Del Bianco CitySmart
and the
Geospatial Community

GABOR REMETEY

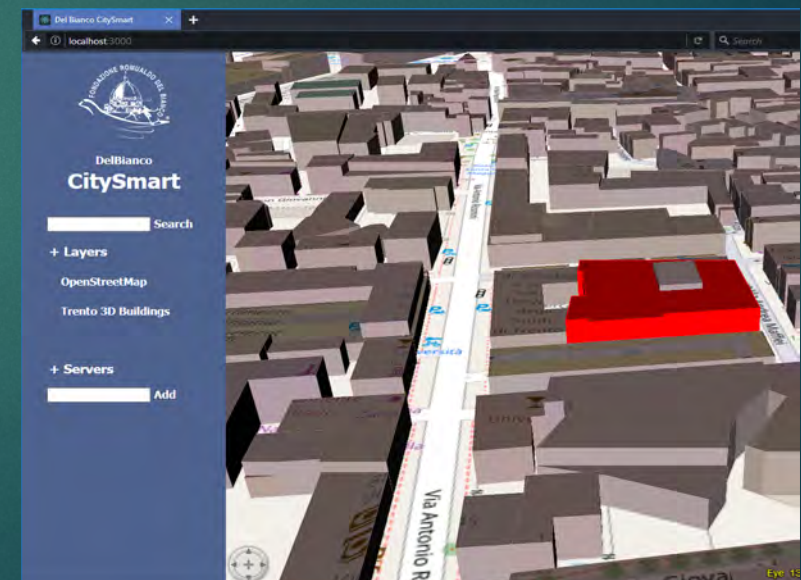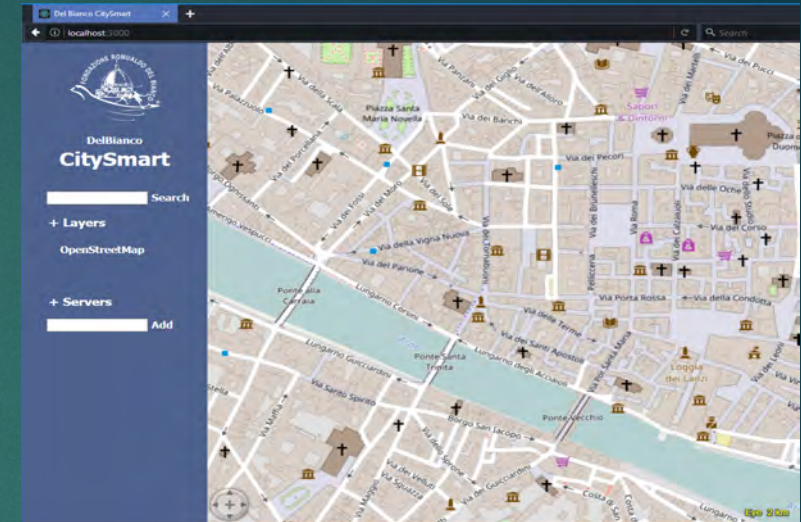MEMBER OF HUNAGI, MFTTT, MFT, MANT, GSDI, ISDE, NASA WWEC SC

Outline

- Del Bianco CitySmart in a nutshell
- The Geospatial Community
- How the Del Bianco CitySmart concept serves the Common Goals from local to global
  - The UN Agenda 2030 SDGs and Targets in the Urban Context
  - Del Bianco CitySmart serves the UN Agenda 2030 SDGs and Targets in the Urban Context
  - International Society of Digital Earth
- Conclusions

Del Bianco CitySmart in nutshell

Uniting the World on urban management of global challenges

- An open, freely available, integrated web-based framework for urban infrastructure management and visualization

- NASA Web World Wind co-developed with ESA

- Frontend to backend all open source components

- CitySmart data and services so far:

  - Web Map Services
  - Open Street Maps
  - 3D buildings + topography

- Collaboration via open source public repositories

Courtesy of Miguel Del Castillo Hoffman and Gabrie Militao Lopes

The Geospatial Community

- Geospatial Technologies and related Services
  - IoT, sensors, M2M, cloud services, AI, UAV, extended reality, virtual globes, social networks, web and location based services etc
- EO, Geospatial and other Apps-oriented data
  - Information Sysmems and Services, Spatial Data Infrastructures, Data revolution, The Big Data Era, Data preservation, Data visualisation
  - Data sharing, Open data policy, Bring the data close to the user
- In the focus: the people, users
  - Developers, Solution providers, Solution seekers, Decision makers
  - Golden triangle: Academia, Governments and Private sector
  - NGOs, learned societies, interest groups
  - Empowering the citizens as users and data providers
- Standards, regulations, legislative & technical frameworks
- Education and training, Knowledge sharing, Capacity building

Joint Board of Geospatial Information Societies-JBGIS
GSDI, ICA, IAG, ISPRS, FIG, IEEE-GRSS...

OGC,OSGeo...

GEO, CEOS...

UN-GGIM

INSPIRE...

EARSeL, EuroSDR, ISDE, UNIGIS...

Del Bianco CitySmart and the achievement of the Common Goals

- Uniting the World on urban management of global challenges

How? Think Global, Act Local!

Del Bianco CitySmart supports the achievement of common goals:

- Share tools, data, know-how, experiences, lessons learned and best practices

- Exploit the applicability of innovative solutions

- Cooperate, form interdisciplinary network, make collaborative efforts

- Focus on education and capacity building

- Empower and mobilize students and young professionals and practicioners

The UN Agenda 2030

▶ Transforming our world:
the 2030 Agenda for Sustainable Development,
UN General Assembly Resolution A/RES/70/1 Adopted in September 2015

▶ 17 SDGs, 169 targets and 230 indicators

▶ Yearly monitoring and reporting on the indicators via the National Statistical Offices, disaggregated where appropriate also by location

Del Bianco CitySmart Opportunity:

Support the local governments by providing a tool for analysis and visualization benefitting SDG 11: *Sustainable Cities and Communities*

International Society of Digital Earth, ISDE

- ▶ ISDE and IJDE

- ▶ Digital Earth Vision 2020

- ▶ Locate17/ISDE10 in Sydney, April, 2017
  - ▶ Keynote on NASA WWEC in the Virtual Globes Session

- ▶ Opportunities for Del Bianco CitySmart
  - ▶ Contribute with scientific paper in IJDE on the Del Bianco CitySmart apps in the urban context
  - ▶ Take part in the ISDE video competition
    - ▶ Look for the 2016 Video Competition winners: http://www.digitalearth-isde.org/news/803
  - ▶ ISDE Symposium 2019, Florence, Italy, hosted by CNR
    - ▶ http://digitalearth-isde.org/news/790

10TH INTERNATIONAL SYMPOSIUM ON
Digital Earth & Locate17
03-06 April 2017
International Convention Centre
Sydney
International Society for Digital Earth · Locate
DIGITAL TRANSFORMATION - OUR FUTURE

HOW OPEN SOURCE VIRTUAL GLOBE IS SUPPORTING THE SDGS – The Case of NASA World Wind

Patrick Hogan NASA ARC Project manager
Prof. Maria Antonia Brovelli, Politecnico di Milano Campus Como
Gabor Remetey-Fülöpp, Member of HUNAGI, ISDE and GSDI

Build smart cities in developing countries
2017-03-02
For smart cities to succeed, they require real-time, location-based strategies, solutions and responses to eff...

Del Bianco CitySmart
2017-01-12
Del Bianco CitySmart – a virtual globe technology supported open source urban management solutions for SmartCi...

Credits: http://www.digitalearth-isde.org/

Conclusions (1/3)

- UN Agenda 2030 for SDGs – DelBianco CitySmart can be the driving force for implementing innovative solutions serving both developed and developing countries.

- The 'New Urban Agenda' is an extension of the SDGs, and aligns beautifully with DelBianco CitySmart priorities.

- DelBianco CitySmart not only serves national and regional priorities, but directly addresss the needs of local government.

Conclusions (2/3)

- "We know, that without the involvement of cities and local governments, the world will not be able to address the global challenges of our times"

  (Dennis Codere, Mayor of Montreal at HABITAT III)

- Local governments __need__ *smart technologies* and tools which DelBianco CitySmart offers!

- DelBianco CitySmart provides multipurpose analysis and visualization capabilities, making smart decisions far more possible.

Conclusions (3/3)

"All cities need essentially the same tools to manage urban infrastructure, What if we established an open source platform that allowed cities to share the functionalities each of them need?

And what if the academic community as well as small and medium enterprise were challenged to work with their cities to build those solutions?

Solutions developed by the more affluent cities would be entirely accessible to every other city. This way a world could advance in a collective enterprise advancing solutions they all need.

Del Bianco World Wind is simply an open source platform that allows this to happen"

(Extract from an interview made by Lisa Cornish for DEVEX, Australia)

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- Del Bianco Foundation

Thank you for being CitySmart with Del Bianco!