

ISPRS Forum track

Multi-source data collection for national/regional-wide mapping

<https://www.isprs2022-nice.com/index.php/session/multi-source-data-collection-for-nation-regional-wide-mapping/>

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4pm – 7pm

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Introduction

Climate change is disrupting our environment and forcing us to change our behavior. In support of public policies, reliable and frequent observations of the territory are required. National mapping and cadastral agencies (NMCA) are facing the challenge of up-to-date cartography of a constantly changing territory. The profusion of earth observation data (spatial and aerial images, drone images, lidar data, mobile mapping data, collaborative data) is of course an asset, but combining them optimally remains a technical, economic and organizational challenge. This forum will allow, on the basis of presentations by holders of use cases, by industrial suppliers of technical solutions and by users of these solutions, to outline scenarios of technological mix.

Introducing the methodology: 3 steps, 5 keynote speakers, + collective work sessions

1. Use-case presentation

Keynote speakers are invited to present their use case(s): what is it precisely, how it is addressed, on a technical, economical, organisational point of view...

keynote presentations 20mn

- use cases on Strasbourg; Olivier Banaszak (Ville et Eurométropole de Strasbourg - France) 10mn
- use cases on Brazil; Antonio Maria Garcia Tommaselli (Unesp, Presidente Prudente - Brazil) 10mn

collective work session 20mn

- Post-it workshop to identify
 - 1) strengths and potential limits of the use cases which have just been presented,
 - 2) other important use cases to keep in mind.

+Vote to select the use case to address later in the workshop.

2. Earth observation data : state of the art

keynote presentations 30mn

- Satellite imagery; Michael Tonon (Airbus Defence and Space - France) 10mn
- Aerial imagery; Marcos Martinez (European Association of Aerial Surveying Industries) 10mn
- Drone acquisition; Francesco Nex (ITC, University of Twente – the Netherlands) 10mn

collective work session 30mn

- Post-it workshop to 1) identify opportunities and obstacles for using one or another source of earth observation

3. Mix approaches for a specific case study

- Work session (in sub-groups) to further specify the previously selected use case, and explain how to address it 35mn
- **Conclusion:** each keynote speaker is invited to comment the proposals and conclude in 5 mn 25mn