Parc national des Ecrins

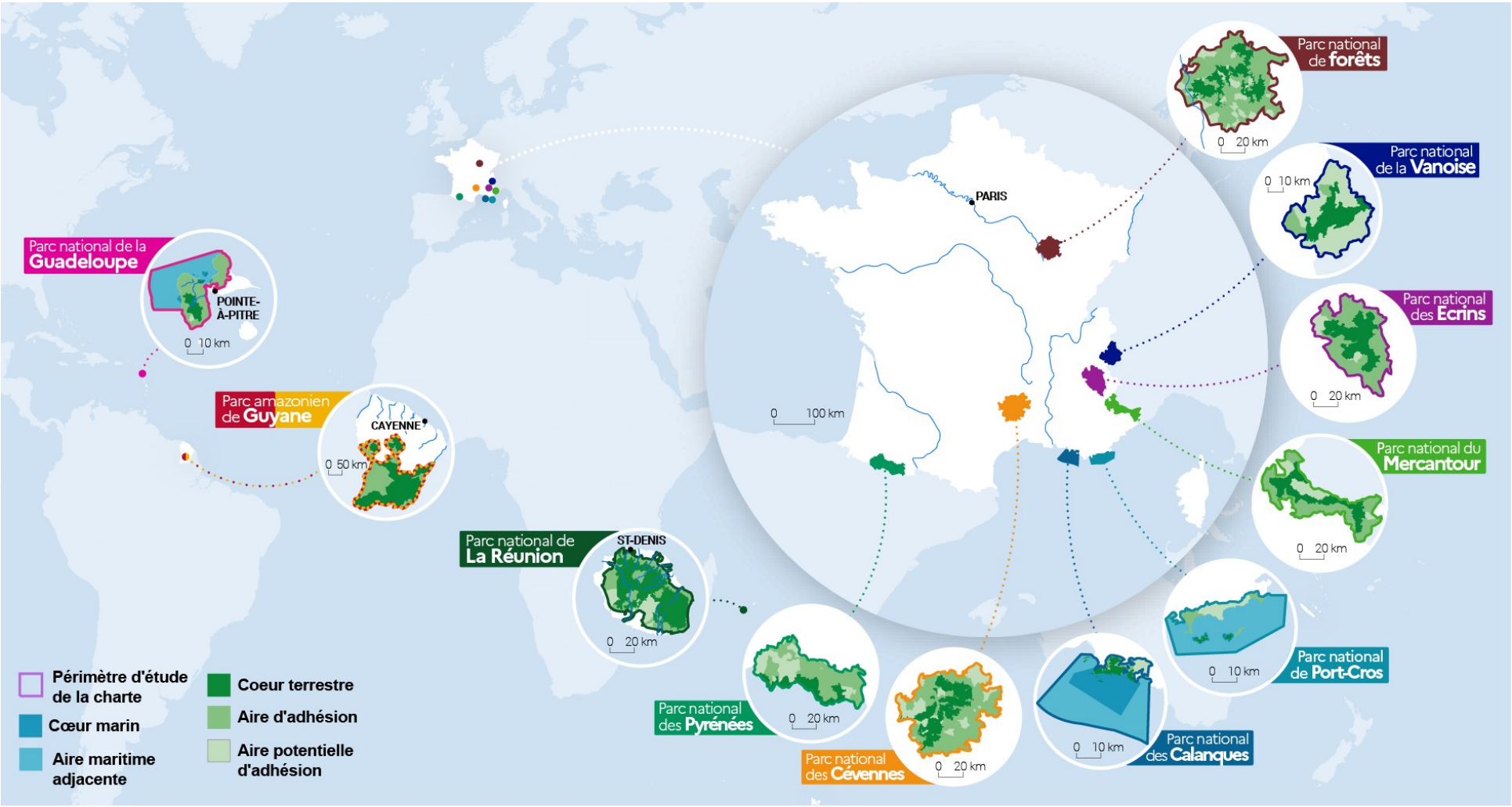
GeoNature

An open source biodiversity information system

Zygène de la petite coronille
© Donovan Maillard / Parc national des Ecrins

11 national parks in France

Les parcs nationaux de France



Source : *IGN, Les parcs nationaux de France.Traitements : SDES - OFB, 2021*

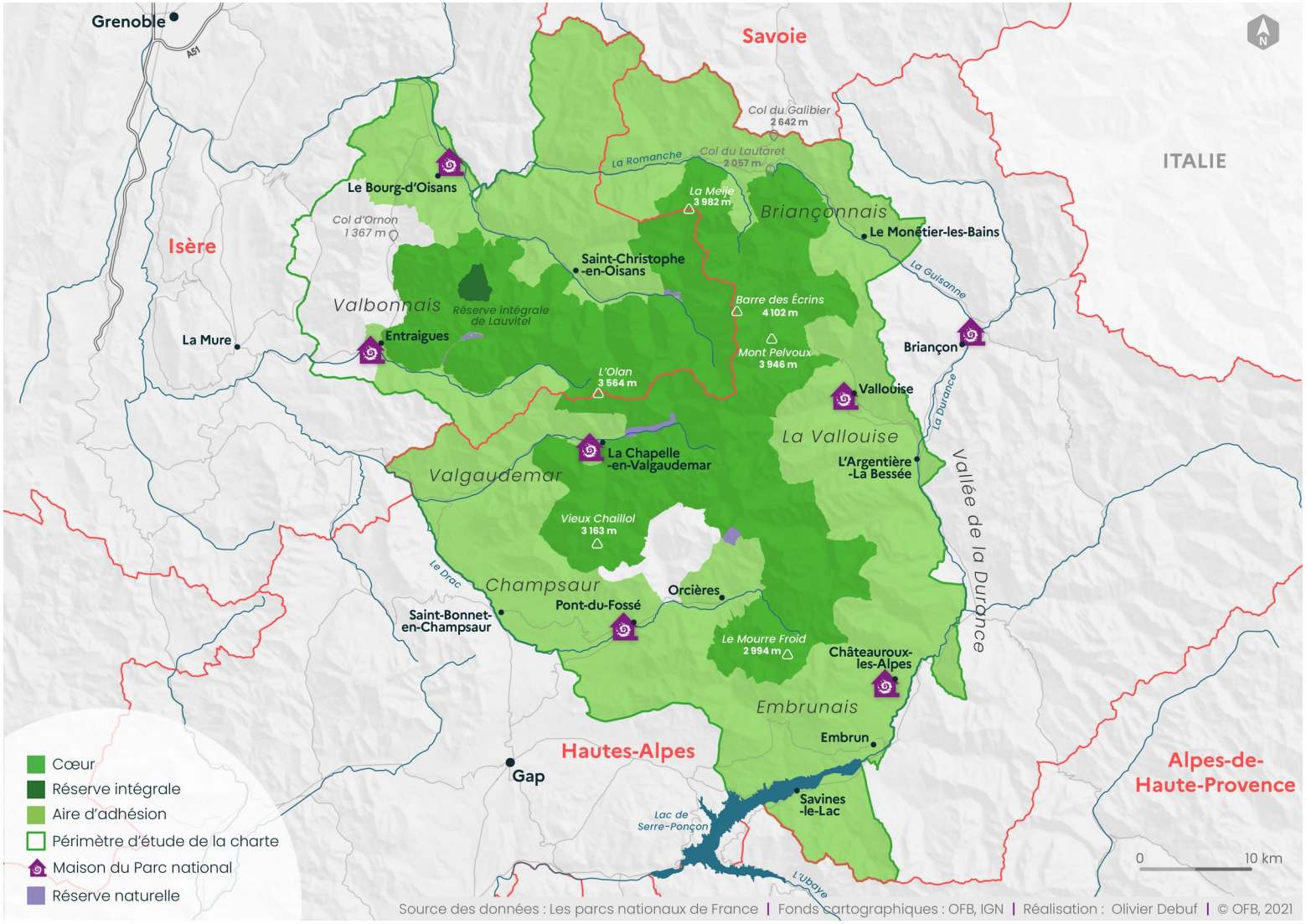
OFB OFFICE FRANÇAIS DE LA BIODIVERSITÉ

MINISTÈRE DE LA TRANSITION ÉCOLOGIQUE
Liberté Égalité Fraternité

11 national parks in France

11 national parks in France

Ecrins national park

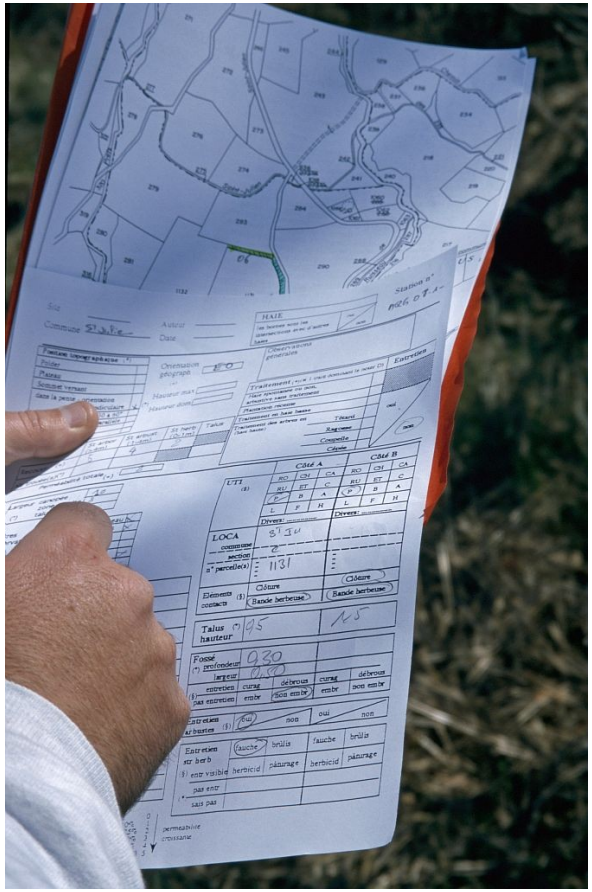


- Created in 1973
- 53 municipalities

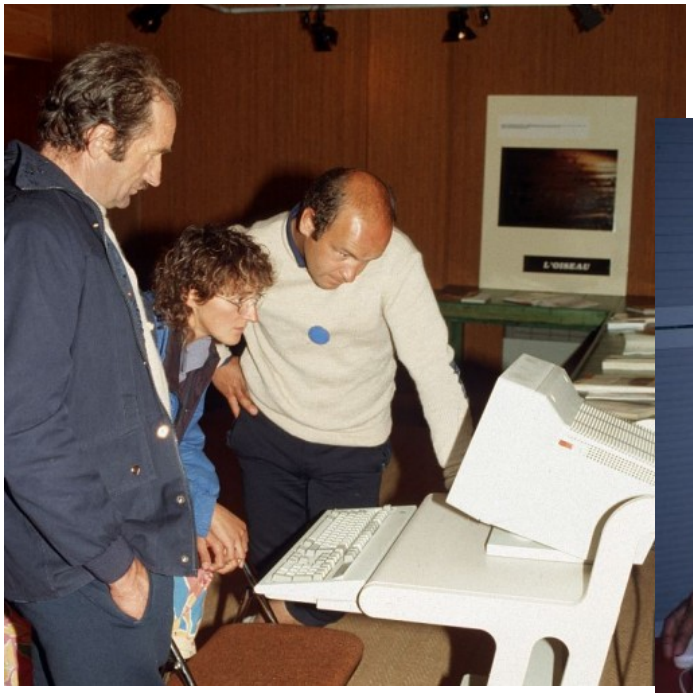
Ecrins national park - Informations system (IS)

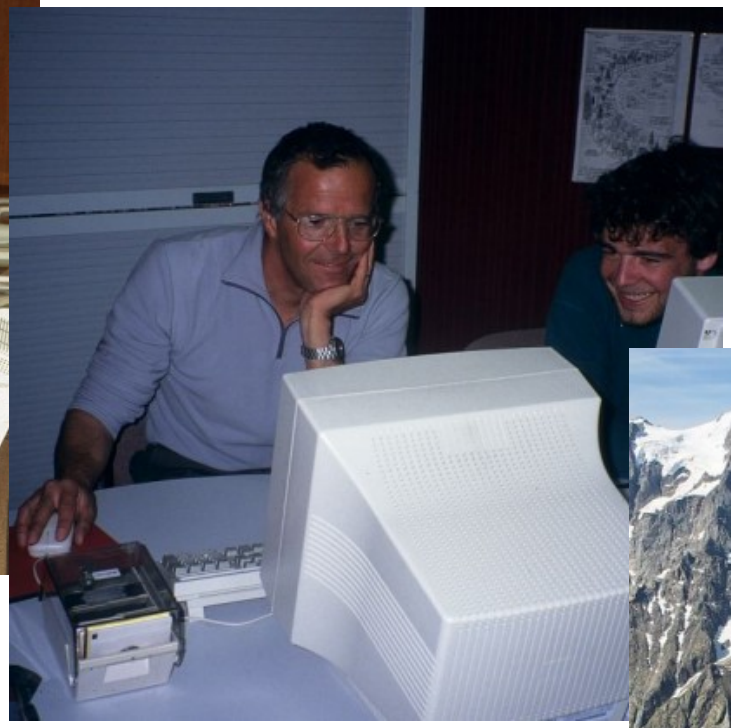
~ 90 agents
Informations system (IS) pole :
- 1 computer scientist
- 1 database manager and web developer
- 1 IS responsible + GIS

Collecting data

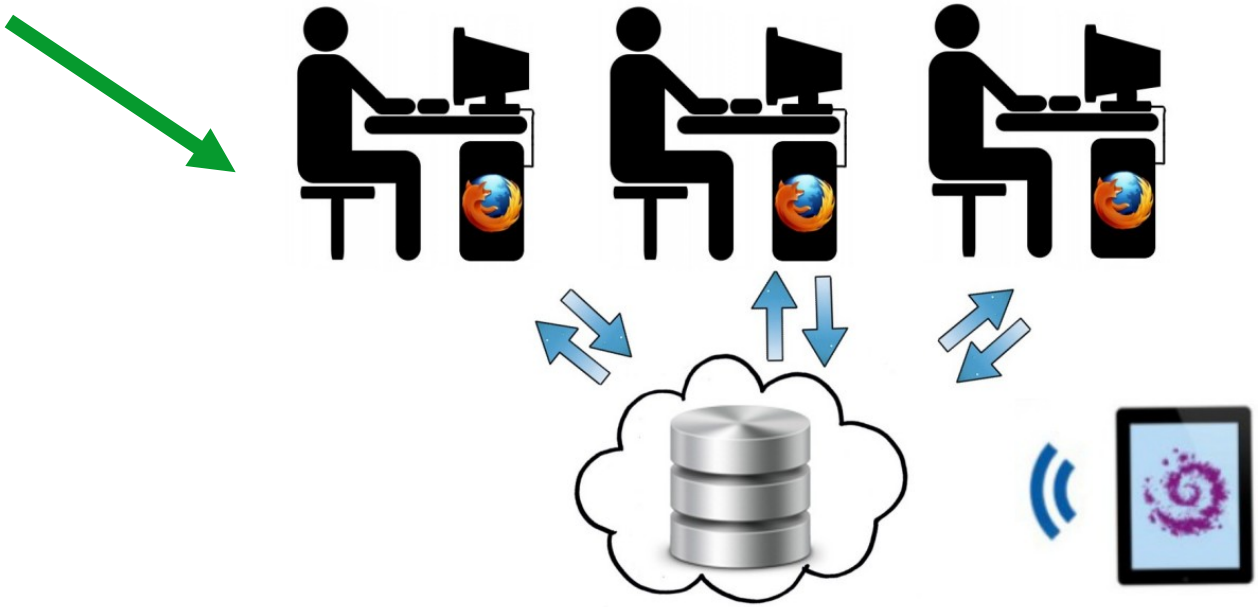


Collecting data

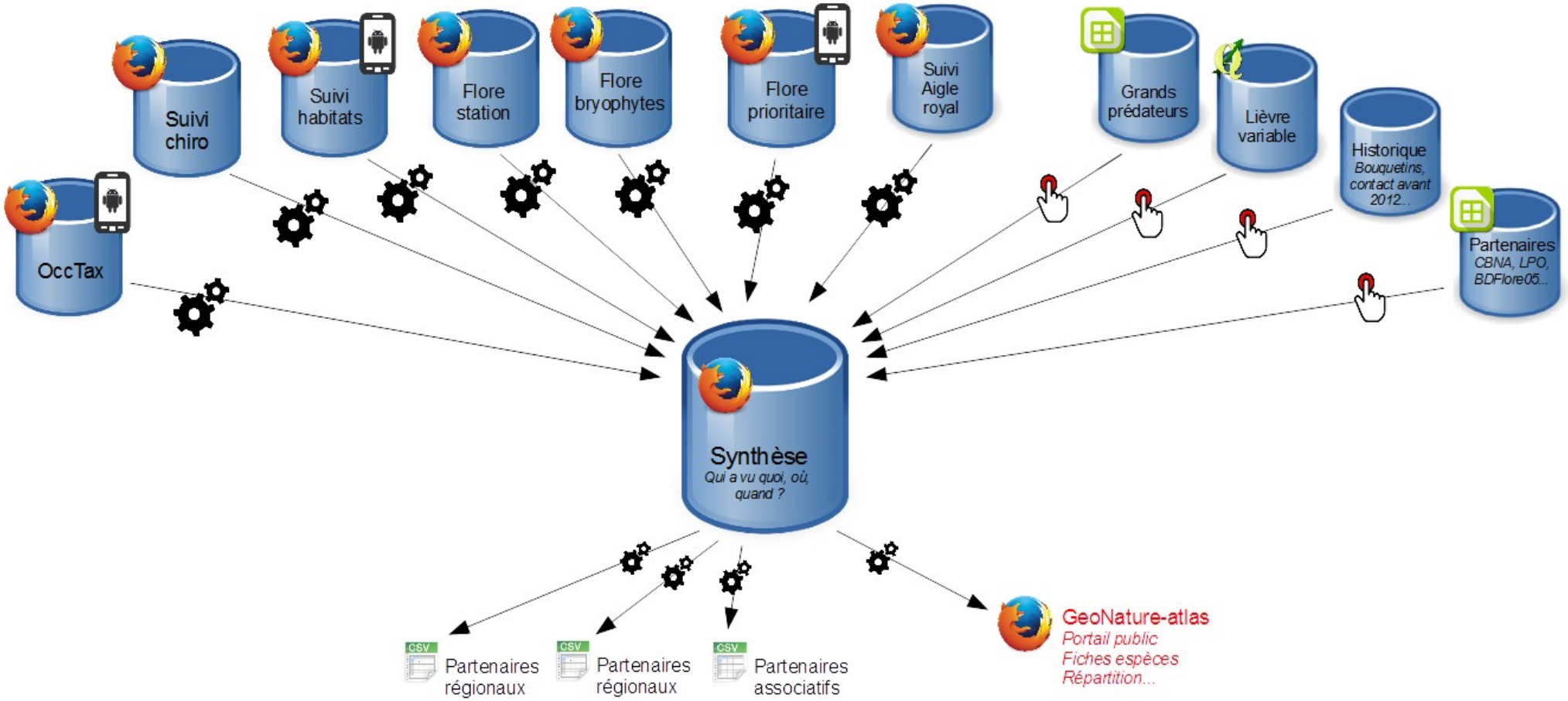




Collecting data

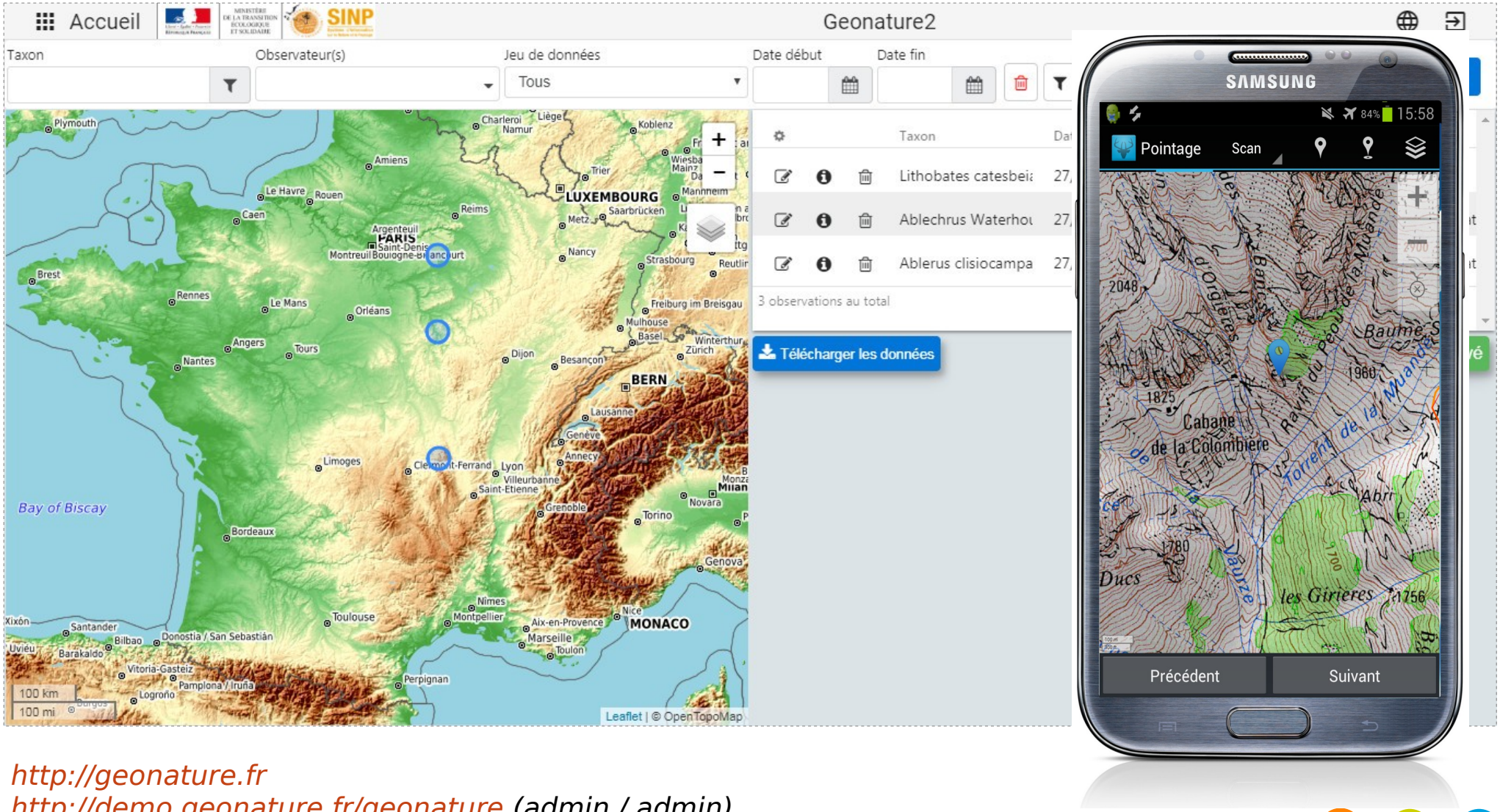


Several sources and protocols / 1 synthesis



Web and mobile tools

GeoNature - A tool to collect, manage and share biodiversity data from the national park



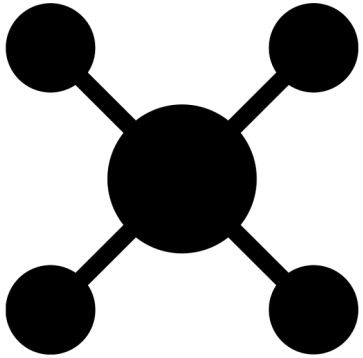
http://geonature.fr
http://demo.geonature.fr/geonature *(admin / admin)*

Geotrek - Opensource and generic

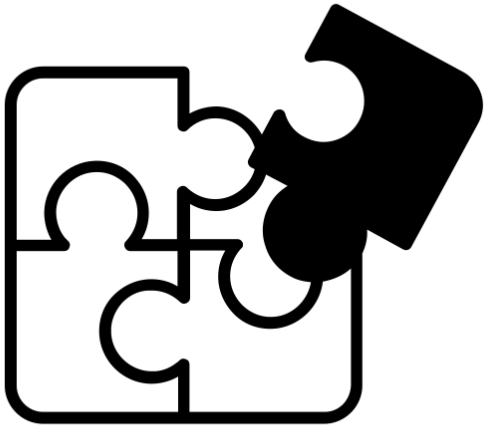
Opensource

Documentation

Public code
& discussions



Generic

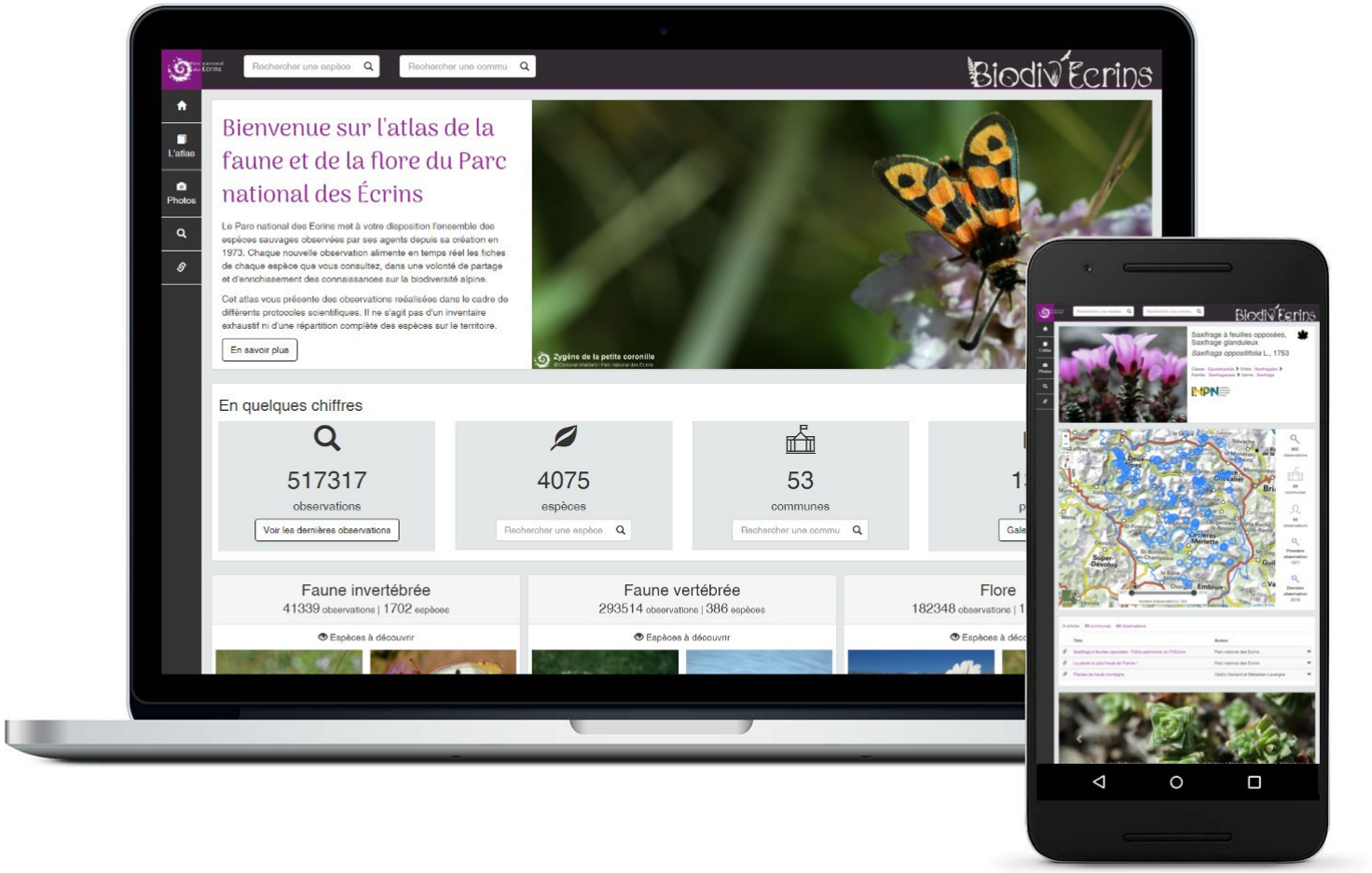


Modular

Icons by Davo Sime, Mikicon, Aneeque Ahmed, Oriol Carbonell from the Noun Project

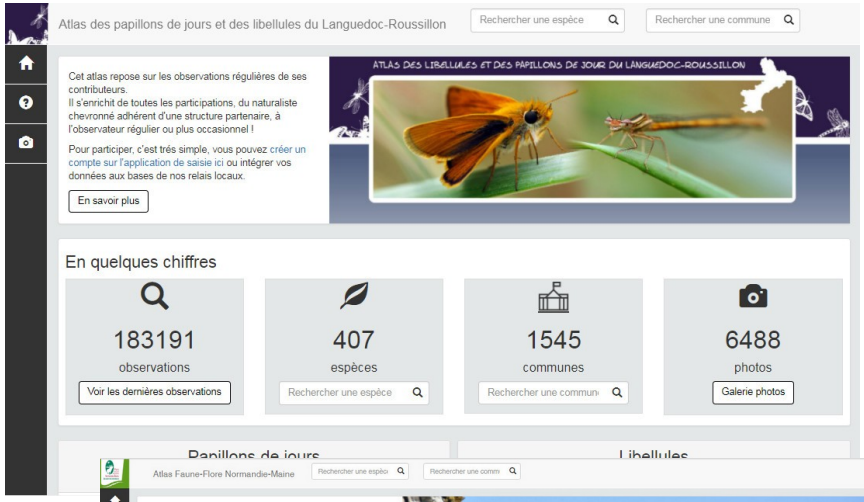
GeoNature-atlas

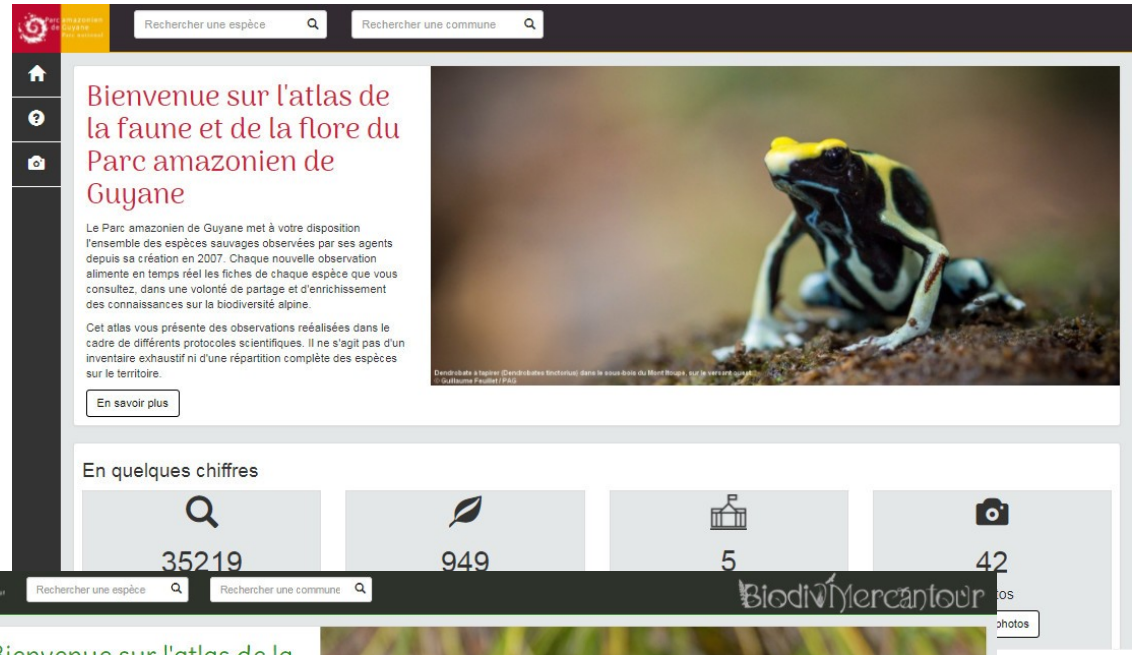
A biodiversity data publication plateform as an online atlas

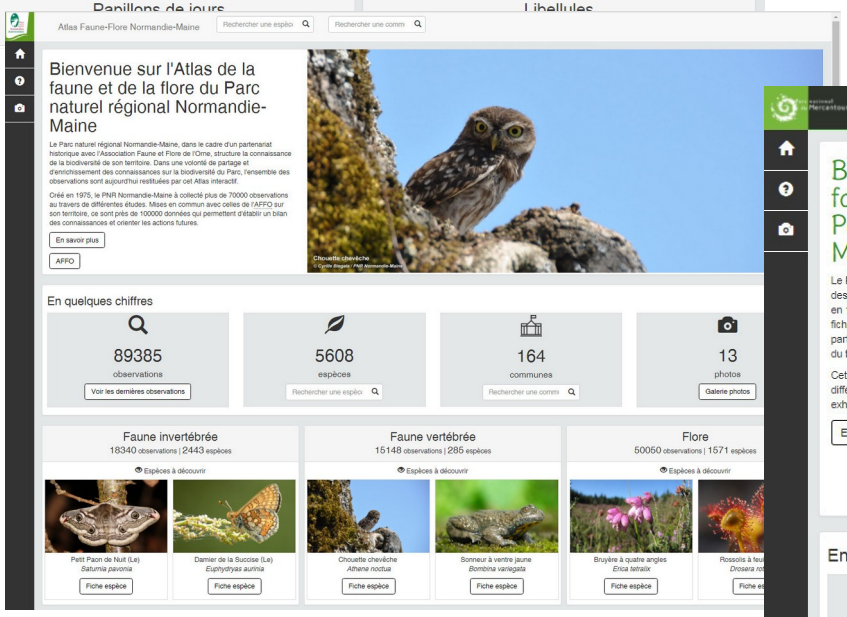


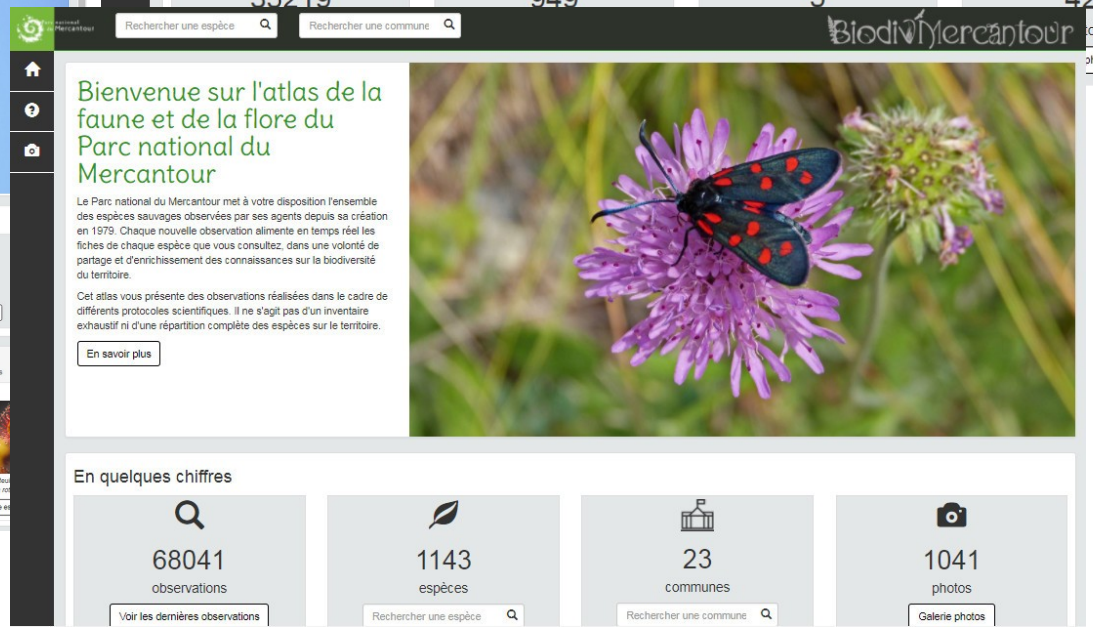
https://biodiversite.ecrins-parcnational.fr

GeoNature - Opensource & generic









http://geonature.fr
https://github.com/PnEcrins/GeoNature-atlas

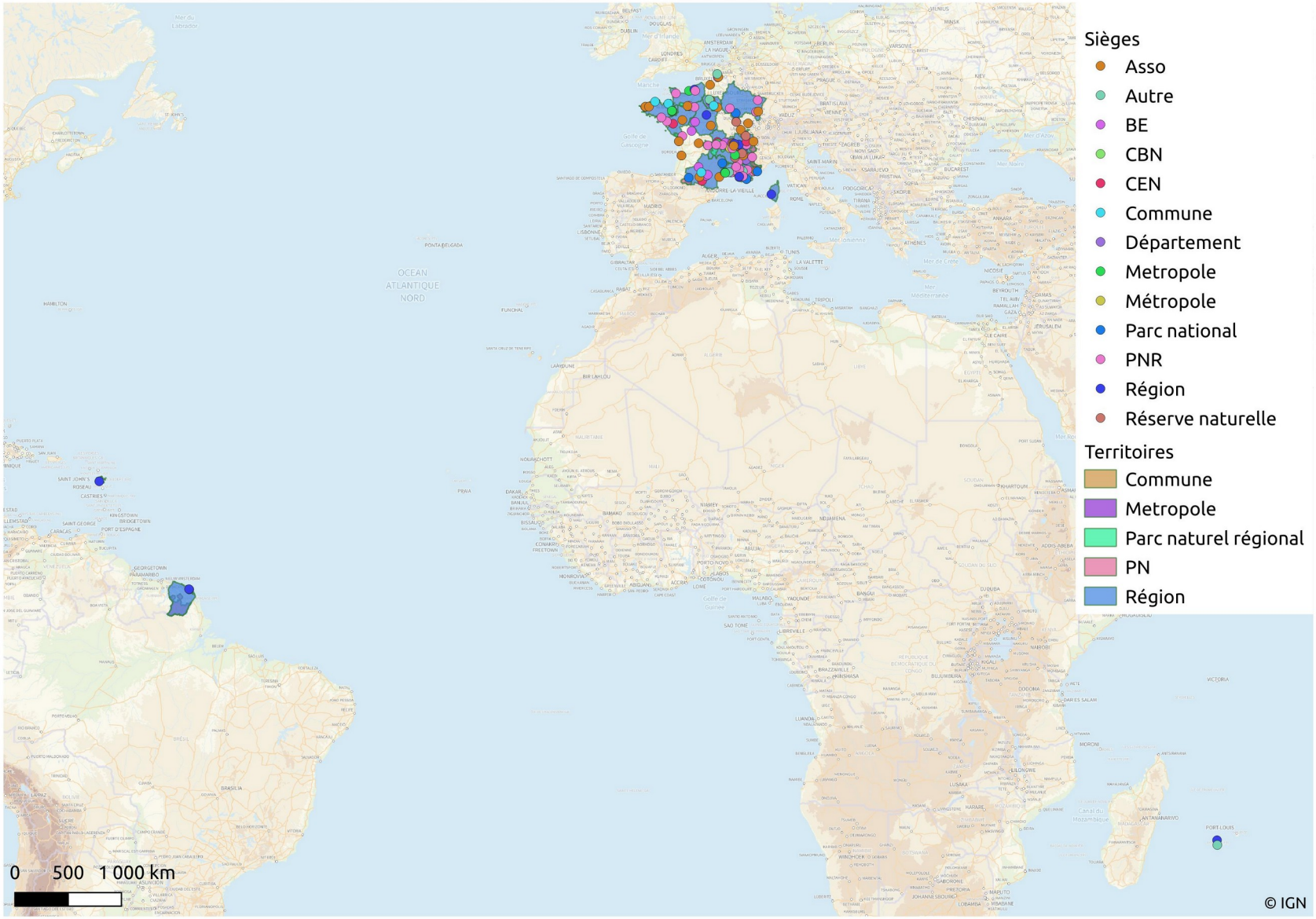
2018 - GeoNature - Community

2024 : ~ 150 structures

- National and regional parks
- Conservatories
- RNF
- Associations
- Companies
- Engineering offices
- DREAL
- National museum
- OFB
- MTE

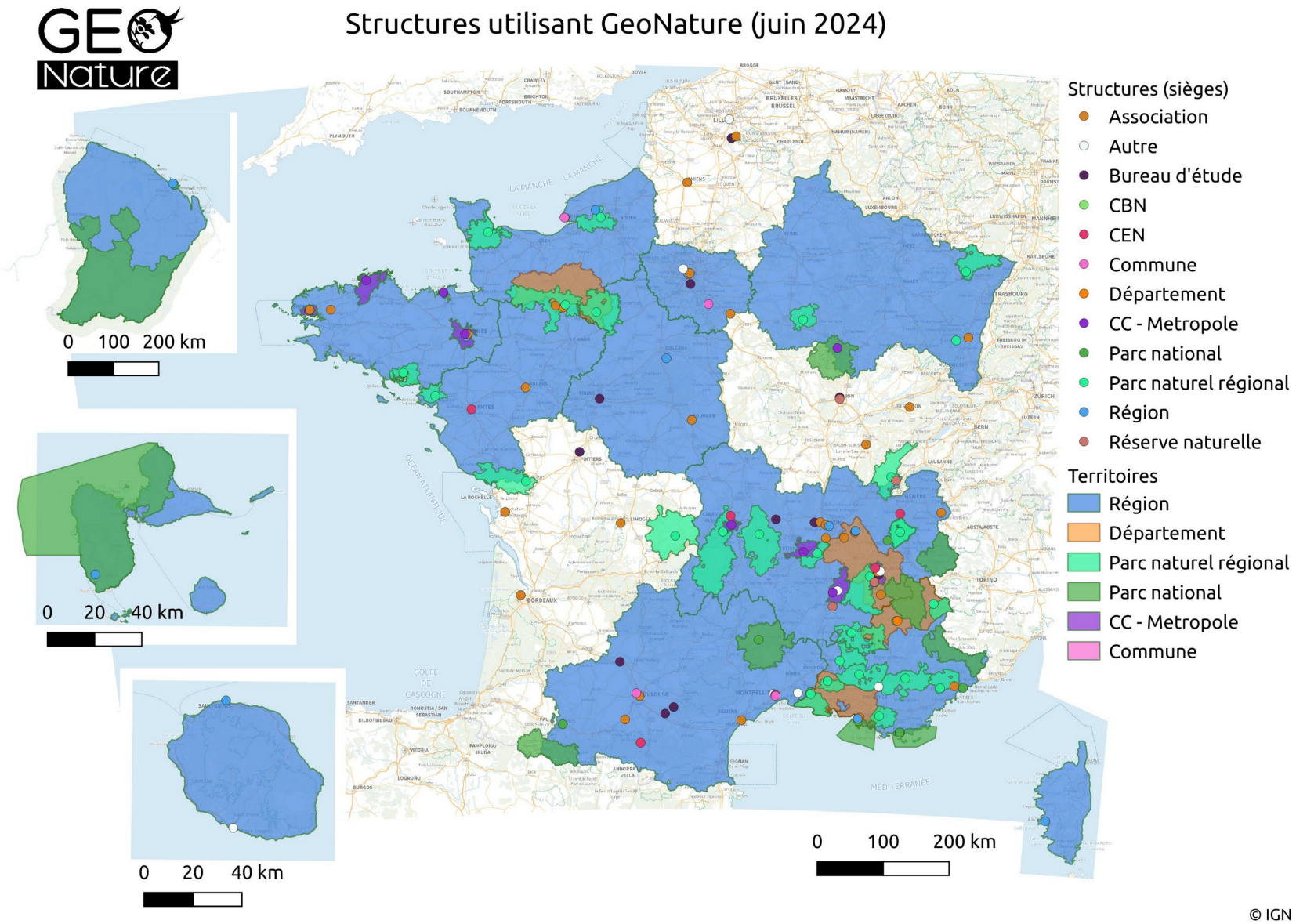
http://www.ecrins-parcnational.fr/actualite/geeks-geonature-carburent

GeoNature - Users



https://www.ecrins-parcnational.fr/actualite/retour-premieres-rencontres-nationales-geonature

GeoNature - Users



https://www.ecrins-parcnational.fr/actualite/retour-premieres-rencontres-nationales-geonature

Pooling ressources

2010

GEO Nature

PNX

Associations

PNR

Regions

Municipalities

PatriNat

Natural reserves

CBN

CEN

Companies

MTECT

OFB

2024

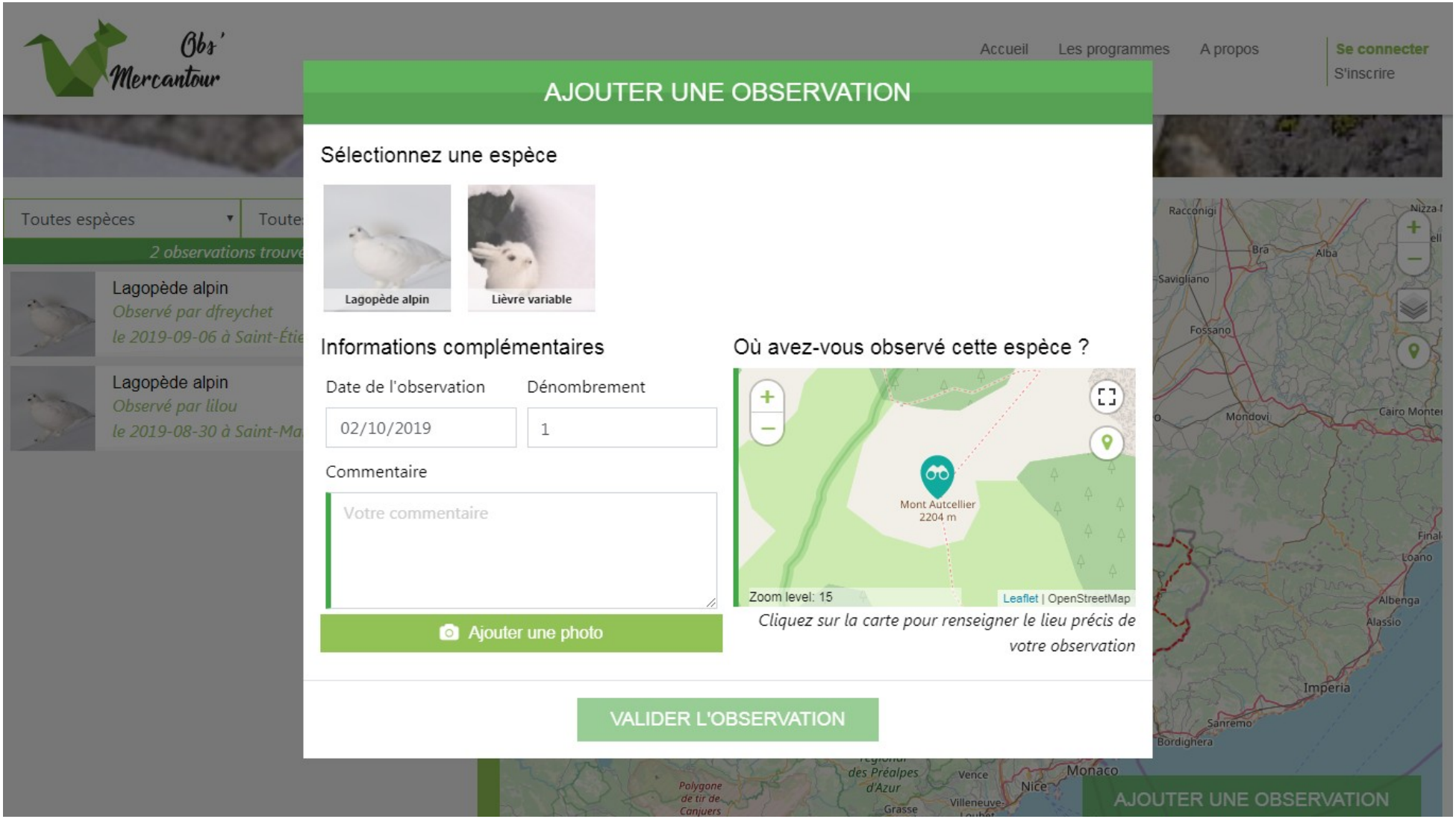
GEO Nature

~4M€

Benefit from previous investments / Pool / Contribute / Collaborate / Communicate / Concentrate the resources of each structure on the deployment, animation and enrichment of a shared and common tool, rather than refinancing each of the similar tools

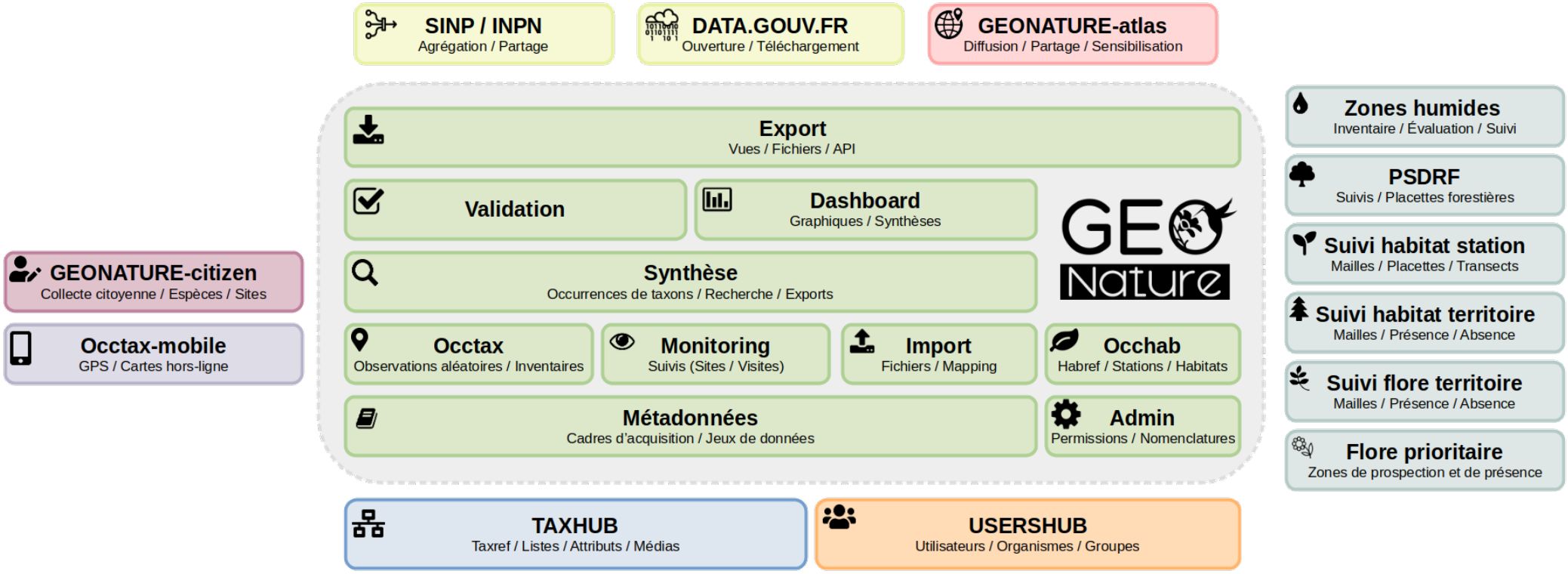
https://openhub.net/p?query=geonature
Icons by the Noun Project

GeoNature-citizen



https://obs.mercantour-parcnational.fr

GeoNature - Les modules



Build around SINP standards

Standards d'échanges du SINP

Système d'Information sur la Nature et le Paysage

Taxref

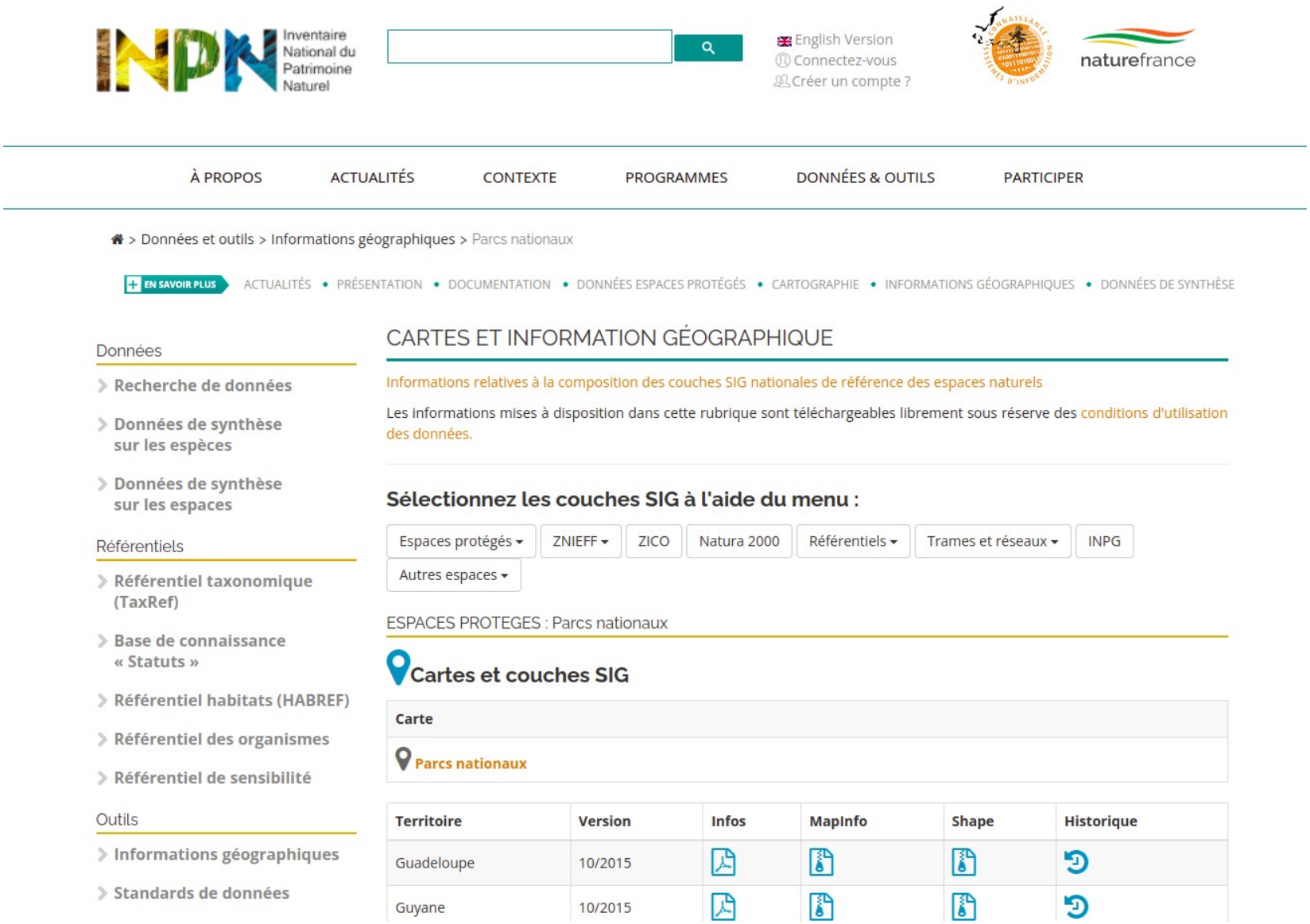
CAMPanule

Taxons occurrences & metadata standards

Nomenclatures

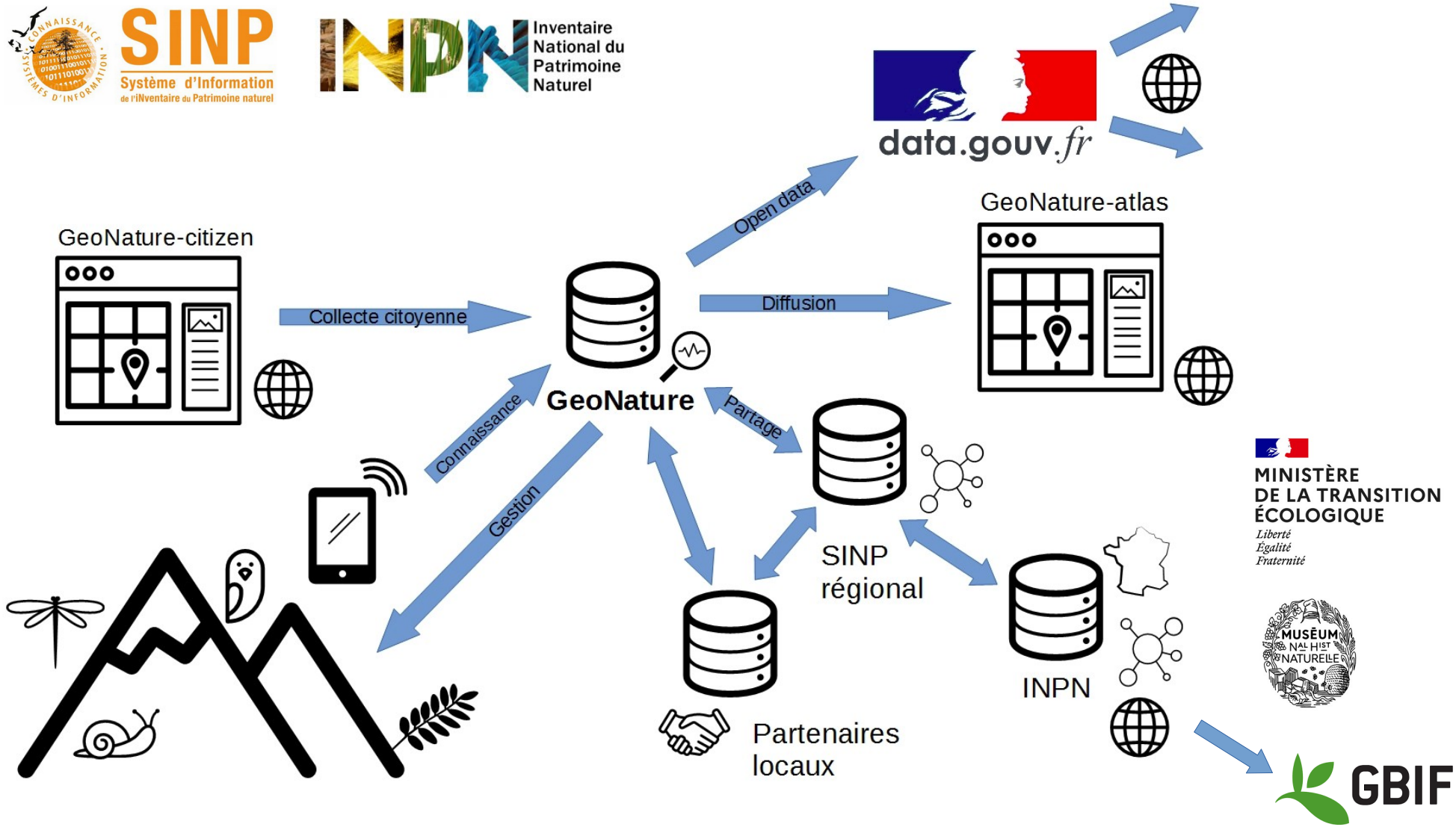
http://standards-sinp.mnhn.fr/

National protected areas data

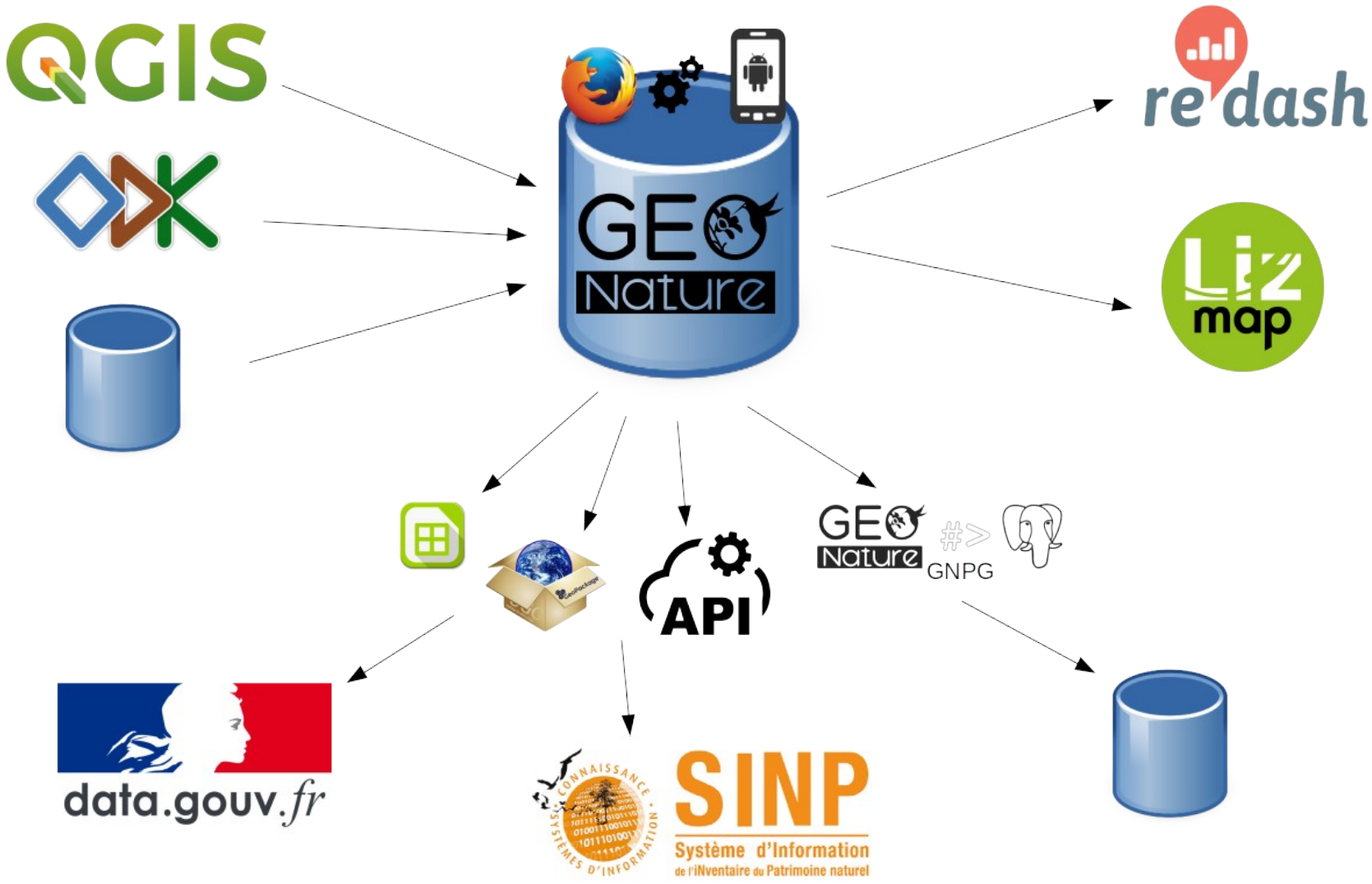


https://inpn.mnhn.fr/telechargement/cartes-et-information-geographique/ep/pn

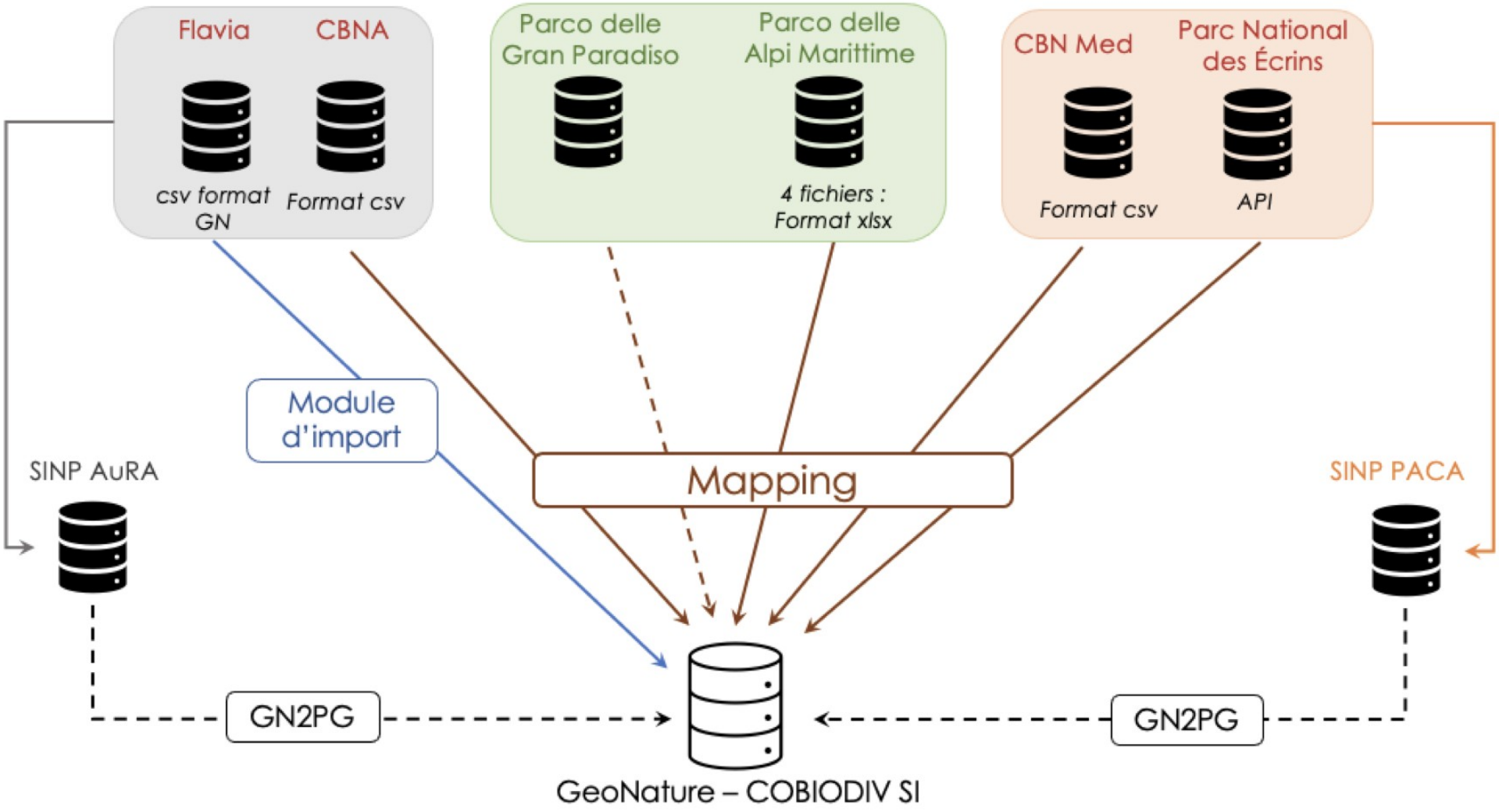
Biodiversity data network



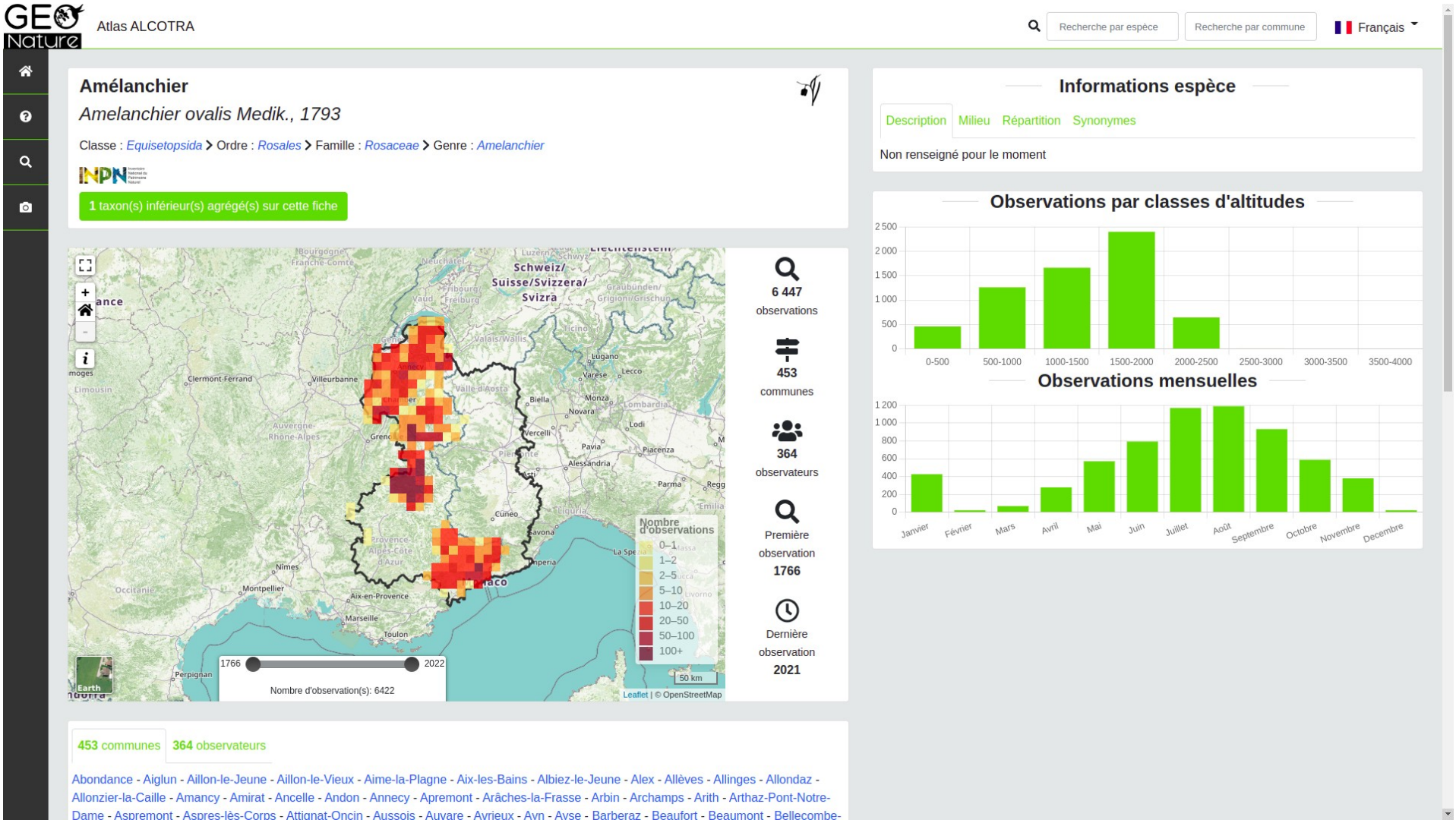
An open & interoperable database



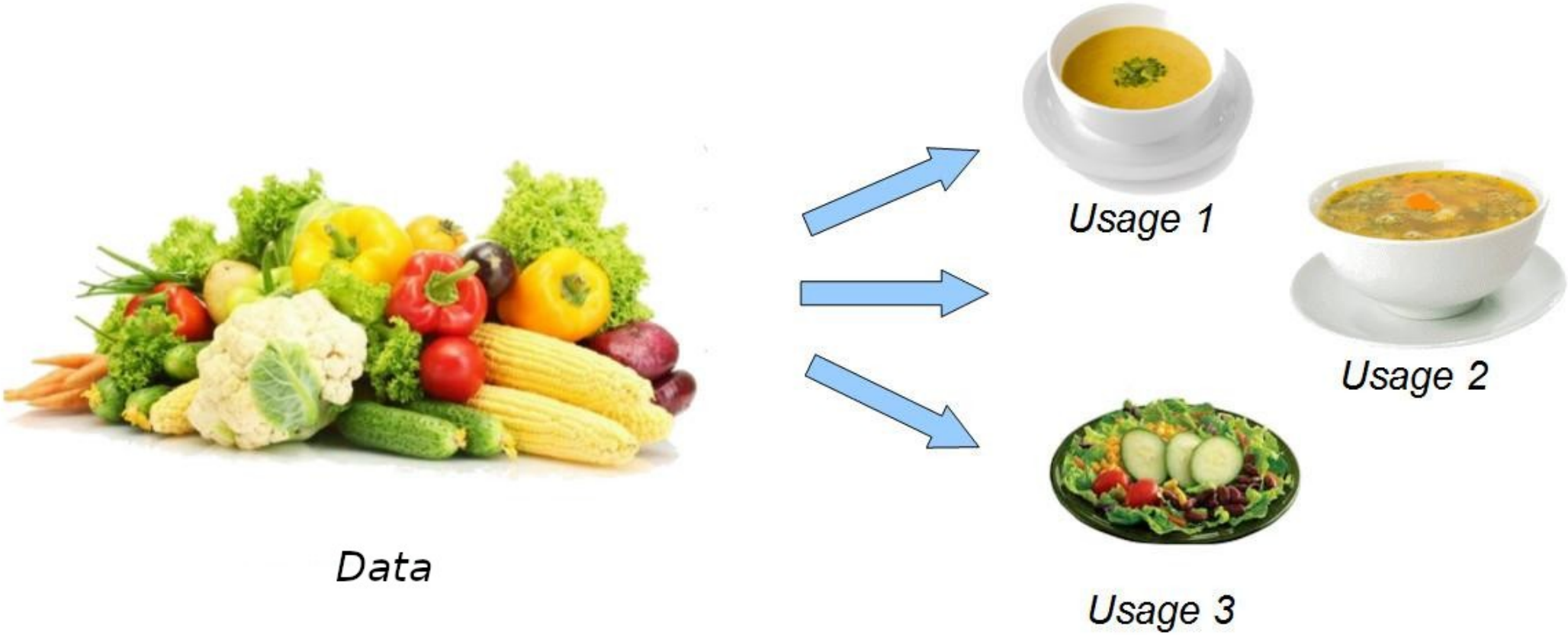
PITEM BiodivAlp - COBIODIV-SI



PITEM BiodivAlp - COBIODIV-SI

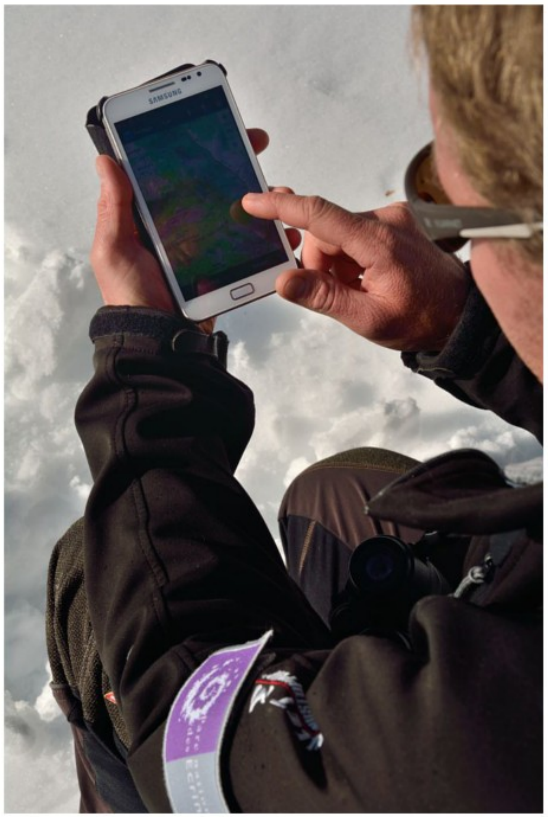


Public money > Public data > Open data



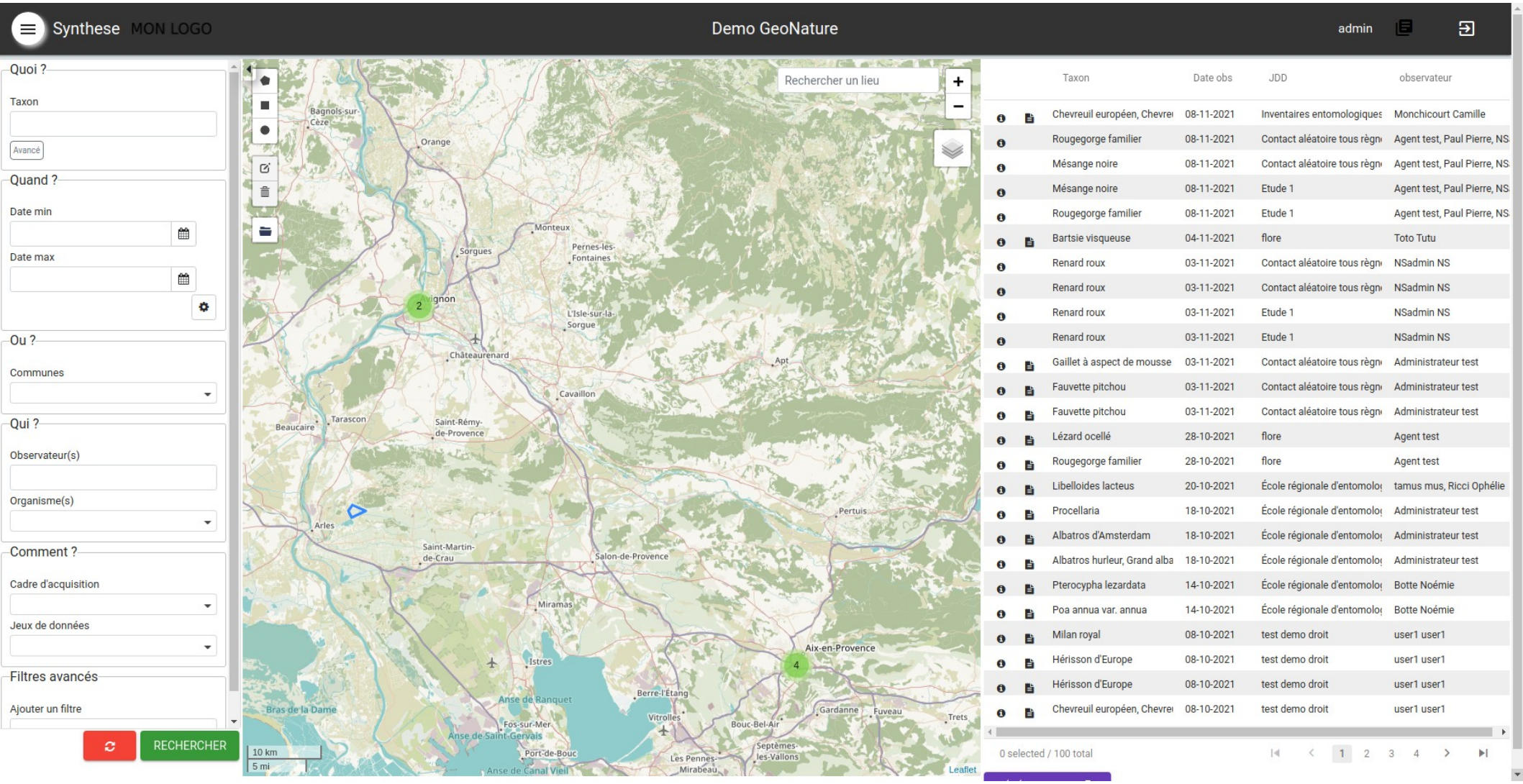
https://www.ecrins-parcnational.fr/actualite/parc-national-ecrins-deconfine-donnees-biodiversite
https://www.ecrins-parcnational.fr/actualite/parc-national-ecrins-libere-donnees

A common goal



Simplify access to data and share tools to improve the acquisition, analysis and sharing of knowledge

Demonstration



- https://demo.geonature.fr (admin / admin)
- https://biodiversite.ecrins-parcnational.fr
- https://biodiversite.cevennes-parcnational.fr
- https://obs.mercantour-parcnational.fr
- https://www.a-vos-mares.org

Parc national des Ecrins

THANKS FOR YOUR ATTENTION

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