

8th International Conference on BIC DATA & Data Science for Official Statistics BILBAO 2024 Informing Climate Change and Sustainable Development Policies with Integrated Data

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# Using the Census of Environment to report on biodiversity policies

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# **Census of Environment is:**

#### ECOSYSTEM TYPES



EXTENT	CONDITION	ECOSYSTEM SERVICES	BENEFICIARIES	PRODUCTS	STANDARDS
Estimates of the area and location of ecosystems	Estimates of ecosystem health for various ecosystem characteristics	Estimates of the contributions of ecosystems to society	Users and beneficiaries of ecosystem services including businesses, governments and households	Tables, regional profiles, interactive mapping tools, spatial files and analytical articles	High level of statistical standards and data governance
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		a to			- E

### Census of Environment (statcan.gc.ca)

### SCOPE OF ECOSYSTEM ACCOUNTING IN CANADA

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# Census of Environment and the Kunming-Montreal Global Biodiversity Framework

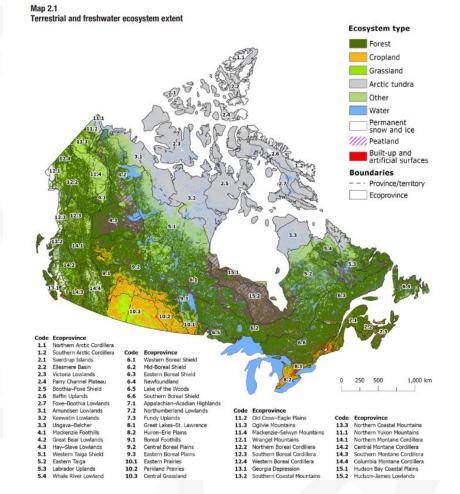
- Response led by Environment and Climate Change Canada
- National Biodiversity Strategy Action Plan and the Domestic Biodiversity Monitoring Framework (DBMF)
- DBMF includes headline indicators as well as domestic indicators
- CoE responsible for the following indicators: <u>Headline</u>
  - A2 Extent of natural ecosystems
  - B1 Ecosystem services
  - 12.1 Urban green and blue spaces for public use <u>Domestic</u>
  - Value of commercial provisioning services



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## **Example: Developing land cover data**

- Working on a spatially based register and design-based area estimates for land cover
- This will form the basis for ecosystem extent
- Integrates data sets from various sources (federal)
- Data is available on a 30m spatial resolution



Source: Accounting for ecosystem change in Canada (statcan.gc.ca)



# Using StatCan data to meet KM-GBF needs

### Challenges

- Data development
- Methodology decisions (in particular with ecosystem services)
- Resources (technical and human)

# **Opportunities**

- International policy frameworks increase visibility of data and move data higher up in list of government priorities
- Cooperation with other government
  departments
- National response will produce more data that can be used in CoE