



## Measuring Progress: Achieving Smarter Cities

26 – 27 May 2015

Lisbon Congress Centre, Portugal

**Organizers:** Geospatial Media and Communications and the United Nations Economic Commission for Europe

### Introduction

In 2014, United Nations Economic Commissions for Europe and Geospatial Media and Communications joined hands to organize a two-day Dialogue Forum on Land Information Systems for Smart Cities. This event was a part of the Geospatial World Forum<sup>1</sup>, a bi-annual international conference and exhibition, which supports dialogue geospatial technologies and their role in promoting economic and social development.

With an agenda to promote the concept of *smart cities* in transition countries of Europe, the intergovernmental UNECE Committee on Housing and Land Management decided in 2012 to include the topic of “smart cities” as one of its priority activities in the Committee’s programme of work 2014 - 2015 under the cluster “Sustainable urban development”. The project aims at sustainable urban development through analysis of best practices and policies on smart cities.

Geospatial Media and Communications has been working to strengthen the connections between geospatial industry with key end user vertical segments, like land administration, urban planning, city management, construction and infrastructure, energy etc. With an aim to leverage both the project of UNECE on Smart Cities for transition countries in Europe and to have them based on sustainable land administration practices using appropriate geospatial technologies, Geospatial Media and UNECE organized the above mentioned programme.

In 2015, once again, both the organizations are coming together to further assess use of geospatial technologies for Land Administration and Smart Cities implementation, with a special focus on transition countries of Europe.

#### **For more information, please contact:**

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<sup>1</sup> <http://www.geospatialworldforum.org/>

## Basic Concepts

**Smart Cities:** With the increasing rural-urban movement and resulting expansion of urban areas, especially in transition countries, there is an urgent need for creating better functioning and efficient cities. Around the world, attention is being given to developing urban space in a manner, which is not only based on sound and strong infrastructure, but which is more economically lucrative and socially viable for its citizens. For this reason, many countries are focusing on developing **Smart Cities**. Taking into account the proposed Sustainable Development Goal 11, UNECE developed its own definition of a smart city which is **inclusive, safe, resilient, sustainable and “connected”**.

This means that a smart city should:

- ensure access to adequate and affordable **housing**
- provide access to safe, affordable and sustainable **transport** systems
- enhance inclusive and sustainable **urbanization**
- safeguard the world’s cultural and natural **heritage**
- reduce the number of deaths, displacement and losses caused by **disasters**
- reduce their **environmental impact**
- provide universal access to safe and accessible green and public **spaces**
- support positive economic, social and environmental links between **urban and rural areas**
- integrate innovative technologies and **ICT** within the different sectors

**Geospatial Technologies for Smart Cities:** For creating Smart Cities, which are inclusive, safe, resilient, sustainable and “connected”, a number of ICT and geospatial technologies are applied at various stages. To begin with, a sound land administration determines appropriate distribution of resources, allocation of land for infrastructure like housing, transportation, public spaces and overall better spatial planning. Other than that, many technology platforms enable cities to integrate systems from offices such as cadastral agency, utilities offices, transportation departments, disaster management agencies, town planning/city management agencies etc. This integration leads to better connectedness, delivery of smooth services and overall efficient functioning of cities.

**Key objectives:** The primary objective of the two-day programme will be to bring together professionals invested in land administration, urban planning, city management, policy makers and technology specialists who can share knowledge and experience in establishing the above mentioned pillars of development for Smart Cities. Experiences of some successful cities will be shared, as well as challenges and vision of some countries in transition will be discussed that will help them chart a feasibility map for their progress.

# AGENDA

Tuesday, 26 May 2015

**08:30 – 09:00**    **Registration**

**09:00 – 10:30**    **Opening Session**

This session will set the tone for the two-day programme giving outline of objectives and expected takeaways. Presentations will also be made by high level government and private sector representatives who will report on how governments and companies can support smart cities.

**Chair: Elena Szolgayová, Chair of UNECE Committee on Housing and Land Management; and Ministry of Transport, Construction and Regional Development of Slovakia, Slovakia**

*Speakers*

- Elena Szolgayová, Chair of UNECE Committee on Housing and Land Management; and Ministry of Transport, Construction and Regional Development of Slovakia, Slovakia
- Andrea Gumina, Advisor, Ministry of the Economic Development, Italy
- Chris Gibson, Vice President, Geospatial Division, Trimble, USA
- Rui Amaro Alves, Direção-Geral do Território

**10:30 – 15:00**    Networking break followed by Plenary Session and lunch

**15:00 – 17:30**    **Session 1. Laying the ground for Smart Cities**

This session will include presentations on the pillars of Smart Cities. Special focus will be on efficient land administrative practices, which lay foundation for Smart Cities. As geospatial technologies plays a strong role in achieving success on establishing each of these pillars, technology developers will also substantiate the deliberations on latest trends supporting establishment of smart cities and international organizations will grant support to policy makers to provide the institutional framework to ensure innovation.

**Chair: Nigel Edmead, Director of Training, Thomson Reuters, United Kingdom**

*Speakers*

- Nigel Edmead, Director of Training, Thomson Reuters, United Kingdom
- Amie Figueiredo, Economic Affairs Officer, UNECE, Switzerland
- Brent A. Jones, Global Manager - Cadastre/Land Records, Esri, USA
- Rumyana Tonchovska, Senior Land Administration Officer – IT, Climate, Energy and Tenure Division, Food and Agriculture Organisation of the UN, Italy
- Claudio Mingrino, Executive Director – EMEA, Hexagon Geospatial, France
- Krista Kampus, Head of the Baltic 21 Unit, The Council of the Baltic Sea States, Sweden
- Iain Langlands, GIS Manager, Glasgow City Council, U.K.
- Arnulf Christl, Director, Metaspatial, Germany

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## Wednesday, 27 May 2015

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**09:00 – 10:30**     **Session 2. Measuring progress**  
Presentations will focus on tools for measuring, key indicators of measuring success as a Smart City and the road ahead.

**Chair: Ms. Kari Aina Eik, Organization for Economic Relations, Austria**

*Speakers*

- Domenica Carriero, “United Smart Cities” Project Coordinator, UNECE, Switzerland
- Andreas Littkopf, International Affairs, Environment Agency Austria (EAA), Austria
- Dr. Jens Bartholmes, Policy Officer, New energy technologies, innovation and clean coal, Directorate-General for Energy, European Commission, Belgium
- Tony Mulhall, RICS, UK
- Catriona Manville, Senior Analyst, RAND Europe, U.K.

**10:30 – 15:00**     Networking break followed by Plenary Session and lunch

**15:00 – 17:20**     **Session 3. Best practices for Smart Cities**

This session will have presentations by some of the highly successful Smart City initiatives from across the world.

**Chair: Elshad Khanalibayli, Chair of UNECE Working Party on Land Administration; and Head of Investment and Cooperation Department, State Committee on Property Issues, Azerbaijan**

*Speakers*

- Miguel de Castro Neto, Secretary of State for Spatial Planning and Nature Conservation, Portugal
- Nune Harutunyan, Director REC-Caucasus Armenian Office, Armenia
- Hartmut Rosengarten, Director Airborne Sensors EMEA, Z/I Imaging GmbH, Germany
- Marcelle Hattingh, Director: Corporate Geo-Informatics, City of Johannesburg, South Africa\*
- Artem Sedov, Head, Intelligent Systems Laboratory, Moscow (tbc)
- Lynne Nicholson, Head of Data Products and Services, HM Land Registry, UK
- Andres Jaadla, CECODHAS – Housing Europe Board Member and Chairman of the Estonian Housing Association, Estonia
- Carsten Roensdorf, Practice Lead Future Cities, standards and 3D, Ordnance Survey International
- Bahaeddin Alhaddad, Business developer, Starlab Limited, U.K.

**17:20 – 17:30**     **Conclusion**

- Elena Szolgayová, Chair of UNECE Committee on Housing and Land Management; and Ministry of Transport, Construction and Regional Development of Slovakia, Slovakia