

**→ MAPPING URBAN AREAS  
FROM SPACE CONFERENCE**

# MUAS Sessions Summaries

Highlights and Recommendations

4–5 November 2015 | ESA–Esrin | Frascati, Rome (Italy)

# Conference Highlights



- 86 abstracts / 29 oral presentations / 47 posters
- 135 participants
- 6 oral sessions + 1 poster session:
  - **Approaches to Global Urban Mapping** Thomas Esch (DLR)
  - **European Regional and National Mapping** J-P Cantou (IGN)
  - **Tools and Platforms** Fabio del Frate (Univ Torvergata)
  - **Urban Climate** Iphigenia Keramitsoglou (NOA)
  - **Sentinel 1 methods** Paolo Gamba (Univ. Pavia)
  - **Emerging issues & methods** Yifang Ban (KTH)
- MUAS contributes to shaping the **next generation of R&D activities** that will be funded by ESA in the framework of its future Earth Observation Programmes, and in particular by the EOEP-5 (2017-2022).

- a short **description of the session** (highlights & key messages).
- a **list of recommendations** to ESA but also to the EC, GEO and to other R&D funding agencies (e.g. National research programs, H2020, DG-REGIO, GEO Urban, WB, Copernicus land services).

**Recommendations** should address, not exclusively and if relevant to the session:

- the **R&D primary activities** that ESA (and other R&D funding agencies) should fund to address the most important challenges in urban mapping;
- the development of new **innovative approaches** to urban mapping (e.g. multi-scale analyses, multi-source remote sensing, HR time series processing, 3D urban mapping, citizen science, etc.);
- the use of EO in **emerging urban issues** such as urban climate resilience or urban ecology;
- the support that ESA and other R&D funding agencies could provide for the development and implementation of **urban policies**, in Europe and worldwide;
- the support to the **validation and cross-comparison** of urban thematic geo-information data sets.
- the Sentinel data **acquisition scenarios** (in particular for Sentinel 1);
- the services that the **ESA Urban TEP** or other cloud-computing platforms should provide to researchers and urban practitioners for developing, benchmarking and testing new approaches, but also for upscaling large scale demonstration and for bulk data processing;
- the needs for **new urban-related satellite missions** (e.g. HR TIR for urban climate).

# Let's meet again



- Living Planet Symposium (LPS 2016)  
Prague, Czech Republic from 9-13 May 2016  
<http://lps16.esa.int>  
Urban sessions still to be defined
- MUAS conference in 2017 ?