

# Innovative space-based solutions for Future Cities,

July 8-9, 2014, Vienna

Presented by; FrontierX Technology LLC

A Workshop in the framework of ESA's Integrated Applications Promotion (IAP) Programme  
July 8-9, 2014, European Space Policy Institute - ESPI, Schwarzenbergplatz 6 (Entrance: Zaunergasse 1-3),  
1030 Vienna

Today's society has to face a lot of challenges. Amongst these is the **need for sustainable urban development**, which is driving the evolution of "Smart Cities". A "Smart City" is a city of the future using intelligent and innovative solutions and managing resources responsibly and sustainably.



To face the challenges of the 21<sup>st</sup> century intelligent technologies are needed. **Requests for more effective and innovative solutions, products and services are increasing.** Not all of them can be met with the methods and tools currently in place. A glance at other industry and technology sectors, including even space technologies, can help to meet these challenges - **lateral thinking is the name of the game!**

It is to be expected that the large increase in the world's population during the next 35 years will create a resultant increase of population in major cities. More and more megacities will evolve. In the course of this development, challenges and requirements for a life within these megacities will be in a state of flux. Inhabitants will seek social progress and will need to be **transported and supplied with food, water, energy and electricity.** There will be a **growing demand for security, communications, health care as well as waste management.** At the same time topics like **climate change, CO<sub>2</sub> emissions, renewable energies, sustainability and air monitoring** will become ever more important. Moreover, these issues are directly connected with each other, making the overall city system more complex.

**Have you ever taken into account that space technologies are key to develop "smart" solutions?**

Satellite navigation devices are commonly used nowadays in cars, by bike or on foot. The added value of integrated services and applications based on other space technologies like satellite communication, earth observation or manned space flight technologies may not be obvious at first glance and hence possibly not considered.

**The workshop will present how the development of Future Cities can be supported by space technologies, in which ways the challenges of Future Cities are linked to space applications and how the Integrated Applications Promotion (IAP) program of the European Space Agency (ESA) intends to support and contribute to the development of services to help meet these challenges.**

The **purpose of the event** is to **raise awareness of the intended tender** in the framework of ESA's IAP programme, envisaged for 2014<sup>1</sup> and therefore **to support a teaming of potential users and ideas.** In discussion with participants from different sectors like city planners, public transport managers and

energy providers, new solutions can be initiated and possible partners for joint projects can be identified.  
**Discover and imagine smarter cities thanks to space technologies!**

The language of the **workshop** is English and the workshop is targeting **participants from all over Europe**. More information on the program, and a possibility to register can be found on <http://www.espi.or.at/iap-assignments-59>.