



MINISTÈRE
DE L'AGRICULTURE
ET DE L'ALIMENTATION

*Liberté
Égalité
Fraternité*



106th DGINS conference

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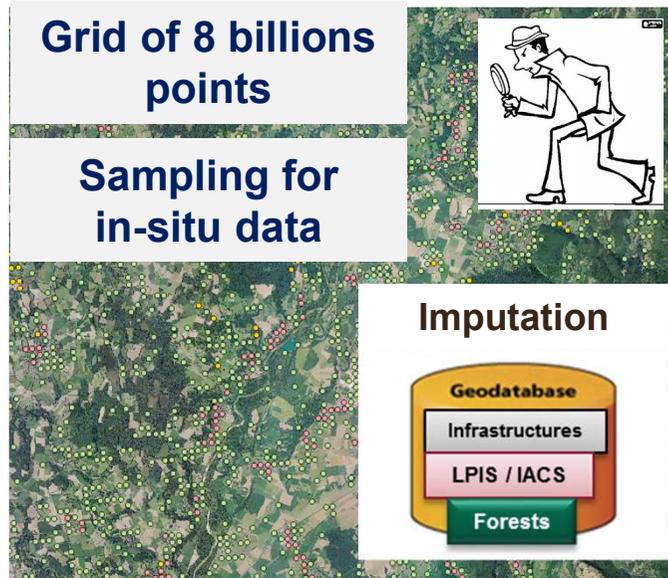
*Including earth observation data into a in-situ
land use survey?*

Comparisons between « in-situ » and « remote-sensing » collection mode for land cover data

To compare land cover data from...

Teruti survey

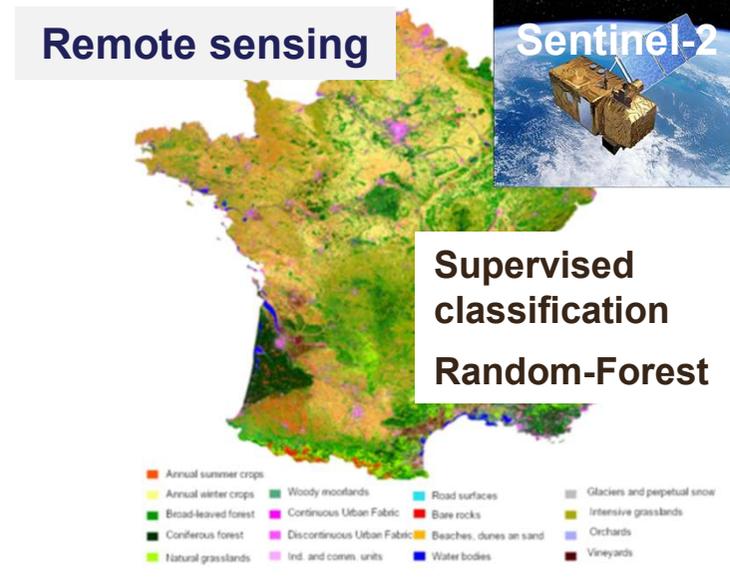
(Ministry of Agriculture and Food)



vs

OSO map

(Cesbio – research lab.)



To compare land cover data from...

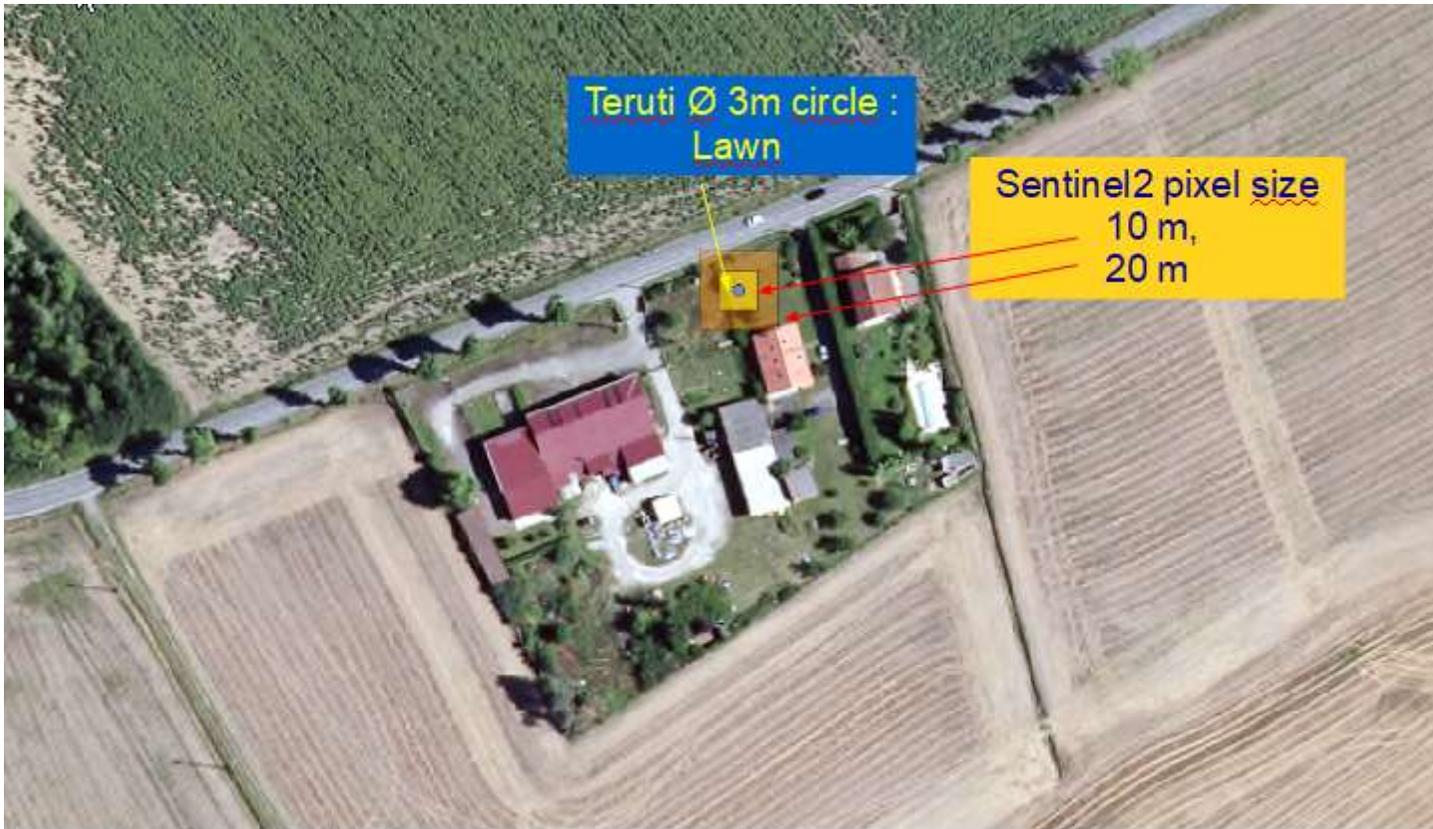
Teruti survey

vs OSO map



Less precise classification:
7 classes

=> **different spatial resolutions**
Lawns and gardens in urban areas
Bare land vs grassland





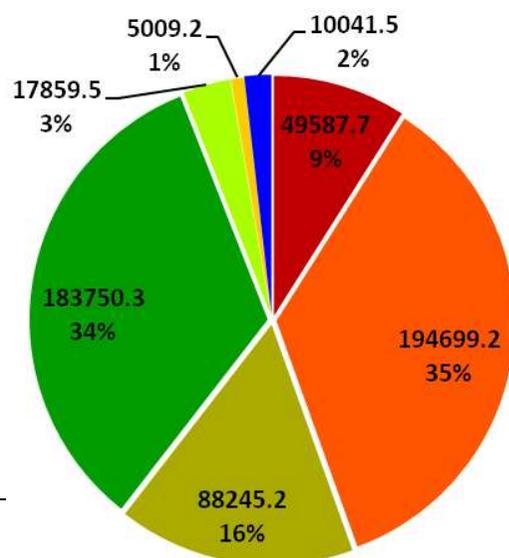
Comparison of Teruti and OSO results

Surface area by land cover

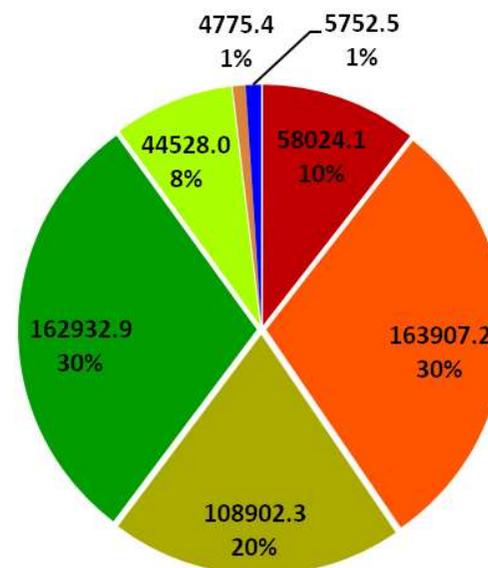
France 2017-2018-2019

km² and percent of total surface area

TERUTI



OSO



- Urban
- Cropland
- Agricultural grassland
- Woodland
- Shrubland
- Bareland
- Water areas

What's next?

Replacing precise data with less precise ones?

- ✓ Not for the moment
- ✓ Users ask for a precise measure of artificialization

Including remote-sensing data into the survey process



- ✓ Objective: to decrease the size of the sample of points measured in-situ by an 'interviewer'
- ✓ Teruti sampling scheme: stratum of non-changing points based on OSO

Including survey data into the remote-sensing process



✓ In-situ data for the supervised classification modelling

Thank you for your attention

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