

Short introduction to EuroSDR current activities that could connect to research and innovation on Land Cover/Land Use

LAND COVER / LAND USE Workshop Bruxelles, November 15th, 2017

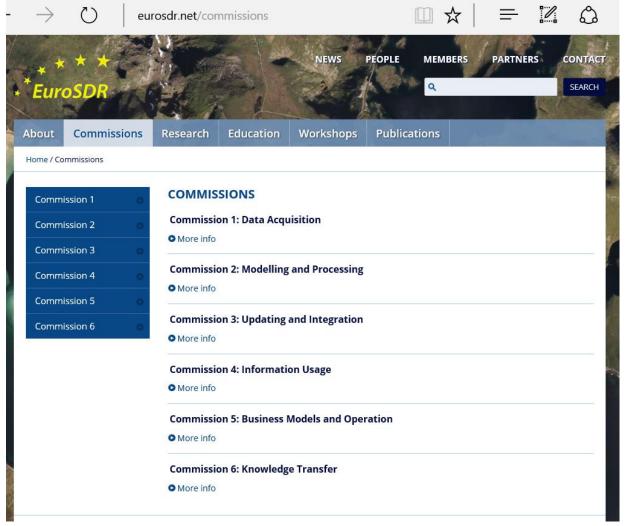
Bénédicte Bucher, IGN, France, GI research department EuroSDR, Commission IV



EuroSDR (European spatial data research)

a not-for-profit organisation

linking National Mapping and Cadastral Agencies with Research Institutes and Universities and Industry in Europe for

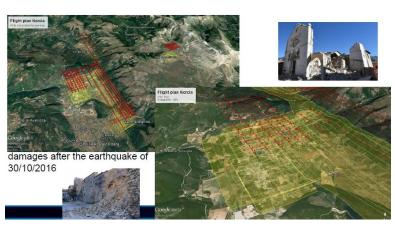


timely applied research and benchmarking in spatial data provision, management and delivery.

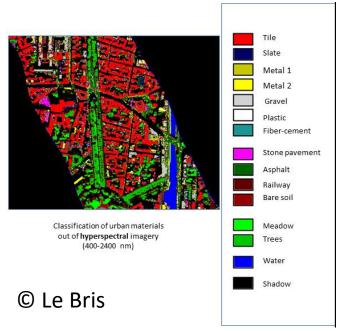


BENCHMARKING NEW SENSORS

(SEMI-)OBLIQUE IMAGERY, HYPER-SPECTRAL



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- WHAT IS NEEDED FOR SUCESSFUL BENCHMARKS: Access to ground truth, sensors, acquisition data, simulated data, experts assessing what needs to be surveyed
- Commission 1 chair : Jon Mills, jon.mills@newcastle.ac.uk

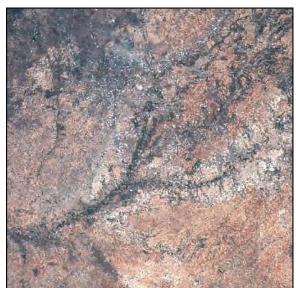
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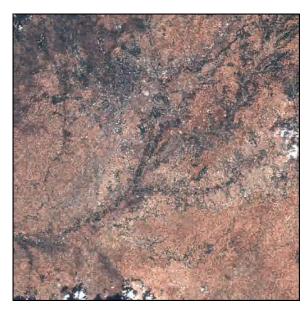


NEW DATA WITH HIGHER TEMPORAL RESOLUTION

- SENTINEL-2 Series of workshops
- National collaborative ground segments, mirror site, geometric and atmospheric corrections, high revisit rate
- Next one late 2018, Oslo (Norwegian Space Centre).



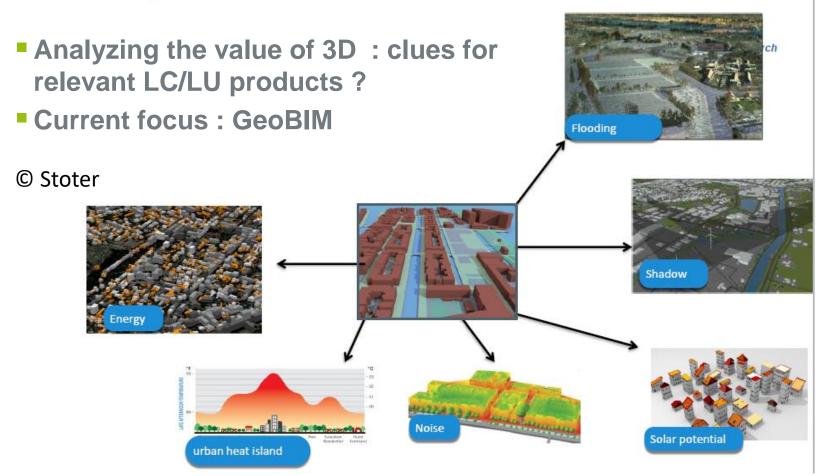




Commission 3 chair : Jon Arne Trollvik Jon.Arne.Trollvik@kartverket.no



3D DATA: IMPORTANT FOR SOME LC/LU PRODUCTS?



Commission 2 chair : Jantien Stoter, j.e.stoter@tudelft.nl





HISTORICAL DATA

GUI FOR HISTORICAL DATA

New retrieval and new browsing paradigms



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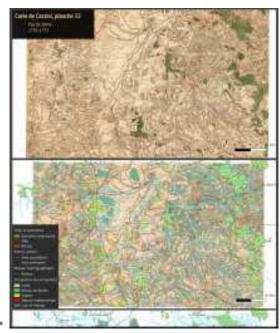
Community and crowd sourced registration and vectorization



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Constitute a technical group
© Produit
around shareable software and protocols

Commission 4 chair : Benedicte.Bucher @ ign.fr



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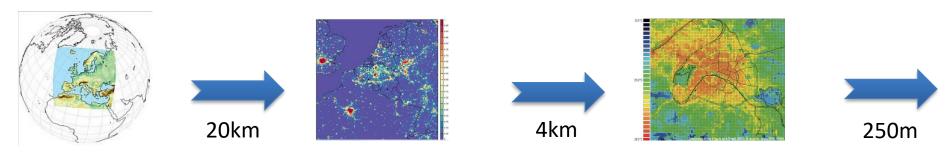
INFORMATION INFRASTRUCTURES, GEOWEB

- APPROACH: IDENTIFY REAL PROBLEMS THAT CAN BE SHARED BETWEEN SCIENTISTS, DEVELOPERS and PRACTITIONERS
- REAL PROBLEM: a difficult task illustrated by real data that scientists can use in their proves of concepts, in a meaningful way for practitioners
- 3 CATEGORIES OF REAL PROBLEMS IDENTIFIED TO STRUCTURE THE ACTIVITY
 - Catalogues and metadata → a metadata sandbox geometadatalabs.eu- to produce real about user-oriented access to expert data (next slide)
 - Integration and vizualisation → multiscale, cross border, cross domain
 - Proposing generic data mediation processes –complementary to federated schema approach- that can be adapted to produce relevant information products for a given application → LC/LU seems to offer many real problems in this area
- Commission 4 chair : Benedicte.Bucher @ ign.fr



USER-ORIENTED METADATA ABOUT DATA PRODUCTS AND PROCESSES

- A metadata sandbox –https://geometadatalabs.eu- to produce real about user-oriented access to expert data
- Use case: European ER4CS URCLIM project. Climate change scientists require land use products (or the recipe to produce them) to down-scale their models, and land cover products (or the recipe to produce them) to evaluate impacts.
- Downscaling from regional climate models to city scale & assesment of uncertainties, multi-criteria impacts evaluation, communication to stakeholders



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- Urban heat island & heat waves, precipitation, snow cover, economy,...)
- · Use case: Toulouse, Gent, Brussels, The Ranstad, Bucarest, Helsinki, Paris
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