



Canadian Research
Knowledge Network

Réseau canadien
de documentation
pour la recherche

Digital Cultural and Heritage Collections of the Future: Enabling Innovative Access and Expanding Research

November 2, 2022

crkn-rcdr.ca

Agenda

- 1 CRKN's Cultural and Heritage Collections and Infrastructure:
Where We Are and Where We Are Going
- 2 CRKN's Researcher Council: Findings to Date
- 3 Break (10:45-11:00)
- 4 Digital Cultural and Heritage Collections of the Future
Facilitated Discussion - Part 1
- 5 Lunch (12:00-1:00)
- 6 Digital Cultural and Heritage Collections of the Future
Facilitated Discussion - Part 2
- 7 Sustainability and Resourcing

CRKN's Cultural and Heritage Collections and Infrastructure: Where We Are and Where We Are Going

Speakers

Ken Hernden, Chair, PAC and University Archivist and Associate University Librarian, Queen's University

Mark Jordan, Chair, PTSC and Associate Dean of Libraries, Digital Strategy, Simon Fraser University

Brittny Lapierre, Application Developer, CRKN

Natalie MacDonald, Senior Metadata Analyst, CRKN

Ian Milligan, Member, PAC and Associate Vice-President, Research Oversight and Analysis and Professor of History, University of Waterloo

Looking to the Future - Canadiana as Open Infrastructure

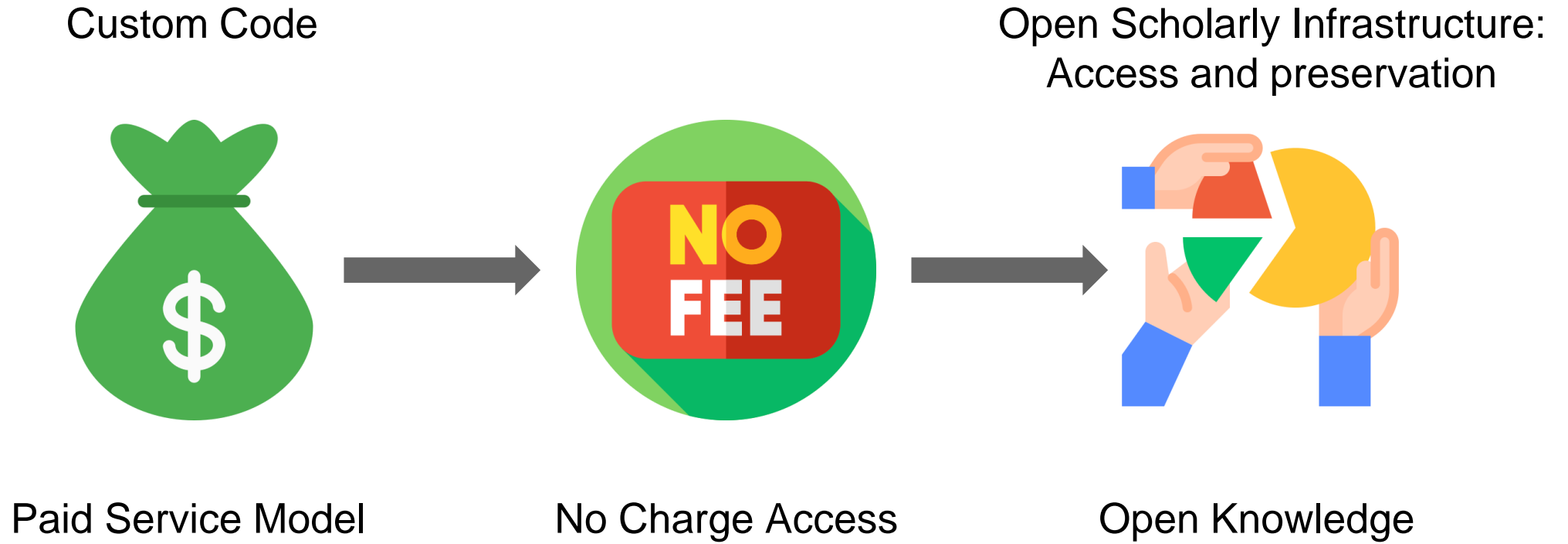


Creating innovative research and collaboration capacity across Canadian digital heritage collections

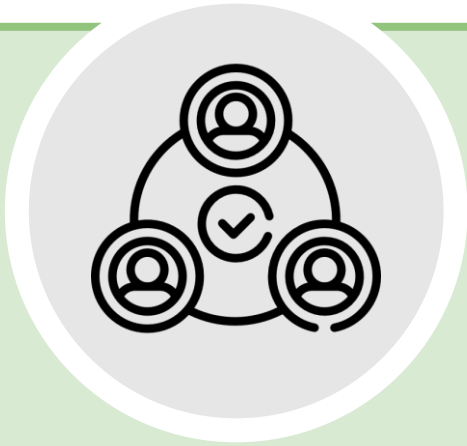
Last year's member discussion



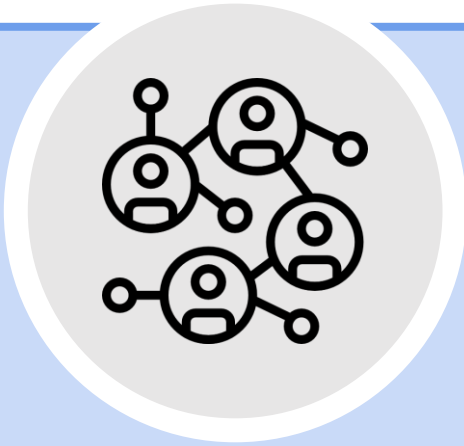
Infrastructure



Partnerships



Build upon existing relationships made through both the licensing and heritage programs



Collaborate with groups already in this space



Focus on Open Knowledge and partnering with organizations with similar values



Content

Why Are We Here	Recognize the research potential of cultural and heritage content
What Do We Want to Do	Collaborate collectively to build sustainable open infrastructure for access and preservation of cultural and heritage content
How We Are Going to Do It	Become a member driven infrastructure hub for research

Member & User-Driven Content

Research in the Present



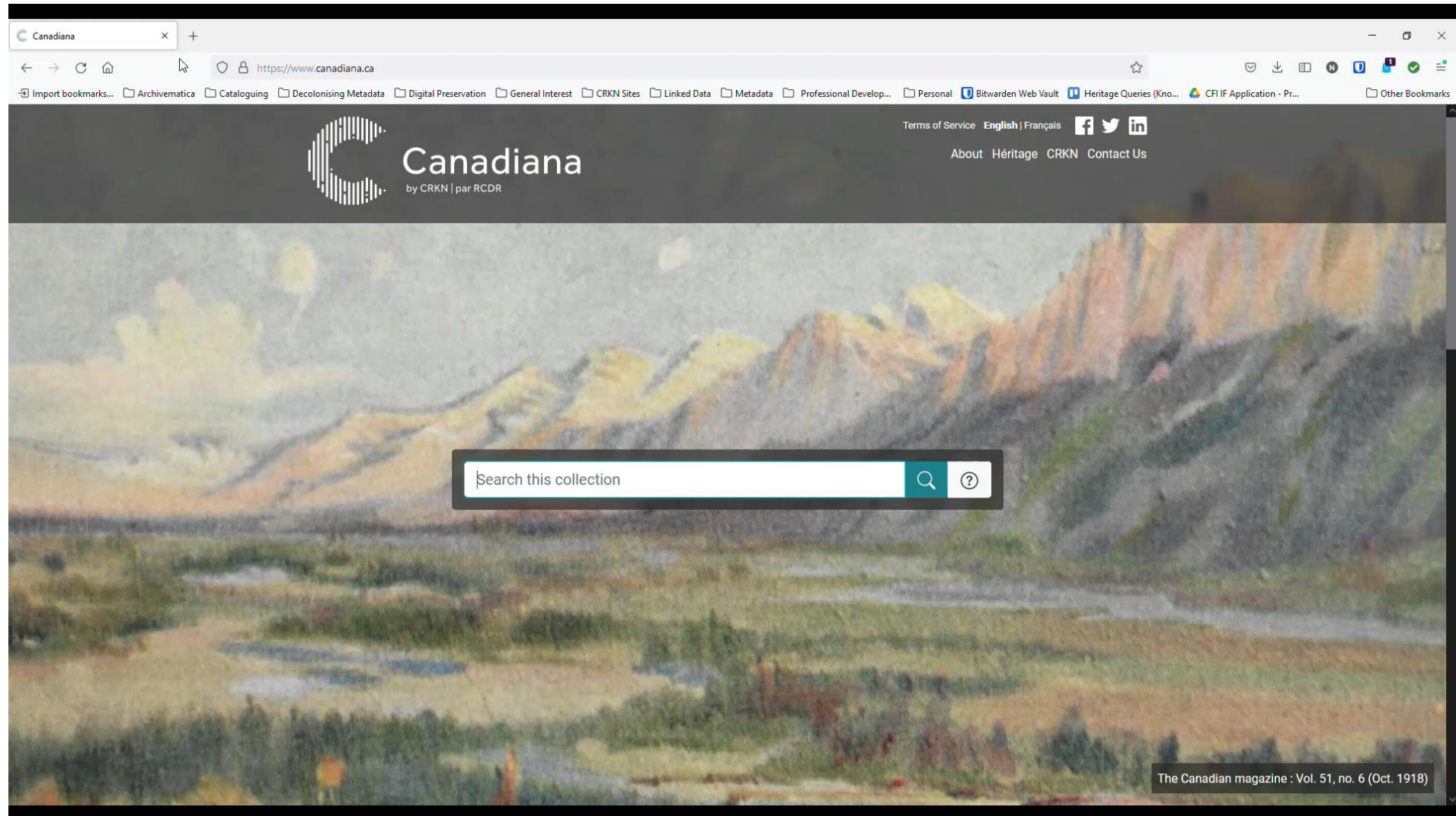
> 90,000 monographs

- pre-1920
- Subject areas include:
 - women's history
 - indigenous history
 - immigration
- 47 different languages, including 14 Indigenous languages

> 4,000 serials

- Early Canadian Periodicals
- Annuals
- Historical newspapers from across Canada
 - From Toronto World to Robochyi narod (The Working people)

Research in the Present



Expand Research Potential

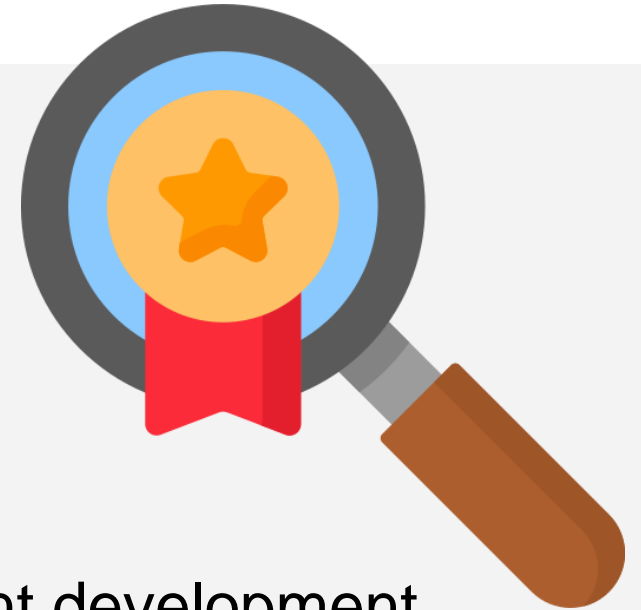
Intentionally adding content

Protecting long-term access to content

Prioritizing representation and diversity in content development

Using CRKN's negotiating power to include copyrighted material

Building upon partnerships to strengthen access to content



Expand Research Potential

As Members, are we ready to ...



Add content from our collections to Canadiana?



Rethink the scope of Canadiana?



Be adventurous and innovative with Canadiana?

Member & User-Driven Preservation



CRKN's Trustworthy Digital Repository (TDR)

Where We Are Now

- One of six existing TDR's internationally
- Only preserves Canadiana content

Where We Will Be in the Near Future

- Running Archivematica
- Preserving member content

Open Future of the Canadiana Infrastructure



Improvements on the status quo



A preservation service for members



National preservation infrastructure

Expand Preservation Potential

As Members, Are We Ready to ...



expand the preservation scope of the Canadiana TDR?



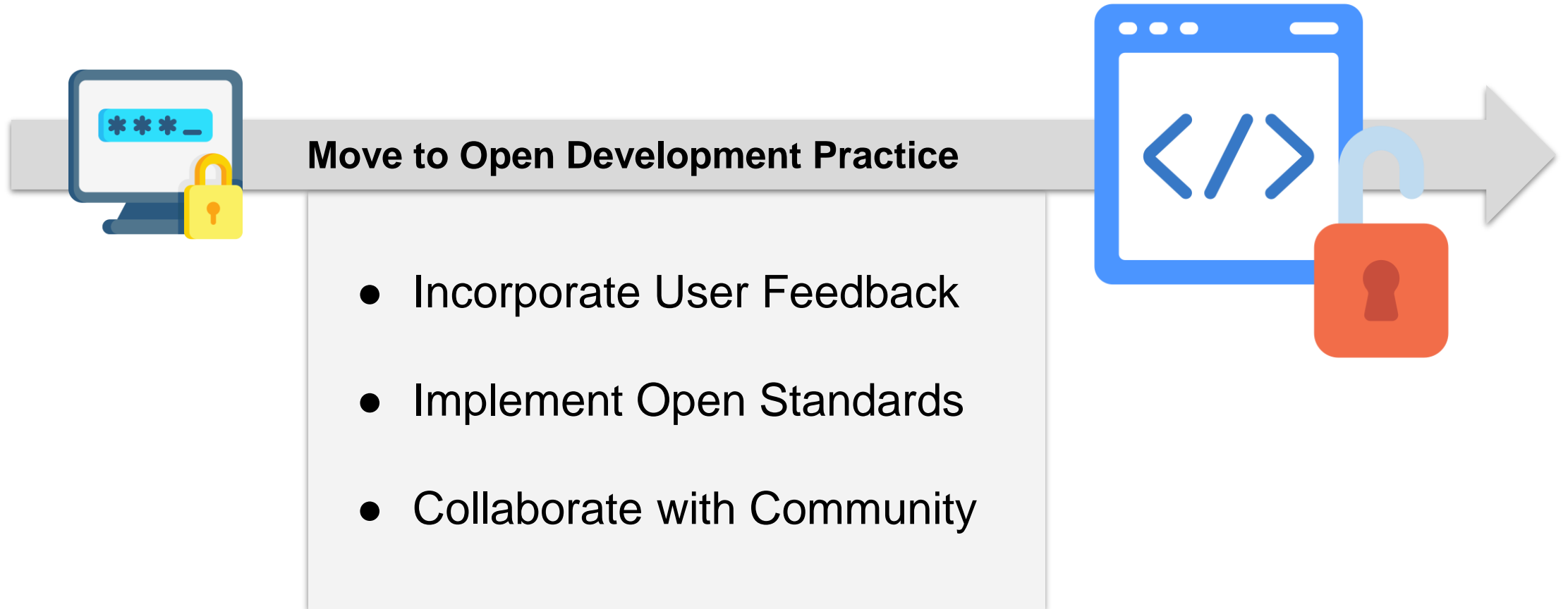
consider the TDR as national preservation infrastructure?



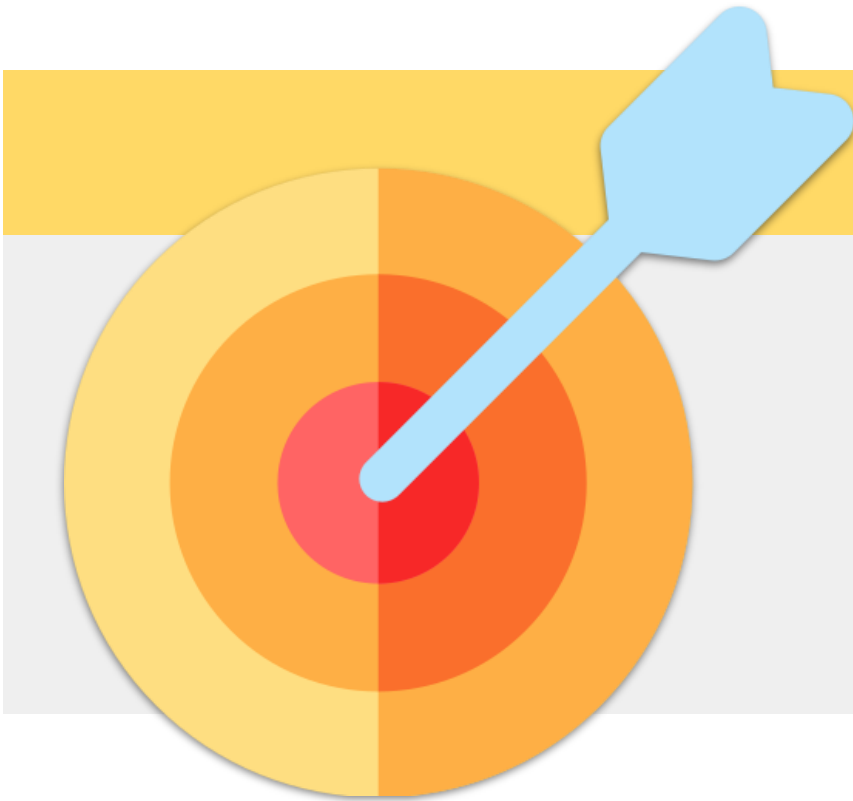
leverage CRKN's expertise and infrastructure for institutional preservation?

Member & User-Driven Development

Member & User-Driven Development



Member & User-Driven Development



Short-Term Goals

- User Testing
- Roadmaps
- Standardizing Metadata
- Adopting respectful terminology

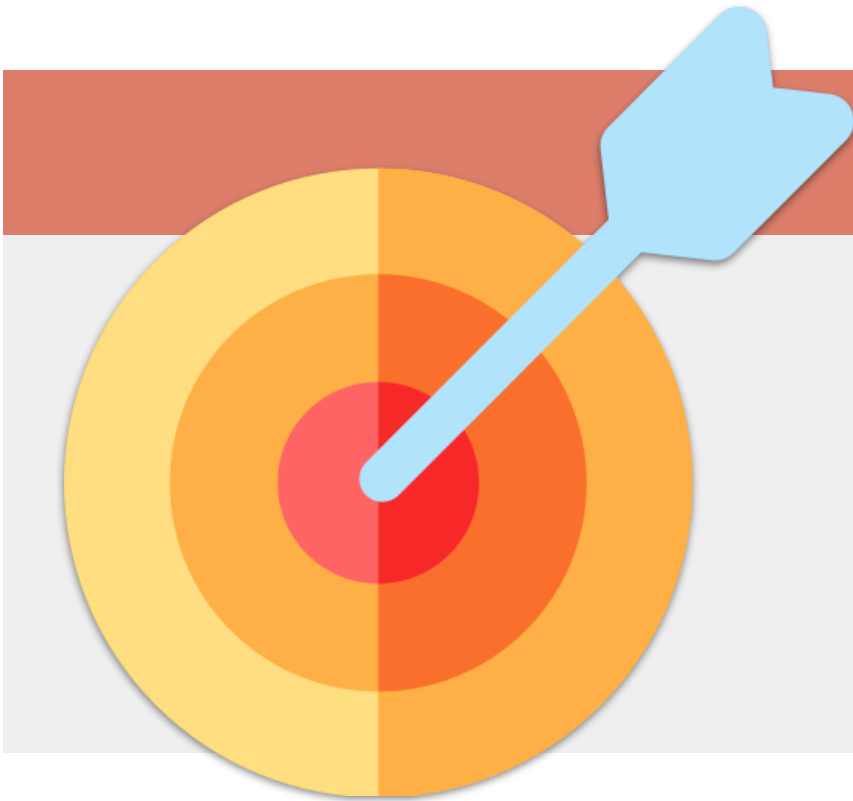
Member & User-Driven Development



Medium-Term Goals

- Feature Planning
- Community Engagement
- Implement standards
 - Rights Statement
 - Linked Open Data
 - DOIs

Member & User-Driven Development



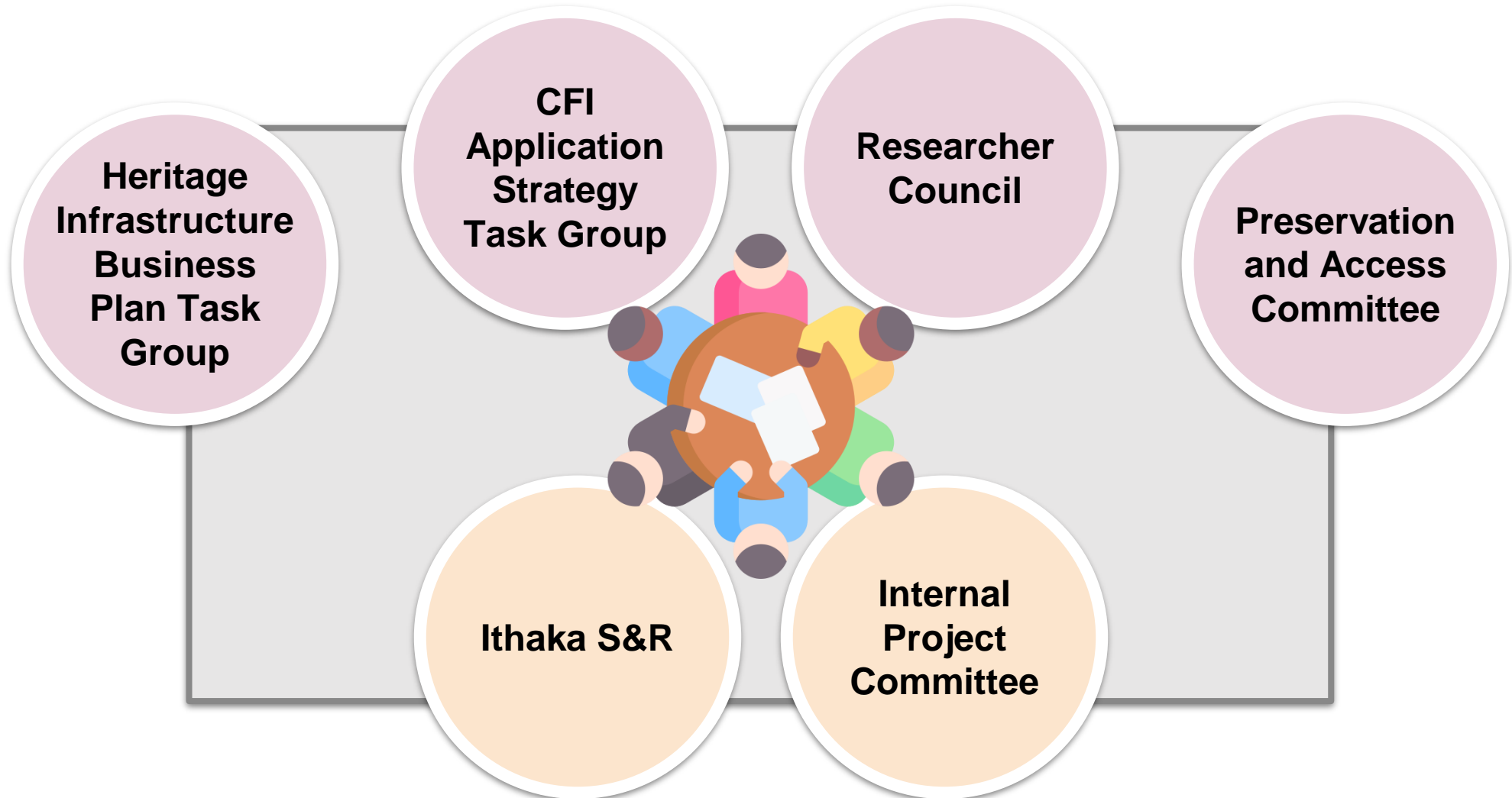
Long-Term Goals

- Reduced technological friction
- Improved national governance
- International collaboration

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Supporting the Transformation

Supporting the Transformation



CRKN's Researcher Council: Findings to Date

Speakers

Susan Brown, Co-Chair, Researcher Council and Professor and CRC in Collaborative Digital Scholarship, University of Guelph

Camille Callison, Co-Chair, Researcher Council and University Librarian, University of the Fraser Valley

Introduction to the CRKN Researcher Council



CRKN Researcher Council

In July 2022, the CRKN Board of Directors launched the CRKN Researcher Council, which includes 16 multidisciplinary researchers who are providing advice and input on the Digital Cultural and Heritage Collections of the Future project.

CRKN Researcher Council



Camille Callison

University of the Fraser Valley



Susan Brown

University of Guelph



Dan Brown

University of Waterloo



Rebecca Dickson

COPPUL



Jada Watson

University of Ottawa



Alyssa Arbuckle

University of Victoria



Camie Augustus

Vancouver Island University



Jennifer Bain

Dalhousie University



Sabeen bin Zayyad

University of Calgary



Colleen L. Renihan

Queen's University



Jeremy Heil

Queen's University



Dan Malleck

Brock University



Kim Martin

University of Guelph



Sheila Petty

University of Regina

Stacy Allison-Cassin

(Dalhousie University),

Maxime Gohier

(Université du Québec à Rimouski), and

Jane Griffith (Toronto Metropolitan University)

CRKN Researcher Council



How can the content in Canadiana be best used to advance the Canadian research field?

Project Vision

Mission



To build a comprehensive, collective digital library of Canadian cultural heritage content that provides a respectful and representative historical narrative and enables transformative research and equitable access to knowledge.



Vision

Accelerating Canadian research and innovation objectives at a system-wide level

Preserving Canada's heritage content for future generations

Ensuring state-of-the-art, researcher-driven access to heritage content

Integrating cultural heritage content into the research ecosystem

Building an equitable and inclusive future through understanding

Enabling transformative research

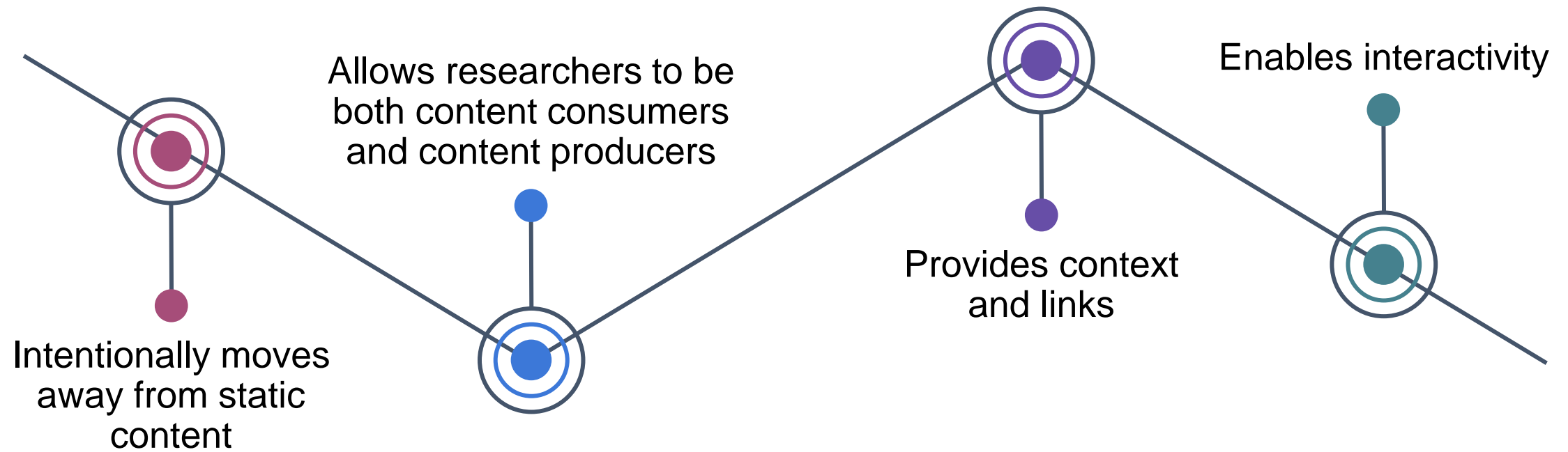
Increasing the resiliency of the Canadian GLAM sector

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Researcher Council Findings to Date

Exploring a Paradigm Shift

Envisioning an innovative research platform that:



Summary of Findings



Findability



Access



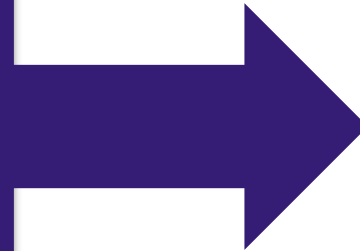
Searchability



Content



**Support services
& documentation**



**Equity, Diversity,
Access, and Inclusion**

**Truth and
Reconciliation**

Findability



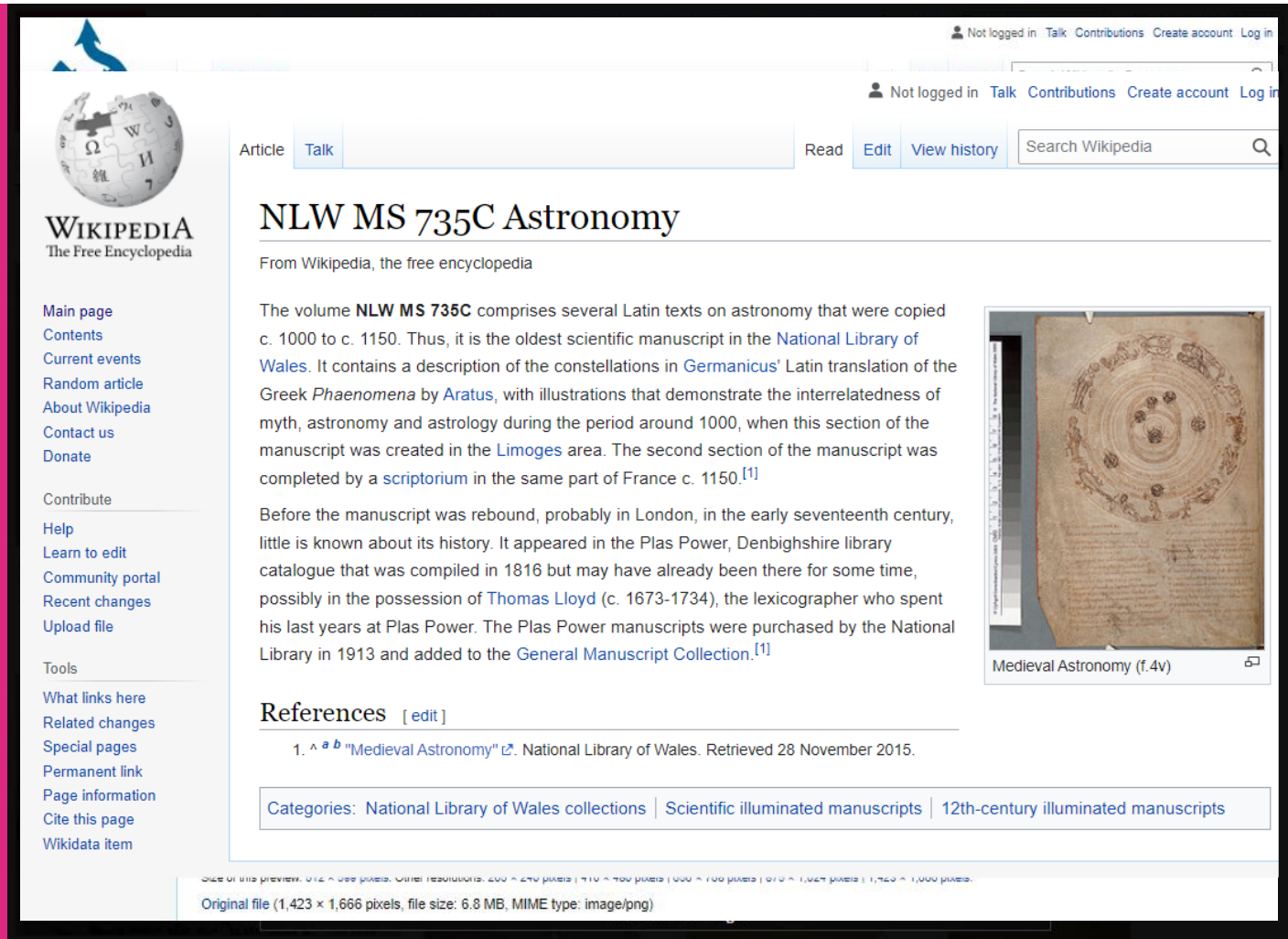
Making it easier to search for and find relevant content

- Improved search functionality and filtering
- Structured metadata to serve specialized and citizen researchers
- Capacity to replicate and automate searches via linked open data
- Interoperability between different databases and collections

Findability Example

Dwynwen

An example of how linked open data supports findability, Dwynwen is a search and display engine for visual artworks of the National Library of Wales.



The screenshot shows the Wikipedia page for "NLW MS 735C Astronomy". The page includes the Wikipedia logo, navigation links (Main page, Contents, Current events, Random article, About Wikipedia, Contact us, Donate), and a sidebar with tools (What links here, Related changes, Special pages, Permanent link, Page information, Cite this page, Wikidata item). The main content area features the article title, a sub-header "From Wikipedia, the free encyclopedia", and a paragraph describing the manuscript. A reference is provided at the bottom, linking to a medieval astronomy illustration from the National Library of Wales.

WIKIPEDIA
The Free Encyclopedia

Main page
Contents
Current events
Random article
About Wikipedia
Contact us
Donate

Contribute
Help
Learn to edit
Community portal
Recent changes
Upload file

Tools
What links here
Related changes
Special pages
Permanent link
Page information
Cite this page
Wikidata item

Article Talk

Read Edit View history

Search Wikipedia

NLW MS 735C Astronomy

From Wikipedia, the free encyclopedia

The volume **NLW MS 735C** comprises several Latin texts on astronomy that were copied c. 1000 to c. 1150. Thus, it is the oldest scientific manuscript in the [National Library of Wales](#). It contains a description of the constellations in [Germanicus'](#) Latin translation of the Greek *Phaenomena* by [Aratus](#), with illustrations that demonstrate the interrelatedness of myth, astronomy and astrology during the period around 1000, when this section of the manuscript was created in the [Limoges](#) area. The second section of the manuscript was completed by a [scriptorium](#) in the same part of France c. 1150.^[1]

Before the manuscript was rebound, probably in London, in the early seventeenth century, little is known about its history. It appeared in the Plas Power, Denbighshire library catalogue that was compiled in 1816 but may have already been there for some time, possibly in the possession of [Thomas Lloyd](#) (c. 1673-1734), the lexicographer who spent his last years at Plas Power. The Plas Power manuscripts were purchased by the National Library in 1913 and added to the [General Manuscript Collection](#).^[1]

References

[edit]

1. ^a ^b "Medieval Astronomy" [↗](#). National Library of Wales. Retrieved 28 November 2015.

Categories: [National Library of Wales collections](#) | [Scientific illuminated manuscripts](#) | [12th-century illuminated manuscripts](#)

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Access



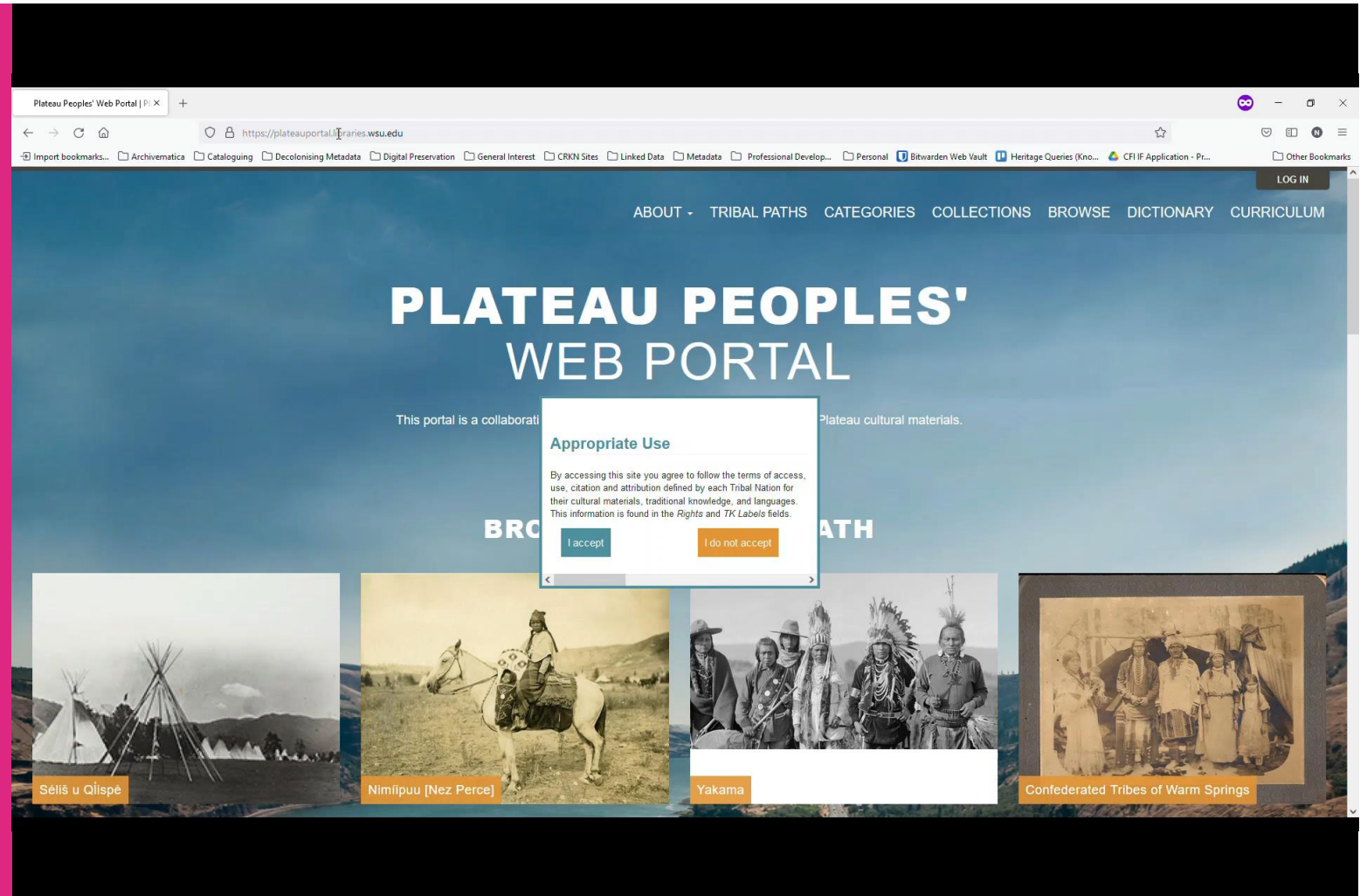
Breaking down barriers to making content widely accessible

- Enhancing access to community materials for Indigenous (First Nations, Métis and Inuit) peoples
- Prioritizing access for residential school survivors
- Welcoming diverse groups of researchers
- Ensuring inclusive design principles
- Multilingual infrastructure
- API access to metadata and content

Access Example

Plateau Peoples' Web Portal

Using Mukurtu CMS as the platform for the Portal allows tribes to determine culturally appropriate access to their cultural heritage and knowledge.



Searchability



Improving the search experience

- Improving the functionality of searching within an item
- Allowing users to understand the quality of the text recognition of each item
- Maintaining the ability to flip from page to page

Searchability Example

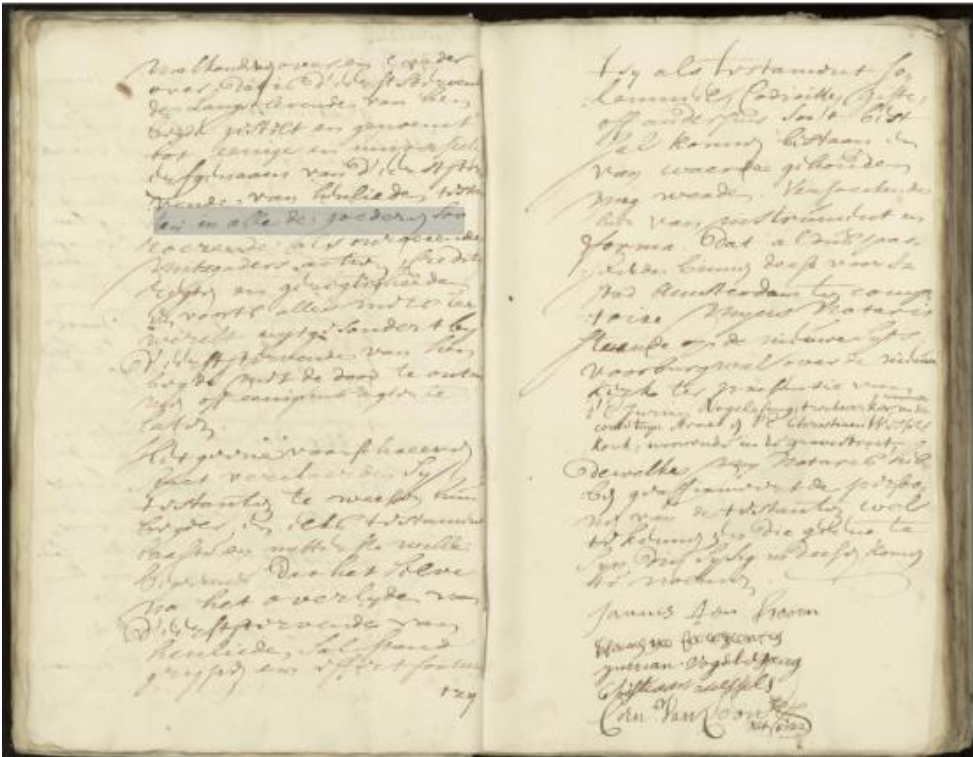
Amsterdam City Archives

Using Transkribus
Handwritten Text
Recognition (HTR), allows
for searching within
hundreds of thousands of
documents inside the
Amsterdam Notarial
Archives.

× Gemeente
× Amsterdam
× Stadsarchief Browse Search

Home • Browse • 7002_NOT100710

⌂ + ⌕ ⌕ ⌕ ⌕



ten in alle de goederen soo

malkanderen over en weder
over dat is d'eerststervende
de Langstlevende van hen
beyde gestelt en genoemd
tot eenige en universele
erfgenaam van d'eerstster-
vende van henlieden testan
roerende als onroerende
Crediten
mitsgaders actien
regten en gerechtigheeden
en voorts alles niets ter
werelt uytgesondert by
d'eerststervende van hen
beyde met de dood te ontruy-
men off eenigsins agter te
laten.
Het geene voorschreeven
staet verclaerden sy
testanten te weesen hun
beyder en elks testament
laaste en uytterste wille

Content



Making important content and its contextual information available

- Inclusion of robust contextual information with each item
- Consistent access to government records
- Researcher-produced digitized content
- Preserving fragile and at-risk material
- Audiovisual content
- Content relating to land claims while also respecting Indigenous data sovereignty
- Completeness of content

Content Example

Early Caribbean Digital Archive

Plantation slavery and settler colonialism are defining aspects of the early Caribbean. The ECDA works to decolonize the archive using digital tools to remix and recontextualize the archive.

The Interesting Narrative of Olaudah Equiano (1793): A Scholarly Introduction

By: Max Dodge-Harkins

Works Cited

Carretta, Vincent. *Supplementary Bibliography*

- Carretta, Vincent. Aravamudan, Srinivas. "Equiano Lite." *Eighteenth-Century Studies* 34, no. 4 (2001): 615-619.
- African." *Slavery*. Carey, Brycchan. "Olaudah Equiano: An Illustrated Biography." *Brycchan Carey*. Accessed June 15, 2016. <http://www.brycchancarey.com/equiano/index.htm>.
- Fisch, Audrey. *The* Press, 2007. Chiles, Katy. *Transformable Race: Surprising Metamorphoses in the Literature of Early America*. Oxford: Oxford University Press, 2014.
- Davidson, Cathy. Dillon, Elizabeth Maddock. "A Sea of Texts: The Atlantic World, Spatial Mapping, and Equiano's Narrative." In *Religion, Space, and the Atlantic World*, edited by John Corrigan, 22-54. Columbia, SC: University of South Carolina Press, 2017.
- Kelleter, Frank. "Lovejoy, Paul E. "Autobiography and Memory: Gustavus Vassa, alias Olaudah Equiano, the African." *Slavery and Abolition: A Journal of Slave and Post-Slave Studies* 27, no. 3 (2006): 317-47.
- Little, Kenneth. Potkay, Adam. "History, Oratory, and God in Equiano's Interesting Narrative." *Eighteenth-Century Studies* 34, no. 4 (2001): 601-614.
- Samuels, Wilfred. Sweet, James H. "Mistaken Identities? Olaudah Equiano, Domingos Álvares, and the Methodological Challenges of Studying the African Diaspora." *The American Historical Review* 114, no. 2 (2009): 279-306.

Support Services & Documentation



Empowering and supporting users

- Sophisticated training for large scale datamining, filtration, and analysis
- Accessible search guides and finding aids
- Clear documentation of search functionality and metadata
- Identification of resources relating to Indigenous peoples on a national level
- Open metadata models and schemas for users to add their own content

Support Services & Documentation Example

Indigitization Project

The Indigitization Toolkit is a collection of resources to support and guide digitization projects in Indigenous communities.



Language Revitalization

[New Audio Recordings with Zoom Recorders](#)

Indigenous Language Apps (coming soon)

Transcription and Translation of Language Content (coming soon)

Researcher Council Member Lightning Presentations



Lightning Sessions

<i>Policy, medicine, and historical sources: Confronting strengths, weaknesses, opportunities, and “threats” of digital sources</i>	Dan Malleck
<i>Nouvelle-France numérique : une expérience de partenariat global dans la recherche sur le patrimoine documentaire et la gestion des données</i>	Maxime Gohier
<i>Open Social Scholarship and the INKE Partnership</i>	Alyssa Arbuckle
<i>Connecting Research to Cultural Content Online: The Linked Infrastructure for Networked Cultural Scholarship</i>	Susan Brown



Questions For Consideration (bit.ly/CRKN_Nov2)

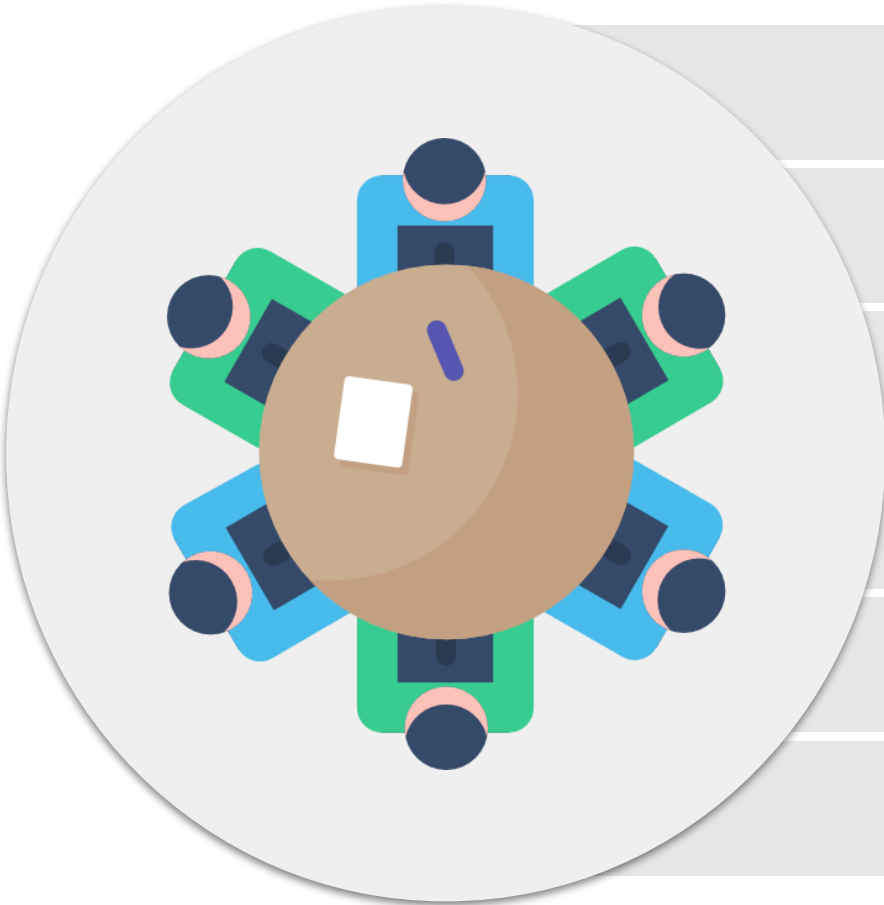
- Does this envisioned future align with your goals?
- What other projects/platforms should CRKN draw inspiration from?
- Are there any national examples of initiatives that have equity, diversity, inclusion and accessibility (EDIA) and Indigenous (First Nations, Métis, and Inuit) cultural sensitivities woven into the project from the beginning?
- What are your recommendations for building this initiative in a way that centres Truth and Reconciliation and that respects Indigenous (First Nations, Métis, and Inuit) cultural sensitivities?
- What initiatives are happening at the institutional and regional level and how would these initiatives support or enhance existing access and preservation programs/infrastructures?
- Are there other themes that should be considered/explored as part of this initiative?

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Break

Future of CRKN's Heritage Program

Future of CRKN's Heritage Program



Vision and
scope
CRKN's role in digital heritage

Research potential

Institutional needs

Supporting the project

Short, medium, long term vision

Future of CRKN's Heritage Program

Path 1

Status Quo: Mainly
Maintenance

Maintain current
infrastructure

Path 2

Community Open
Infrastructure

Work with
members to
expand current
infrastructure

Path 3

Transformational
Open Research
Infrastructure

Partner with
members and
researchers on
research,
innovation

Future of CRKN's Heritage Program

Requires significant funding and resourcing (e.g. CFI Innovation Fund)

- Opportunities to think big with regards to how we provide access to and preservation of heritage and cultural content
- Inspired by examples of transformation & leading by example

Path 3

Transformational
Open Research
Infrastructure

Partner with
members and
researchers on
research,
innovation

Digital Cultural and Heritage Collections of the Future: Enabling Innovative Access and Expanding Research - Part 1

Questions For Consideration (bit.ly/CRKN_Nov2)

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Integrating Innovation & Defining Value

What is the distinct value that CRKN currently delivers to members through Canadiana? How might that value evolve in 5 years?

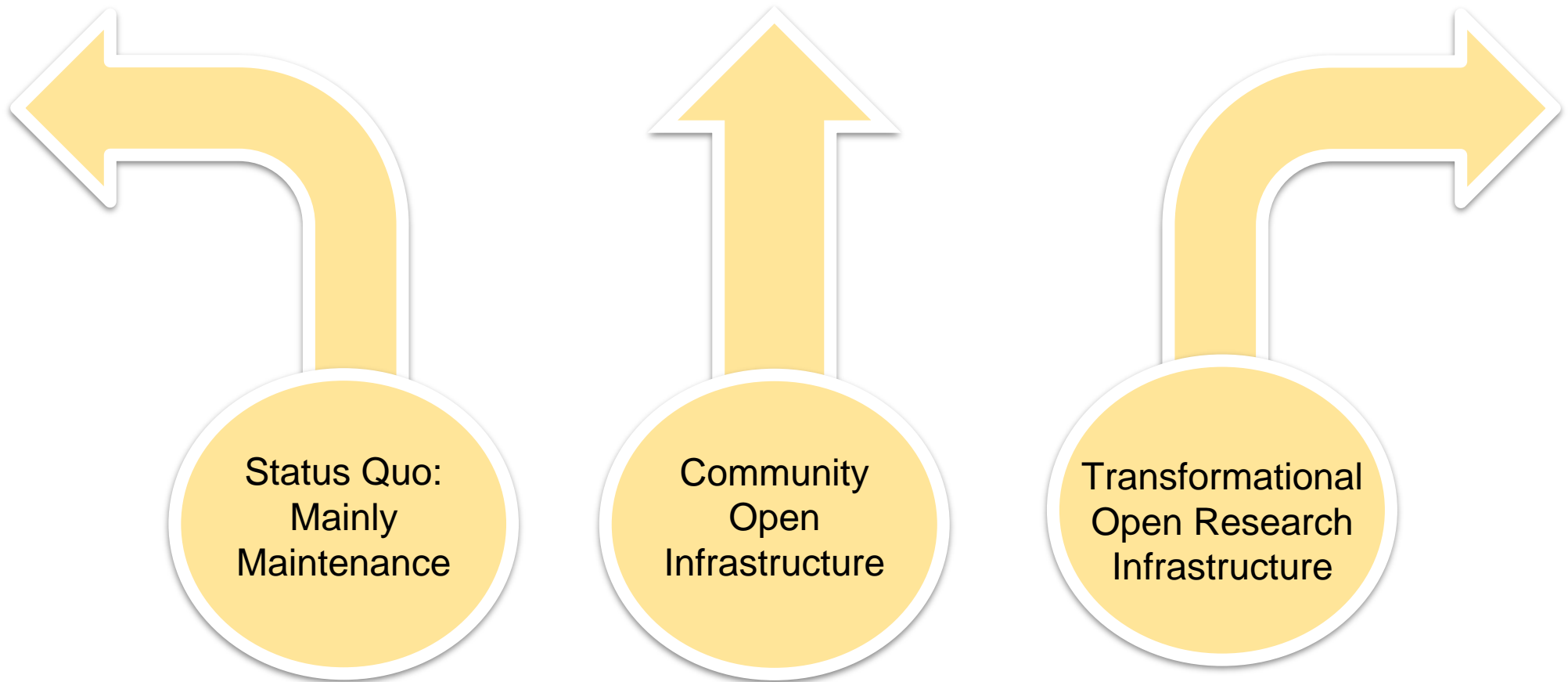
What kind of innovation in national cultural and heritage infrastructure is needed to enable transformative research and what is CRKN's role in enabling it?

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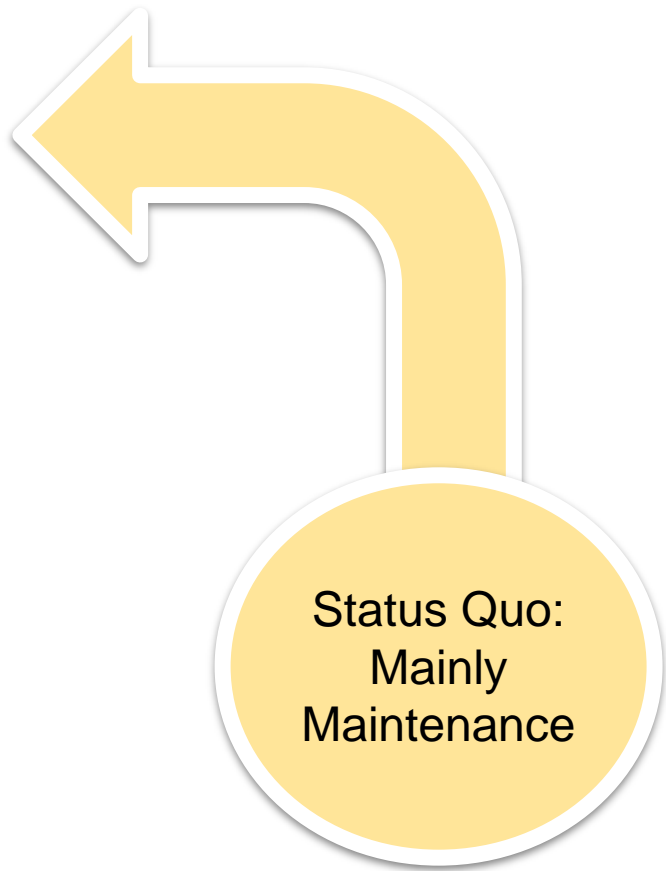
Lunch

Digital Cultural and Heritage Collections of the Future: Enabling Innovative Access and Expanding Research - Part 2

Today: Three Paths towards the Future



Status Quo: Mainly Maintenance



Continue supporting Canadiana
in its current state

- basic development to maintain platform
- limited capacity for new content
- maintain member commitment to support Canadiana

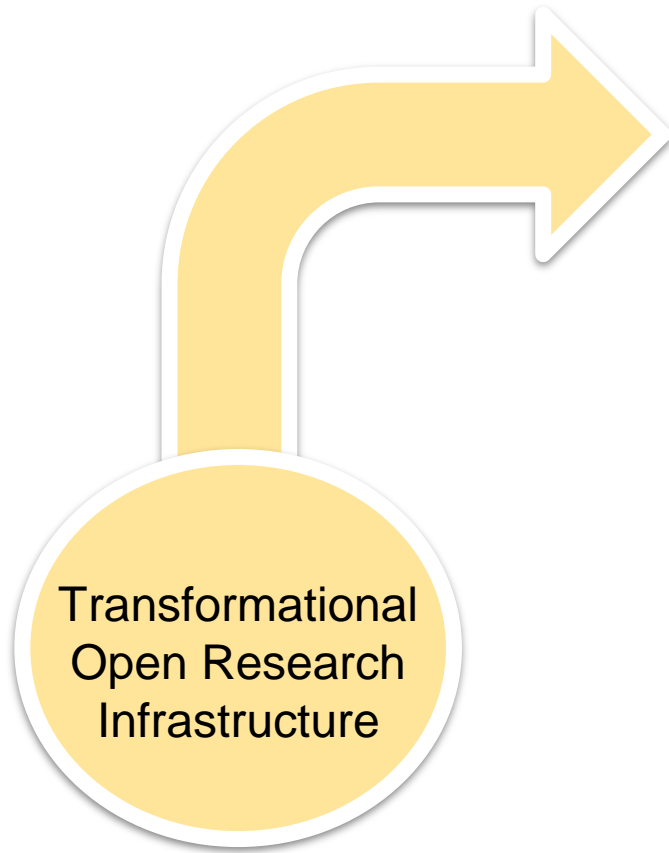
Community Open Infrastructure

Canadiana becomes
community-driven infrastructure

- intentional collection development with member content
- new content formats
- significant technological development
- extend member commitment to support Canadiana
- diversified portfolio for funding sustainability



Transformational Open Research Infrastructure



Enhanced version of the Community Open Infrastructure approach for CFI IF

- mobilize content as research data
- leverage member connections
- extend and increase member commitment
- resource additional capacity in CRKN team
- diversified funding portfolio plus CFI IF



What Are We Collectively Building?

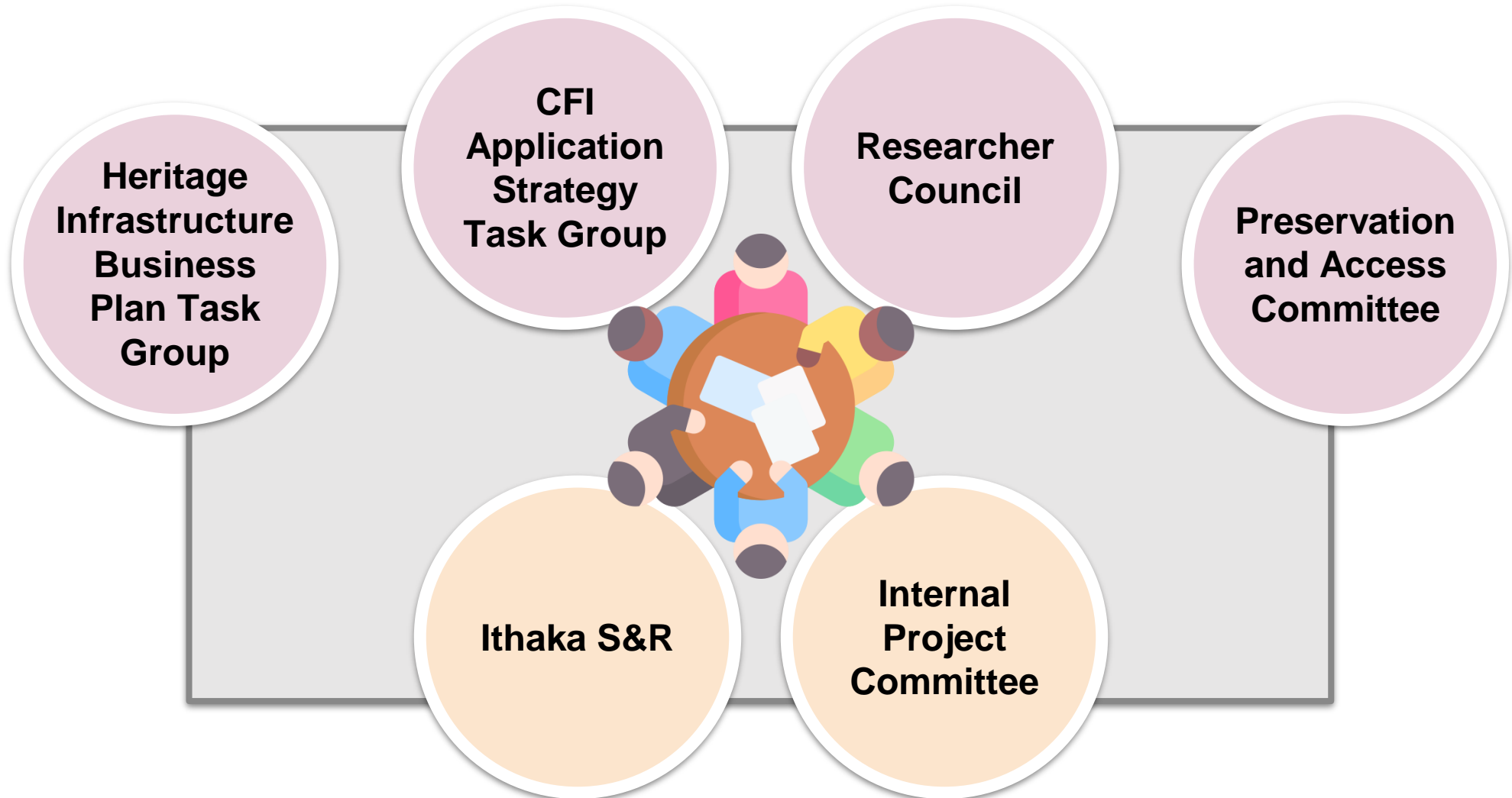
What are some of the ways that your institution could support the development *and* resourcing of this future? E.g. in-kind support, expertise, connections to researchers from your University, technology, co-development of tools, content, CFI envelope.

Where should we, as a member community, devote our collective energy and resources?

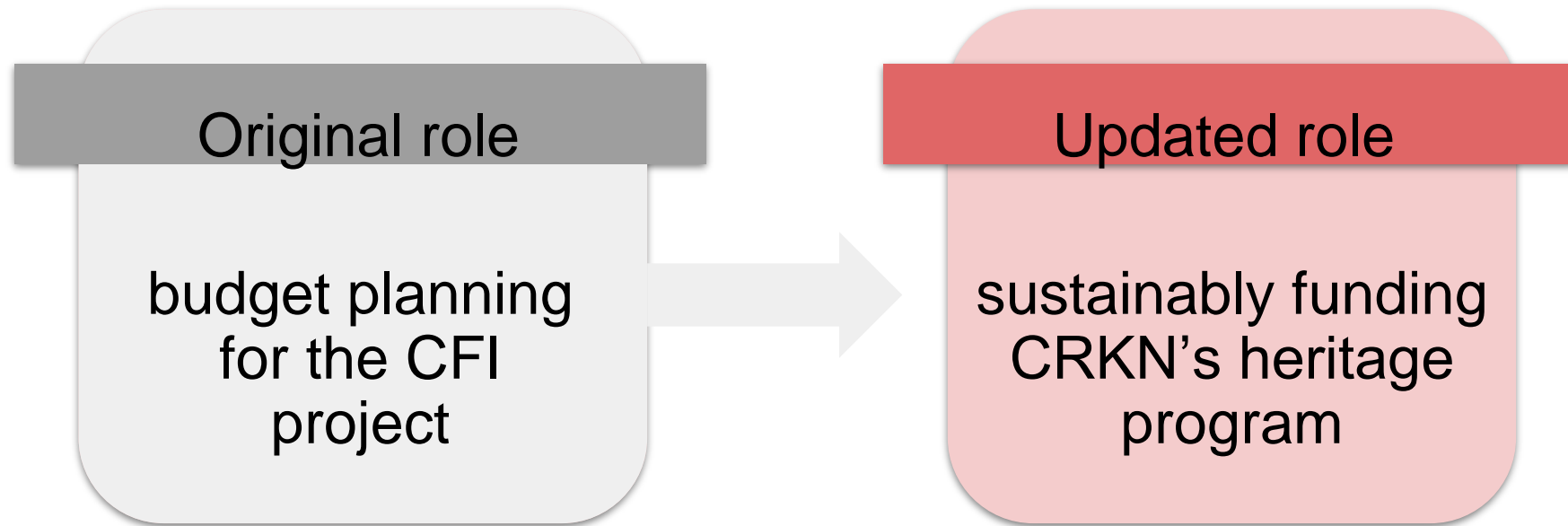
- Towards maintaining the status quo?
- Towards transitioning Canadiana to open scholarly infrastructure?
- Towards partnering with members and researchers on research and innovation through the creation of transformational open research infrastructure?

Sustainability and Resourcing

Future of Canadiana Project Governance



Heritage Infrastructure Business Planning Task Group



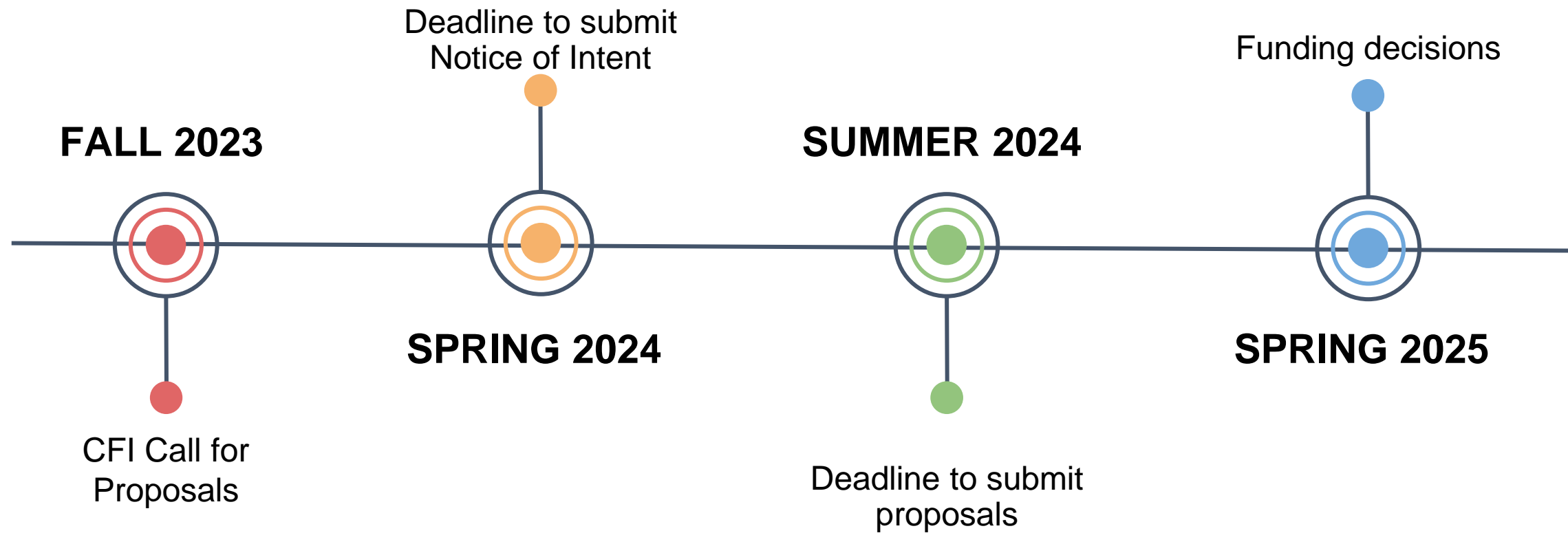
Prospective Administrative Host Institution



uOttawa

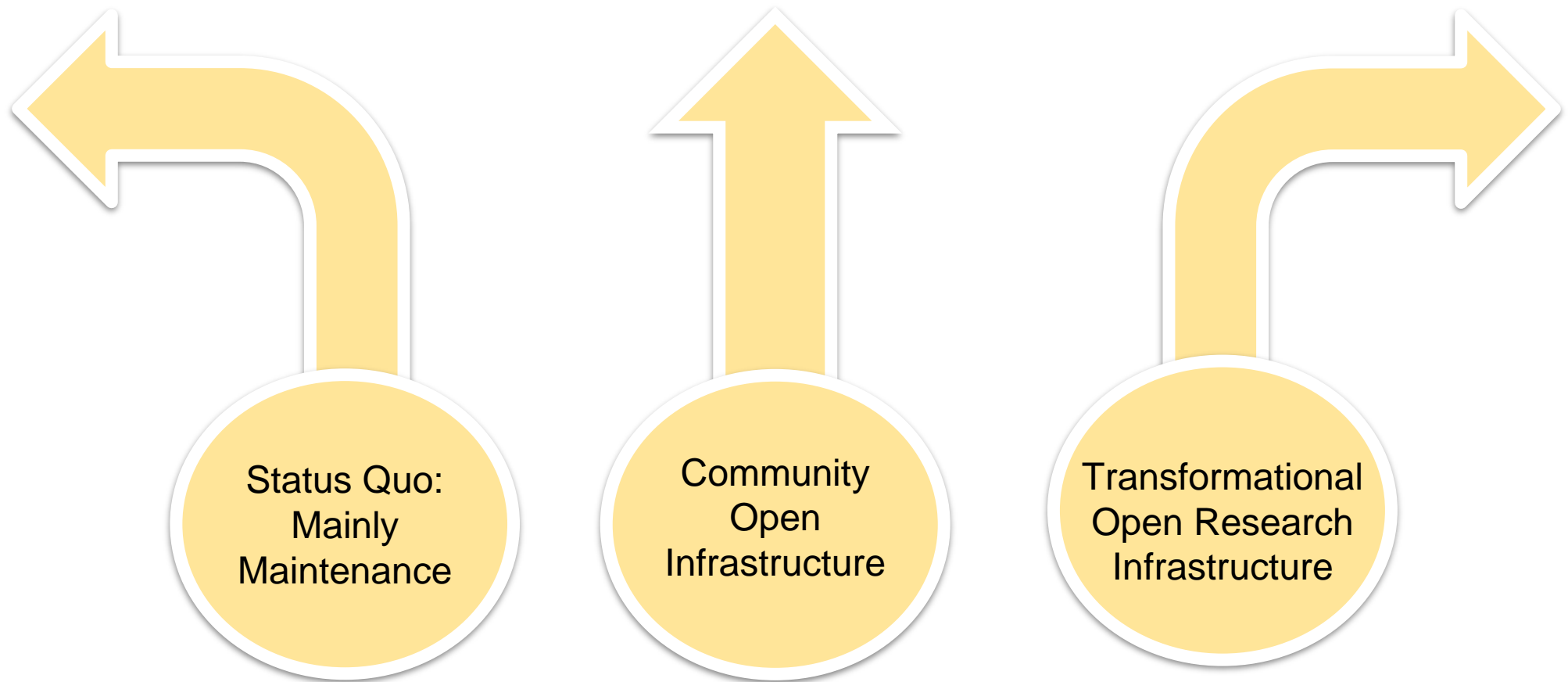
Builds on past partnerships between uOttawa and CRKN, including CRKN's two previous successful CFI applications in 2000 and 2004, with uOttawa acting as host organization.

CFI Innovation Fund - Draft Timelines*



** As the next Innovation Fund call has not yet been issued, these are based on the timeline of the 2023 Innovation Fund Call*

Gut Check: Where are we going?



Engagement

What can we provide to enable our collective path forward?



Full project vision and description



1-pager about CRKN and the project



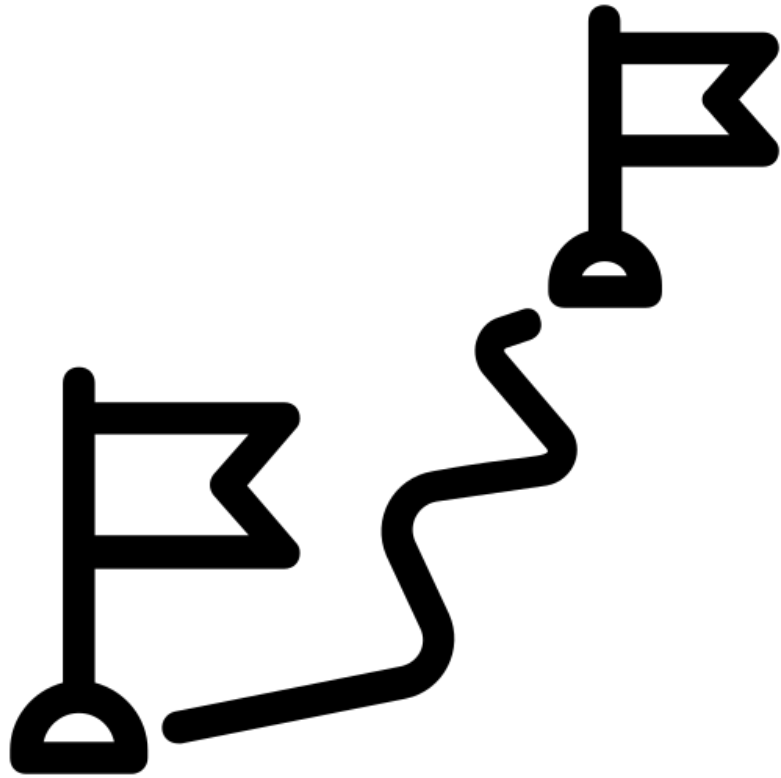
Project webpage



Slide deck with project information

What would you, as UL/decision maker for your institution, need to get support and secure funding for this project?

What We Need from Members



- Commitment on path to move forward together
- Connect with researchers at your institution
- Connect with librarians, archivists, and infrastructure support providers at your institution
- Input on transformational research potential
- Outreach to your VP Research

Next Steps



Commitment to collectively drive this project together



Continue these conversations with:

- Project governance groups
- Potential partners
- CRKN Members



Introduce project to:

- Your institution
- Researcher community

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Wrap up

Strength in Community



Voting Cards



Reminder for voting members to collect their voting cards at registration desk