The TRANSLOC Database and Data Integration (WP2)

Bruno Colas, Linda Angulo Lopez, Isabelle Baly

TRANSLOC Scientific Workshop, 10-12 September 2025

AgroParisTech

MUSĒUM NAL HIST NATURELLE

UAR 3468 B B E E S

Enhancing Conservation Translocations through Data and Collaboration

- Conservation translocations are increasingly used for biodiversity restoration and rewilding.
- Success rates vary; ecological, evolutionary, and socio-conomic impacts remain underexplored.
- TRANSLOC project (Biodiversa+): Evaluating translocations across multiple scales in the Western Palearctic.

What is the TRANSLOC Database?

- >1,300 documented conservation translocations
- Diverse taxa: mammals, birds, plants, lichens, reptiles, amphibians, insects, molluscs
- Standardized ecological, evolutionary, and socio-economic data
- Open and accessible for researchers, practitioners, and policymakers

Other Key Translocation Databases

- IUCN Global Reintroduction Perspective – worldwide, multi-taxa
- BirdLife International – avian-focused
- National/Regional databases (UK, Spain, etc.)
- Complementary scopes → opportunity for integration

WP2 Goals for Database Synergy

- Harmonize TRANSLOC with other databases
- Fill gaps & improve consistency
- Enable cross-taxa and cross-region comparisons
- Support ecological modeling & future scenarios
- Foster collaboration among stakeholders

The Importance of Integrated Translocation Data

- Evidence-based conservation planning
- Assess success & cost-effectiveness
- Anticipate climate change & land-use challenges
- Enhance social & economic impact evaluation
- Contribute to restoration & rewilding

Scientific and Societal Challenges

- Stakeholder diversity: scientists, communities, policymakers
- Pressures: climate change, invasive species, land use
- Need for evidence-based frameworks
- Balancing short-term conservation with long-term evolution

Multi-Disciplinary Approach

- Integrating ecology, genetics, economics, and social sciences
- Tools: field experiments, long-term monitoring, serious games, modeling
- Stakeholder engagement: NGOs, farmers, local authorities, EU policy actors

Case Studies and Experimental Translocations

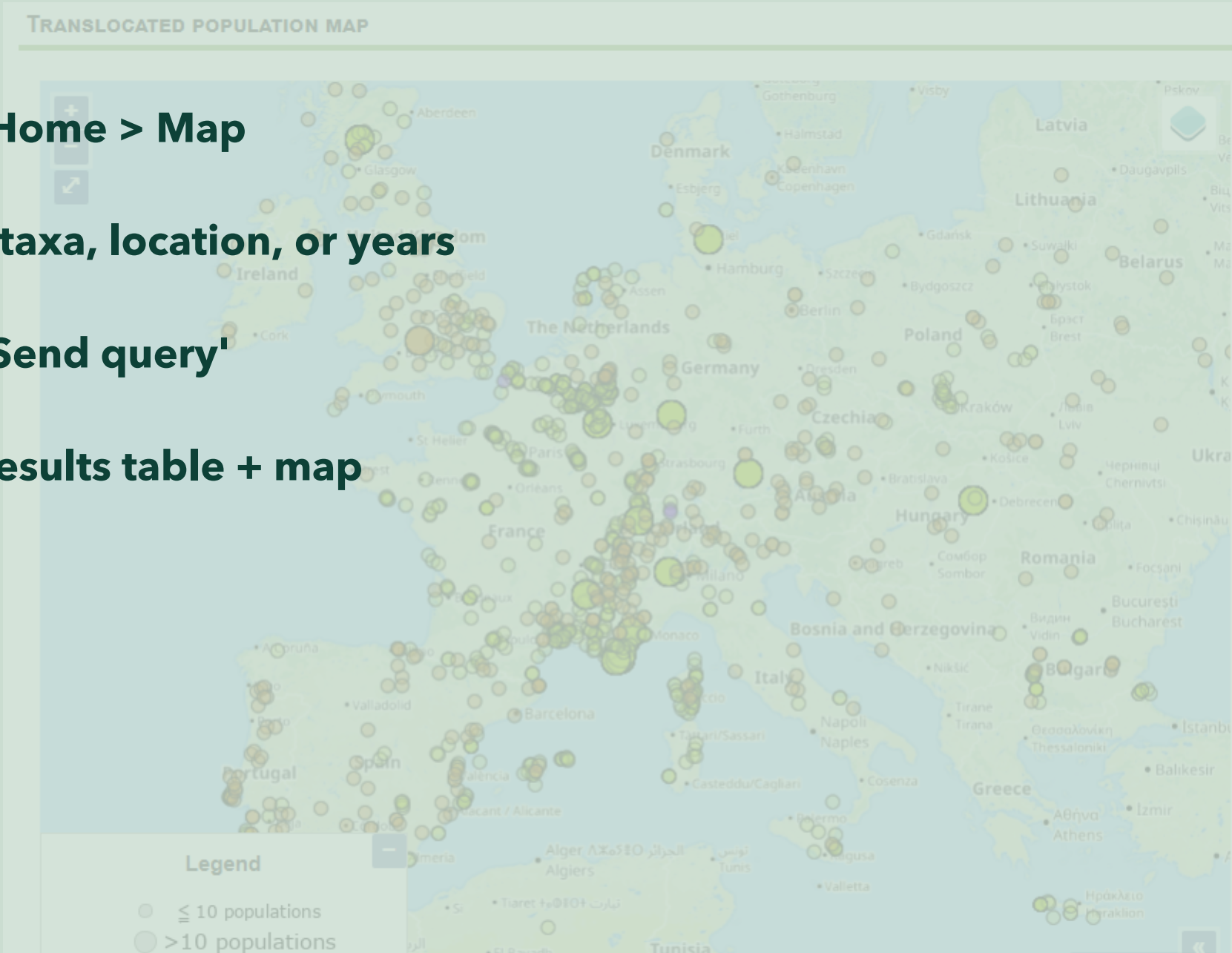
- Freshwater mussels (France, Belgium)
- Wetland plants (Spain, Switzerland)
- Large mammals: Eurasian beaver, European bison
- Raptors & carnivores: vultures, lynx reintroductions
- Purpose: Refine success metrics, analyze socio-economic trade-offs

Outcomes & Expected Impacts

- **Scientific: biodiversity contribution, long-term viability**
- **Policy: EU Biodiversity Strategy alignment, IUCN guidelines update**
- **Societal: cost-benefit optimization, ethics, governance frameworks**

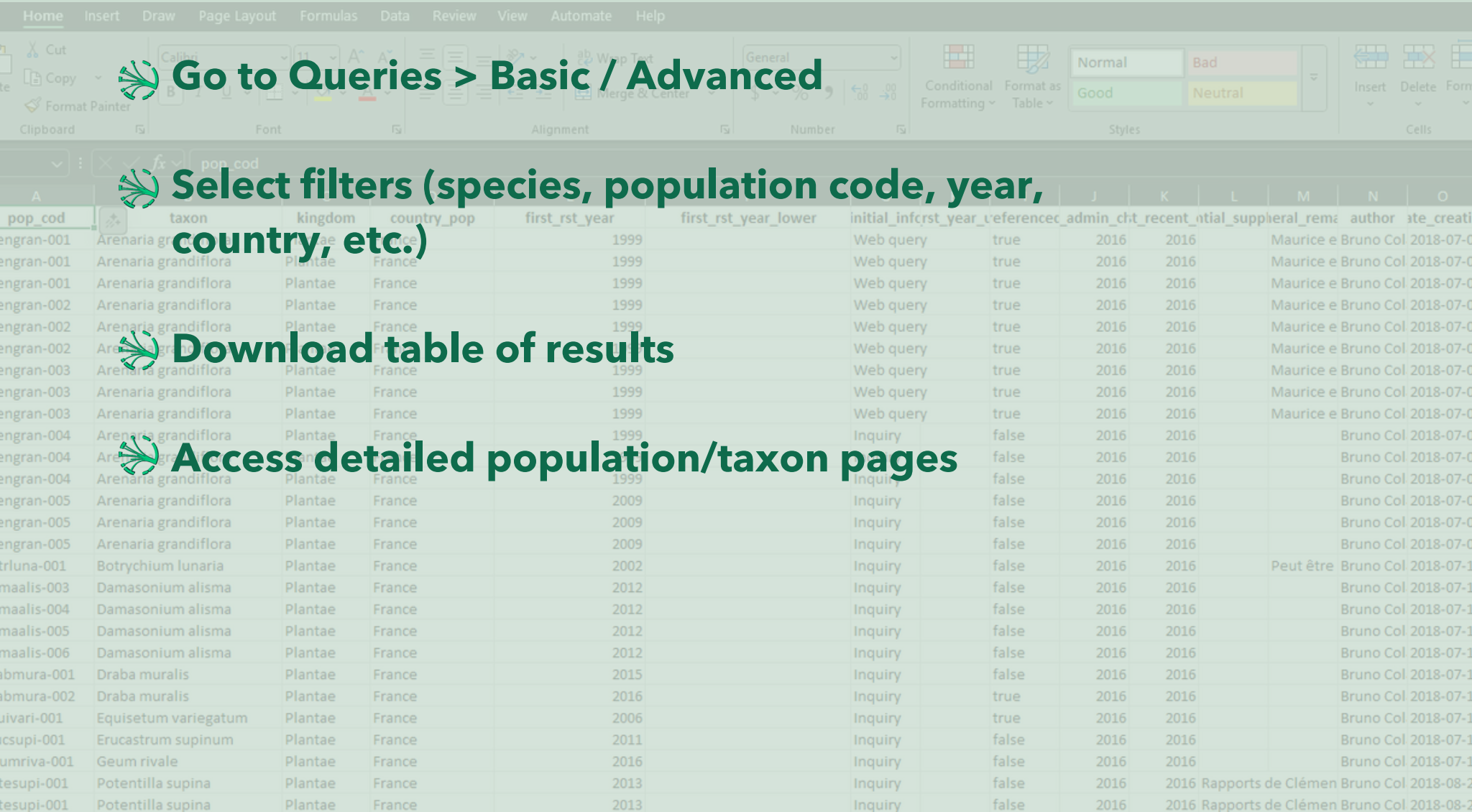
Exploring Data

- Go to Home > Map
- Select taxa, location, or years
- Click 'Send query'
- View results table + map



Viewing Detailed Data (Logged In)

- Go to Queries > Basic / Advanced
- Select filters (species, population code, year, country, etc.)
- Download table of results
- Access detailed population/taxon pages



Contributing New Data

- Step 1: Verify species name on GBIF
- Step 2: Check if population already exists in DB
- Step 3: If missing → create new taxon or population
- Step 4: Fill mandatory fields (taxon, country, year of first translocation)
- Step 5: Submit → admins validate (or bulk upload via Excel)

Updating Existing Data

- Find your population (by code / query / map)
- Open Data > Read/Complete > Populations
- Add/modify fields → flagged until admin approval
- Notifications sent to previous contributors

Next Steps and Call for Collaboration

- Expand coverage (taxonomic + geographic)
- Incorporate citizen/practitioner data
- Develop interactive dashboards and user-friendly tools
- Engage stakeholders to set priorities
- Contribute to European and global biodiversity targets

Contact & Further Information

- François Sarrazin – francois.sarrazin@mnhn.fr
- Website: http://translocations.in2p3.fr/
- Funded by Biodiversa+ with EU and national support
- Collaboration across European universities and & institutes


cnrs


ESE
Écologie Systématique Évolution


université
PARIS-SACLAY


SORBONNE
UNIVERSITÉ
CRÉATEURS DE FUTURS
DEPUIS 1257


biotope


CCIN2P3


SLU


CESCO
Centre d'Écologie et des
Sciences de la Conservation


FCiências ID
ASSOCIAÇÃO PARA A
INVESTIGAÇÃO E
DESENVOLVIMENTO
DE CIÊNCIAS


anr


LIÈGE
université


AgroParisTech


MUSÉUM
NAL HIST
NATURELLE


B
B
E
E
S
UAR
3468

TRANSL  C