



Simplifying access to biodiversity data for rapid, repeatable analysis across large areas (B-Cubed)

Quentin Groom



BIODIVERSITY
BUILDING
BLOCKS FOR
POLICY



Meise
Botanic Garden

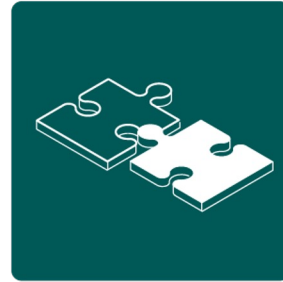


About



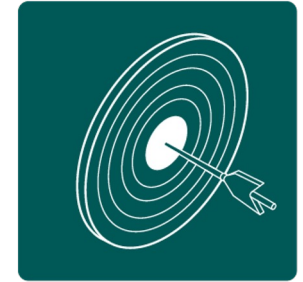
Challenges

The global biodiversity crisis requires **rapid, reliable and repeatable biodiversity monitoring data** which decision makers can use to evaluate policy.



Opportunities

Such information – from local to global level and within relevant timescales – calls for an **improved integration of data on biodiversity** from different sources.

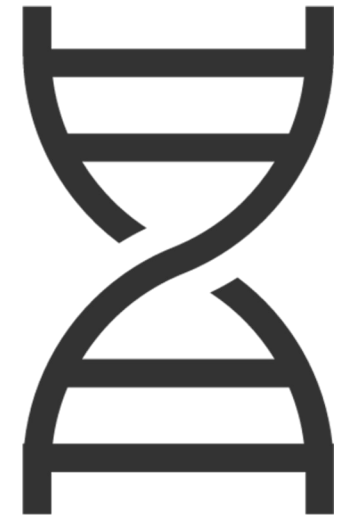
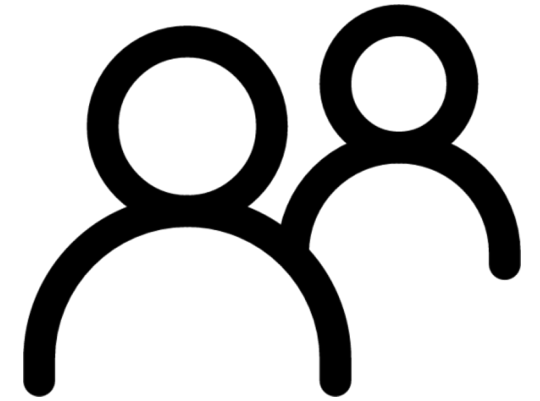
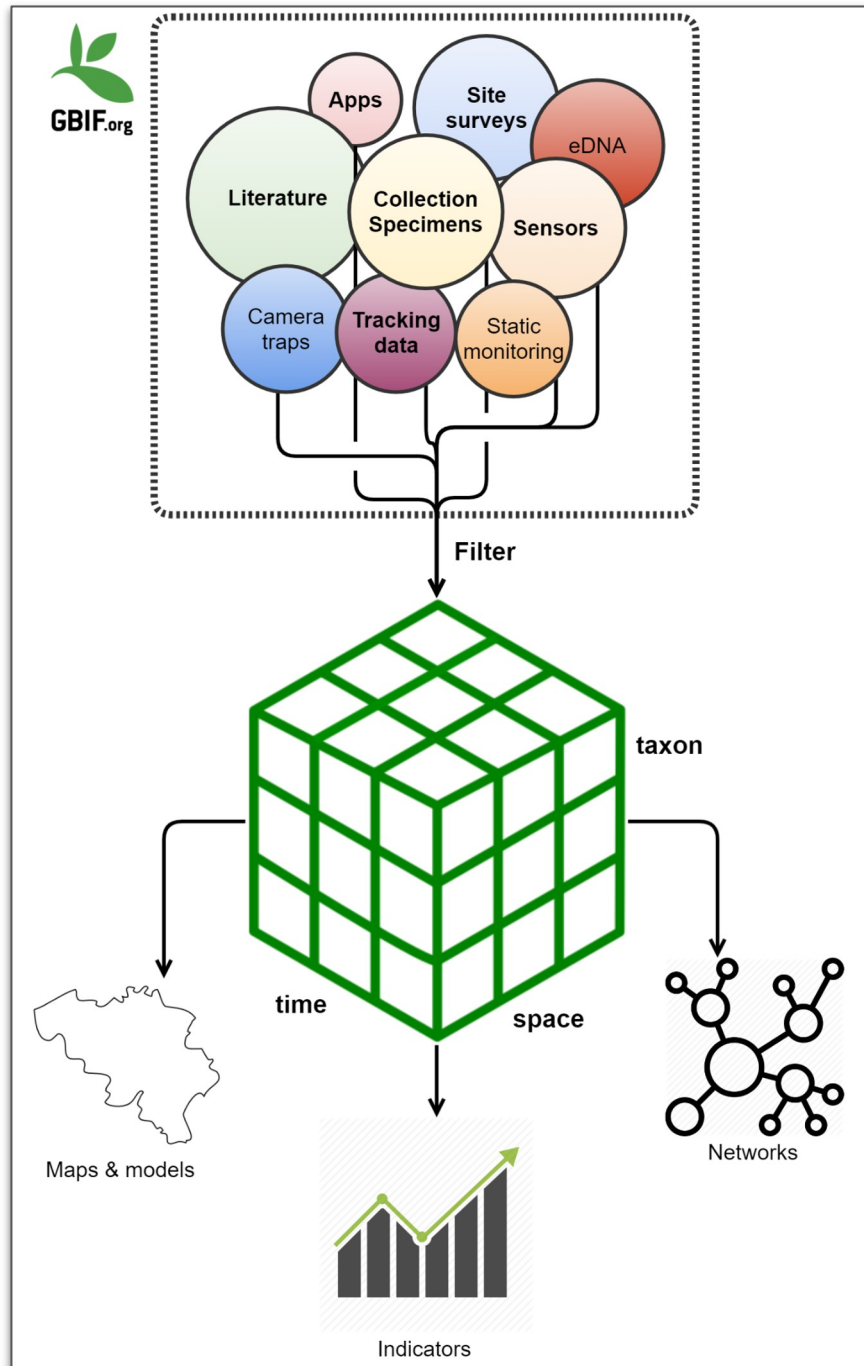
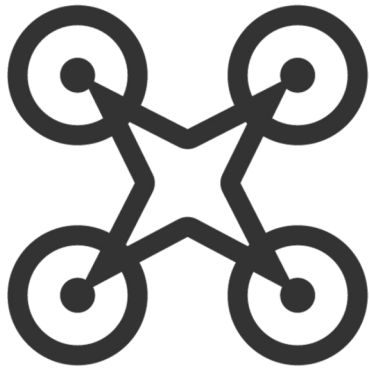


Aim

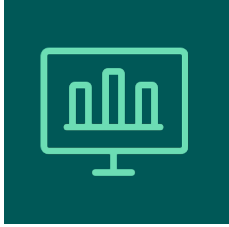
B-Cubed is **standardising access to biodiversity data** empowering policymakers to address the impacts of biodiversity change.



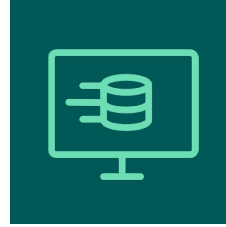
Cubes?



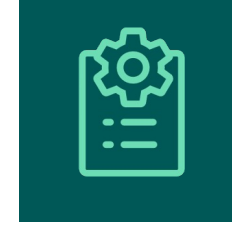
Solutions & Activities



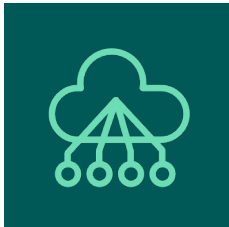
Policy alignment to enhance the use of biodiversity indicators in policy decisions



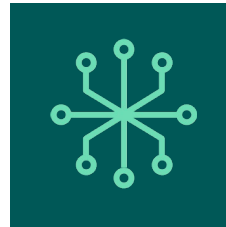
Evidence base to provide fast access to up-to-date biodiversity data for policy



Automated workflows to facilitate automated data aggregation and output



Cloud computing to enable models of biodiversity at high resolution and frequency



Capacity building to train in biodiversity informatics and cloud computing



Case studies to test solutions' applicability and unite biodiversity informaticians





B-Cubed Solutions

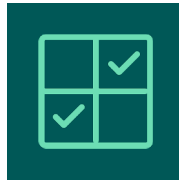
Data & Evidence

B-Cubed aims to improve the existing policy evidence base and contribute to better alert systems by providing fast access to **pre-aggregated and modelled biodiversity data** and **standardised biodiversity indicators** responsive to the addition of new data.

BIODIVERSITY CUBES



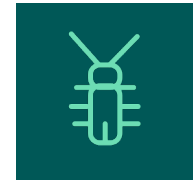
Species occurrence cube



Suitability cube



Dissimilarity cube

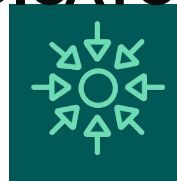


Network invasibility cube

BIODIVERSITY INDICATORS



Phylogenetic indicators



Impacts of alien taxa indicators



Robustness indicators





B-Cubed Activities

Policy alignment

To ensure an improved match between policy and the biodiversity data used to inform it, B-Cubed works closely with existing European and international biodiversity initiatives to **identify and address policy needs**.



European biodiversity initiatives

B-Cubed works closely with other European projects to identify data needs for policies and targets aligned with the new European Green Deal.



International science-policy convergence

B-Cubed is reviewing the existing policy and reporting needs by conducting a landscape analysis and consultation.



Capacity building

To ensure B-Cubed's tools meet openness standards and to **build better capacity in biodiversity informatics and cloud computing**, the project is developing a number of guidelines, training programs and activities.



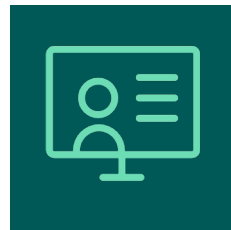
**Software requirements
and assessment**



FAIR data products



Hackathon



Tutorials



Training and support



The B-Cubed Hackathon





Where and when will the hackathon be held?

Date: **April 2024** - 2/04 - 5/04

Location: **Herman Teirlinck**

Havenlaan 188
1000 Brussel



Consortium



RESEARCH INSTITUTE
NATURE AND FOREST



Biodiversity Building Blocks for policy



Funded by
the European Union

Thank you!

Quentin Groom

quentin.groom@plantentuinmeise.be



b-cubed.eu



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B-Cubed Project



**B-Cubed
Newsletter**



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