



BIODIVERSITY
BUILDING
BLOCKS FOR
POLICY

Biodiversity Data Cubes for Cross-Cutting Science and Policy

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iDiv/MLU



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Meise
Botanic Garden



EGU - Biodiversity from a Geoscience
perspective/17.04.2023/Vienna

Facts

Global challenges

Biodiversity is declining



The planet is warming



Evidence-based policymaking



Knowledge4Policy
Science4Policy
Smart4Policy



Biodiversity Building Blocks for policy



Biodiversity Building Blocks for Policy (B-Cubed Project)

Aim

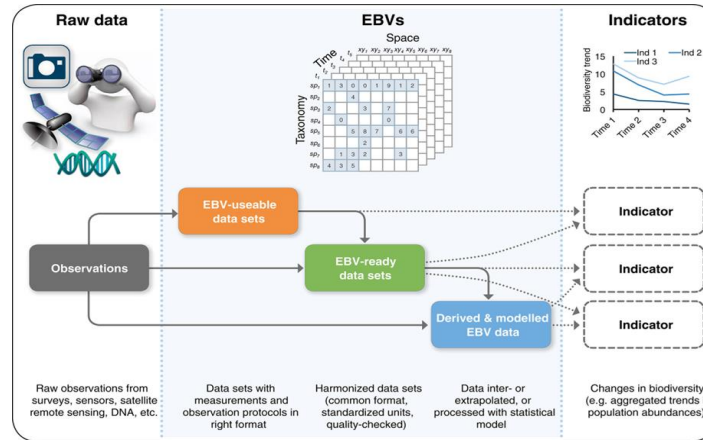


To support rapid, reliable and repeatable biodiversity monitoring data which decision makers can use to evaluate policy

How?

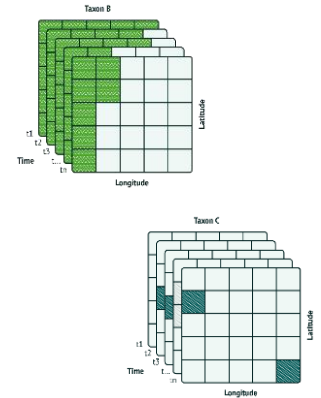


Essential Biodiversity Variables



Kissling et al. 2018. *Biol. Rev.* (2018), 93, pp. 600–625.

Species occurrence cubes



>2.6 billion species occurrence records from 2,195 publishing institutions



First outcomes



Cube generation software

This feature implementation will continue throughout 2024.

Making cubes on Ms Azure Databricks

<https://techdocs.gbif.org/en/data-use/data-cubes>

GBIF API SQL Downloads

API SQL Downloads –
Functions Data Cubes

<https://techdocs.gbif.org/en/data-use/b-cubed/generate-cube-databricks>

B-Cubed workflows

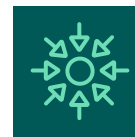
To operationalize models and indicators while ensuring consistent and repeatable results for policy.

- Alignment with policy and other biodiversity initiatives
- Biodiversity Indicators
- Modelling Scenarios - Present and future climate

B-Cubed Hackathon



<https://github.com/b-cubed-eu/hackathon-projects-2024/>



Impacts of alien
taxa indicators



Suitability cube



Thank you!

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b-cubed.eu



B-Cubed Project



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Biodiversity Building Blocks for policy

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