

COINAtlantic circa 2008 Potential Components

- Metadata
 - All databases registered with COINAtlantic must have up-to-date and adequate metadata registered with the GeoConnections Discovery Portal.
- A user registration function to identify and characterize users
 - Tracks uses, problems and 'learns and builds' on successful uses
- A user login function
- A Web Mapping Interface, with a link to NRCan's GeoNames service, for facilitating a selection of the geographic area of interest.
- A function that searches the metadata for relevant data/information/applications in the selected geographic area registered with COINAtlantic. The search is based on the user's preferences, stated search parameters and possibly a suitability weighting tailored to their needs.
 - The search is executed on the metadata catalogues over the internet to identify best available data.
 - Additional metadata fields may be required for COINAtlantic to identify authoritativeness (*e.g.*, peer review = 10, TEK = 5 and all un-reviewed data = 0) and sustainability (data from sources with a commitment letter on file = 10, ACZISC members = 5, all new and uncertified data = 0)
- A data delivery function to deliver best available data to the user's desktop through a map engine in various 'forms':
 - A COINAtlantic "domain" on GoogleEarth
 - Raw data
 - WMSⁱ and/or WFSⁱⁱ
 - Links to full metadata records

COINAtlantic circa 2020 Potential Components

- Metadata
 - All databases registered with COINAtlantic must have up-to-date and adequate metadata registered with the GeoConnections Discovery Portal.
- A user registration function to identify and characterize users
 - Tracks uses and problems, 'learns and builds' on successful uses and builds a catalogue of successful uses
- A user login function
- A Web Mapping Interface, with a link to NRCan's GeoNames service, for facilitating a selection of the geographic area of interest.
- A function that searches the metadata for relevant data/information/applications in the selected geographic area registered with COINAtlantic.
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ⁱ A Web Mapping Service (WMS) is an Internet-based service that allows clients to display maps and/or images with a geographic component and whose raw spatial data files reside on one or more remote WMS servers. The WMS conforms to the OpenGIS Web Map Server Interface specification.

Examples can be found at: http://www.gov.ns.ca/geonova/services/ns_wms.asp.

ⁱⁱ A Web Feature Service (WFS) is specification that defines data manipulation operations on geographic features, allowing for querying, retrieval and transactional (*i.e.* add, update or delete) operations.

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