



**RÉPUBLIQUE
FRANÇAISE**

*Liberté
Égalité
Fraternité*

**Institut national de l'information
géographique et forestière**

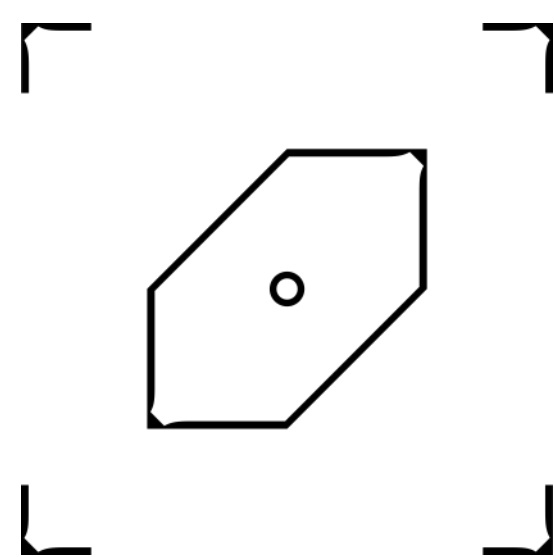
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INSTITUT NATIONAL
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ET FORESTIÈRE

**CHANGER
D'ÉCHELLE**

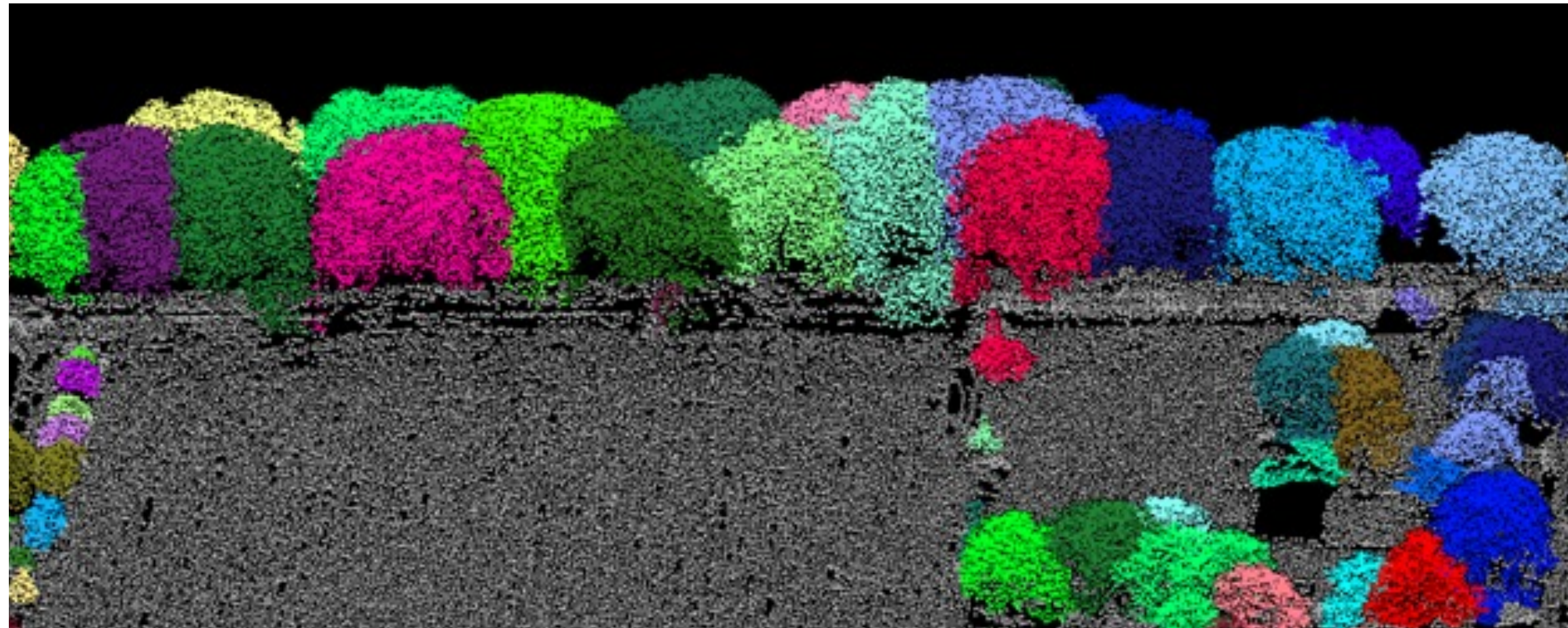
MAPS AND DATA

TO TACKLE
CLIMATE CHANGE



KNOWLEDGE OF THE TERRITORY HAS NEVER BEEN MORE NECESSARY

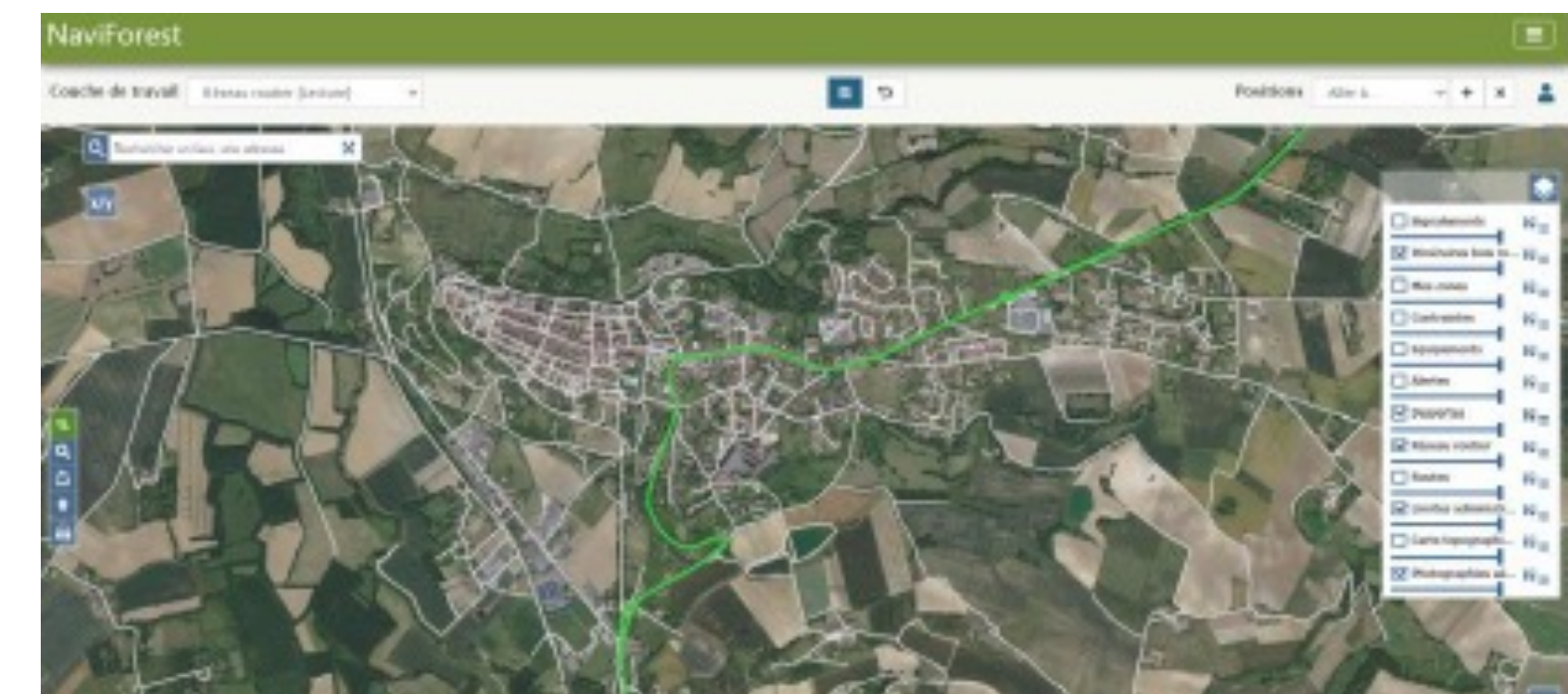
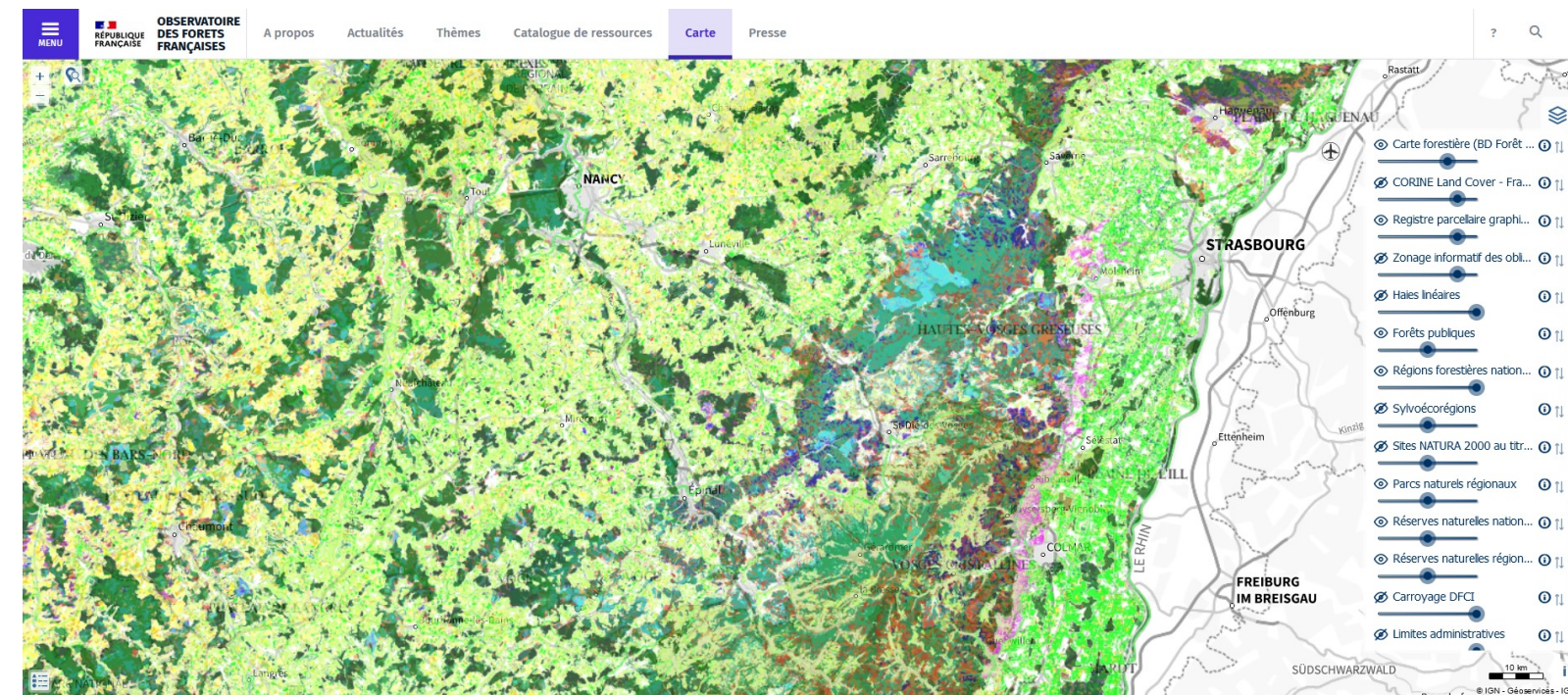
Large scale land cover&use product with AI and
community sourcing from space&aerial imagery

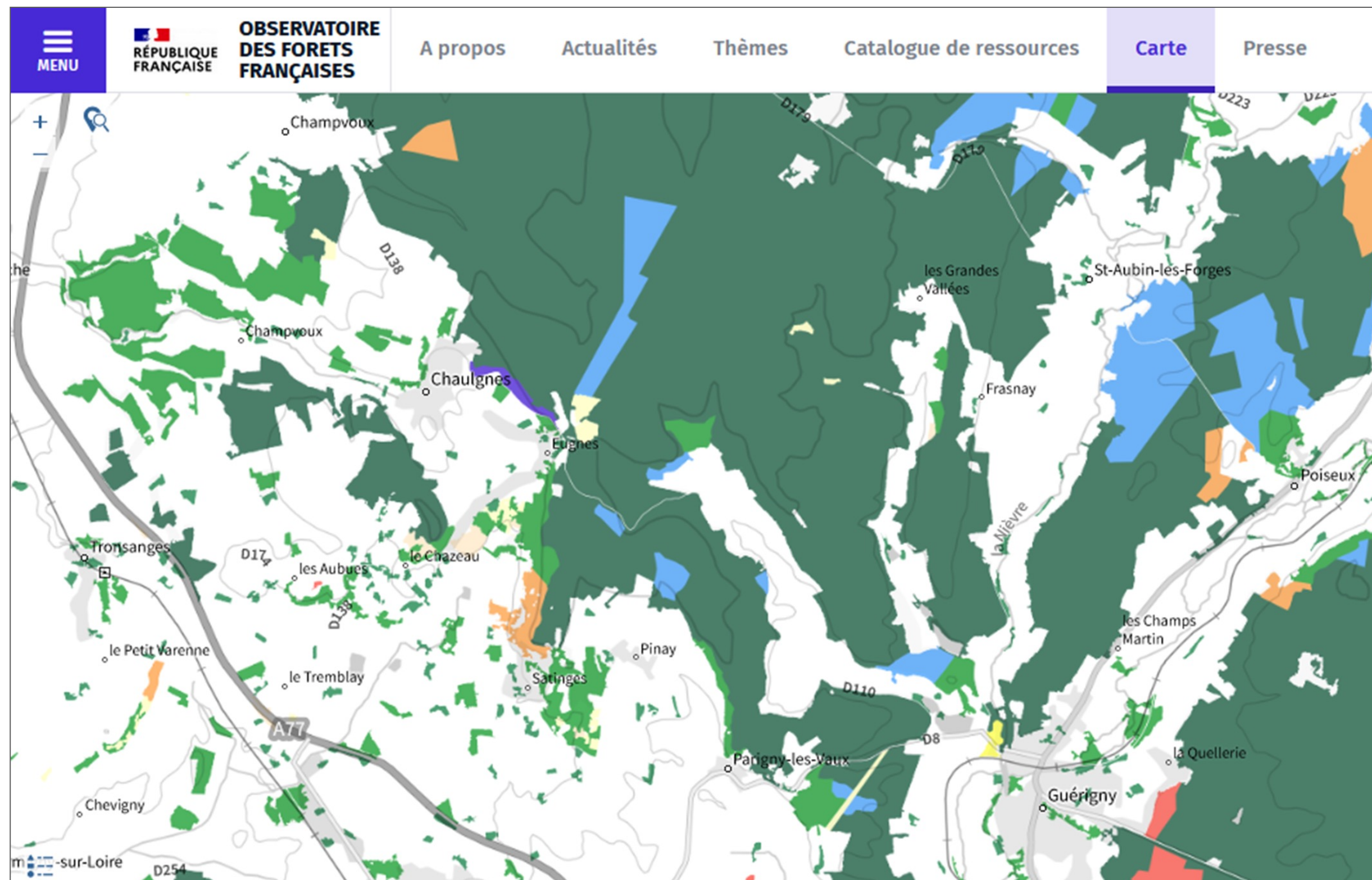


Ex. : monitoring hedgerows using LIDAR and AI

ENABLING A DATA-BASED MANAGEMENT OF A CRUCIAL AND COMPLEX ECOSYSTEM: FORESTS

Observatory of French forests





INTERACTIVE MAPS: HAVING COMMON LANGUAGE WITH ALL PLAYERS

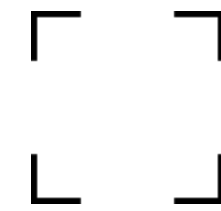
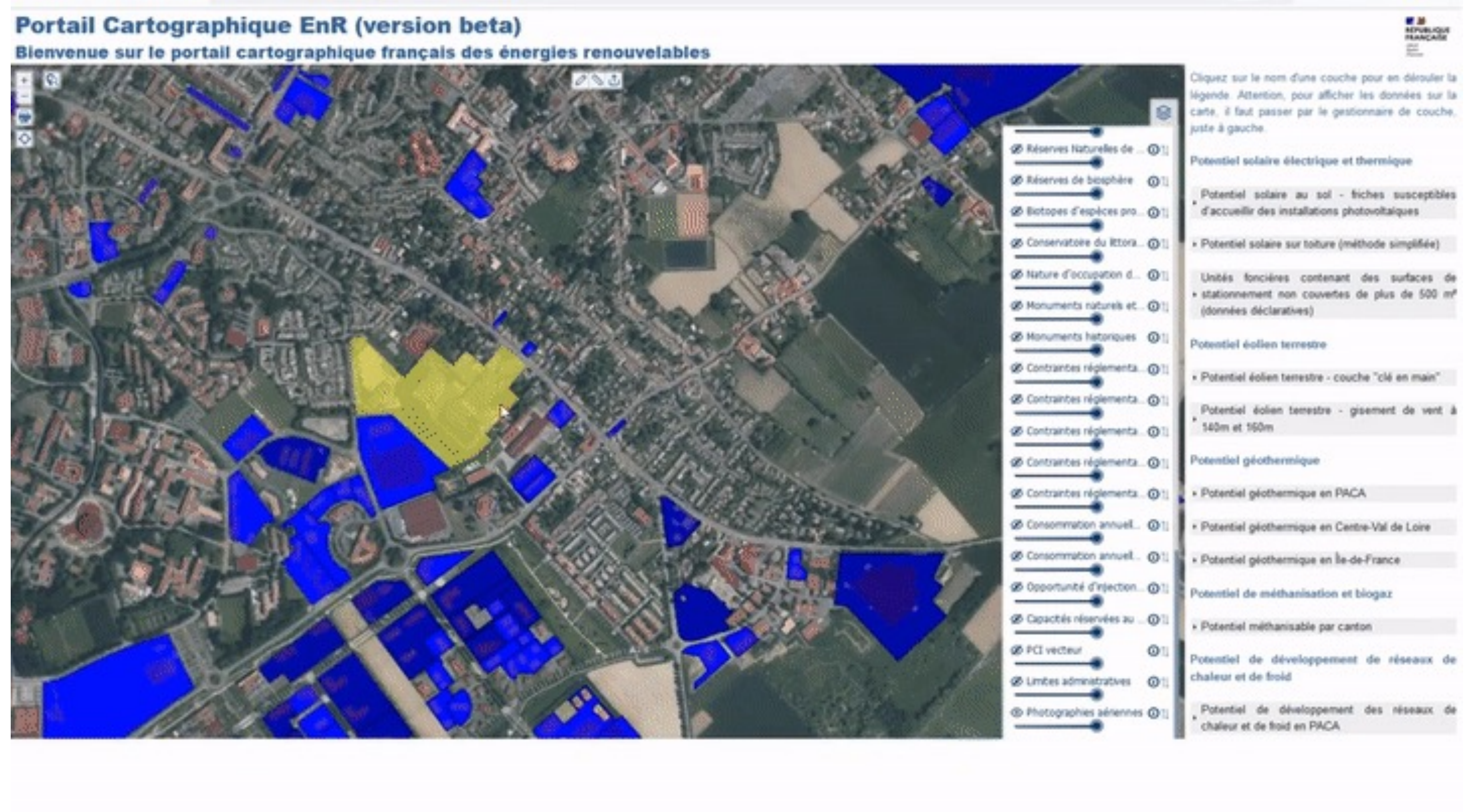
Basemap with reference data

Thematic maps:

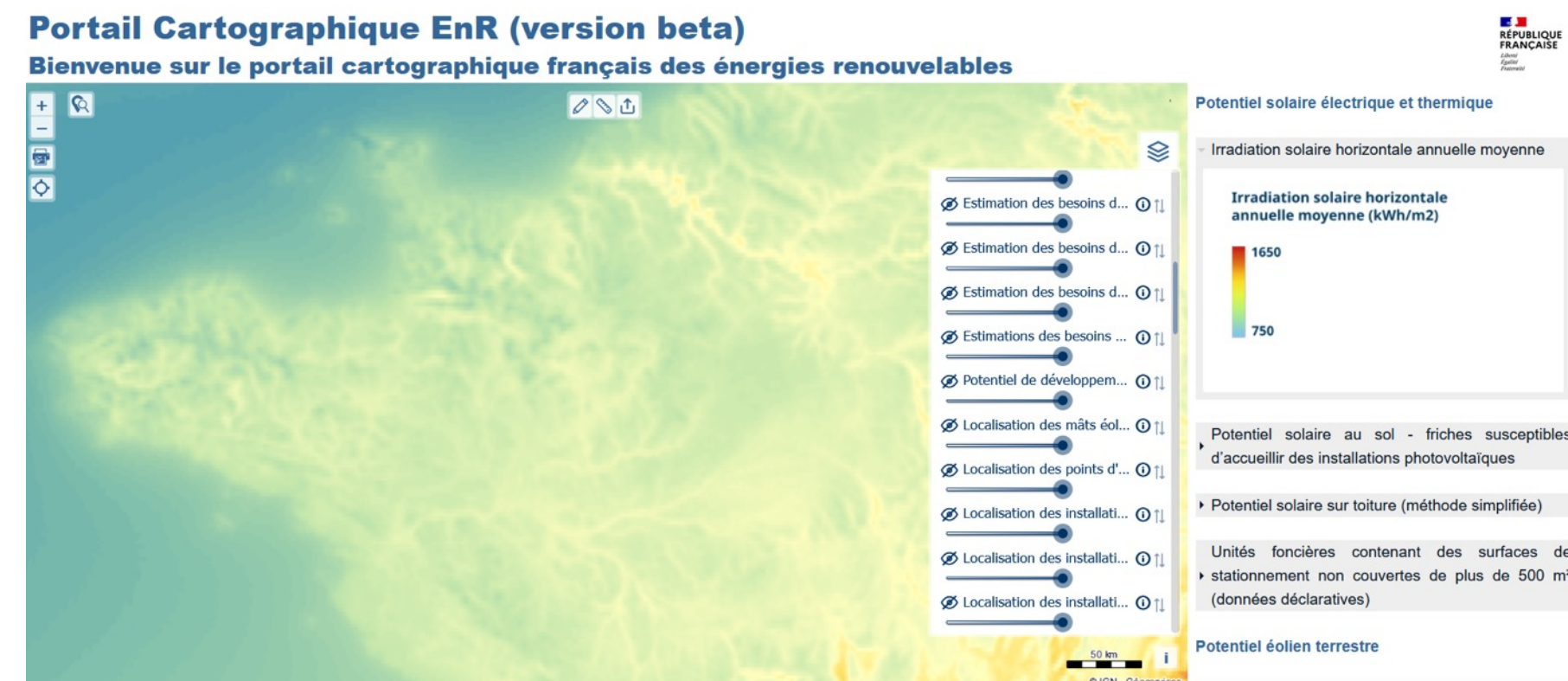
- No signs of management
- Strongly protected areas
- Afforestation: afforestation rate
- Damage caused by bark beetles:
- Difficulty of physical access
- ...

Observatory of French forests

SUPPORT TO DEFINE THE RENEWABLE ENERGIES DEVELOPMENT AREAS



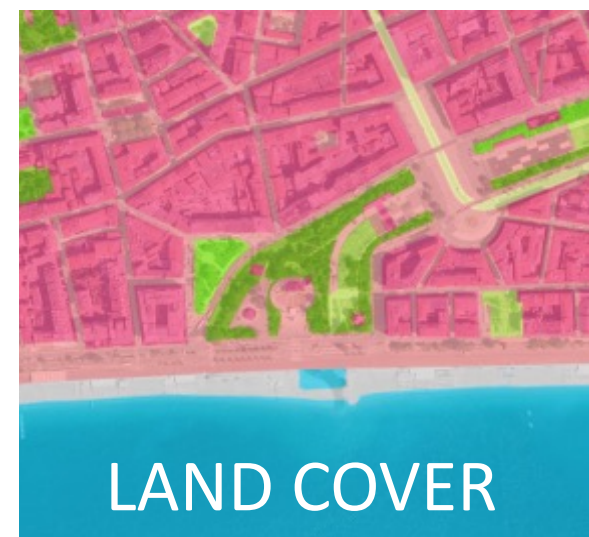
R.E. mapping portal



TOWARDS A NATIONAL DIGITAL TWIN TO PLAN THE GREEN TRANSITION



3D digital replica with semantic enrichment and interoperability with other DBs, digital twins, and sensors



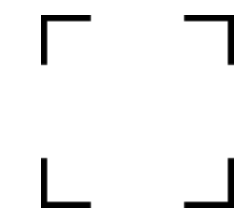
Use cases:

- Risk management (floods, marine submersions, etc.)
- Geo-optimisation of windmills and solar panels networks
- Biodiversity preservation
- Epidemiology
- Water and soil management
- Sustainable agriculture
- Mobility ...

Needs for:

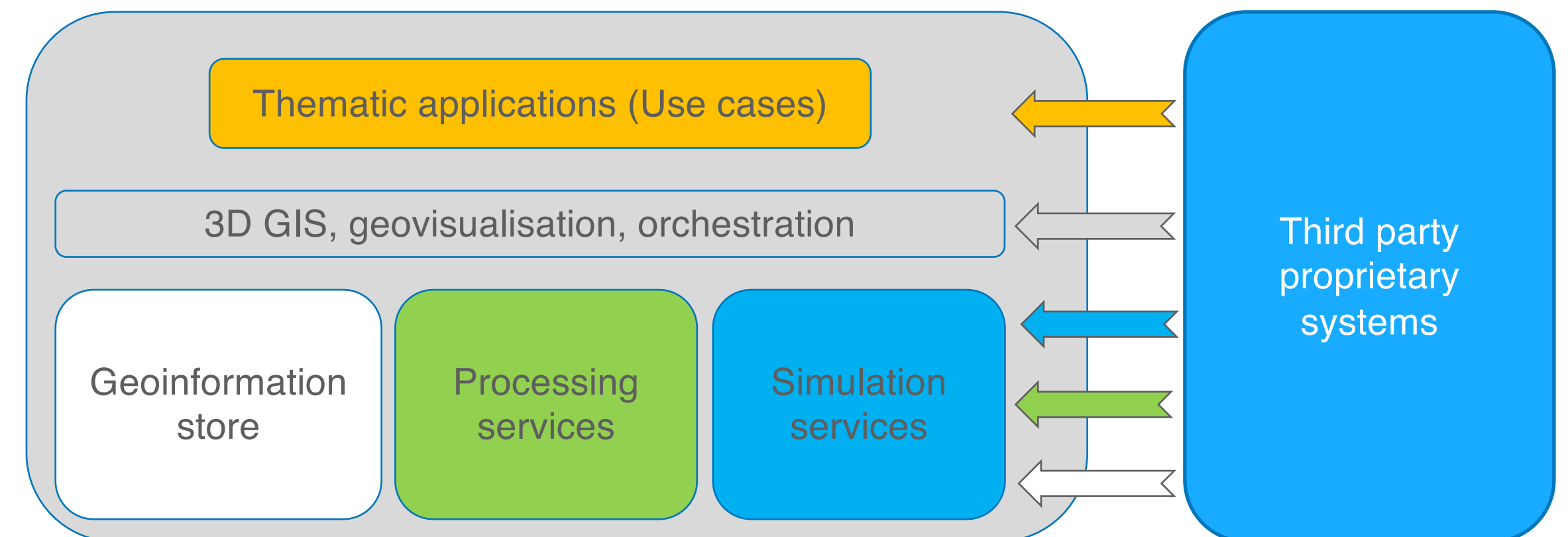
- Up-to-date geoinformation
- Simulation capacities
- Dashboards
- Convincing and reliable representations
- Sovereignty ...

A digital twin for the whole France to assist the state, local authorities and industrial players



An Open Science and Open Innovation platform

A Science and Market place



COOPERATION MUST BECOME AN INSTRUMENT OF EMPOWERMENT TO MEET CHALLENGES

Open data is just the first step:
Gathering NMCA's
to create European commons

SUPPORT THE EUROPEAN PUBLIC POLICIES

- 1 — Working with European agencies
- 2 — Mutualising tools and projects
APIs, sand box, project accelerator
- 3 — Through common spaces
(Geoplatform, GeoCommons Factory)
- 4 — According to the principles
of shared governance

OPEN UP THE DATA



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