OpenBioMaps

sustainable environment
for biological data

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What is OpenBioMaps?

- An **idea**: build bridges between conservationists, researchers, and education
- A **service**: freely configurable database framework for arbitrary biological databases
- Open source free-to-use **software** for managing biodiversity research and conservation data

Characteristics of sustainable (biodiversity) data management

- Flexible and interconnectable interfaces
- Decentralized workflow
- Open-sourced, community driven development

OBM Consortium partners (2021)

Duna-Ipoly National Park, Hungary

Eötvös Loránd University, Hungary

Eszterházy Károly University, Hungary

Milvus Group, Romania

University of Debrecen, Hungary

WWF Hungary

Duna-Dráva National Park, Hungary

Fertő-Hanság National Park, Hungary

Examples

Nature conservation projects

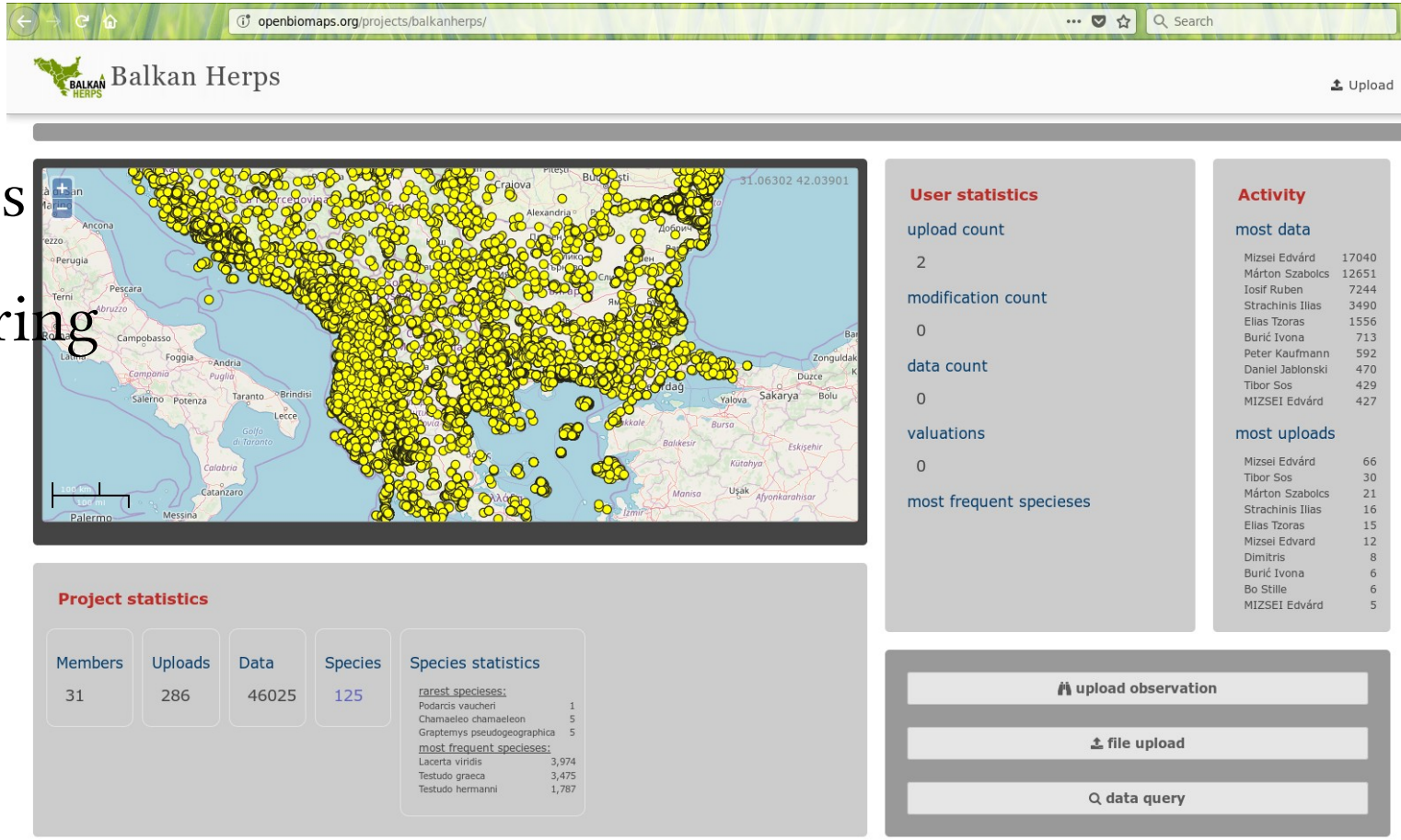
Several monitoring programs, public and closed databases huge amounts of data

- Duna-Ipoly National Park, Hungary
- Bükki National Park, Hungary
- Kiskunság National Park, Hungary
- Balatonfelvidéki National Park, Hungary
- Duna-Dráva National Park, Hungary
- Őrségi National Park, Hungary
- Fertő-Hanság National Park, Hungary
- Hortobágy National Park, Hungary
- Aggtelek National Park, Hungary
- Milvus Group Association, Romania

Conservational / citizen science projects

Non-public research projects with public interface

- The Eurasian Kurgan Database
- BalkanHerps
- Corfu Dragonflies
- Butterfly monitoring



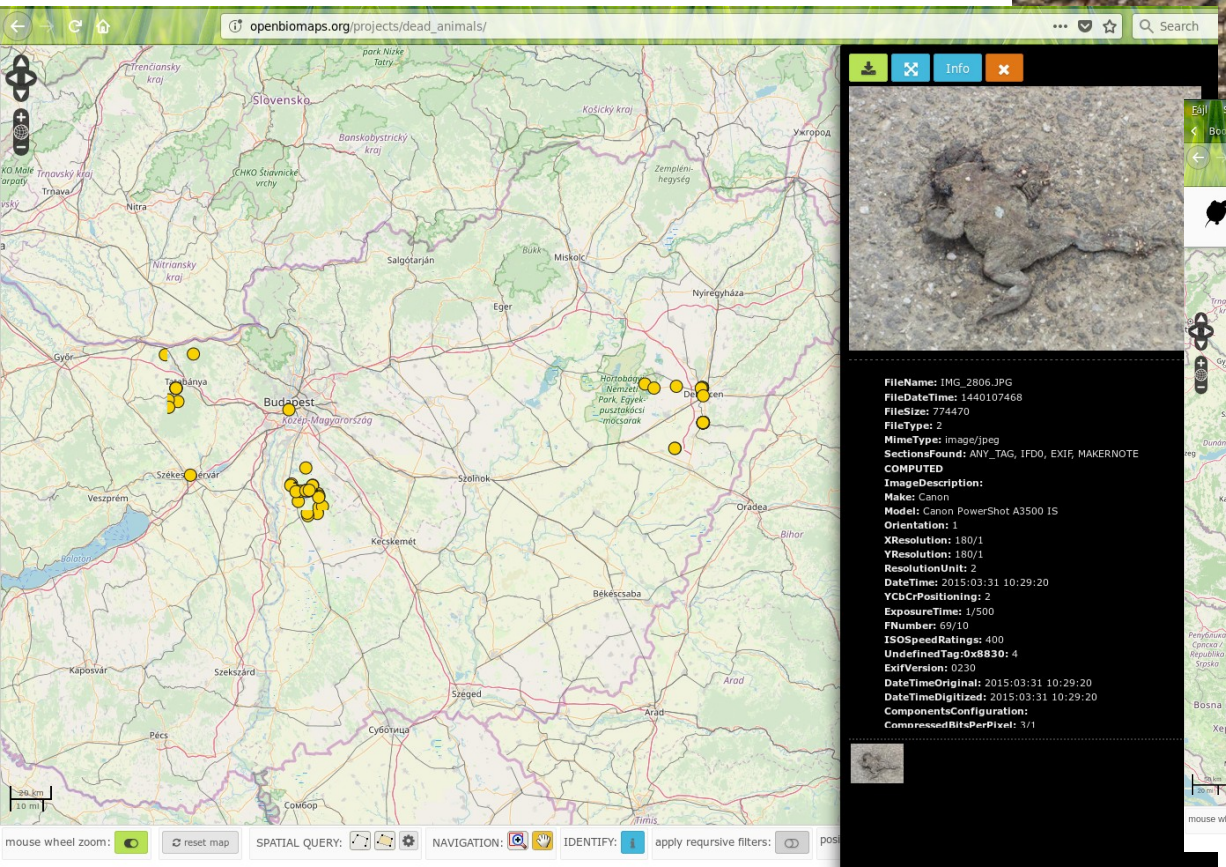
Research projects

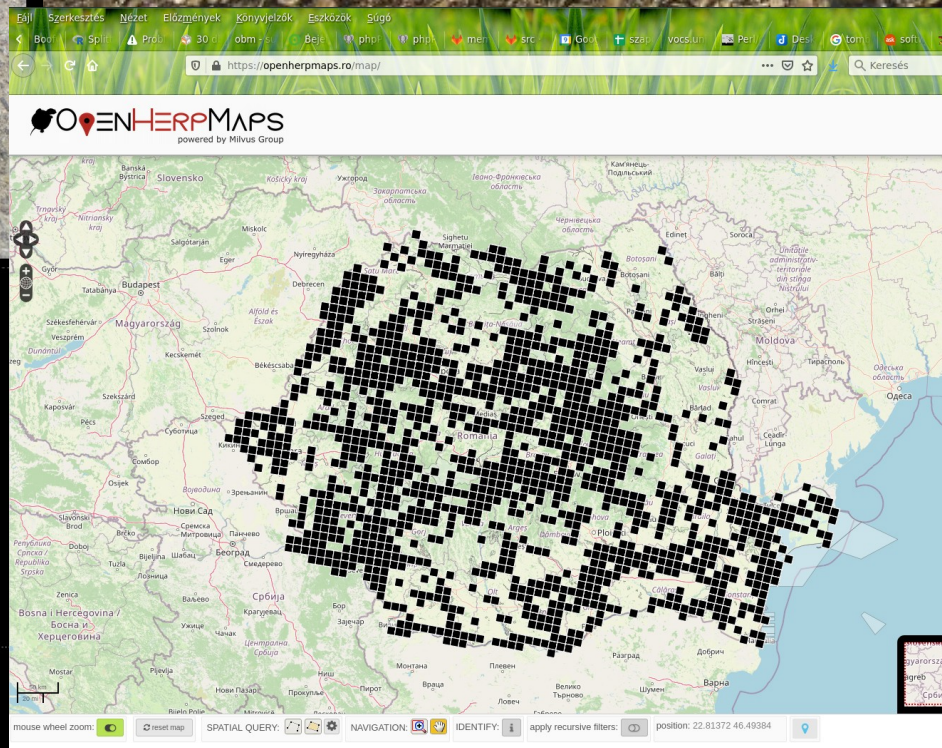
Mostly non-public projects of small research communities

- Transdiptera (Diptera database)
- Hungarian Flora Atlas
- Global Plover Database (Evolutionary biology)
- Sex-Ratio Evolution (Literature data)
- Bükk Montain Fish Database
- Debrecen DNA Bank (Eurasian Steppe Region - DNA database)
- Protected Plants Database
- VIPER database (a LIFE Project)
- ...

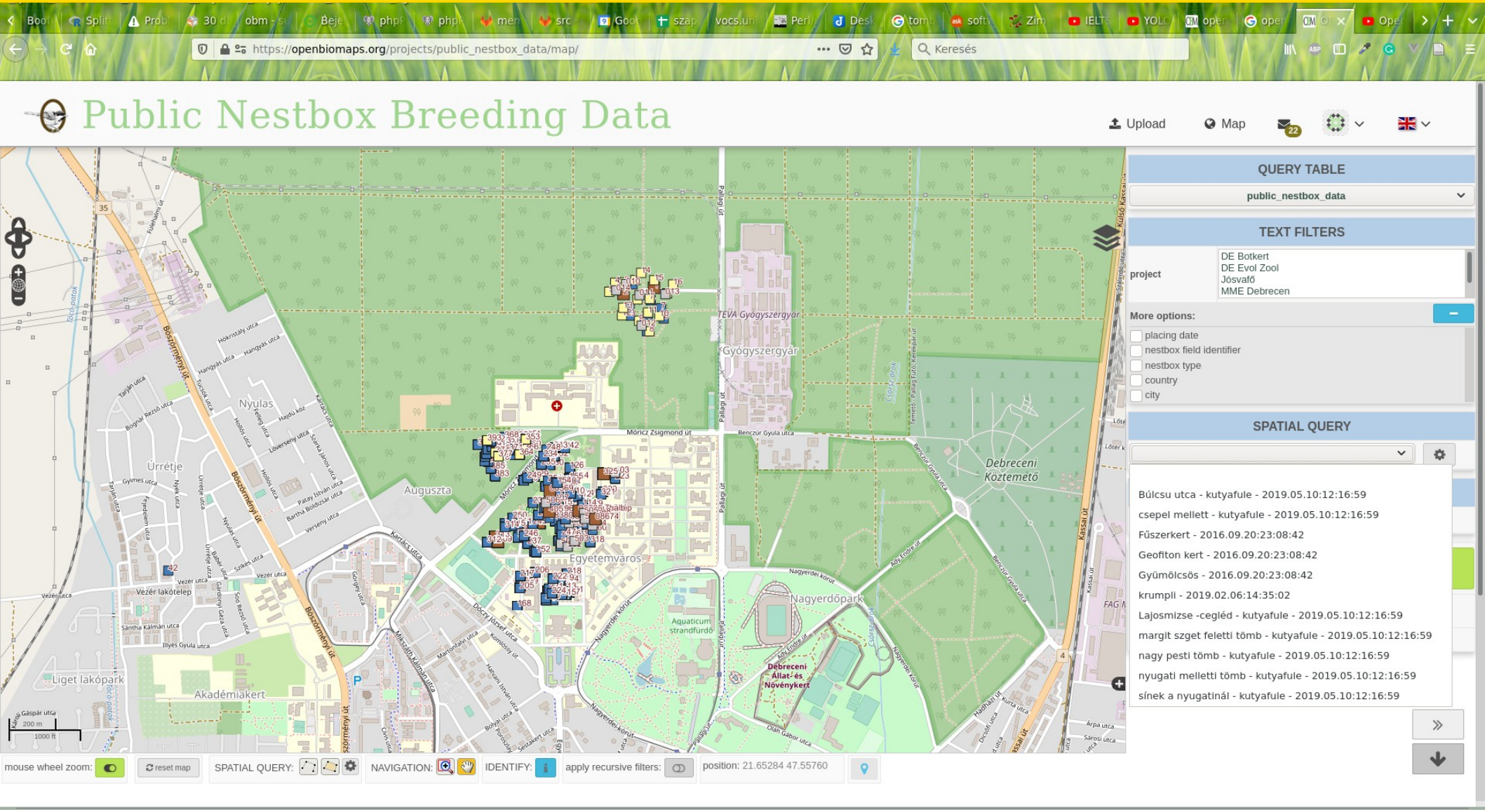
(Fully) Citizen science projects

- Dead animals database
- OpenHerpMaps
- …





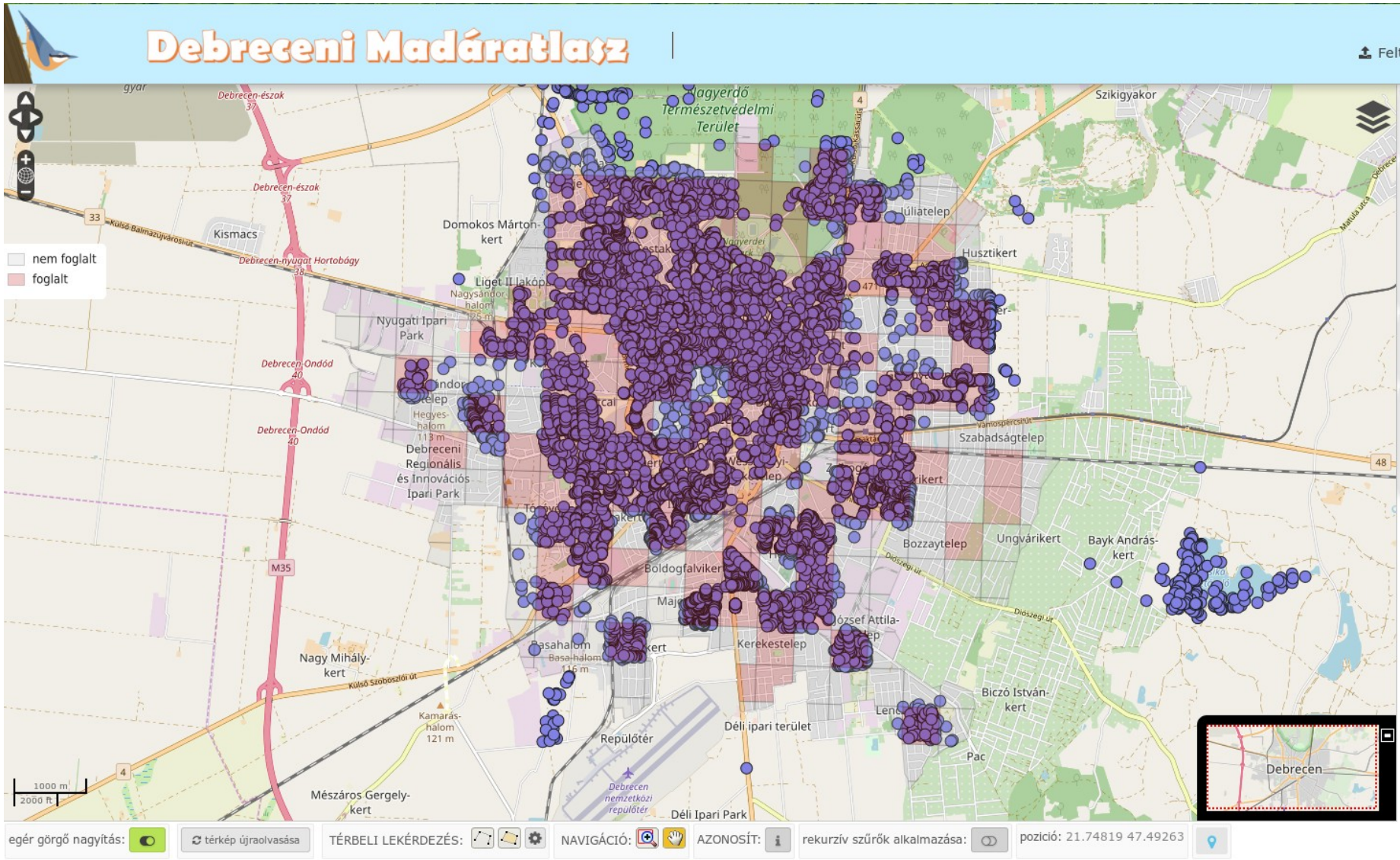
Citizen science / educational projects



Public Nestbox Database: A database for independent projects

Educational projects

Bird Atlas of Debrecen: data collected by students



OpenBioMaps server network

OpenBioMaps célok

- Keretrendszer/eszközök létrehozása széles körű felhasználásra
- Felhasználói tábor kialakítása különböző célszektorokban
- Aktív kapcsolatok építésnek támogatása kutatás és természetvédelem között

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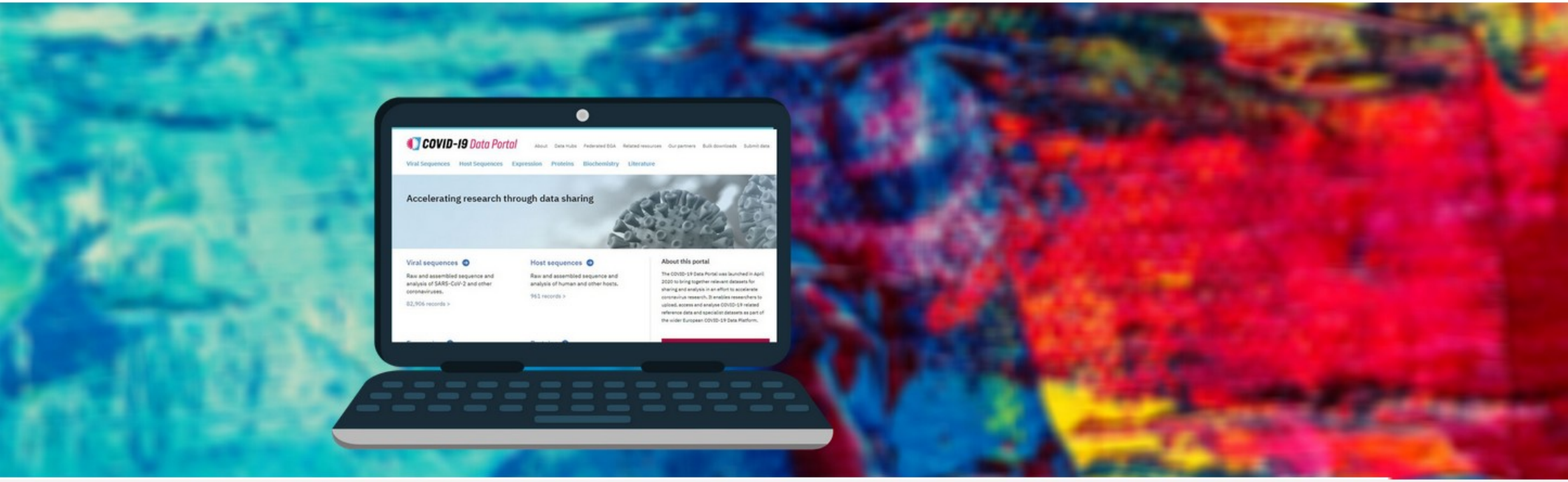
Using the Portal



ACCESS EOSC SERVICES & RESOURCES

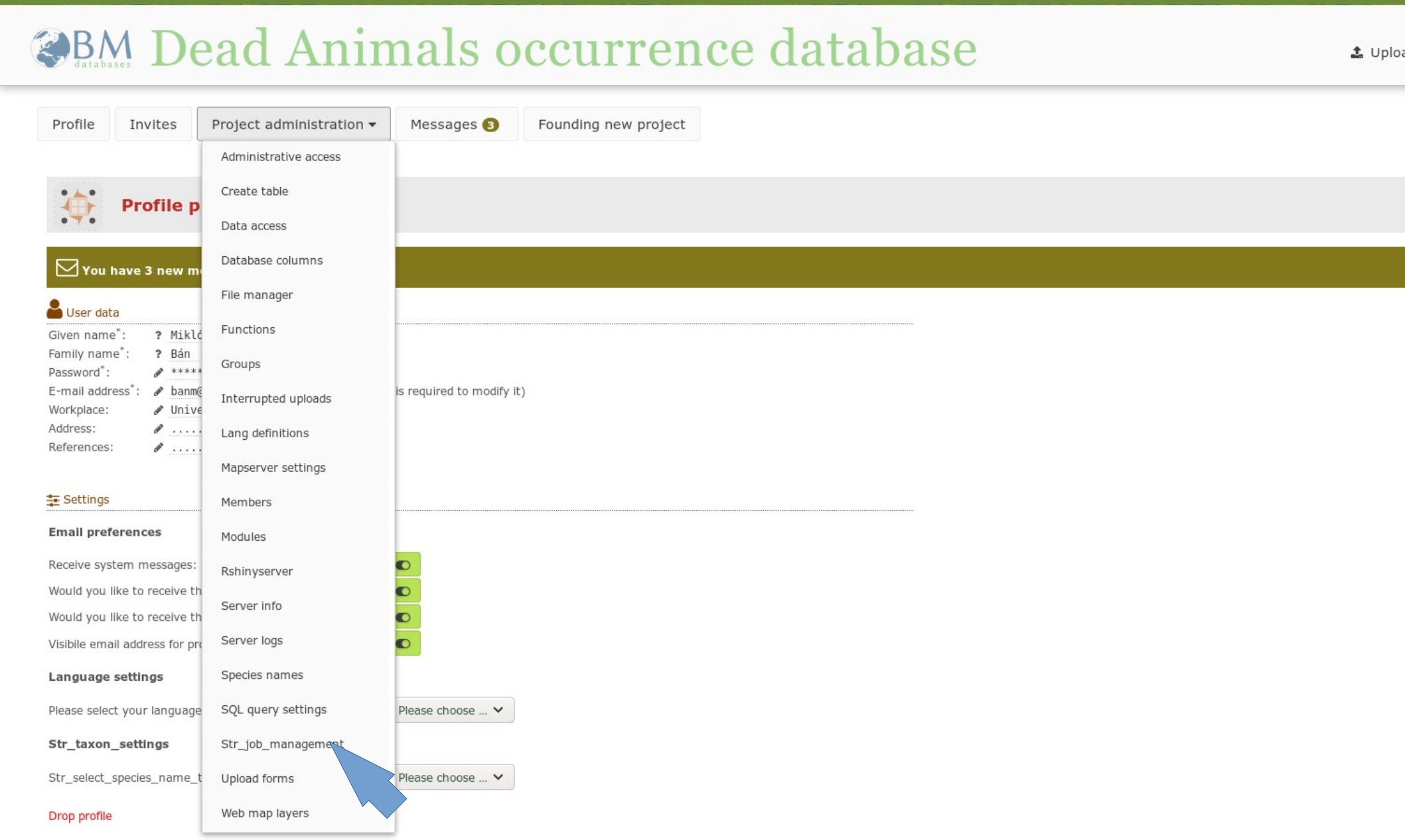
NETWORKING

COMPUTE

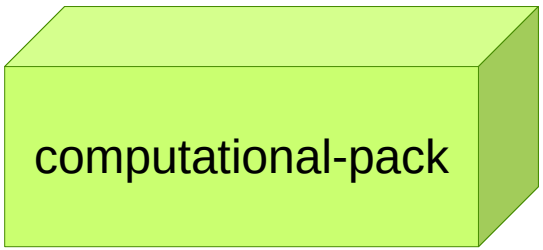
STORAGE

SHARING & DISCOVERY

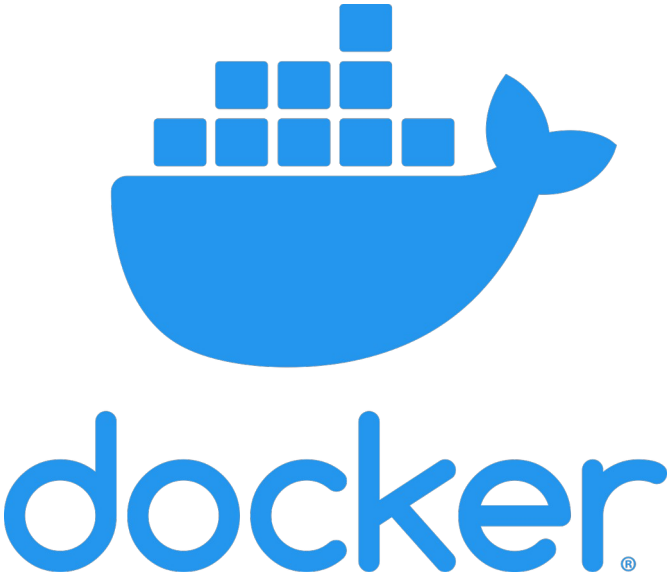
OpenBioMaps web felület



OpenBioMaps computational-pack



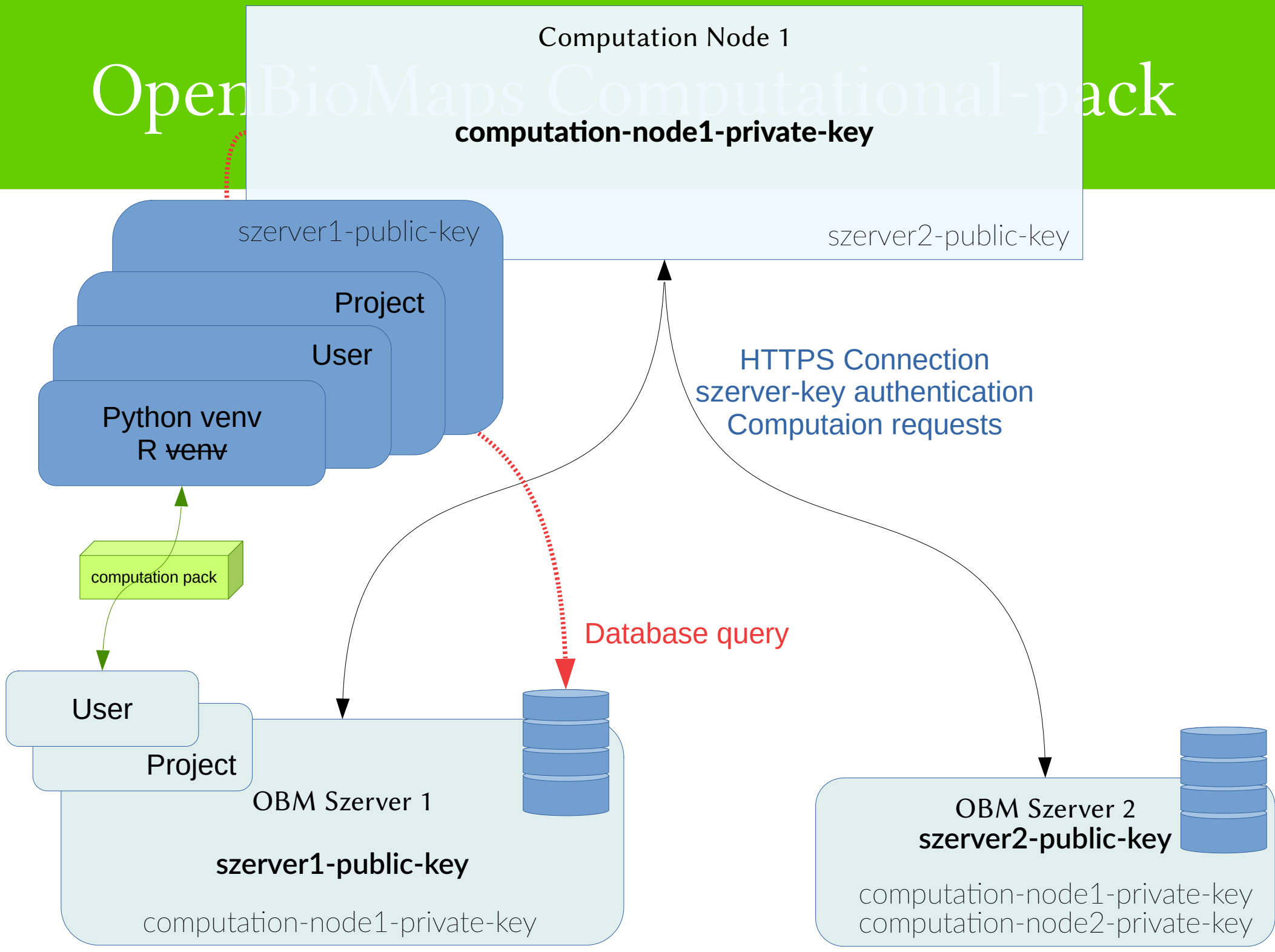
- Resources
- Data
- Scripts
- Results



computational-pack exchange

github, gitlab => OpenBioMaps

OpenBioMaps Computational-pack



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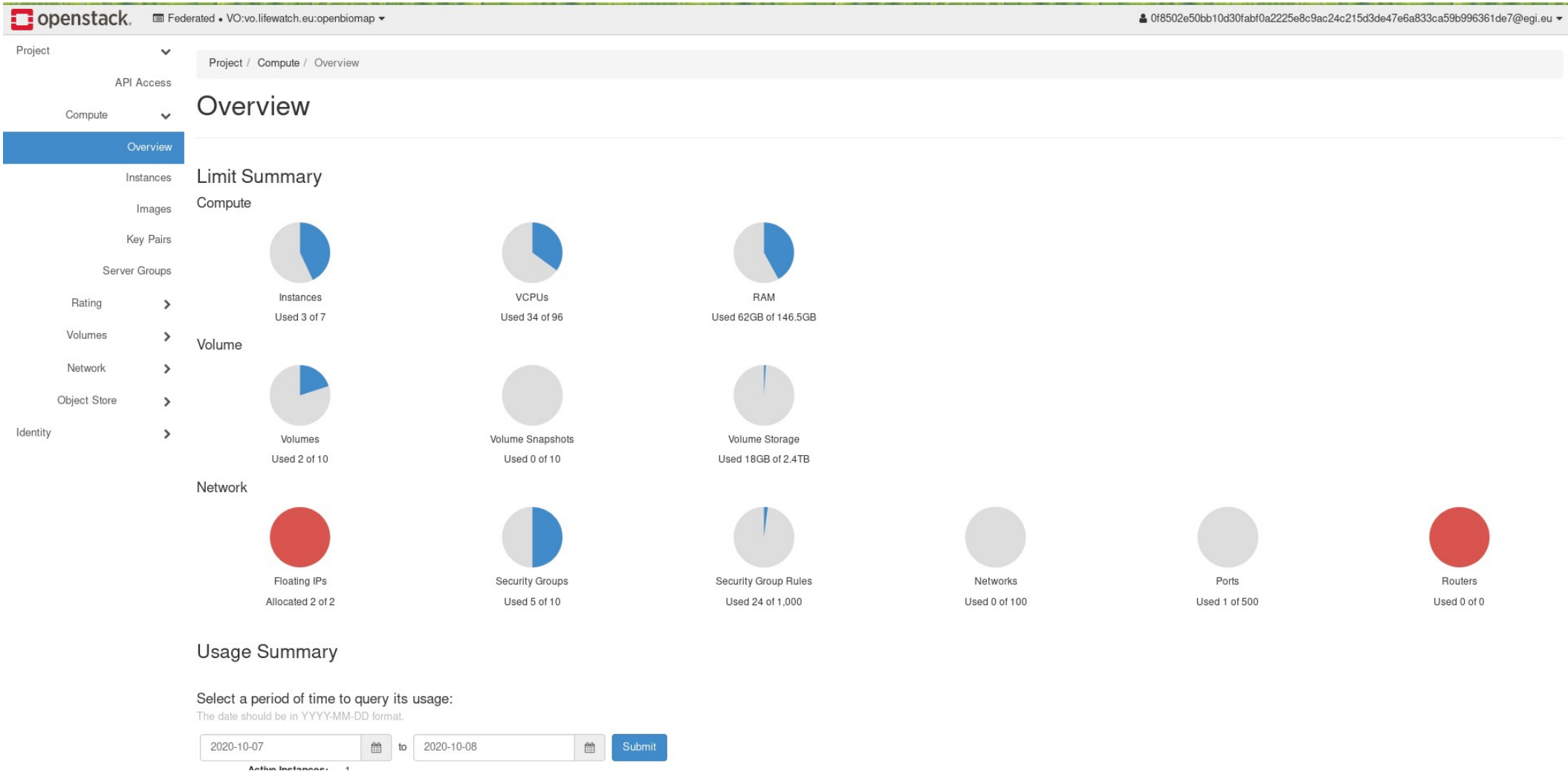
openstack.
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Project
API Access
Compute
Overview
Instances
Images
Key Pairs
Server Groups
Rating
Volumes
Network
Object Store
Identity
Project / Compute / Overview
Overview
Limit Summary
Compute
Instances
Used 3 of 7
VCPUs
Used 34 of 96
RAM
Used 62GB of 146.5GB
Volume
Volumes
Used 2 of 10
Volume Snapshots
Used 0 of 10
Volume Storage
Used 18GB of 2.4TB
Network
Floating IPs
Allocated 2 of 2
Security Groups
Used 5 of 10
Security Group Rules
Used 24 of 1,000
Networks
Used 0 of 100
Ports
Used 1 of 500
Routers
Used 0 of 0
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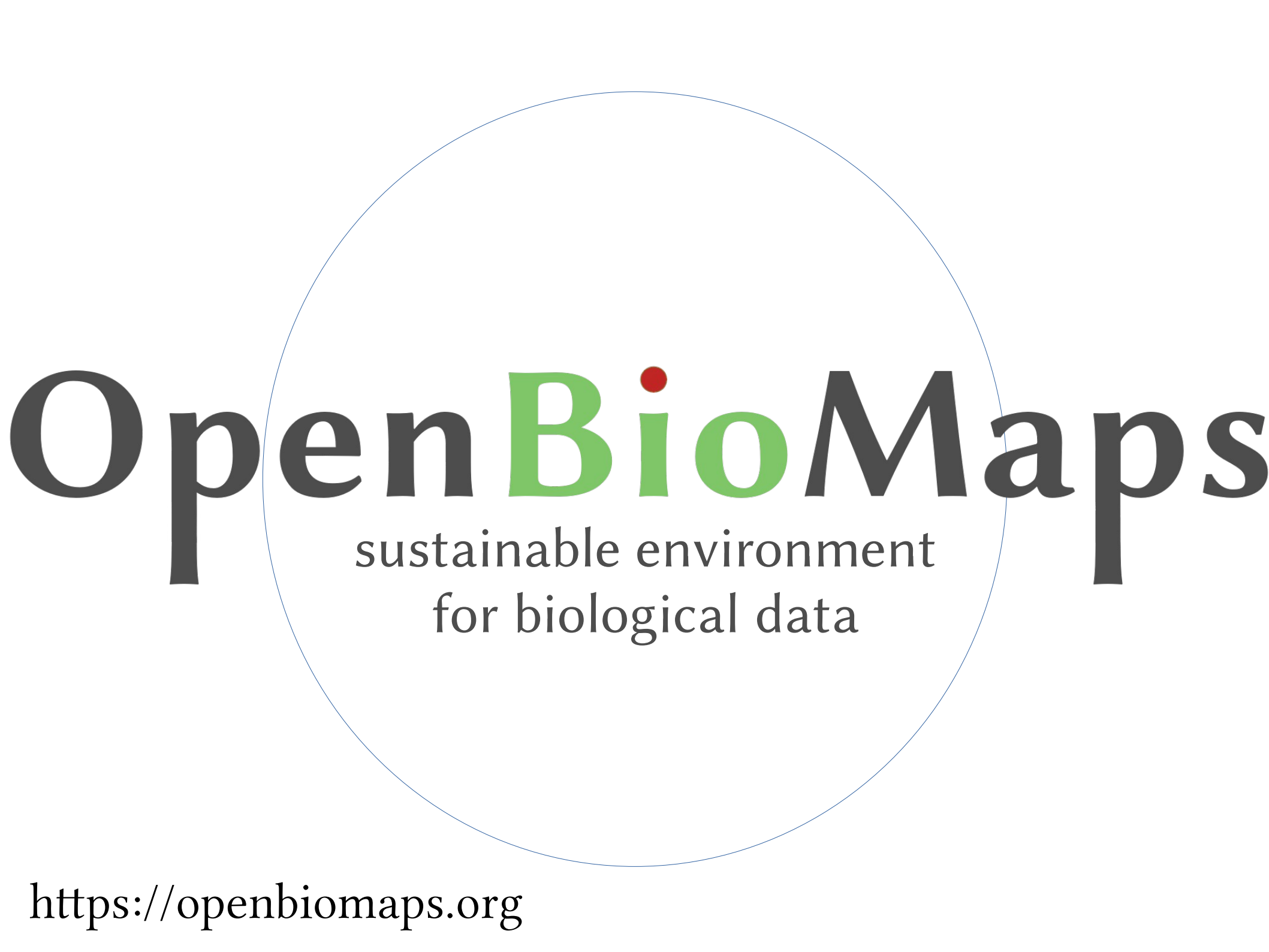
Select a period of time to query its usage:
The date should be in YYYY-MM-DD format.
2020-10-07
to
2020-10-08
Submit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