



Forward Linking Partnership

Lisa Goddard
CRKN Conference
May 2024



LINCS (2019-2024)

CFI

\$1.4 million

Built extensive toolset for converting Humanities research data into linked data.

Authored linked data vocabularies.

Data model: CIDOC-CRM

Forward Linking (2023-2026)

SSHRC PDG

\$200 000

Create more linked entities and vocabularies drawing on LINCS tools and models.

Perform an ecosystem and policy analysis; make recommendations for infrastructure & sustainability.

Forward Linking

Building Relationships within the Cultural Data Ecosystem

Forward Linking will **strengthen the Canadian cultural data ecosystem**, inform a sustainability strategy for a national investment in scholarly infrastructure, and elucidate how **linked data** can advance **representational and epistemological justice** through **relationality, context, and provenance**.



[Click here to read the grant application](#)

Forward Linking

Building Relationships within the Cultural Data Ecosystem

A successful semantic web for cultural data requires

1. the ongoing development of web identifiers for people, artifacts, and other entities; so as to
2. link them through models informed by scholarly nuance; using
3. inclusive tools for semantic web data creation and use.

Forward Linking Partnership

Forward Linking's **14 partners** and **28 researchers** from across sectors will:

Collaborate on innovative, high-impact projects to pilot ways of building diversity and decolonization into workflows;

Evaluate the infrastructure landscape to identify gaps, challenges, and models, and investigate how to sustain scholarly infrastructure in the Canadian context; and

Ecosystem Analysis

Considering the state of scholarly infrastructure in Canada.

The primary output of the FL partnership will be an extensive analysis with multiple outputs in both official languages of the place of scholarly infrastructure within the Canadian linked cultural data ecosystem, including recommended policies and protocols for partners, researchers, professionals, and stakeholders.

Forward Linking Clusters and Pilot Projects

Closing the gap between scholarly activity and online cultural content
Advancing the ecosystem and informing sustainability

Persistent Identifiers (PIDs) Cluster

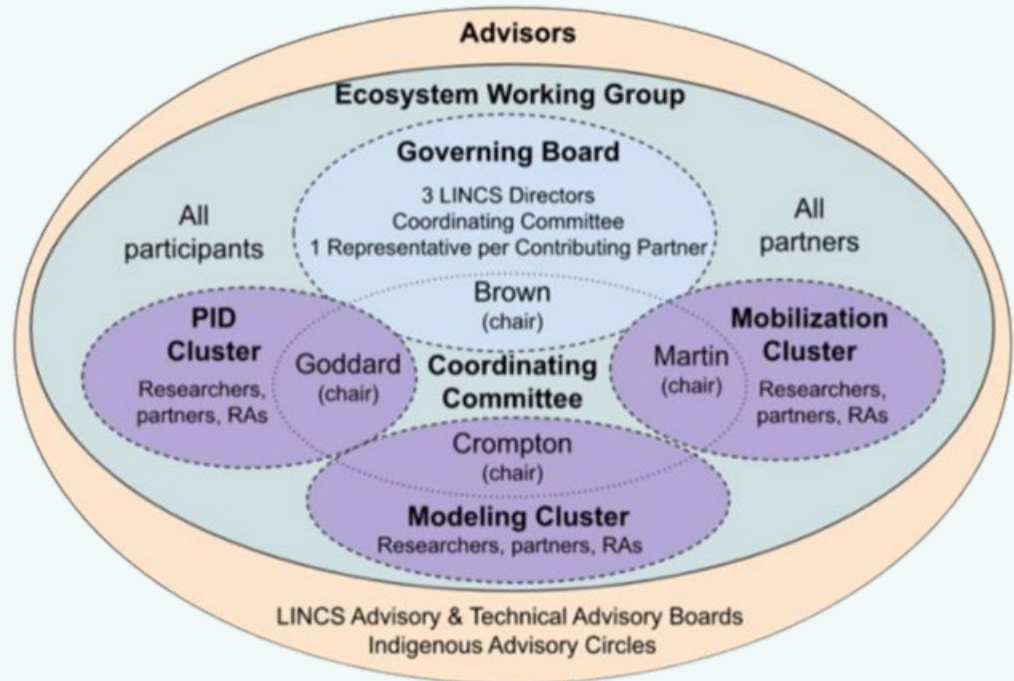
Lead: Lisa Goddard
University of Victoria

Linked Data Modelling Cluster

Lead: Constance Crompton
University of Ottawa

Mobilizing Linked Data Cluster

Lead: Kim Martin
University of Guelph



Forward Linking Partnership Governance Structure

Persistent Identifiers Cluster

Create and promote PIDs to for diverse content
Establish respectful workflows

Pilot Projects

PIDs for objects

Natalie MacDonald (CRKN), Dean Seeman (UVic), Lisa Goddard (UVic)

PIDs for people

John Aspler (CRKN), Kim Martin (Guelph)

Historical PIDs and Equity, Diversity, Inclusion, and Decolonization

Jim Clifford (Saskatchewan), Sharon Farnel, LAC/BAC

PIDs and Respectful Terminology

Stacy Allison-Cassin (Dal & NIKLA), Camille Callison, UFV & NIKLA)

Historical PIDs

Nomenclature is the most extensively used museum classification and controlled vocabulary for historical and ethnological collections in North America.

The screenshot shows the top navigation bar with links for FRANÇAIS, HOME, BROWSE, ABOUT US, CONTACT US, and DONATE, along with social media icons for Twitter and Facebook. The main header features the title "Dictionary of Canadian Biography" in a large, dark red serif font. To the right of the title is a search bar with a magnifying glass icon and a red arrow button. Below the search bar are links for "Print" and "Advanced Search".

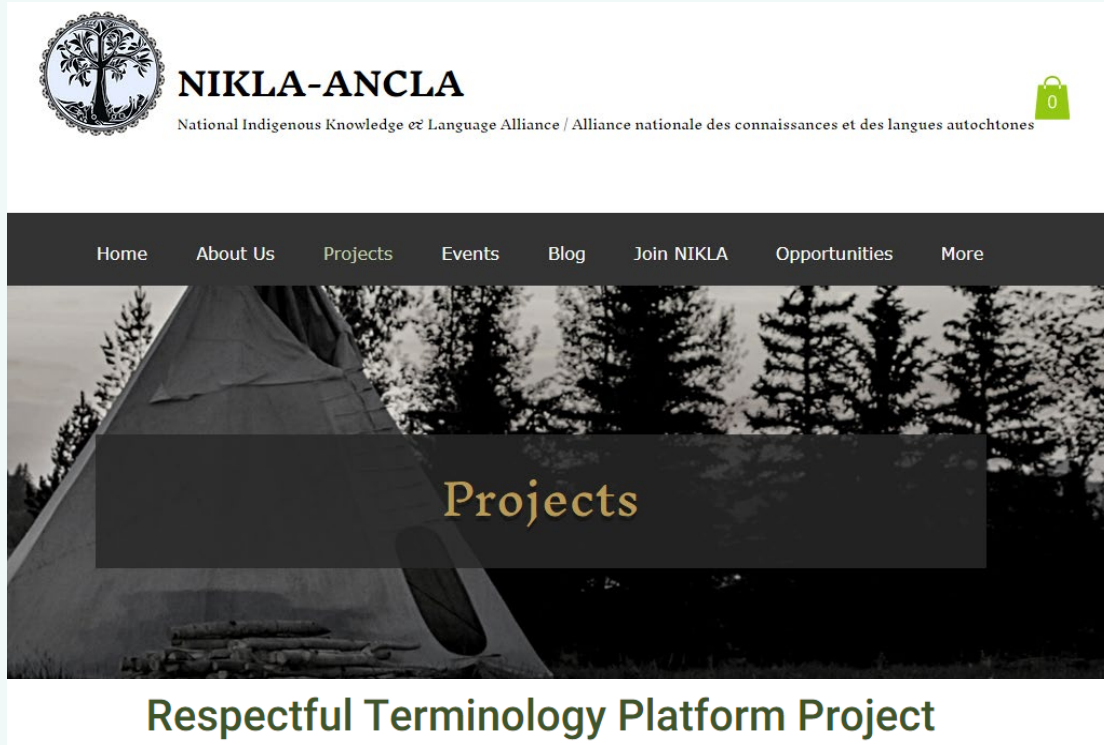
On the left side, there is a dark red sidebar with white text. It contains the following sections: "DCB/DBC News", "New Biographies", "Minor Corrections", and "Biography of the Day". Under "Biography of the Day", there is a small portrait of a woman and the text: "GATTY, JULIANA HORATIA - Volume XI (1881-1890) d. 13 May 1885 at Bath and was buried at Trull, near Taunton, England".

The main content area is titled "Our Most Popular Biographies" and features three portrait images with captions below them: "BETHUNE, HENRY NORMAN", "DOUGLAS, Sir JAMES", and "BOURGEOYS, MARGUERITE, dite du Saint-Sacrement". Below these portraits are two buttons labeled "English" and "French". At the bottom of the main content area, there is a line of text: "To view the 100 biographies most frequently read in English or in French, click on the language of your choice".

Jim Clifford (USask)
Sharon Farnel (UAlberta)

Respectful Terminology

Indigenous-led project to create a permanent and sustainable online platform for vocabulary sets that can be applied to Indigenous Peoples, places, heritage, tradition, knowledge, and cultures.



The image shows a screenshot of the NIKLA-ANCLA website. At the top left is a circular logo featuring a tree. To its right is the text "NIKLA-ANCLA" in a bold, serif font, followed by the bilingual name "National Indigenous Knowledge & Language Alliance / Alliance nationale des connaissances et des langues autochtones" in a smaller font. A green shopping bag icon with the number "0" is positioned to the right of the text. Below this is a dark navigation bar with white text links: "Home", "About Us", "Projects", "Events", "Blog", "Join NIKLA", "Opportunities", and "More". The main content area features a large background image of a teepee in a forest. A dark grey rectangular box is overlaid on the image with the word "Projects" in a gold, serif font. At the bottom of the screenshot, a white banner contains the text "Respectful Terminology Platform Project" in a dark green, sans-serif font.

Stacy Allison-Cassin (Dal)
Camille Callison (UFV)

PIDs for Objects

Where are the gaps? e.g. local collections, ETDs

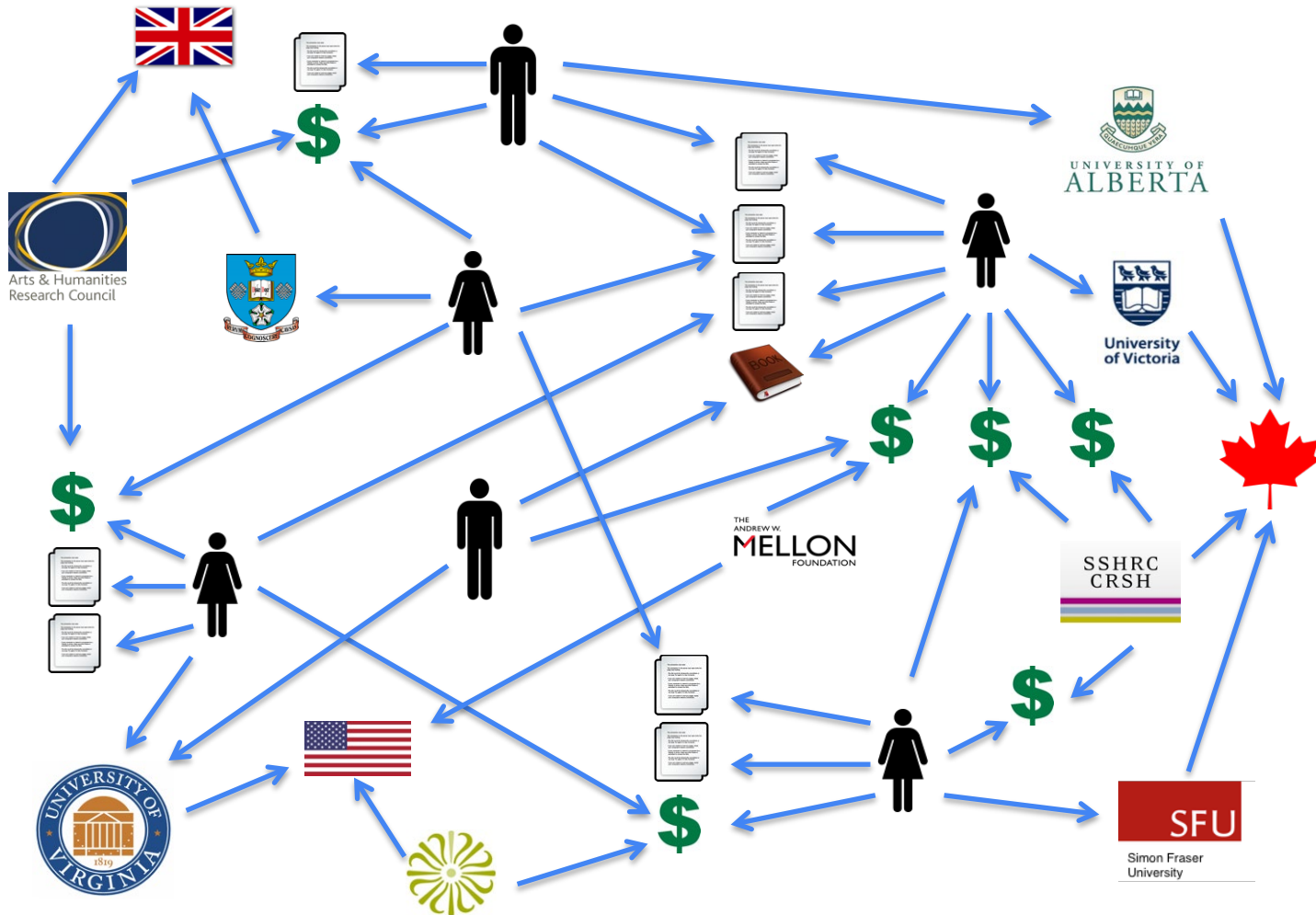
What are the barriers for GLAM institutions?

ARK	DOI
Persistent URLs	Persistent URLs
Decentralized resolution	Centralized resolution
Metadata agnostic	Standard metadata schema
Object metadata local	Object metadata local & centrally aggregated
No automated exchange of metadata	Supports automated exchange of metadata between different platforms.
Free + server costs	DataCite (\$\$) Crossref (\$\$\$)

PIDs for People

Kim Martin
John Aspler

Visualising
ORCID data.



Linked Data Modelling Cluster

Explore appropriate strategies for the formal representation of knowledge in the data structures and vocabularies that will shape the ecosystem

Pilot Projects

- Linked open data in society
Philippe Michon (CHIN), Trang Dang (CHIN), Susan Brown (Guelph)
- Collective Access to linked open data
Emmanuel Château-Dutuer (Montréal), Michael Eberle Sinatra (Montréal), Jon Bath (Saskatchewan)
- Optimizing LINCIS for images and IIIF
Jon Bath (Saskatchewan), Jake Moore (USask Art Galleries)

"Nomenclature" Linked Vocabulary

Nomenclature is the most extensively used museum classification and controlled vocabulary for historical and ethnological collections in North America.

Français English


Nomenclature for Museum Cataloging

Home About **Browse hierarchy** Search terms Bibliography User guide Integration Updates

Browse hierarchy

Current terminology preferences : Natural order and International variant

- ▶ [Category 01: Built Environment Objects](#)
- ▶ [Category 02: Furnishings](#)
- ▶ [Category 03: Personal Objects](#)
- ▶ [Category 04: Tools & Equipment for Materials](#)
- ▶ [Category 05: Tools & Equipment for Science & Technology](#)
- ▶ [Category 06: Tools & Equipment for Communication](#)
- ▶ [Category 07: Distribution & Transportation Objects](#)
- ▶ [Category 08: Communication Objects](#)
- ▶ [Category 09: Recreational Objects](#)
- ▶ [Category 10: Unclassifiable Objects](#)



chin.gc.ca

Date modified: 2024-03-13

Philippe Michon (CHIN)
Trang Dang (CHIN)

CollectiveAccess to Linked Data

Mapping the CollectiveAccess metadata schema to CIDOC-CRM

Université de Montréal | Collection ethnographique
Département d'anthropologie

À PROPOS ▾ COLLECTIONS ▾ EXPLORER ▾

Rechercher dans la collection 🔍

uteau
nu
nada

La collection ethnographiques compte près de 3800 objets provenant des cinq continents. Ce riche corpus, constitué grâce à des terrains de recherche et des dons privés, témoigne des modes de vies de groupes vivant dans des environnements variés. Accessible à la communauté universitaire, c'est un outil de formation scientifique qui se double d'une mission didactique grâce à sa contribution régulière à des expositions temporaires.

Parcours Thématiques

Corpus d'objets innus de Sheshatshiu

Collection
Ethnographiques
Dept Anthropology
Université de
Montréal

Michael
Sinatra (UMontreal
)
Emmanuel Château
-Dutier (UMontreal)

CollectiveAccess to Linked Data

Mapping the CollectiveAccess metadata schema to CIDOC-CRM



USask Art Galleries & Collection

PAWS



Jeff Thomas: I Refuse to be Invisible

Jeff Thomas

📅 May 10, 2024 - September 27, 2024

📍 College Art Gallery

Curated by *Leah Taylor*

I Refuse to be Invisible presents three major bodies of photographic work by artist Jeff Thomas: *The Bear Portraits*, *Indians on Tour* and *Strong Hearts: Powwow Portraits*. Developed over the course of four decades, these photographic

USask Art Galleries

Jon Bath (USask)
jake moore (USask)

Optimizing LINC S for Images

Help smaller institutions to mobilize and link IIF image data.

The screenshot shows a digital interface for a scrapbook titled "Scrapbook 08". At the top, there is a navigation bar with "Image 5 of 44" and a "Go" button. On the left, a "CONTENTS" sidebar lists pages 06 through 11. The main area displays a newspaper clipping with a large headline "DOCTOR STRANGE LOVE" and a sub-headline "EXCLUSIVE: The Belgravia man who helps lesbians have babies". The clipping includes several smaller photos and text columns. On the right, a "MORE INFORMATION" sidebar provides details about the image, including its title, page number, description, creator (Anderson, Adèle), contributor (Patyna, Joanna; Mackenzie, Midge), and subject (Feminism).

Image 5 of 44 Go

CONTENTS << Scrapbook 08

Page 06
Page 07
Page 08
Page 09
Page 10
Page 11

EXCLUSIVE: The Belgravia man who helps lesbians have babies

DOCTOR STRANGE LOVE

Special report in Centre Pages

left (insert): article with black and white illustrations [continued from 8-8_07]: "Hunger Strike" [photos: "Trott" "Emmeline Pankhurst" "Unknown McFarlane Hockin" "Hall" "Rushbrook"] right: article with black and white illustrations: "Doctor Strange Love" "The Belgravia man who helps lesbians have babies..." [credit: Joanna Patyna; Evening News] [photo: "Dr. Sopher..."] [handwritten annotation: "E News 5/1/78"]

Creator
Anderson, Adèle

Contributor
Patyna, Joanna
Mackenzie, Midge

Subject
Feminism

Jon Bath (USask)

New tools for converting images to IIF

IIF permits image annotation

Mobilizing Linked Data Cluster

Engage the partnership and the broader community
in participatory design for rendering linked cultural content more usable

Pilot Projects

- Extending the LINCS Context Explorer
Susan Brown (Guelph), LAC/BAC
- Leveraging PIDs in cultural publications
Marcello Vitali-Rosati (Montréal), Michael Eberle Sinatra (Montréal)
- Design frolics
Kim Martin (Guelph), Robin Bergart (Guelph)



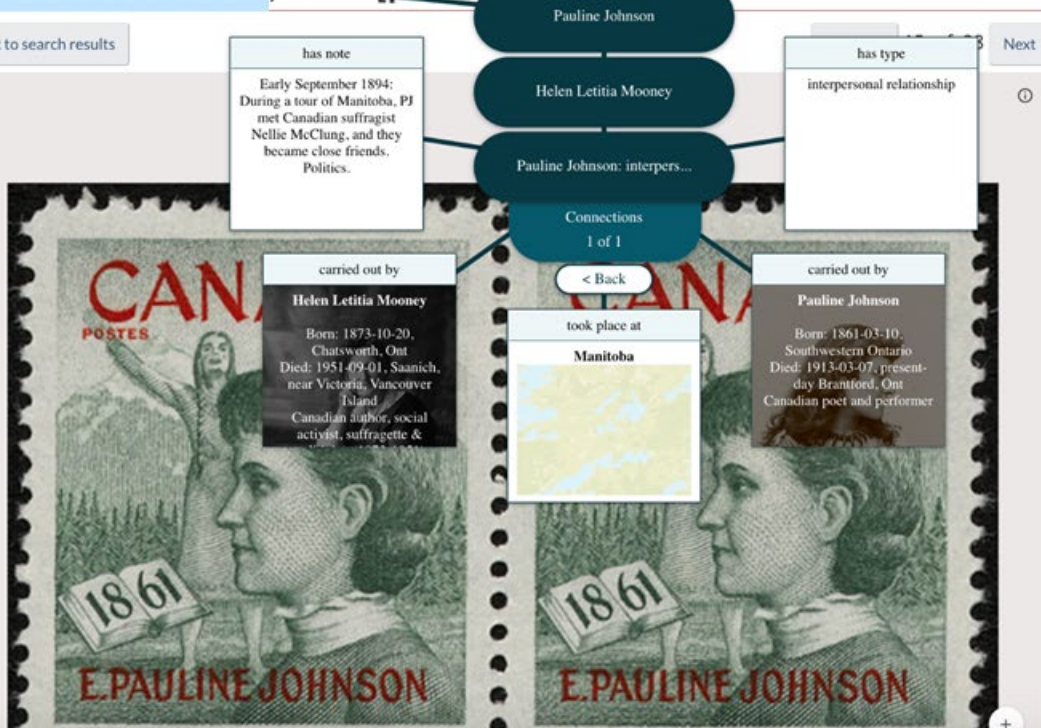
Collection search

Sign In

Canada.ca > Library and Archives Canada > Collection > Search the collections

E. Pauline Johnson, 1861 [philatelic record]

Back to search results



Pauline Johnson

Person

Details

Attributes
gender context: women; gender context: Wo...

Creator of
Canadian Born; Flint and Feather; Legends of ...

Summary
Canadian poet and performer

Dates
Birth - 1861-03-10, Southwestern Ontario
Death - 1913-03-07, present-day Brantford, Ont

Dataset
http://graph.lincproject.ca/orlando

URI
http://viaf.org/viaf/35144782968458846045

View more details



Nellie McClung

Person

Details

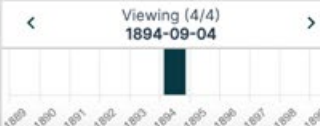
Pauline Johnson: interpersonal relationship with Nellie McClung

Activity

< Back

Type
Activity

has note
Early September 1894: During a tour of Manitoba, PJ met Canadian suffragist Nellie McClung, and they became close friends. Politics.



Prosopographical Data Analysis

Named entity recognition and analysis of persons who appear in published corpus.

← [sens public] v.0.1

Sens public Index

Rubriques

- Essais
- Chroniques
- Entretiens
- Lectures
- Créations
- Dossiers

La revue

- Accueil
- Présentation
- Publier
- Contact
- À propos du site
- Archipel

En ligne

Miscellanea anthologica
Mathilde Verstraete



**L'agir en condition
hyperconnectée**

Art et images à l'œuvre

Dirigé par Jake Moore et Christelle Proulx

Michael Sinatra
(UMontreal)

M. Vitali-Rosati
(UMontreal)

Mobilizing Linked Data Cluster

Playful brainstorming events that focus on a specific design problem.



The image shows a screenshot of the Design Frolics website. At the top, there is a navigation bar with the text "DESIGN FROLIC" in a teal box, followed by "Design Frolics" and "Past Frolics". A gear icon is visible in the top right corner. Below the navigation bar is a large teal banner with the words "DESIGN" and "FROLIC" in white, serif capital letters. Underneath the banner is the heading "What's a Design Frolic?". The main content area contains three columns of text in a typewriter-style font. The first column explains the Amish tradition of frolics. The second column describes the focus of each event. The third column describes the atmosphere of the events.

DESIGN FROLIC

What's a Design Frolic?

From the Amish tradition, a frolic is traditionally a large gathering with the aim to solve a problem, foster community, and enjoy yourselves. Design frolics are just that: a chance to collaborate, explore, play, and get creative.

Each is focused around a specific prompt: a design problem or concept that could benefit from brainstorming and collaborative idea generation.

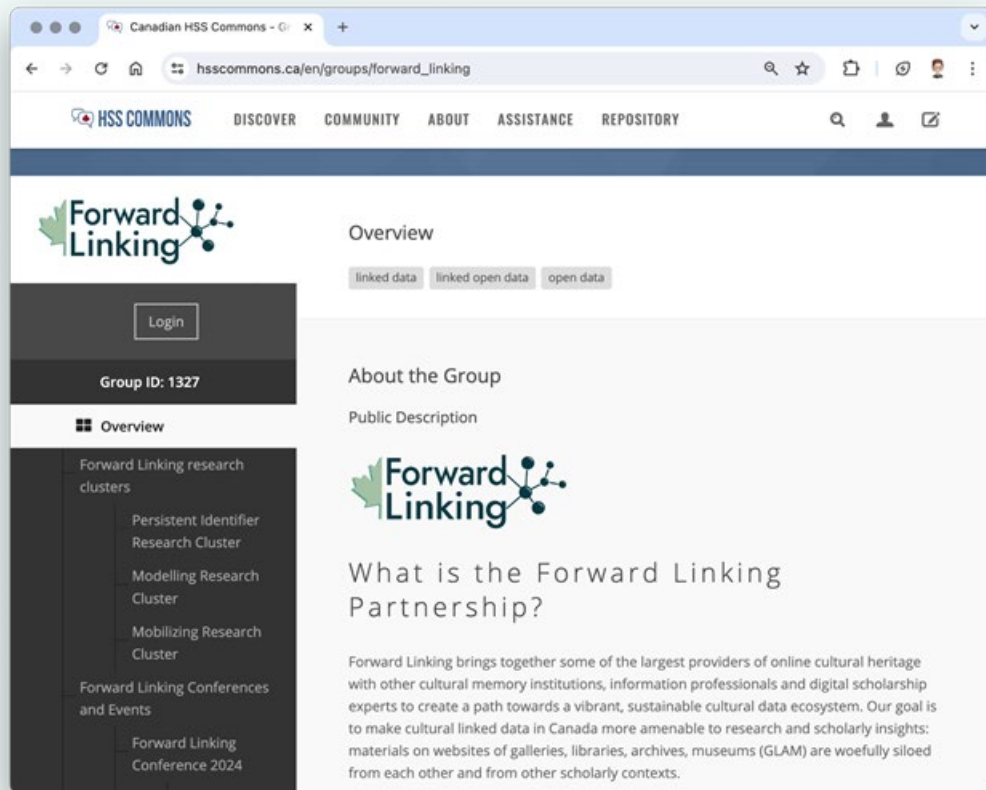
This is a time to have fun, explore, try out new things, and work with others to try to solve some design problems. There's no pressure, no competition, and no expectation; just an opportunity for people to play around and try to design something new.

Kim Martin (Guelph)
Robin Bergart (Guelph)

Join us on HSS Commons

A virtual home-base for the Forward Linking partnership

- Register for an [ORCID](#)
- Sign up for [HSS Commons](#)
- Join Forward Linking (Group: 1327)



The screenshot shows a web browser displaying the HSS Commons page for the Forward Linking group. The browser address bar shows the URL hsscommons.ca/en/groups/forward_linking. The page features a navigation bar with links for DISCOVER, COMMUNITY, ABOUT, ASSISTANCE, and REPOSITORY. The main content area includes the Forward Linking logo, a Login button, and the Group ID: 1327. A sidebar on the left lists various research clusters and conferences. The main content area also includes an Overview section with tabs for linked data, linked open data, and open data, and an About the Group section with a Public Description and a large heading: "What is the Forward Linking Partnership?". The description states: "Forward Linking brings together some of the largest providers of online cultural heritage with other cultural memory institutions, information professionals and digital scholarship experts to create a path towards a vibrant, sustainable cultural data ecosystem. Our goal is to make cultural linked data in Canada more amenable to research and scholarly insights: materials on websites of galleries, libraries, archives, museums (GLAM) are woefully siloed from each other and from other scholarly contexts."

Forward Linking



Thank you!

LINCS
Linked Infrastructure for
Networked Cultural Scholarship

LINCS
L'Infrastructure Numérique pour les
données Culturelles dans le web Sémantique

Funded by

INNOVATION.CA
CANADA FOUNDATION
FOR INNOVATION | FONDATION CANADIENNE
POUR L'INNOVATION

and by partners including

the provinces of Alberta, Ontario,
Québec, and British Columbia

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Ottawa, Toronto, and Victoria