



CANADIAN GEOSPATIAL DATA INFRASTRUCTURE INFORMATION PRODUCT 29e

Canadian Geospatial Data Infrastructure – Overview

GeoConnections

2012



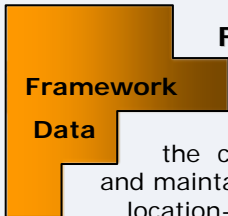
Natural Resources
Canada

Ressources naturelles
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Canada



The Canadian Geospatial Data Infrastructure (CGDI)

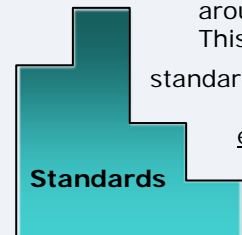


Framework data:

The core data of the CGDI, framework data is the common, up-to date, and maintained base of quality location-based data for all of Canada. This data provides context and reference to physical features and other types of information linked to geography. These datasets are the base mapping layers required to develop applications and are freely available for reuse. Framework data is the foundation upon which location-based information becomes spatially relevant to users.

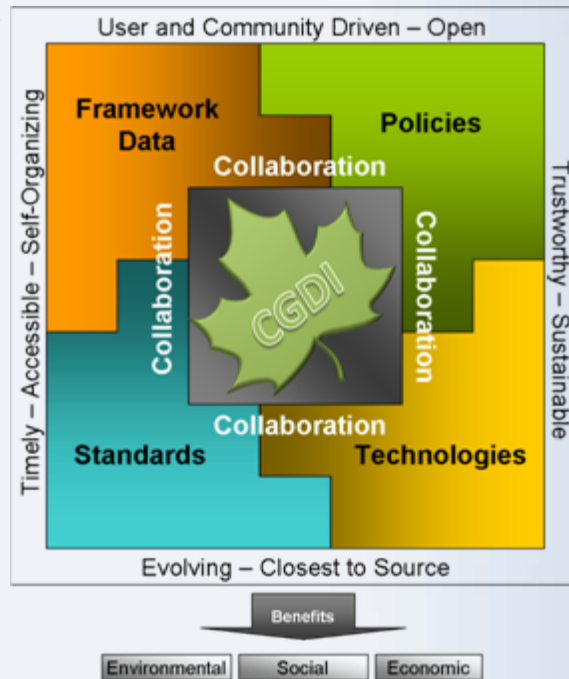
Standards: Technical and data standards allow diverse data sources, services, applications and systems to operate with each other. The CGDI is built upon international standards that allow it to work with other infrastructures in Canada and around the world. This harmonization of

standards is fundamental to ensuring the efficient exchange of location-based information.



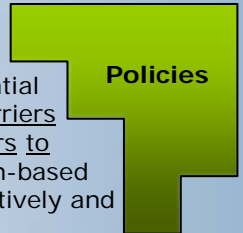
What is The CDGI?
The CGDI helps Canadians gain new perspectives into social, economic, and environmental issues by providing an online network of resources that improve the sharing, use and integration of information tied to geographic locations in Canada.

CGDI Components and Guiding Principles

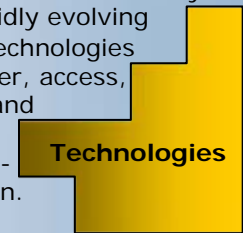


Policies:

Operational policies are essential to eliminating barriers and enabling users to exchange location-based Information effectively and efficiently. These data policies address topics related to the lifecycle of location-based data (i.e. collection, management, dissemination, use) and make issues such as data access, quality, ownership, and integrity, easier to manage.



Technologies: The CGDI uses a suite of innovative tools to provide a functional and accessible environment, which enables the development of systems and applications that integrate location-based information. The CGDI's open and flexible architecture continually adapts to the rapidly evolving Internet. These technologies help users discover, access, integrate, share and disseminate Canada's location-based information.



Collaboration and Partnerships - Tying it all together

Collaboration and partnerships between federal, provincial, territorial and regional governments; the private sector, non-government organizations; and academia ensure interoperability for the CGDI. This interoperability is achieved by the convergence of **framework data, policies, standards and technologies** necessary to harmonize Canada's location-based information.

Benefits to Canadians

The CGDI allows users to discover, evaluate and use a wide range of location-based information from various sources, which would have otherwise been difficult to find. It helps decision-makers from all levels of government, the private sector, non-government organizations and academia use location-based information to make effective decisions on social, economic and environmental priorities.

CGDI Vision
Canadians have open, secure and continually available access to comprehensive location-based information about Canada through the community-sustained CGDI in support of prosperity and well-being for all.