

→ EARTH OBSERVATION FOR SUSTAINABLE DEVELOPMENT

Urban Development

City Academy: Geospatial Data Applications for Urban Development, Sao Paulo 16.-17.09.2019

Online platform for generating spatial analytics and statistics: UTEP

Tomas Soukup, GISAT





















Agenda and Speaker



Online platform for generating spatial analytics and statistics: Urban Thematic Exploitation Platform (U-TEP)

Speaker



Tomas Soukup

Senior Remote Sensing & GIS Consultant GISAT, Czech Republic

Outline of the Presentation



- Intro
 - Rationale
 - UTEP / EO4SD Urban cooperation
- UTEP in nutshell
- Storylines
- More Resources

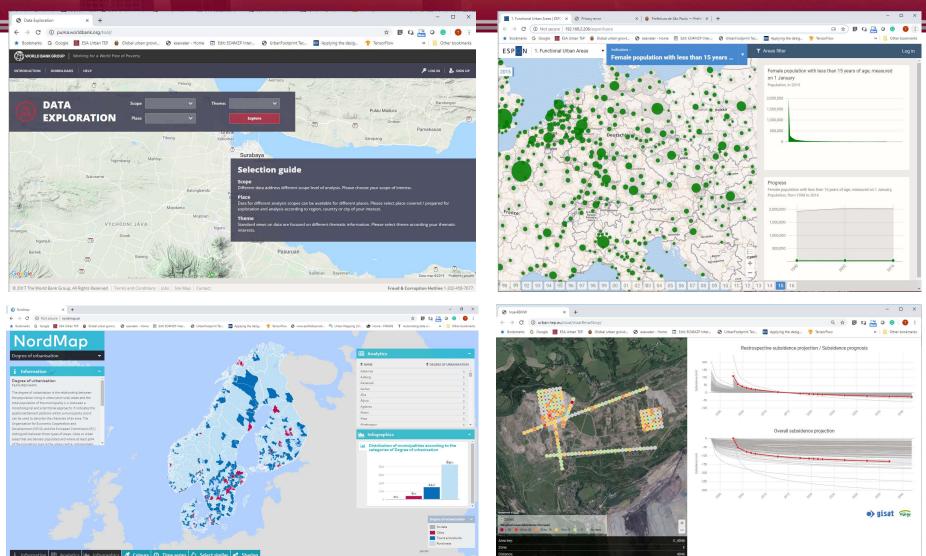


- EO4SD project work with a lot of data and generate a lot of information
- General redline of today space is a key for integration, but so much information from different sources starts to be difficult to digest
- While traditional delivery options are still to be continued, producers, users and citizens looks for alternatives new delivery modes which would manage integration of these vast of data and deliver in more understandable, informative way.
- Whole information sector is going this way and EO is not the other exception - big data analytics and advance visualization are more and more widely used, so the information are presented also in a bit more standards dashboard style allowing storytelling (not only factual, but also in emotional) to support the change and actions



• In GISAT, we are working in this direction for some years.







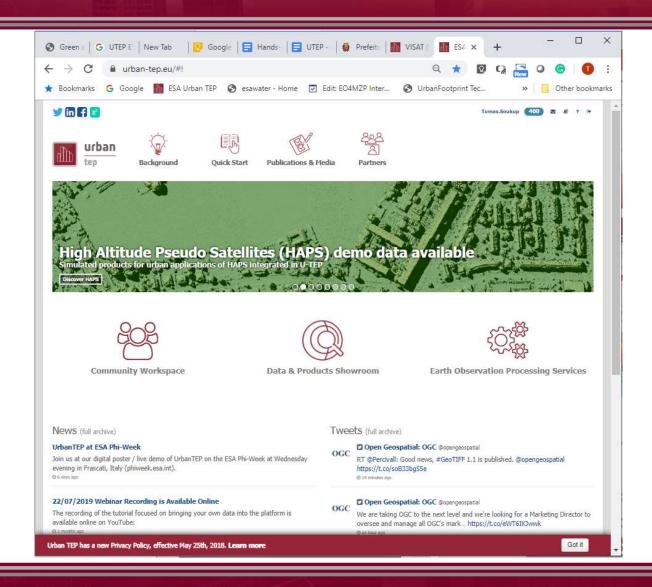
- For EO4SD Urban, we have teamed up with second ESA project called UTEP and integrated our data in this platform.
- In this presentation, we will deal with 2 examples:
 - 1- first presenting UTEP in EO4SD Urban context, functionalities and how you can use resources available
 - 2- showing Storylines what can be easily done when you already have some data integrated on the platform We have prepare for GPSC three of them, from our data and I will go quickly through to show you what you can done with it.



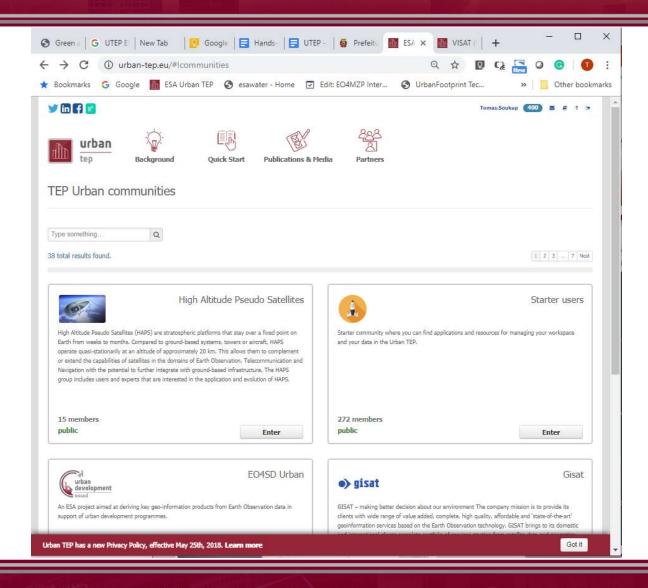
UTEP Tools for City Report contents and much more

- Interactive exploration
- flexible granularity (context hotspot detail)
- multiple modes interconnected (map/table/graph)
- seamless 2D/3D presentation
- user visualization support, live views sharing
- result exports in multiple way

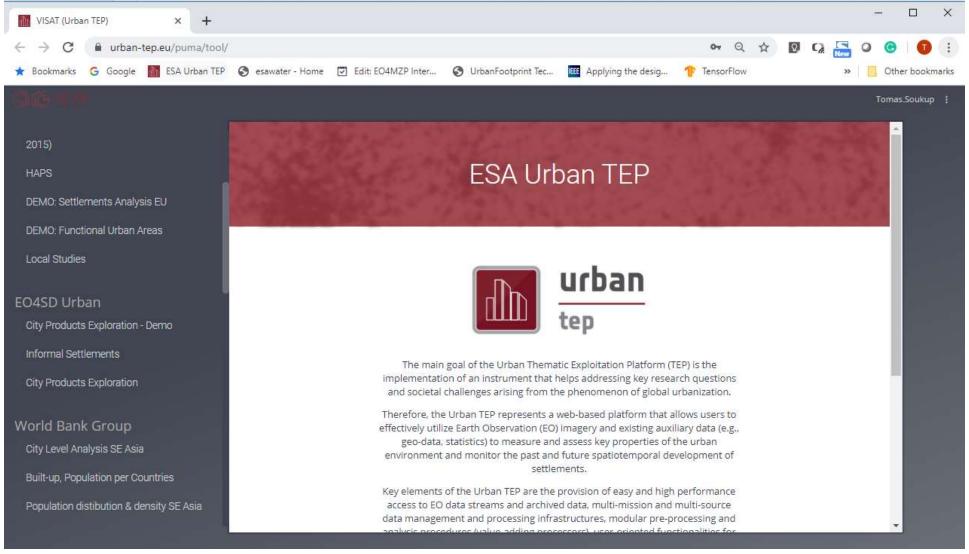








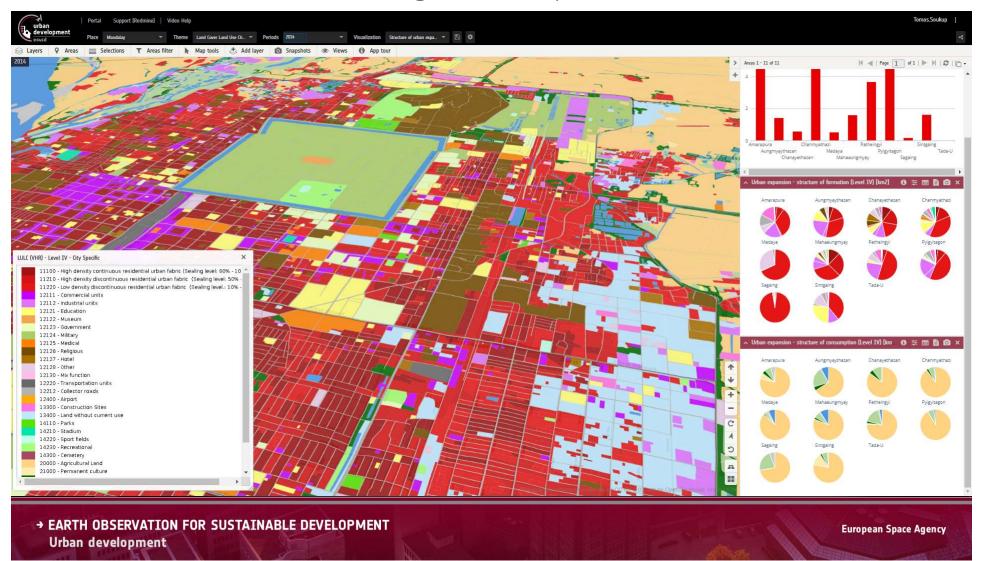








Statistics - understanding intensity and 'cons / forms' flows



Storyline

Global Urban Growth Dynamic Monitoring (using WSF)





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← → C @ urban-tep.eu/visat/scudeoStories19/globalWsf Q & 0 Q A 0 6 0 Settlement Area Expansion (area growth in km2) uster cities with similar evolution path and support lesson-learned exchange between individual cities Settlement Area Expansion (annual growth rate in %) Maximum settlement area growth rate (%) displayed:

O Full range
O 15%
O 5% ies in the context of existing urban policy framework in particular city and time

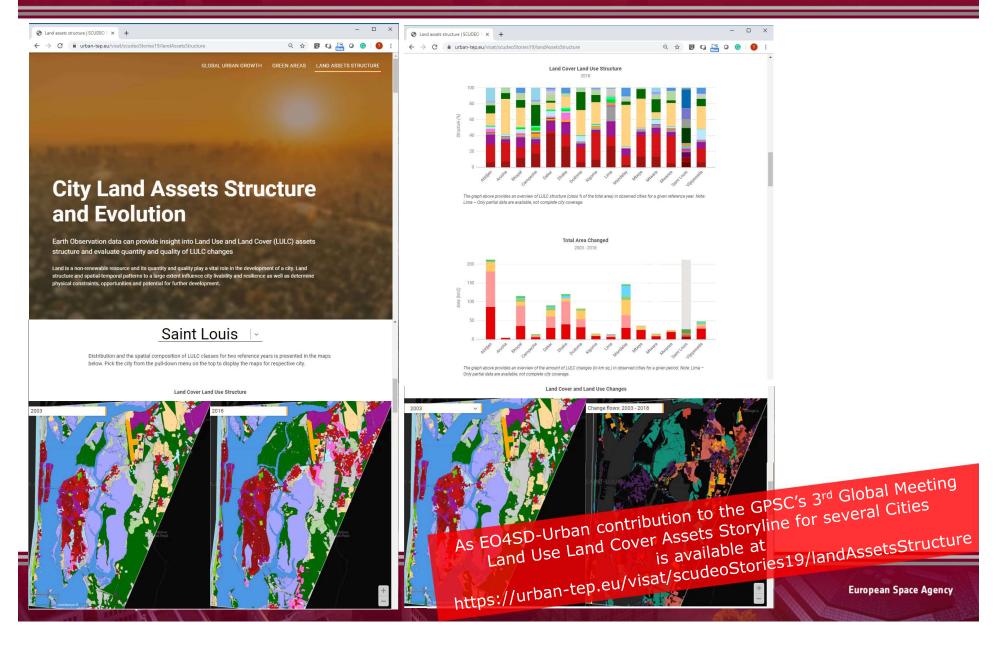
As EO4SD-Urban contribution to the GPSC's 3rd Global Meeting Urban Growth Dynamics Monitoring Storyline for all GPSC Cities https://urban-tep.eu/visat/scudeoStories19/globalWsfu

European Space Agency

Storyline

City Land Assets Structure and Evolution

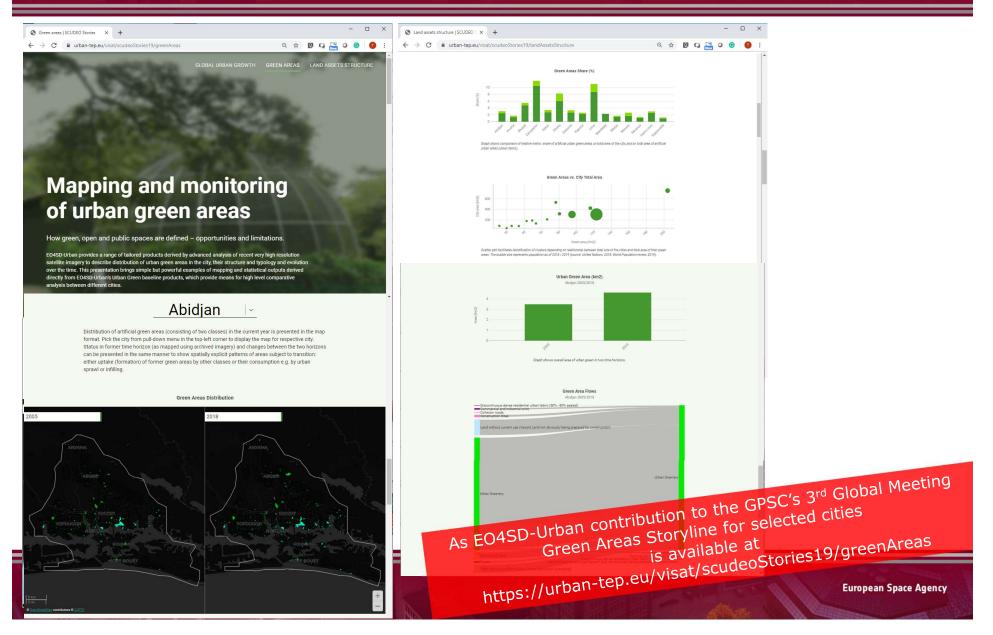




Storyline

Mapping and monitoring of Urban Green Areas



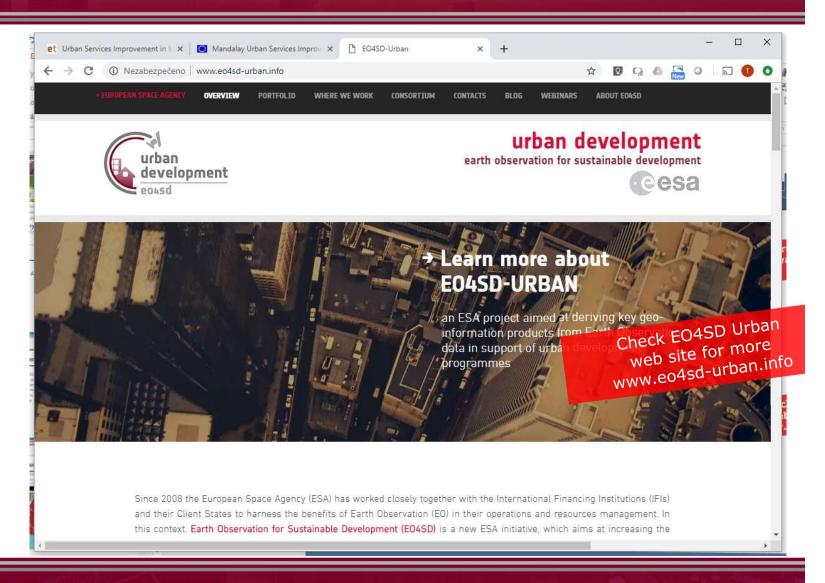




More Resources

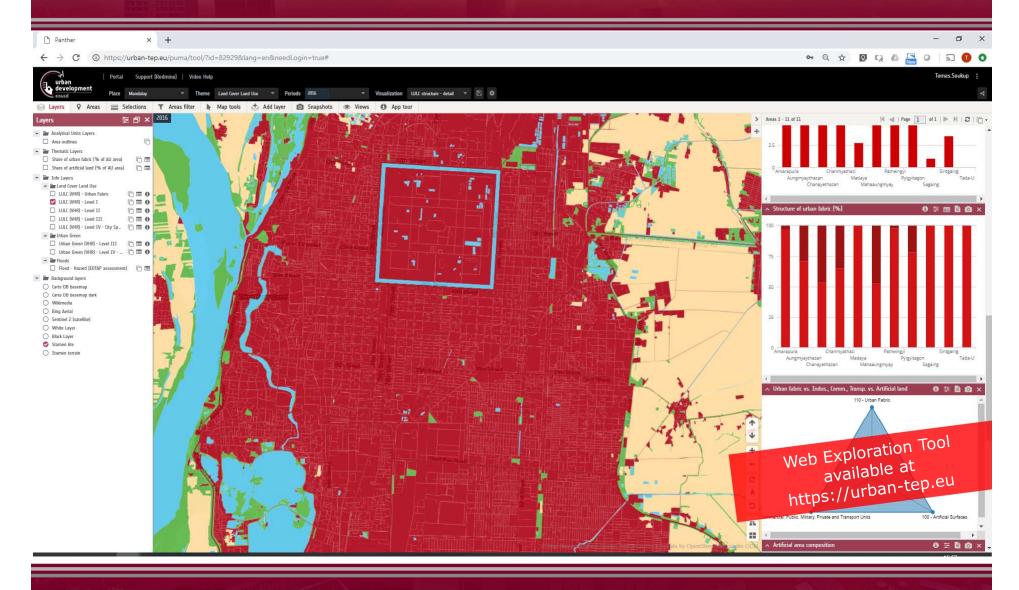
More Resources





More Resources





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Thank you for your attention!

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