Professor, Department of Urban Planning and Engineering
Yonsei University

Understanding the value of music and night culture in a city as a living lab experiment

Mr. Danny Keir
Head, Market Development
Sound Diplomacy

WORLD MAYORS ROUNDTABLE

09:30 ~ 11:00

Assembly Hall

Dress Code: Smart Casual

The session will be divided into three main parts:

- 1) Special Presentation by the Ulyanovsk Region
- 2) Introduction of WeGO Thematic Clusters
- 3) City Case Presentations

11:00 Coffee Break

11:00 ~ 11:20

Lobby

11:20 Mayors Lunch

11:20 ~ 12:50

Oblomov Restaurant

SESSION III: IoT, Big Data and Analytics

11:20 ~ 12:50

Conference Room

Dress Code: Smart Casual

Chair

Ms. Mellyana Frederika
Programme Specialist of UN Pulse Lab Jakarta

Presentations

Internet of Things (IoT), Big Data and Analytics: Journey on Generating Actionable Insights

Ms. Mellyana Frederika
Programme Specialist
UN Pulse Lab Jakarta

Resolving Urban Challenges and Improving Transparency of Seoul City through Big Data

Mr. Kiwan Lee
Director of Information Planning
Department, Seoul

Digital Revolution Shaping the Future of Smart City

Mr. Eldar Tuzmukhametov
Head of Smart City Lab of Moscow Government
Russia

Jerusalem's Smart City Projects

Mr. Eitan Barzilay
Chief Business Development & Innovation
Officer
Jerusalem, Israel

Socio-economic Benefits from Big Data for Smart City

Mr. Mikhail Bunchuk
Program Coordinator, Transport & ICT
Global Practice
World Bank

Artificial Intelligence, Banking (Digital Finance) and Cities (Smart Cities)

Mr. Josh Choi
ITU, Switzerland

12:50 Lunch
12:50 ~ 14:30
Hilton Garden

New EXCOM Lunch
12:50 ~ 14:30
Hilton Garden

14:30 **SESSION IV: Smart and Low-Carbon Cities:**
The impact of Digitalization on Urban
Infrastructure (ICLEI Session)
14:30 ~ 16:10
Assembly Hall
Dress Code: Smart Casual

Chair

Mr. Wolfgang Teubner
Regional Director for Europe, ICLEI

Presentations

Innovation in Smart Cities: Bike Share
Mr. Tie Li
China Center for Urban Development
(CCUD)

Developing Urban Power Grids using the Smart Grid Technologies

Mr. Rustem Gazizov
Vice Mayor of Ufa City
Bashkortostan Republic, Russia

Deeping of the Construction of Smart City in the Age of Internet

Mr. Jiang Tiebing
Vice Secretary General, Wuhan City, China

Smart Solution in City Transportation

Mr. Grzegorz Boroń
Director, Department of Integrated
Development, Bydgoszcz, Poland

The Impact of Citizen Governments through Digitalization

Mr. Miguel Arana Catania
Director of the Citizen Participation
Project, Madrid City, Spain

Smart Solution for Secure Transportation

Andy HyunJoo Lee
Global Business Group, Executive Director,
KT, South Korea

CITY DIGITAL SOLUTIONS FORUM

14:30 ~ 16:10

Conference Room

Dress Code: Smart Casual

Chair

Mr. Jaewon Peter Chun
CEO, XnTree

Speakers

1. KT
2. Sovtest ATE
3. Danusys
4. Circulus Inc.
5. Airblack
6. Seoul Digital Foundation
7. MST Digital Agency
8. Ecube Labs Co., Ltd.
9. Smart Cities Innovation Summit Asia (KINTEX)
10. Gedaref Digital City Organization
11. State Agency for Public Service and Social Innovations (Azerbaijan)
12. Social Lift
13. NIC (National Information Center)

16:30 SESSION V: Challenges and Solutions in Smart City Governance and Financing

16:30 ~ 18:10

Conference Room

Dress Code: Smart Casual

Chair

Carlos de Freitas
Co-Director, FMDV (Global Fund for Cities Development)

Thematic Presentations

The Impacts of Smart Technologies in the Municipal Budget

Carlos de Freitas
Co-Director, FMDV (Global Fund for Cities Development)

Smart City Implementation in Kampala

Dr. Jennifer Semakula Musisi
Executive Director, Kampala, Uganda

Convergence between Gwangmyeong Cave and Digital Media Technology

Mr. Chun-pyo Lee
Vice Mayor, Gwangmyeong City, South Korea

The Revolution of Smart City Governance through Digital Direct Democracy

Miguel Arana Catania
Director, Citizen Participation Project, Madrid, Spain

Smart City Governance and Financing in Baguio City

Ms. Leticia Clemente
City Budget Officer, City Government of Baguio, Philippines

Burgh's Eye View: Making City Data Accessible

Mr. Robert Burack
Harvard Ash Fellow, Department of Innovation & Performance, Pittsburgh, USA

SESSION VI: Smart Cities and Regions in Russia

16:30 ~ 18:10

Assembly Hall

Dress Code: Smart Casual

Chair

Dr. Yuri Hohlov
Chairman of the Board of Directors of the Institute of the Information Society Russia

Thematic Presentations

Mr. German Klimenko
Advisor to the President of the Russian Federation, Administration of the President of the Russian Federation

Strategy for Information Society Development in the Russian Federation until 2030

Mr. Alexandr Zaverjachyev
Principal Advisor for ICT and e-Democracy, Administration of the President of the Russian Federation

Goals, Objectives and Stages of the Smart City part of the Russian Digital Economy Program

Mr. Boris Glazkov
Director, Center for Strategic Innovations, PJSC Rostelecom

Digital life of Russian Cities

Mr. Vladimir Korovkin,
Head, Innovations and Digital Research, The Moscow School of Management, SKOLKOVO

City Presentations

- ***Moscow Smart City Project***
- ***Ulyanovsk Smart City Project***
- ***Magas Smart City Project***
- ***Novosibirsk Smart City Project***
- ***Omsk Smart City Project***
- ***Kazan Smart City Project***

18:10 Recess
18:10 ~ 19:00

19:00 Ulyanovsk Banquet Dinner (+ Networking)
19:00 ~ 21:00
Lenin Memorial
Dress Code: Smart Casual

FRIDAY / ПЯТНИЦА

30th of June | DAY 4

**9:30 DESIGN THINKING & IDEATHON
WORKSHOP**

09:30 ~ 11:30

Assembly Hall

Dress Code: Casual

Speaker / Moderator

Dr. Christopher Han

Vice President, SAP AppHaus

11:30 Farewell Lunch

11:30 ~ 13:30

Hilton Garden

13:30 Technical Visits & Cultural Tour

13:30 ~ 18:30

18:30 Transfer to Airport (Leave Ulyanovsk)

Participating Cities & Heads of Delegations /



Accra | Ghana

MOHAMMED ADJEI SOWAH

Mayor



Addis Ababa | Ethiopia

ABATE SITOTAW FENTA

Vice Mayor



Baguio | Philippines

LETICIA CLEMENTE

City Budget Officer



Bishkek | Kyrgyzstan

MELIS DJUNUSHALIEV

Head of Staff (Vice Mayor)



Blantyre | Malawi

WILD JAMES NDIPO

Mayor



Bydgoszcz | Poland

GRZEGORZ BORON

*Director, Department of
Integrated Development*



Chengdu | China

GANG LENG

*Vice Chairman, Chengdu
Municipal People's Congress*



Colombo | Sri Lanka

**HEIYANTUDUWAGE DONA
CHANDIMA JANAKI**

*Deputy Municipal
Commissioner (Vice Mayor)*



Da Nang | Vietnam

QUANG THANH NGUYEN

*Director, Department of
Information and Communication*



Bangkok | Thailand
WANVILAI PROMLAKANO

Deputy Governor



Beyoğlu | Turkey
EROL OKTEN

Vice Mayor



Biscay | Spain
NEREA MARTIARTU CRESPO

Director General, Good Governance and Transparency



Cali | Colombia
OSCAR ESCOBAR

Director, Information Technologies Department



Central Information Technology Office | Belize
FRANCISCO JOSE GONZALEZ

Acting Director, Ministry of Finance



Cheboksary | Russia
ALEXEY MAKLYGIN

Deputy Head of Administration (Vice Mayor)



Daegu | South Korea
SEUNG-SU KIM

Vice Mayor



Dhulikhel Municipality | Nepal
MAHESH BARAL

Executive Officer



Donga | Nigeria
NASHUKA IPEYEN MUSA

Executive Chairman



Dubai | UAE

OKAN GERAY

*Strategic Planning Consultant,
Smart Dubai*



Edmonton | Canada

SOUMYA GHOSH

Director, Smart city



Galle | Sri Lanka

**KUMARA DHAMMIKA MAHA
MUHANDIRAMGE**

*Senior Municipal Councilor
(Acting Deputy Mayor)*



Hanoi | Vietnam

TUAN DANG VU

*Deputy Director, Department Of
Information And Communication*



Hebron | Palestine

JUMANA K. M. QAWASMA

Director of Business Incubator



Hefei | China

SHIJIN TANG

*Deputy Director, General
Office*



Jalingo | Nigeria

ABDULNASIR BOBBOJI

Executive Chairman



Jerusalem | Israel

EITAN BARZILAY

*Chief Business Development &
Innovation Officer*



Kabul | Afghanistan

ABDULLAH JAN HABIBZAI

Acting Mayor



Gassol | Nigeria

YAHUZA YAYA'U

Executive Chairman



Goyang | South Korea

SUNG CHOI

Mayor



GwangMyeong | South Korea

CHUN PYO LEE

Vice Mayor



Inzensky District | Russia

ALEXANDER MAKAROV

Head of Administration



Islamabad | Pakistan

ASAD KAYANI

Chief Officer of Member Planning and Engineering



Jakarta | Indonesia

DIAN EKOWATI

Head, Communication, Informatics and Statistics Department



Kaluga Region | Russia

SERGEY PASYUKOV

General Director, Association City Information Center "Safe City"



Kampala | Uganda

JENNIFER SEMAKULA MUSISI

Executive Director (Mayor level)



Karachi | Pakistan

WASIM AKHTAR KHAN

Mayor



Karim Lamido | Nigeria

IDI MARLLI DANFULANI

Executive Chairman



Karsunsky District | Russia

VIKTOR LISIN

Deputy Head of Administration



Khanty-Mansiysk | Russia

PAVEL TSIPORIN

*Director, Department of
Information Technology*



Kurmi | Nigeria

STEPHEN IBRAHIM

Executive Chairman



Kursk Region | Russia

VIKTOR CHERNYH

Deputy Governor



La Union Province |
Philippines

FRANCISCO EMMANUEL ORTEGA

Governor



Maputo | Mozambique

ADELAIDE BEATRIZ LEMOS SOUTO

*Director of Information System
Management*



Mexico City | Mexico

ISMAEL VILLEGAS

*General Director of
Governance of ICT*



Minsk | Belarus

VIKTAR LAPTSEU

*Deputy Chairman, Communal
Service of Executive
Committee*



Kigali | Rwanda
PARFAIT BUSABIZWA

Vice Mayor



Kostroma | Russia
OLGA VORONINA

*Deputy Head of Administration
of the City*



Krasnodar | Russia
EVGENY PROKHOROV

*Head, Information Technology
Department*



Macau | SAR
CHON FONG NG

*Senior Officer, Department of
Organization and Information*



Madrid | Spain
MIGUEL ARANA CATANIA

*Director, Citizen Participation
Project*



Magas | Russia
BESLAN TSECHOEV

Mayor



Miraflores | Peru
ISRAEL ACUÑA WONG - COQUIS

Deputy Mayor



Montevideo | Uruguay
CARLOS EMILIO LEONCZUK
MINETTO

*Manager of Information
Technology (CIO)*



Moratuwa | Sri Lanka
CHANDANA MANNAPPERUMA

Municipal Commissioner



Moscow | Russia

EVGENY KOZLOV

Deputy Head of the Mayor of
Moscow Staff Office



Nairobi | Kenya

ANNE KAMAIS LOKIDOR

Country Executive Committee
Member (CECM)



Nalchik | Russia

ARSEN ALAKAEV

Head of Administration



Peshawar | Pakistan

MUHAMMAD ASIM KHAN

Mayor



**Pangkalpinang
Municipality | Indonesia**

MUHAMMAD IRWANSYAH

Mayor



Pittsburgh | USA

ROBERT BURACK

Harvard Ash Fellow, Department
of Innovation & Performance



Rio de Janeiro | Brazil

FÁBIO PIMENTEL DE CARVALHO

President-Director, IPLANRIO



Samara | Russia

OLEG FURSOV

Mayor



Seberang Perai | Malaysia

H'NG MOOI LYE

Councillor



Nandi County Government | Kenya
CLEOPHAS KIPROP LAGAT
—
Governor



New Taipei | Taiwan
MAO-CHENG LIAO
—
Executive Officer, International Affairs Division



Omsk | Russia
ALEXEY MENSHOV
—
Deputy Mayor



Pokhara | Nepal
DIRGHA NARAYAN PAUDEL
—
Executive Officer



Querétaro | Mexico
MARCOS AGUILAR
—
Mayor



Quezon City | Philippines
REYNALDO PAUL IMJADA
—
Head of Information Technology Development Department



Sejong | South Korea
JUNHYEON KANG
—
Vice Mayor



Seoul | South Korea
WON-SOON PARK
—
Mayor



Sevastopol | Russia
SVETLANA TKACHENKO
—
Director, The Multifunction Center for Providing the State and Municipal Services



Sri Jayawardenapura Kotte | Sri Lanka

JANAKA RANAWAKA ARACHCHIGE
DON

—
Mayor



Sterlitamak | Russia

VLADIMIR KULIKOV

—
Head of Administration



Taipei City | Taiwan

CHIN-RONG LIN

—
Deputy Mayor



Tashkent | Uzbekistan

NOZIM KHUSANOV

—
Deputy Mayor



Tatarstan | Russia

ROMAN SHAYKHUTDINOV

—
Deputy Prime Minister, Ministry of Information and Communication



Tegucigalpa | Honduras

JUAN CARLOS GARCÍA MEDINA

—
Vice Mayor



Ufa | Russia

RUSTEM GAZIZOV

—
Vice Mayor



Ulyanovsk Region | Russia

SERGEY I. MOROZOV

—
Governor



Veracruz | Mexico

MAURICIO GARCÍA HERNÁNDEZ

—
Director, Innovation and Digital and e-Government



Takum | Nigeria
YOHANNA TIKARI SHIBAN

Executive Chairman



Tangerang Selatan | Indonesia
BENYAMIN DAVNIE

Vice Mayor



Taraba State | Nigeria
GRACE AMAEFULA

Senior Special Assistant to the Governor on ICT



Thimphu | Bhutan
KINLAY DORJEE

Mayor



Tolyatti | Russia
ELENA BALASHOVA

Head of Information Technology and Communication (CIO)



Tshwane | South Africa
TSHEPISO SOLLY MSIMANGA

Executive Mayor



Vladivostok | Russia
EVGENIY VEKOVSHININ

Head of Information Technology (CIO)



Voronezh | Russia
ALEXANDR NIKOLAEVICH SKOROBOGATOV

Head of Information Technology (CIO)



Wuhan | China
TIEBING JIANG

Vice Secretary General



Yekateringofsky-Saint Petersburg | Russia

OLEG SMAKOTIN

Head of the Municipality



Yorro | Nigeria

AHMED MASHO

Executive Chairman



Istanbul | Turkey

HAYRI BARAÇLI

Secretary General



Abu Dhabi | UAE

IBRAHIM MOHAMED AL DABAL

General Coordinator, Khalifa Student Empowerment Program (Aqdar)

Khartoum State | Sudan

KAMAL SIDDIG

Manager, Information Center

Oktyabrsky | Russia

ALEXEY SHMELEV

Head of Administration (Mayor)

Leningrad Region | Russia

ANDREY POLUNIN

Deputy Chairman, Committee on Communications and Informatization

Port Sudan State | Sudan

AHMED ELBAHI

General Secretary

Cherdaklinsky District | Ulyanovsk, Russia

VIKTOR SAMOYLOV

Head of Administration

Melekesskiy District | Ulyanovsk, Russia

ILYAS MUHUTDINOV

Head of Administration

Red Sea State | Sudan

HITHAM AHMED

IT Division Manager

Kazan | Russia

ANTON TARAEV

First Deputy Head of Information Technologies and Communications Department

Nikolayevsky District | Ulyanovsk, Russia

ALEXANDER RIZAEV

Head of Administration

Saratov Region | Russia

MIHAIL GADRATOV

IT Committee Chairman, Chamber of Commerce and Industry

Sardauna | Nigeria

JOHN YEP BAYEP

Executive Chairman

Participating Organizations

GA 2017 | Ulyanovsk Region, Russia

Administration of the President of the Russian Federation | Russia
Adviser to the President of the Russian Federation

Agency of Architecture and Town-planning of the Ulyanovsk Area | Russia
Leader-Main Architect Of Region

Agency of Human Potential and Labour Resources | Russia
Chairman

Airblack | South Korea
CEO

Association of County Governments of Kenya (ACGOK) | Kenya
Program Manager

Astrakhan City Development Fund | Russia
Vice President

Center for Strategic Research "North-West" Foundation | Russia
Director

Circulus Inc. | South Korea
CTO

Cluster Development center of Ulyanovsk Region | Russia
General Director

Danusys Co., Ltd | South Korea

e-Government Expert Center | Russia
Director

FMDV (Global Fund for Cities Development) | France
Co-Director

ICLEI East Asia Regional Office | South Korea
Senior Program Officer

ICLEI European Secretariat | Germany
Director

Institute of Information Society | Russia
Director General

International Telecommunication Union (ITU)
Head of Liaison to the United Nations

iSoftStone Information Technology (Group) Co., Ltd | China
Vice President

KT | South Korea
Senior Vice President, Head of KT Sustainability Management Center

Ministry of Competition and Economy Development | Russia
Minister

**Ministry of Industry,
Construction, Utilities Of
Development and Transport,
Ulyanovsk** | Russia
Minister

**Ministry of Informatization
and Communication of the
Republic of Tatarstan** | Russia
*Deputy Prime Minister,
Ministry of Information and
Communication*

**The Moscow School of
Management SKOLKOVO** |
Russia
*Head of Innovations and Digital
Research*

**Multifunction Center for
Providing the State and
Municipal Services of
Sevastopol City** | Russia
Director

Nesta | United Kingdom
*Principal Researcher at Policy
and Research Team*

**NIC (National Information
Center)** | Sudan
States Director

Sovtest Ate | Russia
Development Director

«AT Sibir» | Russia
Director

PJSC Rostelecom | Russia
Director General

Re-Imagining Cities Foundation
| South Korea
CEO

RT Labs | Russia
Project Director

RuGadget | Russia
General Director

Russian Mems Association |
Russia
Chief Development Manager

**Samara State University Of
Economics** | Russia
*Head of Department of
corporate information systems,
e-services and intelligent
information technologies*

SAP AppHaus | South Korea
Vice President

Sberbank | Russia
Director

**Secretariat General of The
Indonesian House of
Representative** | Indonesia
IT Specialist

Seoul App Business Center |
South Korea

Seoul Digital Foundation |
South Korea
Director

Siklu Communication | Russian
Representative
Business development

SimbirSoft | Ulyanovsk, Russia
Manager

**Smart City Development
Alliance (CCUD)** | China
Chairman

Social Lift | Russia
Marketing Director

Sound Diplomacy | United
Kingdom
Head of Market Development

**State Agency for Public
Service and Social Innovations
under the President of the
Republic of Azerbaijan** |
Azerbaijan
Head of Department

Strizhtelekom | Ulyanovsk,
Russia
General Director

TM Forum | United States of
America
Smart City Advisor

Ulnanotech | Russia
Project manager

Ulyanovsk State University |
Russia
*Dean of the Faculty of
Mathematics and Information
Technology*

UN Pulse Lab Jakarta |
Indonesia
Program Specialist

Yong Consulting | South Korea
CEO

Yonsei University | South Korea
*Associate Professor at
Department of Urban Planning
and Engineering*

XnTree | UK
CEO

**Xinjiang Guanghua Data
Technology Co., LTD** | China
President



GENERAL ASSEMBLY 2017

Keynote Speeches

Ulyanovsk Region, Russia



HEAD, ITU LIAISON OFFICE TO THE UNITED NATIONS

—Gary Fowlie

Gary Fowlie is the Head of the International Telecommunication Union (ITU) Liaison Office to the United Nations. ITU is the specialized agency of the UN responsible for information and communication technology.

Mr Fowlie led a UN inter-agency effort to ensure that science, technology and innovation were adopted as key catalysts for the achievement of the UN Sustainable Development Goals (SDGs). His work focused on information and communication technology (ICT) targets in the areas of education, gender equality, infrastructure (universal and affordable access to the internet) and as a means of implementation across all 17 sustainable development goals. The UN sustainable development agenda, an agreed blueprint for sustainable development in all nations, came into effect on 1 January 2016. It recognizes 'global connectivity and ICTs as having great potential for human progress.'

Mr. Fowlie steered the ITU delegation at the United Nations Conference on Housing and Sustainable Urban Development, Habitat 111, which took place in Quito, Ecuador in October 2016.

Prior to joining the UN and ITU, he worked as an Account Director for the global technology practice of the consulting firm Hill and Knowlton. At the United Nations he was responsible for the communications and marketing strategy for the UN World Summit on the Information Society. From 2005-2009 Mr. Fowlie occupied the post of Chief of Media Liaison for the United Nations in New York. He is an Economist and Journalist, having worked for the news service of the Canadian Broadcasting Corporation and The Economist.

Mr. Fowlie is a graduate of the Universities of Alberta, Alabama and the London School of Economics.



GOVERNOR OF ULYANOVSK OBLAST,
RUSSIA

—Sergey I. Morozov

Morozov Sergey Ivanovich, Governor of the Ulyanovsk region was born on September, 6th, 1959 in Ulyanovsk. After high school he worked as a machine operator at a furniture factory.

In 1977-1980 he served on the Pacific fleet. After army he worked as a mechanic at the Ulyanovsk motor-transportation enterprise, and then—as a driver.

Since 1981—he served at the law-enforcement bodies. He graduated from the All-Soviet Union law institute on specialty "jurisprudence". He made carrier from an inspector of criminal investigation in the Regional Department of Internal Affairs up to the Head of drug control special division of the Department of Internal Affairs of the Ulyanovsk region.

He was awarded «Expert officer of militia» (1986) and «For excellent service in the Ministry of Internal Affairs» badges (1993), and a medal «For impeccable service» of the third degree (1989).

In 1995 he was appointed the Chief of the Department of Internal Affairs of Dimitrovgrad.

In December, 2000 he was elected the Mayor of Dimitrovgrad. Sergey Morozov was the initiator of participation of Dimitrovgrad in regional contests

« Cultural capital of the Volga region » and «The Most well-arranged city of Russia». He participated in the development of the main city programs in the framework of these programmms. In 2003 Dimitrovgrad won the federal contest and became the Cultural capital of the Volga region-2004. The city was twice awarded special governmental prizes for successful city development.

In December, 2004 Sergey Morozov was elected the Head of the Ulyanovsk region administration. He considers stability and steady development in all spheres of life in the region to be the priorities of his work.

On March, 20th, 2006 President of the Russian Federation Vladimir Putin introduced Sergey Morozov for consideration to the Deputies of the Regional Legislative Assembly of the Ulyanovsk region for designating him to the post of the Governor of the Ulyanovsk region. On March, 28th the deputies have approved the nominee of Sergey Morozov to the position of the Ulyanovsk region Governor.

He is married and has five children: two sons and three daughters.



VICE PRESIDENT, SAP APPHAUS

—Dr. Christopher Han

Vice President, SAP Design & Co-Innovation Center, Asia

Adjunct Professor, KAIST College of Business
Education

EXPERIENCE

Stanford University, School of Engineering - MS and PhD, Management Science & Engineering
Georgetown University, School of Foreign Service – BS, Foreign Service

- 2015.07 ~ Present Vice President, SAP Design & Co-Innovation Center
- 2015.02 ~ Present Adjunct Professor, KAIST College of Business
- 2013.10 ~ 2015.06 Chief Innovation Officer, SAP Korea, Seoul
- 2011.09 ~ 2013.09 Director, Product Management, SAP Labs Palo Alto
- 2011.07 ~ 2011.09 Design Consultant, Palo Alto
- 2007.07 ~ 2011.06 User Experience Researcher, SAP Global Marketing
- 2002.09 ~ 2007.06 Teaching Assistant, Stanford School of Engineering
- 2003.09 ~ 2006.08 Risk Modeling Researcher, Daimler-Stanford Project
- 2003.03 ~ 2003.08 Work Systems Researcher, GM Work Systems Lab
- 1996.01 ~ 2001.04 Manager, Product Marketing, Applied Materials, Inc.

EXTERNAL TALKS

Christopher recently delivered a talk on the topic of design thinking and innovation for the TV show called "Good Insight" (2016.07) produced by KBS – Korea's largest broadcast company. He has also given interviews for broadcast TV, such as "The Leader" program by Money Today (2014.03) for newspapers and magazines, such as the Korea Herald (2016.08) and Design magazine (2015.03). Christopher has delivered talks to executives at DuluxGroup (Australia), Tata Motors and Asian Paints (India), Lenovo (China), Samsung, LG, Doosan, POSCO, and SK Telecom to list a few and to non-profit organizations such as the Korean CEO's Association of Multinational Corporations (KCMC). He has also lectured at Seoul National University, Korea University, and Yonsei University in addition to teaching a course on Design Innovation at KAIST College of Business.

World Mayors Roundtable

Vision and Leadership Driving Smart and Sustainable Cities and Regions

The World Mayors Roundtable will be a high-level conversation where Mayors and Vice Mayors, Governors and Vice Governors from around the world will gather to discuss specific issues on the way forward to a smart and sustainable future. A smart sustainable city refers to an innovative city that leverages technology and innovation potentials to improve quality of life, efficiency of urban operation and services and competitiveness, while ensuring economic, social and environmental sustainability. The quality of leadership and governance, together with well-

defined vision and strategy, are needed to drive the smart sustainable city outcomes. Interactive and open dialogues with their distinguished peers and invited experts will help the present city executive leaders build their smart sustainable city vision and roadmaps.

The session will be divided into three main parts:

1. Special Presentation by the Ulyanovsk Region
2. Introduction of WeGO Thematic Clusters
3. City Case Presentations

Accra | Ghana

Mr. Mohammed Adjei Sowah
MAYOR

Addis Ababa | Ethiopia

Mr. Abate Sitotaw Fenta
VICE MAYOR

Bangkok | Thailand

Mrs. Wanvilai Promlakano
DEPUTY GOVERNOR

Beyoğlu | Istanbul, Turkey

Mr. Erol Okten
VICE MAYOR

Bishkek | Kyrgyzstan

Mr. Melis Djunushaliev
HEAD OF STAFF (VICE MAYOR)

Blantyre | Malawi

Mr. Wild James Ndipo
MAYOR

Cheboksary | Russia

Mr. Alexey Maklygin
DEPUTY HEAD OF ADMINISTRATION

Colombo | Sri Lanka

Mr. Heiyantuduwage Dona Chandima Janaki
DEPUTY MUNICIPAL COMMISSIONER

Daegu | South Korea

Mr. Seung-su Kim
VICE MAYOR

Dhulikhel | Nepal

Mr. Mahesh Baral
EXECUTIVE OFFICER

Donga | Nigeria

Mr. Nashuka Ipeyen Musa
EXECUTIVE CHAIRMAN

Galle | Sri Lanka

Mr. Kumara Dhammika Maha Muhandiramge
ACTING DEPUTY MAYOR

Gassol | Nigeria

Mr. Yahuza Yaya'u
EXECUTIVE CHAIRMAN

Goyang | South Korea

Mr. Sung Choi
MAYOR

GwangMyeong | South Korea

Mr. Chun Pyo Lee
VICE MAYOR

Istanbul | Turkey

Mr. Hayri Baraçlı
SECRETARY GENERAL

Jalingo | Nigeria

Mr. Abdulnasir Bobboji
EXECUTIVE CHAIRMAN

Kabul | Afghanistan

Mr. Abdullah Jan Habibzai
ACTING MAYOR

Kampala | Uganda
Dr. Jennifer Semakula Musisi
 EXECUTIVE DIRECTOR

Karachi | Pakistan
Mr. Wasim Akhtar Khan
 MAYOR

Karim-Lamido | Nigeria
Mr. Idi Marlli Danfulani
 EXECUTIVE CHAIRMAN

Kigali | Rwanda
Mr. Parfait Busabizwa
 VICE MAYOR

Kostroma | Russia
Ms. Olga Voronina
 DEPUTY HEAD OF ADMINISTRATION

Kurmi | Nigeria
Mr. Stephen Ibrahim
 EXECUTIVE CHAIRMAN

Kursk Region | Russia
Mr. Viktor Chernyh
 DEPUTY GOVERNOR

La Union Province | Philippines
Mr. Francisco Emmanuel Ortega
 GOVERNOR

Magas | Russia
Mr. Beslan Tsechoev
 MAYOR

Minsk | Belarus
Mr. Viktor Laptseu
 DEPUTY CHAIRMAN

Miraflores | Peru
Mr. Israel Orlando Acuña Wong Coquis
 DEPUTY MAYOR

Moratuwa | Sri Lanka
Mr. Chandana Mannapperuma
 MUNICIPAL COMMISSIONER

Nalchik | Russia
Mr. Arsen Alakaev
 HEAD OF ADMINISTRATION

Nandi County | Kenya
Mr. Cleophas Kiprop Lagat
 GOVERNOR

Oktyabrsky | Russia
Mr. Alexey Shmelev
 HEAD OF ADMINISTRATION

Omsk | Russia
Mr. Alexey Menshov
 DEPUTY MAYOR

Pangkalpinang | Indonesia
Mr. Muhammad Irwansyah
 MAYOR

Peshawar | Pakistan
Mr. Muhammad Asim Khan
 MAYOR

Pokhara | Nepal
Mr. Dirgha Narayan Paudel
 MAYOR

Querétaro | Mexico
Mr. Marcos Aguilar Vega
 MAYOR

Samara | Russia
Mr. Oleg Fursov
 MAYOR

Sardauna | Nigeria
Mr. John Yep Bayep
 EXECUTIVE CHAIRMAN

Seberang Perai | Malaysia
Mr. H'ng Mooi Lye
 COUNCILLOR

Sejong | South Korea
Mr. Junhyeon Kang
 VICE MAYOR

Seoul | South Korea
Mr. Won Soon Park
 MAYOR

Sri Jayawardenapura Kotte | Sri Lanka
Mr. Janaka Ranawaka Arachchige Don
 MAYOR

Sterlitamak | Russia
Mr. Vladimir Kulikov
 HEAD OF ADMINISTRATION

Taipei | Taiwan
Mr. Chin-rong Lin
 DEPUTY MAYOR

Takum | Nigeria
Mr. Yohanna Tikari Shiban
 EXECUTIVE CHAIRMAN

Tangerang Selatan | Indonesia
Mr. Benyamin Davnie
 VICE MAYOR

Tashkent | Uzbekistan
Mr. Nozim Khusanov
 DEPUTY MAYOR

Tatarstan | Russia
Roman Shaykhutdinov
 DEPUTY PRIME MINISTER,
 MINISTRY OF INFORMATION
 AND COMMUNICATION

Tegucigalpa | Honduras
Mr. Juan Carlos García Medina
 VICE MAYOR

Thimphu | Bhutan
Mr. Kinlay Dorjee
 MAYOR

Tshwane | South Africa
Mr. Tshepiso Solly Msimanga
 EXECUTIVE MAYOR

Ufa | Russia
Mr. Rustem Gazizov
 VICE MAYOR

Ulyanovsk Region | Russia
Mr. Sergey I. Morozov
 GOVERNOR

Yorro | Nigeria
Mr. Ahmed Masho
 EXECUTIVE CHAIRMAN



Ulyanovsk Region | Russia

SERGEY I. MOROZOV | *Governor*

Smart region

"Smart region" is a concept of innovative development of cities and districts of the Ulyanovsk region on the basis of the introduction information and communication technologies (ICTs) into various spheres of life in order to accelerate the development of territories and improve living standards of citizens. This is the concept of adapting «Smart city» technologies for all municipalities in the Ulyanovsk region and developing the digital economy in the framework of smart regional specialization. This is concept of formation of a pilot site in the Ulyanovsk region for the development and implementation of high-tech solutions for smart cities in Russia.



Querétaro | Mexico

MARCOS AGUILAR | *Mayor*

Querétaro Ciudad Digital

The master plan "Querétaro Ciudad Digital" was designed by the Municipality to contribute a huge amount of initiatives that seek to supply more and better digital services. The main axes of this plan are: internet in the city, online services, the app "Querétaro ciudad digital" to improve communication between government and citizens, and place Querétaro as an innovative city. The municipality also has more projects to develop by taking advantage of technology.



Sejong | South Korea

JUNHYEON KANG | *Vice Mayor*

Sejong Smart City Project

The goal of Sejong Smart City is to construct an eco-friendly, sustainable urban environment by converging ICT and eco-friendly technologies, and eventually improve the quality of life of our residents and our urban competitiveness.

Sejong Smart City is a three-phased ubiquitous-service construction project to be completed by 2030. We are building a 411 km-long ultra-high speed private communication network throughout the city with the Sejong Smart City Center located at the heart as the control tower.

The prominent u-services of Sejong Smart City are safety, disaster prevention, transportation, and environment service.

This is our plans for the future. In preparation for the 4th industrial revolution, the city is planning online-to-offline policies in the interest of services that are personalized for citizens through the processing and optimizing of data collected offline.



Tshwane | South Africa

TSHEPISO SOLLY MSIMANGA | *Executive Mayor*

World CIO Forum

The Role of the CIO in the Era of Smart Sustainable Cities

The World CIO Forum is a unique venue for CIOs from cities of varying sizes and stages of development to come together and share their key insights on the importance of a CIO's role as cities strive to become "smart". CIOs will be able to discuss and compare how they encourage innovation and entrepreneurship in their respective cities; how they work alongside other city departments, the national government, and the private sector; and how they can use ICT to fulfil the Sustainable Development Goals (SDGs) and meet the New Urban Agenda.

MODERATOR

Mr. Tom Symons,
Principal Researcher, Policy and Research Team
Nesta

PRESENTATIONS

Citizen 360

Mr. Oscar Escobar
Director, Information Technologies Department
Cali, Colombia

How Jakarta Becomes an Open City

Mrs. Dian Ekowati
Head, Communication, Informatics, and
Statistics Department
Jakarta Capital City Government, Indonesia

Smart Jerusalem

Mr. Eitan Barzilay
Chief Business Development & Innovation
Officer
Jerusalem, Israel

Top-down Approach to Smart Development: Challenges and Solutions

Mr. Evgeny Kozlov
Deputy Head of the Mayor of Moscow
Staff Office
Moscow City Government, Russia

HR Policy in the Sphere of IT the Ulyanovsk Region

Ms. Svetlana Openysheva
Director, RSPI "Government for Citizens"
Ulyanovsk Region, Russia



Accra | Ghana

**MR. EMMANUEL KORKWEI
CLOTTEY**

*Chief Technology Advisor,
Accra Metropolitan Assembly*



Addis Ababa | Ethiopia

MR. TESFAYE GEBRESLASSIE

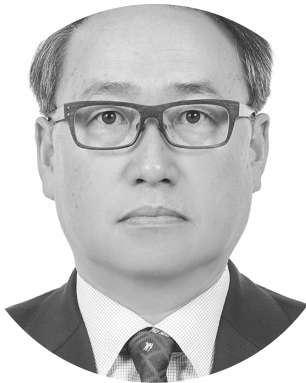
*General Director, Information
Communication Technology
Development Agency*



Beyoğlu | Turkey

MR. FURKAN YAVUZ

*Director, Information
Technology*



Daegu | South Korea

MR. SHI-HYUN JEON

*Director, Information
Management Division*



Hebron | Palestine

MR. OSAMA M. A. DWAIK

*Manager, Information
Technology*



Jakarta | Indonesia

MRS. DIAN EKOWATI

*Head, Communication, Informatics,
and Statistics Department*



Krasnodar | Russia

MR. EVGENY PROKHOROV

*Head, Information Technology
Department*



Maputo | Mozambique

**MS. ADELAIDE BEATRIZ LEMOS
SOUTO**

*Director, Information System
Management*



Mexico City | Mexico

MR. ISMAEL VILLEGAS

*General Director, Governance
of ICT*



Bishkek | Kyrgyzstan

MR. AZAMAT SAMAGANOV

Acting Head, Informational
Technologies Sector



Cali | Colombia

MR. OSCAR ESCOBAR

Director, Information
Technology Department



Da Nang | Vietnam

MR. QUANG THANH NGUYEN

Director, Information and
Communication



Jerusalem | Israel

MR. EITAN BARZILAY

Chief Business Development &
Innovation Officer



Khanty-Mansiysk | Russia

MR. PAVEL TSIPORIN

Director, Department of
Information Technology



Kostroma | Russia

MR. EVGENII MORIAIKOV

IT Director, Department of
Information Resources and
Communications



Montevideo | Uruguay

ING. CARLOS EMILIO LEONCZUK
MINETTO

Manager, Information
Technology



Moscow | Russia

MR. EVGENY KOZLOV

Deputy Head of the Mayor of
Moscow Staff Office



Nairobi | Kenya

MS. BENTER OGOT

Director, ICT



Omsk | Russia

MR. IGOR KATUNIN

*Director, Management
of Information and
Communication Technologies*



Quezon | Philippines

MR. REYNALDO PAUL IMJADA

*Head, Information Technology
Development Department*



Rio de Janeiro | Brazil

MR. FÁBIO PIMENTEL DE CARVALHO

President - Director, IPLANRIO



Tolyatti | Russia

MS. ELENA BALASHOVA

*Head, Department of
Information Technology and
Communication*



Ulyanovsk Region | Russia

MS. SVETLANA OPENYSHEVA

*Director, RSPI "Government for
Citizens"*



Veracruz | Mexico

MR. MAURICIO GARCIA

*Director, Department of
Innovation and Digital &
Electronic Government*



Seoul | South Korea

MR. YOUNGHOON CHOI

—
Chief Information Officer



Tangerang Selatan |
Indonesia

MR. ISMUNANDAR

—
*Head, Department of
Communications and
Informatics*



Tashkent | Uzbekistan

MR. MAKHMUD ASAMOV

—
*Director, Computerization
Center*



Vladivostok | Russia

MR. EVGENIY VEKOVSHININ

—
Head, Information Technology



Voronezh | Russia

**MR. ALEXANDR NIKOLAEVICH
SKOROBOGATOV**

—
Head, Information Technology

Sessions / Speakers

Session 1: The Road to Smart Sustainable Cities

Session 2: Open Innovation and Living Labs for Smart Cities

Session 3: Internet of Things (IoT), Big Data and Analytics

*Session 4: Smart and Low-carbon Cities:
the impact of digitalization on the
urban infrastructure*

*Session 5: Challenges and Solutions in Smart
City Governance and Financing*

Session 6: Smart Cities and Regions in Russia

Session 1

The Road to Smart Sustainable Cities

Sustainable Smart Cities are an attainable goal, but one that requires more than just sophisticated ICT and advanced infrastructures. To achieve truly sustainable smartness, cities require well-defined objectives and sustained political vision and will. To transform into a city that optimizes the environment, economy, and society in all three phases, cities need cogent definitions, Key Performance Indicators, and stakeholder collaboration.

This session will feature experts from both civil society and cities. Conceptual background on Smart Sustainable City will be given, and a model for measuring and benchmarking Smart Sustainable Cities will be introduced. Several cities will present upon their case studies as well as a corporation which has committed itself to sustainability in cities and the civil society perspective will also be given.

CHAIR:

Ms. Mijung Kim
CEO
Yong Consulting

PRESENTATIONS

The Road to Smart Sustainable Cities: an Overview

Ms. Mijung Kim
CEO
Yong Consulting

Smart City Benchmarking and City Case Studies

Mr. Paul Wilson
Smart City Advisor
TM Forum

Global Trends in Smart, Sustainable Cities

Mr. Chungha Cha
Founder and Chair
Re-Imagining Cities Foundation

Dudeuriso: An Integrated Portal for Petitions, Suggestions and Call Center Services

Mr. Seung-su Kim
Vice Mayor
Daegu Metropolitan City, South Korea

Smart Dubai 2021 - Towards Becoming the Happiest City on Earth

Dr. Okan Geray
Strategic Planning Consultant
Smart Dubai Office, UAE

GiGA story

Ms. Sunjoo Lee
Senior Vice President, Sustainability
Management Center
KT



CHAIR MODERATOR

Yong Consulting | South Korea

MIJUNG KIM

—
CEO YONG Consulting

e-mail: mjkim@yongsni.com

The Road to Smart Sustainable Cities: an Overview

In recent years, all the local government and cities have witnessed the evolution of Smart Government, Smart City, and ICT Technology. For all cities, it is essential to have institutional capacity to conduct integrated development planning with ICT technology for Smart City development,

focusing on the “Sustainability” of Smart City for social protection, jobs and economic growth, and access to basic services; an lever increase overall quality of citizen life.



TM Forum

PAUL WILSON

—
TM Forum Smart City Advisor

e-mail: pwilson@tmforum.org

Smart City Benchmarking and City Case Studies

Cities are unique and, at the same time, have many similar requirements. The smart cities movement will accelerate when it learns how to work together to build scale and replicability, that also accommodates each cities’ differences. TM Forum has worked with WeGO, Open & Agile Smart Cities, Smart Cities Council, Smart Cities Standards Institute, Shanghai Academy, City Protocol Society, Future Cities Catapult, and others to develop a smart city maturity benchmark app, to help cities form a common approach to smart city strategy. This talk will explain the how

the benchmark works, and provide case studies from several cities that have used it.



Re-Imagining Cities Foundation | South Korea

CHUNGHA CHA

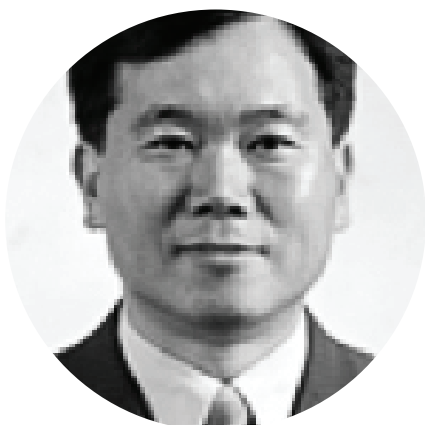
Founder and Chair of Re-Imagining Cities Foundation

e-mail: cha@re-cities.org

Global Trends in Smart, Sustainable Cities

It's not only about Climate Change. It is true that cities account for 70-80% of global energy consumption and GHG emissions. And, therefore, we need our cities to drastically reduce their GHG emissions to help solve our energy and climate crises. However, our challenges are much more than that. With exploding population growth and millions of people migrating to cities each year, the complexities are further compounded. Energy, pollution, water, waste, food, affordable

housing, transportation, education and job growth are only some of the major challenges cities face. We need to re-imagine "smart, sustainable cities" as a comprehensive framework and roadmap to achieve the triple bottom line of sustainability: people, planet, profit. How can we do that? How can we use public-private partnerships to accelerate smart city initiatives? How can we attract global talent and corporations to help drive economic growth? What do cities need to do?



Daegu Municipality | South Korea

SEUNG-SU KIM

Vice Mayor of Daegu Metropolitan Government

Dudeuriso: An Integrated Portal for Petitions, Suggestions and Call Center Services

Dudeuriso is a means of communication through which citizens of Daegu can have their petitions acknowledged and resolved at any time.

The city of Daegu launched the project in June 2015 and inaugurated "Dudeuriso" in December.

The workflow at Dudeuriso is the following: when a citizen submits simple petitions via phone calls, internet, and/or smart phones, the call center will immediately process and handle these. For the complex petitions the operations team will assign the relevant division and monitor the processing results. The relevant

division will provide notification of the results within a set time limit via inter-department cooperation. The processing of the petition at each stage will be shared with the petitioners via text messages or emails and user satisfaction surveys will be conducted. The Post Investigation Team will reinvestigate petitions that were deemed, via feedback, to have been resolved in an unsatisfactory manner.

With the implementation of "Dudeuriso", administrative efficiency and reliability as well as citizens' satisfaction has increased.



Smart Dubai | UAE

DR. OKAN GERAY

Strategy Planning Consultant for Smart Dubai Office

e-mail: Okan.Geray@smartdubai.ae

Smart Dubai 2021 - Towards Becoming the Happiest City on Earth

This talk will present the Smart Dubai initiative and its upcoming 5-year strategy highlighting, its vision, strategic objectives, strategic performance measurement and governance aspects along with sample initiatives highlighting some of the achievements.



KT | South Korea

SUN JOO LEE

Senior Vice President of Sustainability Management Center

GiGA Story

The "GiGA Story" is a community development project that aims to improve the living conditions of residents of remote or isolated regions. The project is not a joint entry but is based on close cooperation with public sectors and local community. GiGA Story leverages advanced network technology and ICT solutions

to improve the fundamental quality of life of rural communities in terms of education, healthcare, productivity, safety and more. In public-private partnership, KT has enabled access to super-fast and high-quality broadband services in rural areas and managed ICT-based social programs with the help of local government.

Session 2

Open Innovation and Living Labs for Smart Cities

As city problems are becoming more diverse and complex, governments are moving towards Open Innovation to bring all city stakeholders together to participate in developing and revolutionizing the city. Open Innovation focuses on a decentralized approach to innovation as it has become apparent that knowledge and expertise cannot be found solely within the government, but is widely distributed to various sectors of society. It values the importance of a collective effort from various actors and stakeholders to successfully innovate and overcome the overwhelming challenges that cities currently face and will be facing in the future.

Seeing the positive results of Open Innovation, cities have taken an even more proactive approach by developing Living Labs to further encourage and drive innovation. These Living Labs serve as a space for multiple stakeholders to collaborate,

work, and develop solutions to city challenges, with the government providing the necessary support to fund these ideas and bring them to fruition. Through these Living Labs, governments and other city stakeholders have co-created solutions from the ground up, cutting the costs and time it usually requires to develop a groundbreaking city project.

The session will demonstrate how various cities encourage Open Innovation, as well as the struggles they faced in realizing it. Actual results from various Living Labs will also be presented to encourage the audience to develop a similar setup in their respective cities. It will feature presentations from different city stakeholders to fully illustrate the importance of multisectoral cooperation in the implementation of Open Innovation and Living Labs.

CHAIR:

Mr. Tom Symons
Principal Researcher, Policy and Research Team
Nesta

PRESENTATIONS

Smart Cities from the Ground Up

Mr. Tom Symons
Principal Researcher, Policy and Research Team
Nesta

Living Labs: Key to Smart City Success

Mr. Chungha Cha
Founder and Chair
Re-Imagining Cities Foundation

4th Industrial Revolution, the Definition of Smart City and Innovation

Mr. Jaewon Peter Chun
CEO
XnTree

From User Involvement to Place-based Sustainability Experiments: Exploring the Emergence of "Living Labs" in Korea

Dr. Marc Wolfram
Associate Professor, Department of Urban Planning and Engineering
Yonsei University

Understanding the Value of Music and Night Culture in a City as a Living Lab Experiment

Mr. Danny Keir
Head of Market Development
Sound Diplomacy



CHAIR MODERATOR

Nesta | UK

TOM SYMONS

*Principal Researcher, Policy and Research Team
Nesta*

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Smart Cities from the Ground Up

This presentation will provide the context for a more open and human-centric approach to smart cities. The emergence of living labs and open innovation will be situated in broader trends which have seen city governments around the world bring people and communities into the development of smart cities. It will focus on Nesta's research into smart cities and other projects which have considered related issues such as the use of data analytics by governments, citizen sensing,

collective intelligence, tools for digital democratic engagement, and the value of decentralized data ownership and open data commons. Examples of leading-edge city governments will be provided along with lessons for success and key questions found in Nesta's research. This will be the backdrop for the subsequent presentations about living labs and open innovation.



**Re-Imagining Cities Foundation |
South Korea**

CHUNGHA CHA

*Founder and Chair of Re-Imagining Cities
Foundation*

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Living Labs: Key to Smart City Success

Up until recently, most investments in smart cities have been relatively small, experimental projects and did not necessarily generate the value sometimes claimed for smart cities. Smart Cities 1.0 created vertical "data silos" and failed to scale or demonstrate real benefits. The emergence of "Smart Cities 2.0" or what we term "Living Labs" is quite different in that investments focus on creating platforms for data access, sharing and data analytics to achieve defined objectives of social,

environmental and economic sustainability. A city that connects multiple, inter-operable platforms into a "Living Lab" to well defined smart sustainable city goals and target metrics can kick-start a broad, dynamic technology ecosystem, attracting global talent and investments to accelerate technological innovation, drive economic growth and nurture future oriented jobs.



XnTree | South Korea
JAEWON PETER CHUN

XnTree CEO

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4th Industrial Revolution, the Definition of Smart City and Innovation

The meaning of the 4th Industrial Revolution from the diverse perspectives
The correlation of the startups, innovation and Smart Cities
The strategy how to prepare for the change - Industry, Government, and University

Regulation and deregulation in the era of 4th Industrial Revolution
XnTree's achievement in London and Europe regarding Smart City
XnTree's Smart City Platform in Asia project



Yonsei University | South Korea
DR. MARC WOLFRAM

*Associate Professor, Department of Urban Planning and Engineering
Yonsei University*

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From User Involvement to Place-based Sustainability Experiments: Exploring the Emergence of “Living Labs” in South Korea

This contribution reviews the emergence and proliferation of “living labs” in South Korea as a tangible outcome of a more recent participatory turn in public policy. While the concept of “living lab” has been adopted in Korea from the corresponding international science and policy discourse, its actual interpretation varies substantially in terms of lab constitution, orientations and methodology. Based on the analysis of a total of 29 living labs identified until May 2017, it appears that these can be classified

by two independent variables; a) driving agency (beneficiary, enabler, user), and b) spatial context (city, community, building, non-place), while other characteristics are largely conditioned by these. The results also point to particular weaknesses and strengths regarding the potential impacts of Korean living labs on urban sustainability, suggesting that there is a need to quickly move on from structured user involvement in social problem solving towards embedding place-based and holistic sustainability experiments.



Sound Diplomacy | UK

DANNY KEIR

—
*Head of Market Development
Sound Diplomacy*

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Understanding the Value of Music and Night Culture in A City as a Living Lab Experiment

To understand the value of music and night culture in a city, we must first define the ecosystem. We must explain what the ecosystem is and map the infrastructure and stakeholders responsible for maintaining the ecosystem. In order to manipulate and support it, we need to first understand it.

Then we measure it against who lives there, to see how music is best optimized and what is needed/missing and where its strengths and

weaknesses lie. Through measurement comes policy and optimization and the recognition of it as an economy and a living lab within a city.

Session 3

Internet of Things (IoT), Big Data and Analytics

Forefront of the 4th Industrial Revolution is IoT and the potential impact it has for data usage in Smart Cities. While massive quantities of data are being collected by this technology, substantial challenges arise: cooperation among stakeholders both private and public, the ethical concerns of collecting specific forms of data, and how to transition to effective policy change from such data.

This session will feature experts from both cities and civil society providing insight on 4 aspects of the IoT and Big Data Revolution: the Internet of Things, Data Analytics, stakeholders in a Smart City's data management, and finally, the qualitative human aspect of this data. Within the panel discussion, future developments in this field, such as Artificial Intelligence (AI) will be covered.

CHAIR:

Ms. Mellyana Frederika
Programme Specialist of UN Pulse Lab
Jakarta, Indonesia

PRESENTATIONS

Internet of Things (IoT), Big Data and Analytics: Journey on Generating Actionable Insights

Ms. Mellyana Frederika
Programme Specialist
UN Pulse Lab Jakarta, Indonesia

Resolving Urban Challenges and Improving Transparency of Seoul City through Big Data

Mr. Kiwan Lee
Director of Information Planning Department
Seoul, South Korea

Digital Revolution Shaping the Future of Smart City

Mr. Eldar Tuzmukhametov
Head of Smart City Lab of Moscow Government
Russia

Jerusalem's Smart City Projects

Mr. Eitan Barzilay
Chief Business Development & Innovation
Officer
Jerusalem, Israel

Socio-economic Benefits from Big Data for Smart City

Mr. Mikhail Bunchuk
Program Coordinator, Transport & ICT Global
Practice
World Bank

Artificial Intelligence, Banking (Digital Finance) and Cities (Smart Cities)

Mr. Josh Choi
ITU, Switzerland



CHAIR MODERATOR

UN Pulse Lab Jakarta | Indonesia

MELLYANA FREDERIKA

Programme Specialist UN Pulse Lab Jakarta

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Internet of Things (IoT), Big Data and Analytics: Journey on Generating Actionable Insights

Smart cities technology is on the rise, promising a more efficient services with the availability of real-time data on a wide range of aspect related to citizen quality of life. Data revolution has arrived and it is a new gold. I will explore the journey from human-generated data into machine-generated

data, where IoT devices installed and urban dashboard proliferated in cities worldwide. An understanding of human behaviour is required to uncover actionable insights, and avoid getting lost in this ocean of data. Only then, city become more responsive and accountable to its citizen



Seoul Metropolitan Government |
South Korea

KIWAN LEE

Director for the Information Planning Division

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Resolving Urban Challenges and Improving Transparency of Seoul City through Big Data

There are many issues facing the cities, including welfare, economy, transportation, and climate. Cities should consider diverse factors to address the issues.

In 2013, Seoul city decided to run the buses after midnight and leveraged big data to design the optimized routes of the post-midnight buses. First, Seoul city divided the city area into 1,252 hexagons and successfully optimized the routes of post-midnight buses by analyzing the mobile phone call data in each hexagon to predict the probability of citizens' movement in post-midnight hours. The project was significant since it used the big data produced in a metropolitan city to address the daily issues of its citizens.

In 2017, Seoul city built "The Digital Office for Citizens and Mayor Platform", an interactive screen and visual data, to help our mayor and citizens comprehend the overall work of the Seoul Metropolitan Government. Basically, we structuralize and visualize the data about city which is fragmentarily scattered across departments and provides it through a big interactive screen in the Mayor's Office and city homepage. By providing its citizens the same data which the Mayor of Seoul sees to comprehend the overall work of Seoul, the Seoul Metropolitan Government gets better and more accurate feedback from its citizens and increases its transparency and accountability.



Smart City Lab Moscow | Russia
ELDAR TUZMUKHAMETOV

Head of Smart City Lab of Moscow Government

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Digital Revolution Shaping the Future of Smart City

Up until recently, most investments in smart cities have been relatively analytical to achieve defined objectives of social, environmental and economic sustainability, global talent, and investments to accelerate technological innovation, drive economic growth and nurture future oriented jobs.



Jerusalem | Israel
EITAN BARZILAY

Chief Business Development & Innovation Officer

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Jerusalem's Smart City Projects

Jerusalem has employed high bandwidth wireless alternatives to fiber optics as the geology of the city was unsuitable. This has allowed for them to deploy IoT for numerous applications such as

parking, traffic control, Wi-Fi, and high bandwidth access to schools. These technologies also have applications that have improved the safety of the city.



World Bank |

MIKHAIL BUNCHUK

Program Coordinator, Transport & ICT Global Practice, World Bank

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Socio-economic Benefits from Big Data for Smart City

Big data is a term describing the constantly increasing flows of data emitted from connected individuals and things, as well as a new generation of approaches being used to deliver value from these data flows. The widespread use of big data is an essential part of what constitutes the digital economy, which itself can be defined as a new social and economic development paradigm based on real-time data exchange. It is in the urban environments that big data innovations are especially prominent; to a significant extent,

a discussion of Smart Cities is a discussion on leveraging big data. In my presentation, I provide an overview of the big data applications in the Smart City context in such areas as transport management, citizen feedback, fighting city crime. In doing so, I draw upon the experience of World Bank's big data program. Based on these examples and case studies, I make some conclusions on how best to maximize social and economic benefits from big data for Smart Cities.



ITU | Switzerland

JOSH CHOI

Programme Coordinator of the Telecommunication Standardization Bureau

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Artificial Intelligence, Banking (Digital Finance) and Cities (Smart Cities)

Session 4 [ICLEI Session]

Smart and Low-carbon Cities: The Impact of Digitalization on the Urban Infrastructure

In the past years the topic of the smart cities has been continuously featuring high on the political agenda. In China smart and low-carbon cities have been considered as the model for Chinese cities to address urban issues caused by rapid urbanization and population growth. Europe has been leading the smart city development with new technologies and services in the areas of energy, transport and ICT. However, there is still a long way to go before the potential of the digitalization becomes fully realized in the urban setting, and the benefits for a low carbon footprint will become visible.

There are a number of reasons for that, like the lack of standards for data protocols and interfaces which hinders a high connectivity between different devices and infrastructures. This also led to a lot of caution in order to avoid high costs and

technology log-ins on the city of public and private investors. But it is obvious that the digitalization has the enormous potential to realize low-carbon cities. The implementation needs to be accelerated in order to make energy system more efficient with higher shares of renewable energy, to reduce air pollution, to manage resources like water in a sustainable way, to create user-friendly and green public transport and ultimately to improve the quality of life of citizens.

The session will present solutions that have been implemented in China and Europe to develop smart and low-carbon urban infrastructure. It will also explore the most promising approaches and potential obstacles to be overcome for smart and low-carbon city development.

CHAIR:

Mr. Wolfgang Teubner
Regional Director for Europe, ICLEI

PRESENTATIONS

Innovation in Smart Cities: Bike Share

Mr. Tie Li
China Center for Urban Development (CCUD)
China

Developing Urban Power Grids using the Smart Grid Technologies

Mr. Rustem Gazizov
Vice Mayor of Ufa City
Bashkortostan Republic, Russia

Deeping of the Construction of Smart City in the Age of Internet

Mr. Jiang Tiebing
Vice Secretary General, Wuhan City, China

Smart solution in City Transportation

Mr. Grzegorz Boroń
Director, Department of Integrated
Development, Bydgoszcz, Poland

The Impact of Citizen Governments through Digitalization

Mr. Miguel Arana Catania
Director of the Citizen Participation
Project, Madrid City, Spain

Smart Solution for Secure Transportation

Mr. Andy HyunJoo Lee
Global Business Group, Executive Director,
KT, South Korea



CHAIR MODERATOR

ICLEI | Europe

WOLFGANG TEUBNER

—
Regional Director for Europe, ICLEI

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Wuhan | China

TIE LI

—
China Center for Urban Development (CCUD)

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Innovation in Smart Cities: Bike Share

Shared bikes have been sweeping across many cities in China. Such innovative mode of mobility is not only low-carbon and eco-friendly, but convenient for the public to resolve the last-

mile problem. It is an innovative practice of smart cities that truly realizes sustainable development in China with a market-driven approach.



Bydgoszcz | Poland

GRZEGORZ BORON

Director, Department of Integrated Development, Bydgoszcz, Poland

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Smart Solution in City Transportation

The Intelligent Transportation System (ITS) project collects and makes use of data from various IoT devices in order to improve public transportation, facilitate traffic at traffic crossings, and optimize public parking spaces downtown. Self-service bike rentals provide an affordable and environmentally sustainable 24/7 transportation option at 37 locations. Additionally it helps to alleviate traffic congestion. Smart public transportation cards allows riders to pay for transportation quickly and conveniently. Finally,

smart street lighting saves energy and ensures that streets are adequately lit and safe for both traffic and pedestrians.

In addition to immediate energy savings from the street lighting systems, the program has been particularly successful in the usage of the bike rental system, which had over 35,000 users registered in 2016. Expansion of the ITS is planned as well as an increase in bike rental and park and ride locations.



Wuhan | China

JIANG TIEBING

Vice Secretary General, Wuhan City, China

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Deepening of the Construction of Smart City in the Age of Internet

Smart City is a strategic path and an important characteristic of urban modernization, while "Internet Plus" is a new engine for smart city construction. Wuhan is a central city in Central China with a resident population of 11 million and a pilot for smart city construction in the first batch in China. To build a smart Wuhan, we have compiled and implemented the Overall Planning of Wuhan for Smart City, made great efforts to

move ahead with the "Internet Plus Action Plan" and relied on smart city construction to lead urban development and lift management and service effectiveness. We have implemented a batch of pilot and demonstration projects in fields of smart administration, smart city management, smart transport, smart life, etc., to greatly advance construction of infrastructure, application system and supporting industries for smart city.



Madrid | Spain

MIGUEL ARANA CATANIA

Director of the Citizen Participation Project, Madrid City, Spain

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The Impact of Citizen Governments Through Digitalization

Two years ago new kinds of citizen political parties won the elections of every major city in Spain. A special focus was set on digitalization of the political structure, producing a huge impact on the dynamics of the cities. The findings of that period will be shown, and how can be applied to other institutions worldwide.



KT | South Korea

ANDY HYUNJOO LEE

Global Business Group, Executive Director, KT, South Korea

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Smart Solution for Secure Transportation

Due to the fast development of IoT & Big Data technology, Smart city solution will bring together government and citizen to give its benefits on how smart technology can be used to improve the lives of citizen. The Intelligent Transportation System (ITS) is not an exception.

KT will introduce more secured ITS service including LED street lighting solution.

Session 5

Challenges and Solutions in Smart City Governance and Financing

To deal with the challenges of urbanization, the need to recognize the multi-stake role of the private and public sector in the delivery of smart city infrastructure and services is critical. It is no longer merely the jurisdiction of national, regional and city governments to deliver solutions in smart city governance and financing. Working in isolation and with a “business as usual” approach is no longer viable. The private-sector contribution is increasingly required for all aspects of the urban value chain, including governance as well as the financing of smart city initiatives. Additionally, as stipulated in the New Urban Agenda as part of the UN Sustainable Goals during UN Habitat III, the key components both address the need to

provide strategic direction on both governance and financing:

- Governance: The outcomes in terms of quality of urban settlement and smart city development depend on the set of rules and regulations that are framed and made effective; strengthening legislation, providing predictability, risk mitigation and directive to the urban development plans to enable social and economic progression
- Financing: Establishing effective financing frameworks, enabling strengthened municipal and private sector finance and local fiscal systems to create, sustain and share the value generated by sustainable urban development

CHAIR:

Carlos de Freitas
Co-Director, FMDV (Global Fund for
Cities Development)

PRESENTATIONS

The Impacts of Smart Technologies in the Municipal Budget

Carlos de Freitas
Co-Director, FMDV (Global Fund for
Cities Development)

Smart City Implementation in Kampala

Dr. Jennifer Semakula Musisi,
Executive Director,
Kampala, Uganda

Convergence between Gwangmyeong Cave and Digital Media Technology

Mr. Chun-pyo Lee
Vice-mayor
GwangMyeong City, South Korea

The Revolution of Smart City Governance through Digital Direct Democracy

Mr. Miguel Arana Catania
Director of the Citizen Participation Project,
Madrid City, Spain

Smart City Governance and Financing in Baguio City

Ms. Leticia Clemente
City Budget Officer, City Government of
Baguio, Philippines

Burgh's Eye View: Making City Data Accessible

Mr. Robert Burack
Harvard Ash Fellow, Department of Innovation
& Performance
Pittsburgh, USA



CHAIR MODERATOR

FMDV | France

CARLOS DE FREITAS

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The Impacts of Smart Technologies in the Municipal Budget: Increase Revenue and Reduce Expenses for Better Public Services

The presentation will focus on illustrating, through concrete solutions experienced in cities from developing, emergent and developed countries, how smart solutions can impact local finance and support municipalities to increase revenues and/or efficiency in its services and infrastructures delivered to its population and users. This is the result of a 1 year research work

implemented by Uraia, a platform created by FMDV ñ the unique Alliance of Local Governments dedicated to promoting and developing solutions to finance urban development- and UN-Habitat around smart technologies and compiled in a dedicated publication that can be consulted and downloaded on line <http://www.uraia.org/documents#pagina>



Kampala | Uganda

DR. JENNIFER SEMAKULA MUSISI

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Office of the Executive Director
Kampala Capital City Authority, Uganda*

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Smart City Implementation in Kampala

The establishment of the Kampala Capital City Authority in 2011 from Kampala City Council and the on-going transformation of Kampala City created room for new opportunities in the provision of public services. KCCA's strategy identified ICT as one of the key drivers for the transformation of Kampala both internally and to external clients. This ICT implementation is guided by a Smart City framework phased in consideration of the most critical organization requirements.

The eCite Revenue Management System has streamlined, standardized, and automated some of the core processes in Kampala's revenue

administration. This project improved collaboration among the various directorates and between the government and residents, creating cooperation across many stakeholder groups. Furthermore, by increasing efficiency in communications, it supports both vertical collaboration from the city government to national level departments and horizontal collaboration among city agencies from various disciplines.

Many facets of the program have already enjoyed success, and further expansions include applying the system to property valuation and incorporation of a Geographic Information System.



GwangMyeong | South Korea

CHUN-PYO LEE

Vice Mayor of Gwangmyeong City

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Convergence between Gwangmyeong Cave and Digital Media Technology

Until the development of Gwangmyeong Cave, Gwangmyeong-si was a medium-sized city with a population of 350,000 residents connected to Seoul and a commuter town of Seoul with little self-sufficiency and attention. Also there was visited by no more than 3,000 tourists a year

Gwangmyeong Cave was a metal mine where gold, silver, copper, and zinc were mined from 1912 to 1972. In 1972, the leakage of tailing due to a great flood in Gwangmyeong-si turned the neighboring farmlands into the land that can't be farmed and was left unattended for about forty years.

When Yang Ki-dae, Mayor of Gwangmyeong-si, took office in 2011, utilizing the characteristics of a

dark and resonant place called the cave, we have created a platform to grow into a global brand by creating performing arts and cultural experience centers that combine digital media technology.

By developing a mine experience center and large media electronic display through a convergence of various digital media technologies such as Smart Mobility, VR, interaction, 360° imaging system, GAME, etc. which will allow visitors to have a vivid experience of a mine beyond space and time. We have a determined goal of attracting 1.5 million tourists, generating a tourism income of \$10,520,000, and creating more than 500 jobs.



Madrid City Council | Spain

MIGUEL ARANA CATANIA

Director of the Citizen Participation Project, Citizen Participation, Transparency and Open Government Department, Madrid City Council

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The Revolution of Smart City Governance through Digital Direct Democracy

A new experience of digital governance spreads fast through Spain, Argentina, France, Colombia and other countries. A common network project between different governments to allow citizens to decide directly the main

decisions to be carried out by their governments, taking advantage of the collective intelligence of the citizens. We will present the experience and how to join the network.



Baguio | Philippines

LETICIA O. CLEMENTE

*City Budget Officer
City Government of Baguio, Philippines*

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Technology as Co - Solutions for e-Governance: Smart City Governance and Financing in Baguio City

Information and Communication Technology has been invading all facets of service delivery by storm both in the private and public sectors. Its advantages as a tool for connectivity and access are overwhelming, and the rapid pace at which ICT continues to develop has been a driving force accelerating socio-economic development in a globally competitive setting.

Taking advantage of this opportunity, the Philippines has formulated the national framework towards e-governance. Serving as a guidepost in the mainstreaming process is the national strategic vision as follows: "An e-enabled society where citizens have access to technologies that

will provide education, efficient government service, greater source of livelihood and a better way of life." This vision is supported with a 5 point strategic action agenda.

Corollary to the national thrust to localize and to harmonize the Local Government Units as frontline public service providers into the pathway, the eLGU Project was implemented. It is intended to revolutionize local governance by making LGUs electronically enabled thereby improving the delivery of public service, promote transparency in government transactions and increase public access to government information services.



Pittsburgh | USA

ROBERT BURACK

*Harvard Ash Fellow
Department of Innovation and Performance
City of Pittsburgh*

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Burgh's Eye View: Making City Data Accessible

In 2016, the City of Pittsburgh launched Burgh's Eye View, an innovative mobile web application allowing citizens to, for the first time, easily access and view the City's open data. By removing technical barriers for less tech-savvy citizens, and launching an wide-ranging community engagement strategy, the City has significantly increased its open data constituency and made its tools more inclusivity and accessible. Enabled

by a unique, regional open data collaboration, Pittsburgh's open data has become a regional asset and a national model for data inclusivity. In this session, we'll overview Pittsburgh's regional data model, dive into Burgh's Eye View as an open data tool, review the City's community engagement strategy, and learn how your city or region can replicate its success.

Session 6

Smart Cities and Regions in Russia

This session will be devoted to the practice of creating Smart cities and regions in the Russian Federation. The Smart City part of the Russian Digital Economy Program will be presented and discussed.

Presentations from the Russian cities and regions (Moscow, Kazan, Novosibirsk, Ulyanovsk, Omsk, etc.) that may become the first pilot projects of the Russian Digital Economy Program would be of special interest.

Representatives of federal, regional and local authorities, business sector and experts will take part in the subsequent panel discussion. They will evaluate the projects and give recommendations on their further development.

CHAIR:

Dr. Yuri Hohlov
Chairman of the Board of Directors of
the Institute of the Information Society
Russia

THEMATIC PRESENTATIONS

Mr. German Klimenko
Advisor to the President of the Russian
Federation, Administration of the
President of the Russian Federation

Strategy for Information Society Development in the Russian Federation until 2030

Mr. Alexandr Zaverjachyev
Principal Advisor for ICT and e-Democracy,
Administration of the President of the Russian
Federation

Goals, objectives and Stages of the Smart City part of the Russian Digital Economy Program

Mr. Boris Glazkov
Director, Center for Strategic Innovations,
PJSC Rostelecom

Digital life of Russian Cities

Mr. Vladimir Korovkin,
Head, Innovations and Digital Research,
The Moscow School of Management,
SKOLKOVO

CITY PRESENTATIONS

- Moscow Smart City Project
- Ulyanovsk Smart City Project
- Magas Smart City Project
- Novosibirsk Smart City Project
- Omsk Smart City Project
- Kazan Smart City Project



CHAIR MODERATOR

Institute of the Information Society |
Russia

DR. YURI HOHLOV

*Chairman of the Board of Directors of
the Institute of the Information Society*

Yuri Hohlov is a founder and the Chairman of the Board of Directors of the Institute of the Information Society (Russia) since 1998. Strategic consultant and practitioner in the field of ICT for socio-economic development. Hundreds of the Information Society development projects carried out under his supervision at the global, national, regional and local levels. Author of several books and more than 200 articles. Chairman or member

of the international (United Nations, World Bank, World Economic Forum, etc.) and national (the High Level Expert and Advisory Group of the Council on the Information Society Development under the President of the Russian Federation, the Expert Council under the Government of the Russian Federation, and others) expert councils. Academician of the Russian Academy of Engineering.



**Administration of the President of
the Russian Federation |** Russia

GERMAN KLIMENKO

*Advisor to the President of the Russian
Federation, Administration of the President of
the Russian Federation*

German Klimenko graduated from the Mozhaisky Military Engineering Institute in 1988 (now the Mozhaisky Military Space Engineering Academy). From 1996 to 2000, he worked as a Manager of the Cheryomushki branch of Commercial Bank «Rossiyskiy Kredit». In 1995, he graduated from the Higher School

of Economics. In 2002 he founded «LiveInternet» statistic service. Since 2012, he is a founder and owner of "Mediametrix". In February 2015, he became the Head of Internet Development Institute.

Since 2016, German Klimenko is the Adviser to the President of Russian Federation.



**Administration of the President of
the Russian Federation |** Russia

ALEXANDR ZAVERJACHYEV

*Principal Advisor for ICT and e-Democracy,
Administration of the President of the Russian
Federation*



Rostelecom | Russia

BORIS GLAZKOV

*Director, Center for Strategic Innovations,
PJSC Rostelecom*

Director of Strategic Innovation Center, «Rostelecom» company. He is in charge of searching perspective directions for development and transformation of the company in the context of globalization, digitalization of economic and social processes. He has extensive experience in the field of IT: development of e-government and the state system for the production, processing

and control for new generation passport and visa documents, as well as participation in other projects of national scale. He is the head of the subgroup "Smart City" of the interdepartmental working party to the Ministry of Communications of Russian Federation on "Digital Economy" project preparation. Has state and official rewards.



SKOLKOVO IEMS | Russia

VLADIMIR KOROVKIN

*Head, Innovations and Digital Research, The
Moscow School of Management, SKOLKOVO*

Holds degrees in systems engineering and international business, and has over 20 years of experience in the international and Russian private companies in marketing, Internet, retail banking and IT-consulting. Vladimir worked as VP for innovations in Media Arts Group of Cos. (a leading Russian marketing communications holding), VP for Innovations and Organizational Development in "Poidem!" Bank and Head of Department of Business Systems at Asteros Consulting (a major IT and management consulting company in Russia).

Since 2014 Vladimir pursues an academic career being the Head of Research in Innovations

and Digital at SKOLKOVO IEMS. In his writing and teaching he focuses on the issues of organizational and business effects of the digital technologies in Russian enterprises, including business process redesign, client service transformation, personnel motivation, change management, internal communications, etc.



Smart City Lab Moscow | Russia

ELDAR TUZMUKHAMETOV

Head of Smart City Lab of Moscow Government

Head of Smart City Lab of Moscow Government. Eldar is responsible for search and implementation of innovative technologies and smart management practices in Russia's capital city. Before joining the team of Moscow, Eldar worked as CEO in consulting agencies,

focused on projects in governmental and public-private sectors. In 2014-2015, was leading consultant for Moscow Government in development and implementation of "Active Citizen" - a citywide voting app that engaged 1.2 mln users in less than one year.



Magas | Russia

BESLAN TSECHOEV

Mayor of the City of Magas

Advisor to the President of Ingushetia (2008-2015). In January 2015, elected the Mayor of Magas (Ingushetia). Member of the Russian Journalists' Union. He was a member of the working party of the Public chamber of the Russian Federation on development

of public dialogue and civil society institutions of Caucasus. Leader and participant of peace missions in the North Caucasus. Author of a number of urban and transport innovative projects.



Novosibirsk | Russia

DMITRY GOKOV

Director of AT Consulting «Vostok».

He graduated from Novosibirsk Electro-Technical Institute, Automation and Computer Engineering Faculty. He worked in such companies as «Krok», «Open Technologies». In 2007 he established the Siberian branch of "NVision Group" company. He is an expert in the field of system integration: creation of IT infrastructure, design and construction of communication networks, services and technical

support for telecommunications and public sector companies. He has an experience in forming regional branches, project teams for major projects.

In 2015, he became Head of «AT Consulting Vostok». Dmitry is the Head of Smart city department at the Siberian State University of Telecommunications and Information Sciences and a member of the Coordination Council on Information Resources,

Technologies and Communication of the Interregional Association of Economic Cooperation of the Federal subjects of the Russian Federation "Siberian

Agreement". In May 2017, Gokov received an award "Honored Worker of Communications and Informatization of the Novosibirsk Region".



Omsk | Russia

ALEXEY MENSHOV

Deputy Mayor of the City of Omsk

Alexey Menshov attended Omsk Aviation Technical College and upon graduation, worked as a design technician at Omsk Aviation Plant. From 1973 to 1975 he did his military service. After discharge he worked in Omsk State Technical Institute and Omsk Power Units Plant. In 1982 Alexey Menshov graduated from Omsk State Technical Institute; in after years he took his master's degree in State Management at Presidential Academy of National Economy. Since 1983 he worked for the state in various

posts. In 1989 he was elected Executive Board Vice Chairman of Congress of People's Deputies in one of the districts of Omsk City. After USSR breakup in 1991 Alexey Menshov took charge of Pervomaiskiy District of Omsk City; from 1997 to 2001 he was the Head of Sovetskiy District of Omsk City. Since 2012 he is the Deputy Mayor of Omsk City and the Head of Administrative Department of Omsk City Local Government.

PhD in Social Science, Alexey Menshov is awarded the Order of Service to the Fatherland (2nd Class).



Tatarstan | Russia

ROMAN SHAYKHUTDINOV

Deputy Prime Minister, Ministry of Information and Communication

Graduated from the Kazan State University named after V.I.Ulyanov-Lenin (Jurisprudence, 1996), where he also finished postgraduate study (Jurisprudence, 2000). Speaks English.

From 1995 to 2000, served at legal departments of the RT Ministry of External Economic Relations, RT Ministry of Finance, "Teleset, LLC". He became Director General of "Networks of telecommunication companies" (Moscow) in 2000 and Director General of "Teleset, LLC" in 2002 (until 2011). R. Shaykhutdinov was Chief Operations Director of "Rostelecom International" and Director general of JSC "TNKPO" from 2006 to 2011. Then he headed the branch of "Rostelecom" in the Republic of Tatarstan until 2012. Since May 2012

he is Acting Deputy Prime Minister of the Republic of Tatarstan-Acting Minister of Informatization and Communications of the Republic of Tatarstan.

Awarded with the Honorary Diploma of RT Ministry of communications, 2003, Medal "In memory of 1000th anniversary of Kazan" 2005, Honorary Title of the RF Ministry of communications "Master of communication", 2010.

Laureate of the Russian contest "Manager of the year -2004", winner of the contest of RT Ministry of communications "Best manager in the industry - 2004" in nomination "By rates of growth of installed wire capacity", nominee of the contest of the Republic of Tatarstan "Leader of the year-2005".

City Digital Solutions Forum

MODERATOR

Mr. Jaewon Peter Chun
CEO, XnTree

SPEAKERS

1. KT
2. Sovtest ATE
3. Danusys
4. Circulus Inc.
5. Airblack
6. Seoul Digital Foundation
7. MST Digital Agency
8. Ecube Labs Co., Ltd.
9. Smart Cities Innovation Summit Asia (KINTEX)
10. Gedaref Digital City Organization
11. State Agency for Public Service and Social Innovations (Azerbaijan)
12. Social Lift
13. NIC (National Information Center)



MODERATOR

XnTree | South Korea

MR. JAEWON PETER CHUN

XnTree CEO

e-mail: peter.chun@xntree.com

PRESENTATIONS

KT | South Korea

MR. JEONG HYEONG LEE

Deputy Director

Project: GiGA Wire Technology with Existing Copper/ Coaxial Cable in Old Buildings

www.kt.com/global

Sovtest ATE | Russia

MR. ANTON GRIGOREV

Deputy Development Director

Project: Public Safety through Distributed Wireless Monitoring Networks

www.sovtest-ate.com

Danusys | South Korea

MR. DOOSIX GIL

Executive Director

Project: Smart City Solution for Safe Town Development

www.danusys.com





Circulus Inc. | South Korea

MR. JONG-GUN PARK

CEO

—

Project: piBo – Companion Robot for Family

pibo.circul.us



Airblack | South Korea

MR. HUN KYU MOON

CEO

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Project: Global Startup Service

www.airblack.com



Seoul Digital Foundation | South Korea

MR. JUNG WOO LEE

Director of Digital Social Effect Team

—

Project: Dinnovation Framework For Seoulites

www.sdf.seoul.kr/



MST Digital Agency | Russia

MR. NIKOLAI FETIUKHIN, CEO

MS. JULIA SVISTUNOVA, Head of the Project

—

Project: Smart Door into IoT

www.mstagency.ru



Ecube Labs | South Korea

MR. EVAN KIM

Global Business Development Manager

—
Project: Smart Waste Management Solution

www.ecubelabs.com



Smart Cities Innovation Summit Asia 2017, KINTEX, Goyang | South Korea

MR. FRANK YANG

Director

—
Project: Build Partnerships in 'Smart Cities Innovation Summit Asia 2017'

www.smartcityasia.net/2017/



Gedaref Digital City Organization (GDCO) | Sudan

MR. AHMED MAHMOUD MOHAMED EISA

Former Chair Gedaref State e-Government Committee

—
Project: e-Agriculture and Online Crop Prices Web Portal

www.sunta-sudan.org

www.gedaref.com/index-english.html



**State Agency for Public Service
and Social Innovations under
the President of the Republic of
Azerbaijan | Azerbaijan**

MR. ELNUR HUMBATOV

Head of International Relations Department

MS. ULDUZA KHALILOVA

Head of Division for E-services Improvement
and Social Innovations
Project Manager

—
*Project: Experience of "ASAN xidmet" in the
Field of Digital Solutions*

www.vxside.gov.az/
www.asan.gov.az/



Social Lift | Russia

MR. EVGENY KOLESNICHENKO

Deputy Director

—
*Project: Social Networks as a Modern Way of Smart
Cities Communication*

www.sociallift.ru



National Information Center | Sudan

MR. SABRI ALI

States Director

—
*Project: Hajj and Umrah Electronic Admission
System*

www.Nic.gov.sd

Design Thinking & Ideathon Workshop

Design Thinking is a human-centered approach to innovation that holds enormous potential for Smart City solutions. This relaxed session, led by Dr. Christopher Han, Vice President, SAP AppHaus, introduces participants to design thinking in an engaging and interactive problem solving session.



Dr. Christopher Han is the Vice President of SAP AppHaus Korea, which is the first “customer facing” co-innovation space in Asia. It is a flexible space that enables people-centric innovation through collaborating with customers. At SAP AppHaus Korea, the Design & Co-Innovation Center APJ team runs the space and provides user experience design services/projects, design thinking training/workshops and opens its space for SAP’s startup programs as well as corporate social responsibility activities. Dr. Han has delivered talks on design thinking to corporations such as Lenovo, Samsung, and LG to name a few.

DR. CHRISTOPHER HAN

VICE PRESIDENT | SAP AppHaus



GENERAL ASSEMBLY 2017

The WeGO Smart Sustainable City Awards

Ulyanovsk Region, Russia

Winners of the 3rd WeGO Smart Sustainable City Awards

OPEN CITY

GOLD AWARD

Edmonton

Open City Initiative



In order to fulfill its goal of being a global city that is innovative, inclusive, and engaged, Edmonton City launched its Open City Initiative. Prior to the program, municipal data was not freely available for citizen access, and inquiries were done through several disjointed and inefficient methods: emails, public engagement, or letters.

The project aims to make citizen-to-government interaction easier, data more open, and data-driven decision-making ubiquitous. It separates itself from many similar programs in its dynamic nature; data is analyzed in real time, and policy-makers, after discussion, are able to change focus almost immediately, taking the holistic needs of the city into account.

In 2016 alone, over 150,000 users accessed datasets, exceeding 400,000 downloads. The city credits the greater availability of data with increased programs and fiscal responsibility in Edmonton. Citizen-to-government collaboration has increased, and new services and data aggregation have emerged as benefits of the project. Holistically, the project may not have been as successful or as inclusive were it not for the Open City Wi-Fi service which was introduced to 83 public locations, ensuring that all citizens have the necessary access to broadband to take advantage of these services. In the long term, greater citizen health is expected as citizen services continue to be improved through data-driven decision making, and further economic development is anticipated as local businesses continue to take advantage of access to open data.

SILVER AWARD

Jakarta

Jakarta Smart City Portal



Like many mega cities of its size, Jakarta faces challenges in streamlining information among its departments and in sharing the information with its citizens. With over 10 million people, the city understandably generates massive amounts of data, and yet, prior to the Smart City Portal project, there was very little public access to such data. Furthermore, as many cities of any size experience, there was often a reluctance for departments to share data among one another, and even when the data was shared, it was often incompatible among departments.

The Jakarta Smart City Portal was implemented to address these challenges through open data, and has done so through some exceedingly innovative approaches. Integration of data among departments is a key feature of the project. API service allows various departments to integrate between apps and systems automatically or semi-automatically. Furthermore, in the interest of co-creating solutions, third parties such as companies, startups, and even hobbyists are able to collaborate if they wish. IoT even allows integration on a hardware level.

User experience is of great value to the creators of the Portal, and so flags were installed in the software to track and learn from how citizens interact with it. So far, this emphasis on being user-friendly has led to over 1 million views in a year, with nearly 70% of its usage occurring on mobile devices, which are extremely prevalent in Jakarta. Often datasets overlay on a map for easy interpretation. One example of a service on the Portal which receives heavy usage is the set of online public CCTV feeds, which experiences high traffic in times of large scale events in Jakarta.

Finally, as with any successful open data program, the project includes resources for submitting citizen feedback based upon the data, and this feedback can be utilized for policy-making. The project has already led to some suggestions which are currently being considered for implementation, and more such suggestions are expected to become policy in the future.

SPECIAL MENTION

Pittsburgh

Burgh's Eye View



An innovative mobile web application allowing citizens of the City of Pittsburgh to easily access and view, for the first time, the City's open data, Burgh's Eye View is enabled by a unique, regional open data collaboration. Through a collaboration with surrounding Allegheny County and the University of Pittsburgh, the City has positioned Pittsburgh's open data as a regional asset and worked to make it accessible for all.

Like other projects of its kind, it addresses a lack of a centralized data access for residents. But what truly made Burgh's Eye View excel in this category was its user experience, which compels everyday citizens, not just data enthusiasts, to utilize the platform on a regular basis. The mobile-optimized platform allows users to view a map of the city overlaid with various datasets which can be turned on and off by filters. One example of a popular filter is the "Police Blotter" which allows citizens to view crime in their neighborhood during a specific date range. To further attract these more casual users, efforts were made to remove technical barriers for less tech-savvy citizens and to make the app more intuitive for inclusivity.

The city also saved budget by utilizing open source tools such as RStudio to work with the data. The city uses its own, already-existing open data to populate the app, a process known as "dogfooding" (which is widely considered to be the most desirable method of data use in the civic data community).

As the city looks to improve upon the program in the future, it is carefully studying early cases and user levels, and working with its Digital Community Specialist to promote the program around the city and make citizens aware of its benefits. The team of analysts has visited dozens of community meetings to gather feedback. Further datasets will be made available as the program expands.

DIGITAL INCLUSION

GOLD AWARD

Miraflores

Miraflores 2.0 - Citizens' Participation Enabling Platform



With the spirit of civic mindedness and accountability central to its mission, the city of Miraflores previously allowed citizens to meet face-to-face with the mayor and every public officials weekly. However, as popular as the program was, it limited the amount of people who could attend to those who could physically be present. This especially excluded younger citizens whose schedules could not accommodate this.

As the next evolution of this program, Miraflores 2.0 was launched in order to provide the same two-way communication channel but via ICT to increase participation. This platform efficiently routes communication channels to the appropriate destinations for responses. These replies average between 40 seconds and 5 minutes from the initial inquiry. Since implementation, it has proven very popular, with 33,000 citizen requests (an overall 740% increase from the previous system) coming virtually, and 15% of these coming from citizens aged 20 or younger. As the youth demographic had been deemed underserved with the previous system, this is a great improvement.

The system is cost-effective, as almost all components were created in-house to reduce project costs. The app is available for Android and iPhone, and notifications that are sent from citizens are geo-referenced in order to better learn from where the requests are coming. Furthermore, requests made over Facebook and Twitter are also routed to the appropriate city officials. It even streamlines and handles more traditional communications such as emails and calls.

As the program develops further, the vast amounts of data collected from such citizen input will be processed with data analytics and eventually lead to even higher quality policy design.

SILVER AWARD

Seberang Perai

Smart Monitoring System 2.0



Seberang Perai has greatly prioritized inclusion for all of its citizens, an especially important task for a city which physically spans a very vast land area. For the Municipal Council, this means ensuring that all of its citizens have ready access to information on citizen services, such as flood monitoring and response, earthworks monitoring, development projects, and information on illegal dumping and environmental issues. The Municipal Council also wishes for citizens to simultaneously be able to communicate two-way with city authorities in real time. This ensures the most up-to-date quality services and also gives citizens a real sense of inclusion in their city's service delivery process.

Key features of the project that have led to its success include the mobile-friendly SMS2.0 app (nicknamed "SmartEye"), which is available for download on the Google Play Store for Android devices. It even includes an offline feature that stores feedback while there is no internet connection for the next occasion the device is connected. Furthermore, the "MPSP Watch" feature connects the service to Facebook, allowing citizens to file complaints and submit suggestions via Facebook. Amazingly, MPSP Watch was created and is managed by a citizen who did so without any funding, an example of the level to which citizens value and take ownership of the program.

In addition to betterment of citizens, the project provided many advantages to the city government including: time, money, and energy consumption which have all been improved as a result of the efficiencies the project offers the city. Building upon the initial success of SMS2.0 the city plans on even greater usership and results in the years to come.

SPECIAL MENTION

Cape Town SmartCape Access Project



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

In order to address the digital divide between “haves” and “have nots” in Cape Town, this project aims to give equal opportunity to residents who may not have adequate internet and computer access. The city recognizes the immense benefit that broadband internet access gives to individuals that have it, and realizes that unequal access to this technology creates an even greater gap in economic and social inequality, issues that nearly every city must contend with.

Recognizing that access to technology is a right that it wishes each of its citizens to enjoy, Cape Town now deploys PCs at local libraries as well as free WiFi and productivity tools. Users wishing to use the internet need only to register at their local library. Doing so quickly and easily grants them 45 free minutes of data per day and 500mb of free data monthly.

The program utilizes very cost-effective ICT solutions such as open source technologies and refurbished desktops. Furthermore, the city cooperated closely with local corporations in order to make use of existing corporate infrastructure.

So far the program has proven very popular, and the city is in the process of expanding to accommodate even more citizens. As the libraries are already mostly at maximum capacity for PCs, it will likely focus on increasing the availability of the free public WiFi.

INNOVATIVE SMART CITY

GOLD AWARD

Qingdao Qingdao Smart Social Insurance: People's Livelihood Service Platform



This comprehensive and multi-faceted Smart City program uses digital innovation to ensure the wellbeing of citizens in one of the most essential areas of life, their financial livelihood. Furthermore, it is improving public services and bettering the situations of especially vulnerable city residents.

The Smart Employment platform compiles information for the city's entire working age population, to tackle problems related to employment status. Skill training programs for workers were enacted in order to improve human resources, and data from the project helps to better match these workers to enterprises in need of such skills. Big Data is used to track employment trends and identify future areas of demand.

The project also has social welfare aspects. One aspect of it streamlined medical insurance processes, utilizing Big Data analytics to deliver better and more equitable service, and the other aspect provides e-service stations to ensure that groups like the elderly, migrant workers, and the unemployed have equal access to the same quality of public services as other residents.

Finally, an aggressive expansion of platforms for delivering public services helps to provide equal access to such services. These modes include window services, self-services, online services, and mobile services.

The various aspects of the program employ a wide variety of cutting-edge digital technologies such as facial recognition software and cloud computing to name a few. Contributing to the success of the program is the cooperation of corporations, particularly banks which assist in the payment processes of some facets of the program.

So far the program has been well-received and greatly improved services in the city. Qingdao plans to further expand usage of Big Data to improve the program even further as well as make improvements to information safety and update technologies according to the latests trends.

As the program develops further, the vast amounts of data collected from such citizen input will be processed with data analytics and eventually lead to even higher quality policy design.

SILVER AWARD

New Taipei

NTPC Library 2.0+



As modern cities look to re-tool their libraries to fit the needs of a digital age, New Taipei has set a great example of how modern cities can utilize technological innovation to keep libraries relevant and central to the lives of their citizens. Not only has the program streamlined the libraries for the greatest possible resource efficiency, but it has made the experience more interactive for users and better-adapted to work with their modern lifestyles.

Given the busy working lifestyles of modern citizens, typical 9-5 checkout hours and long lines simply are not conducive for the typical citizen of New Taipei. 24 hour self-checkout and automatic book sorters eliminate this problem. User experience has also been made more comfortable with many new features: designated children's checkouts for a fun and interactive experience for young patrons, an E-book wall, the first electronic bookshelf of its kind in Taiwan, and specially designed interiors representing different geographic themes in which readers can enjoy their books in an imaginative environment. Special services have been designed with the needs of the elderly and disabled in mind.

Furthermore, administrative software streamlines processes, alleviating the burden on human resources for the libraries, allowing them to better serve patrons. Radio Frequency Identification and other IoT devices are used for the better tracking of inventory and greater efficiency of library processes.

The project has already been well-received, and even more improvements are already planned, including use of green energy, Virtual Reality experience, and a QR Code guided tour.

SPECIAL MENTION

Bydgoszcz

Smart Solutions in City Transportation



A chief challenge for safety, productivity, and livability in modern cities is transportation. The Intelligent Transportation System (ITS) project collects and makes use of data from various IoT devices in order to improve public transportation, facilitate traffic at traffic crossings, and optimize public parking spaces downtown. Self-service bike rentals provide an affordable and environmentally sustainable 24/7 transportation option at 37 locations. Additionally it helps to alleviate traffic congestion. Smart public transportation cards allow riders to pay for transportation quickly and conveniently. Finally, smart street lighting saves energy and ensures that streets are adequately lit and safe for both traffic and pedestrians.

The program is particularly innovative in its usage of ICT across all aspects of the project as well as its sustainability. Traffic cameras not only provide vital data to help city planners create better policies to alleviate traffic and increase safety, but they can also be utilized to locate stolen vehicles. Bike rental stations are solar powered and utilize electronic locks for securing the bikes from thieves. Smart lighting systems also provide real time feedback to the city via IoT in order to monitor usage and alert when repairs and maintenance are necessary.

In addition to immediate energy savings from the street lighting systems, the program has been particularly successful in the usage of the bike rental system, which had over 35,000 users registered in 2016. Expansion of the ITS is planned as well as an increase in bike rental and park and ride locations.

SUSTAINABLE CITY

GOLD AWARD

Goyang

Smart Waste Collection and Management Service



Waste collection and management is rarely an area that receives prioritization in the field of smart technology. However, the city of Goyang recognized that cities often fail to introduce simple technology to evaluate their waste collection methods and thereby neglect a great method to improve its sustainability. With this in mind, Goyang implemented the Smart Waste Collection and Management Service.

High traffic areas were outfitted with special smart waste bins that contain built-in sensors to detect when they are full, and solar powered compressors crush the trash to prevent overflow. The use of solar power was chosen to further enhance sustainability. While this enhances citizen well-being by containing waste levels, the IoT aspect of the project is what makes it truly sustainable. The sensors feed data to the "Clean City Network" and the data is processed to track waste generation, overflow, and efficiency by the parameters of each bin, region, and time period.

Not only does this enhance sustainability in terms of being able to track waste generation, but it also helps the city to devise the most efficient collection routes possible, thereby reducing waste in terms of fuel consumed by collection vehicles and improperly utilized human resources. Controlling fossil fuel consumption by large city vehicles can have a serious positive impact on the health of the local environment.

Partnerships with domestic companies helps the project. Furthermore, the resources saved by the project help to offset the costs, showing that sustainability and citizen well-being can also be budget-friendly.

SILVER AWARD

Sejong

Smart City - The Future for Global Cities



Sejong is a unique case study as it is almost entirely a new city, constructed within the past decade to become the new administrative center for Korean national government offices. As such, the city has been uniquely positioned to begin as a Smart City, almost from its outset. This has allowed the city to include sustainability at the core of its overall city program goals.

Under the scope of this overall project, many sustainability aspects are included. The overall city design is engineered with maximized public transportation in mind, and it aims for 70% of its transportation to be public, with bicycles also accounting for another 20%. To encourage this, bus arrival times are provided, and buses are given priority at traffic signals. IoT devices are used to ensure that these processes run smoothly and reliably. Roadside signs display where there are available parking spaces, to keep traffic flowing and prevent traffic jams which are a major culprit for vehicle fossil fuel emissions. Over 3,000 public ride-sharing bicycles are available for rental at ICT enabled, unmanned stations, giving citizens ample opportunity to ride along the city's 411 total km of bike paths.

Solar cell arrays are installed on rooftops, public parking lots, and on top of sound barrier tunnels. The entire town centers around a central green space in the shape of a ring. Waste is collected via chutes that take waste underground where it is sorted for recycling. Food waste is recycled into biofuel, and sewage is processed into extremely clean water before being released into the central river.

Many of these programs will be continued and expanded in years to come as the city continues to grow.

SPECIAL MENTION

Abu Dhabi

Electronic Awareness
Games



The United Nations released its 17 Sustainable Development Goals, a blueprint containing 169 targets covering a broad range of sustainable development issues, many of which are directly relevant to urban challenges. As part of its Khalifa Empowerment Program for Students (Aqdar), the city of Abu Dhabi seeks to employ the power of video games to bring education and awareness of important messages to its students. As many of these areas of education and awareness overlap with key Sustainable Development Goals, it is an exemplary case study of a city government valuing sustainability in its programs.

Particularly, with the rapid population growth of the city and the extremely diverse set of nationalities, educating youth in social issues can play a critical role in having a safe and cohesive community in years to come. The program is supported by over 40 community partners and was implemented with training courses, lectures, and workshops. The program was rolled out on a smaller scale in certain grades and eventually expanded to include all grades on a large, citywide scale.

The project is notable not only for how unique the concept is, but for how successful the creators of the games have been in executing the goals. The games themselves are extremely playable and in terms of quality are able to hold the attention of students of various age levels, introducing difficult concepts to them in intuitive and natural ways. For this reason, the program is able to succeed where previous initiatives had failed.

E-GOVERNMENT SERVICE

GOLD AWARD

Veracruz

Veracruz City Digital
Electronic Government
and Open to the Citizen



This program greatly overhauled the ICT infrastructure of Veracruz and opened online communication channels between citizens and the government. Previously, formal reports by citizens needed to be submitted in paper and were often lost in the administrative process, requiring multiple follow-up inquiries to be made. Furthermore, transparency was low and therefore accountability was an issue.

Within the scope of this project are multiple measures to reverse these problems. The Citizen Relation System processes citizen requests and has processed over 160,000 to date. The Digital Procedures System has re-structured and consolidated government processes leading to greater efficiency and fewer errors. Public WiFi spaces have increased citizen access to these services, and a consolidated citizen call center and online chat system have served nearly 30,000 residents. Furthermore, citizen convenience has been increased through services such as online consultations and tax payments.

It makes government processes more convenient for citizens and as the amount of paperless e-Government processes has greatly increased, it results in increased efficiency and reduced waste for the local government. As a further benefit, it reduces documentation errors and helps to discourage corrupt behavior. So far the project has already been a great success, and in the long-term the project has ambitious expansion plans, including 100% citizen usage rates, e-commerce platforms on the site, and a virtual education portal just to name a few.

SILVER AWARD

Biscay

BiscayTIK Project -
Municipal Administrative
Manager



The BiscayTIK project is a cloud-based ICT solution to offer centralized and streamlined e-Government services in Biscay for maximum efficiency. The Government of Biscay took the project of modernizing their local administration so seriously that they went as far as creating the BiscayTIK Foundation. The Foundation's directive is a total modernization of local administrations to bring citizens and administrators closer via technologically modern communication channels. Furthermore, it seeks to modernize the region and create synergies during the process, and finally to enhance the society of information in Biscay.

It also greatly increases electronic document filing services to reduce paper waste. It unifies isolated sets of information and gives citizens a way to interact with their local government comfortably and conveniently. As Biscay is a diverse region, the system was designed so that each municipality has the ability to implement the programs in ways that suit the different local needs of their area. Six pilot administrations worked together with the Foundation to design the system and tested the program before it was expanded to other areas. So far, over 90% of the local administrations in the area are using solutions provided by the BiscayTIK Foundation, and over 100 procedures are offered online.

Just a few of the more than 100 services introduced are in the areas of document registration, population registration, accounting, budget, tax collection/ management, human resources, payroll, and social services. The cloud-based, modular system can be implemented in whole or parts by the municipalities, according to their needs or preferences.

To date, 1.7 million procedures have been handled, 1,300 municipal employees have received training in the system, and 2,500 employees are using the system in total. Overall, the system has been successful in modernizing administrative processes in this diverse region, and it makes an excellent case study for other regions to do the same.

SPECIAL MENTION

Moscow

e-Government Services
of Moscow City



Due to the scale of a mega city like Moscow, making government processes more efficient can provide exponential benefits in terms of revenue savings, citizen satisfaction, and the overall livability of the city. Thanks to ambitious initiatives, all government services are now hosted in one, unified location on the Moscow web portal.

Some examples of the themes of services that can be conducted through this one-stop portal include but are not limited to housing, health care, children and education, and transportation to name a few. 160 services of 350 varieties can be conducted entirely electronically, accounting for 97% of all services. In 2016 alone, Moscow received 170 million applications for various services through this portal. This includes advanced tracking of the status of applications and requests as well as the ability to pay duties and fines online. 5.8 million Muscovites use the service, including 1.8 million mobile users.

The program has greatly increased the ease of citizen access and reduced costs for the government. Paper waste and inefficiently-utilized human resources were among the chief problems addressed by this program. Furthermore, indirect benefits to the city are enormous as transparency and accountability make for an easier business environment and reduced corruption. Another output has been increased dialogue between the city and citizens, particularly stakeholder groups. The program has fundamentally changed the perception of citizens concerning government services and improved the overall livability of the city.

COOPERATIVE CITY

GOLD AWARD

Taipei

Taipei Smart City Living Lab - Government as a Platform



While Public-Private Partnerships (PPP) offer immense potential for cities to undertake successful Smart City projects, such arrangements are often hampered by excessive regulation and strict rules limiting the interactions between the public sector and partners in corporations or academia. To address this challenge, the city of Taipei established the Taipei Smart City Project Management Office (TPMO). This office is tasked especially with matchmaking the private sector and its tailor-made solutions with city government projects in need of such solutions. This facilitation initiated by the Department of Information Technology (DOIT) and TPMO has expedited the process greatly, essentially transforming Taipei into one big living lab. It unites stakeholders from government, the private sector, and academia to deliver the best and most innovative services possible to residents.

Since March of 2016 the program has interviewed 200 companies and hosted 600 matchmaking meetings, with 60 successful matchmaking cases being produced as a result. Some examples of solutions that resulted from these partnerships are technologies for monitoring reservoir management, an app-based vehicle rental and return service, and IoT equipped sensors which monitor air quality near schools and shares this information with parents and faculty. In only a short span of time, the program has been able to create almost immediate tangible outputs for the city, and as the DOIT evolves and expands, more and more projects will be enacted to provide benefits to citizens' quality of life and stimulate the local economy by utilizing local companies to create these solutions.

SILVER AWARD

Kampala

Revenue Modernization Project (RMP)



The eCite Revenue Management System has streamlined, standardized, and automated some of the core processes in Kampala's revenue administration. This project improves collaboration among the various directorates and between the government and residents, creating cooperation across many stakeholder groups. Furthermore, by increasing efficiency in communications, it supports both vertical collaboration from the city government to national level departments and horizontal collaboration among city agencies from various disciplines.

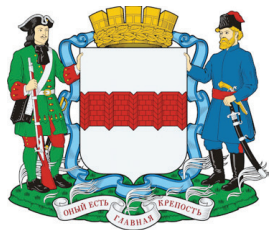
The project operates in a number of ways. Business registration was standardized and consolidated with information being shared across departments, facilitating the tracking of new taxpayers. Furthermore, service requests are shared across departments so the same resident no longer needs to submit multiple times to different departments. The same is true for the provision of data to the government. Payment processes have been automated, decreasing turnaround time for services and providing real time payment acknowledgement. Not only does this reduce the cost of doing business for residents, but it also allows for the government to better track transactions and capture more revenue in tax collection. This is revenue that may previously have been lost. This also makes fraud more difficult and consequently creates greater accountability at each step of the process. Improved enforcement and a reduction in labor have also led to higher morale among employees and greater citizen satisfaction with services.

Many facets of the program have already enjoyed success, and further expansions include applying the system to property valuation and incorporation of a Geographic Information System.

SPECIAL MENTION

Omsk

After Classes Project: Extra School Study Groups and Activities for Children



Education of its youth is among the most vital priorities for any city, and more and more families are realizing the benefits of supplementary education, not only for education alone but for student enrichment. These classes can encompass any range of activities from additional study in core school subjects, to arts and sciences or sports. Omsk has taken a forward-thinking and cooperative role in facilitating supplementary education for its citizens by creating an online portal that helps connect students to teachers and trainers.

Described as “Skyscanner” for supplementary education, the portal was designed to host study groups, sports classes, and other extracurricular activities. It helps students and parents to find neighborhood activities satisfying given age and focus. Furthermore, the one-stop portal allows communication between instructors and parents. The project has found success specifically because of the cooperation between stakeholders involved, as hosts of an estimated 85–90% of such supplementary education activities, representing around 2,000 entries on the site.

Cooperation came as a result of the top-down nature of the initiative, where impetus came from the Department of ICT with support from the Department of Education, the Department of Culture, and the Department of Youth Policy and Sports. The eventual goal of the project is 100% registration of supplementary education activities — both municipal and private, and expansion to the other cities.

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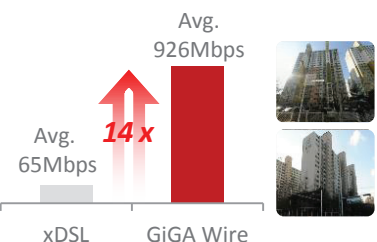
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GiGA Wire Reference in Korea



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