CONNECT

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EXPLORE

National OpenAIRE Explore Portals A subset of the OpenAIRE Research Graph

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The OpenAIRE Research Community Gateway service - National OpenAIRE Explore Portals

- Unlocks the potential of a country's research outputs.
- The service is offered as *Aggregator-as-a-Service* through customized research portals where all the research outputs of a specific country can be searchable and accessible.
- Built upon the OpenAIRE Research Graph.
  - Research outputs, are semantically linked to each other and carry information about their access rights and the data sources from which they have been collected and where they are hosted.

OpenAIRE aggregation workflow

- OpenAIRE aggregates metadata records of research objects from a variety of content providers compliant to the OpenAIRE guidelines:
  - Institutional or thematic repositories
  - Open Access Publishers and journals
  - Data archives
  - Hybrid repositories/archives
  - Aggregator services
  - Entity Registries (OpenDOAR, re3data, DOAJ, and funder databases)
  - CRIS systems
  - Other Research Graphs

OpenAIRE content provision workflow

○ Metadata are transformed according to the OpenAIRE internal metadata model

○ OpenAIRE Research Graph is generated and published

  ○ Published at least once every 2 months

  ○ A full JSON dump is published on Zenodo every 6 months

National OpenAIRE Explore Portals service workflow 1/2

○ National initiatives give OpenAIRE some simple (meta)data related to the country's organization function: e.g., funding databases, repositories and related projects.

○ OpenAIRE:

   ○ Ingests the data in OpenAIRE infrastructure/system

   ○ Cleans and normalizes the data

   ○ Identifies and extract related information

   ○ Infer links

   ○ Enhances the OpenAIRE Research Graph with the research output of the specific country

National OpenAIRE Explore Portals service workflow 2/2

- Iterative process:
  - The national initiative responsible team analyses the results to ensure consistency and provides feedback
  - OpenAIRE refines until the needed quality is achieved

- OpenAIRE sets up the customized research portal where all the research output of the country can be searchable and accessible

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CANADA.EXPLORE customized research portal

- Subset of the OpenAIRE Research Graph

- Identifies and discovers the Canadian research outputs

- Collaboration:

    - Canadian Association of Research Libraries (CARL)

    - OpenAIRE (OpenAIRE Advance and OpenAIRE Nexus projects)

- https://canada.explore.openaire.eu/

Discovering Canadian research outputs

- The work is providing the community with a better understanding of what Canadian-funded publications are openly available.
- This collaboration involves working with :
  - Local repositories and journals
  - Canadian Research funders
- to ensure that the necessary information about:
  - Authors
  - Funders
  - Institutions
- Is included in the metadata of the related publications.

Features 1/2

○ Through the customized research portal, the Canadian research community will be able to:

  ○ Search

    ○ Search & browse their community's research products

    ○ Find recent research results linked to the community

    ○ Search research results, projects and content providers linked to the community

  ○ Monitor

    ○ View statistics for their the community's research products

    ○ Research results statistics linked to the community

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Features 2/2

- Through the customized research portal, the Canadian research community will be able to:
  - Deposit
    - Find the appropriate repository to deposit their research outputs or to include in their data management plan
    - Deposit or publish their research outputs in Open Access
  - Link
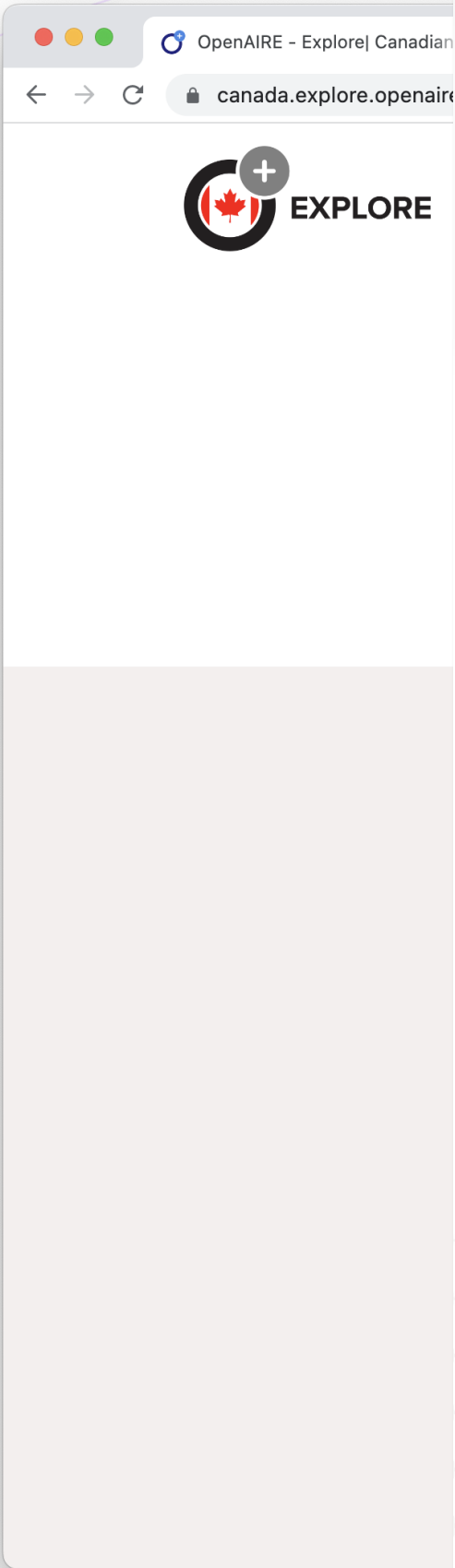   - Link their research output with their community, funding, and other research products

Benefits

- Increases the discoverability of repositories' contents

- Provides a comprehensive view of Open Access in Canada

- Supports the tracking and monitoring of compliance with the Canadian Tri-agency Open Access policy: https://www.ic.gc.ca/eic/site/063.nsf/eng/h_F6765465.html

- Offers value added services

- Demonstrates that "network" value of repositories

Canadian portal customizations

○ Home page with its own identity (a dedicated logo and colour customization).

○ Additional information about:

  ○ The collaboration with OpenAIRE

  ○ Statistical numbers about the content

○ Dedicated page for developers on how to use the OpenAIRE API to get Canadian results.

canada.explore.openaire

EXPLORE

LINK   DEVELOP   SIGN IN

Our Canadian **Funders**

NSERC CRSNG

Natural Sciences and Engineering Research Council of Canada

172,127

research outcomes found

64%

Open Access

CIHR IRSC

Canadian Institutes of Health Research

74,360

research outcomes found

73%

Open Access

SSHRC CRSH

Social Sciences and Humanities Research Council

18,574

research outcomes found

49%

Open Access

Our growing **Community**

10

FUNDERS

200

CONTENT PROVIDERS

3K

PROJECTS

2,491,522

PUBLICATIONS

114,780

RESEARCH DATA

124,404

OTHER RESEARCH PRODUCTS

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Colorado, USA : 6th - 9th June 2022

The OpenAIRE Research Community Gateway service - National OpenAIRE Explore Portals

- References
  - Claudio Atzori, Alessia Bardi, Paolo Manghi, & Andrea Mannocci. (2017). The OpenAIRE workflows for data management. Zenodo. https://doi.org/10.5281/zenodo.996006
  - Paolo Manghi, Claudio Atzori, Michele De Bonis, & Alessia Bardi. (2020). Entity deduplication in big data graphs for scholarly communication. Data Technologies and Applications, 54, 409–435. https://doi.org/10.1108/dta-09-2019-0163

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