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IASSIST & CARTO 2018
Once Upon a Data Point: Sustaining our Data Storytellers

Where does Canada's Social Science Research Data Live?

Peter Webster, Saint Mary's University, IASSIST May 2018
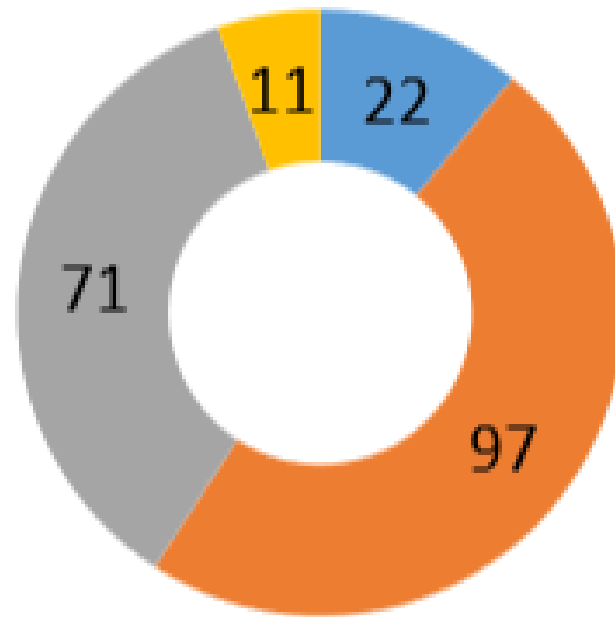
Canadian Research Data Repository Inventory

❑ In 2016 **Saint Mary's University** worked with **Scholars Portal Ontario**, the **National Research Council of Canada** and **Re3data.org**, to update and coordination Canadian repository listings in **Re3data.org**.

❑ re3data.org is the most well developed international directory of data repositories. This work provided consistent naming, standardized subjects and metadata. **Re3data** also consistently determined the national origin of each listed repository.

❑ This work provides a better picture of Canadian data repositories, and the beginnings of a good inventory. However, **more work is needed**!

Subject distribution of Canadian repositories in Re3data.org

❖ Humanities and Social Sciences **22**

- Including **15** tagged with the subject heading Social Sciences.

❖ Life Sciences **97**

- Including repositories related to Biology, Medicine, Zoology

❖ Natural Sciences **71**

- Including repositories in Chemistry, Physics, Mathematics, Geology, Geography, Ocean and Atmospheric sciences

❖ Engineering Sciences **11**
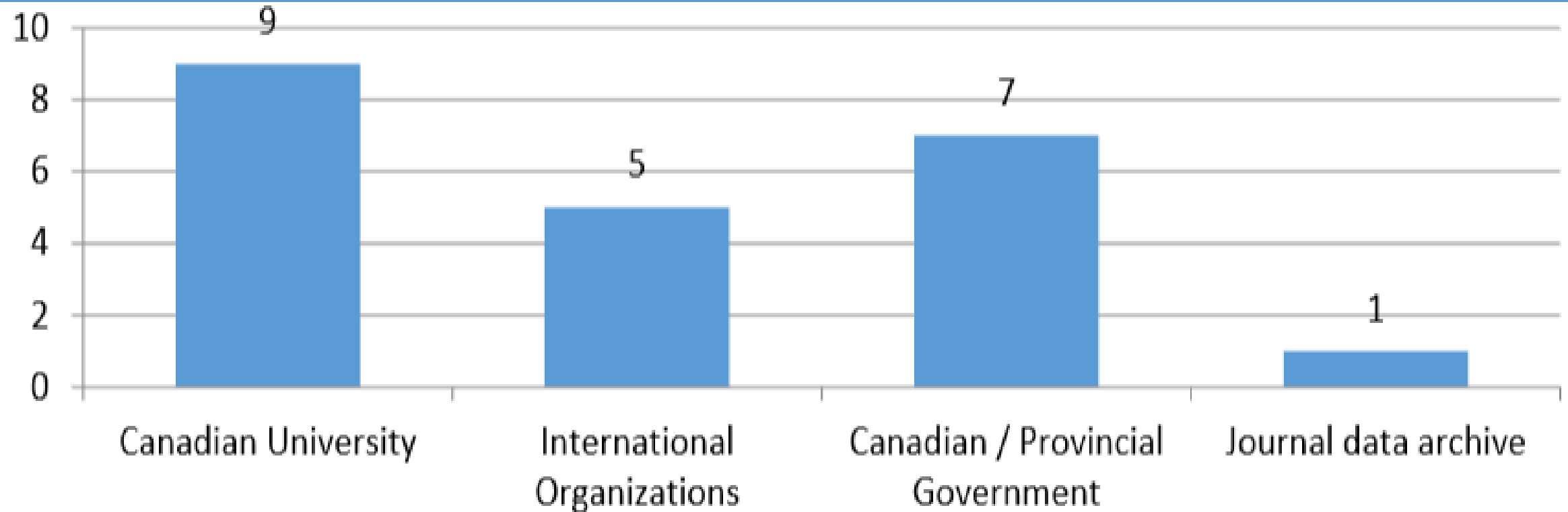
- Including areas of Computing and Engineering.

Canadian Data Repositories in Re3data by Subject
Humanities/Social Sciences account for 15%

Legend:
- Social Sciences Humanities
- Life Sciences
- Natural Sciences
- Engineering Sciences

22, 97, 71, 11

Canadian Social Science related Data Repositories by Institution type

Inconsistencies need to be addressed.

o **Re3data** lists both multi-source "data services" & single project repositories.

o So, both **CORA Public Opinion Archive** and **ODESI** data service ,which hosts **CORA,** are listed in **Re3data.org**. Both **Canadian Open Government Portal** and individual repositories, like **CanSim,** are listed.

o However, Dataverses like **Scholars Portal (Ontario)** and **BC Abacus** contain many data projects. Many, like The **Canada Health Infoway,** do not have independent **Re3data** entries. On the other hand the **(SAGE) Dataverse**, is listed in **Re3data.org**, while the **U. of Alberta Dataverse** which hosts it not listed.

o Portage now has a task-group too address such inconsistancies.

Other important Sources for Canadian Research Data.

❑ **Portage Federated Research Data Repository (FRDR).** Discovers 34 Canadian repositories. 24 of these do not yet have entries in **Re3data.org.**

❑ **Inter-university Consortium for Political and Social Research (ICPSR).** Over 170 studies with Canadian data. Data is harvested from **Statistics Canada**, many international sources.

❑ **FAIRsharing.org** international directory lists **52 Canadian science data repositories**. Only 25 of these are listed in **Re3data.org**.

Other important Sources for Canadian Research Data.

☐ **Harvard Dataverse** provides access to 9 Canadian related Dataverses, over 5600 related datasets. These include **Statistics Canada** harvested data files, and the e **Canadian Election Studies Dataverse**(University of Essex).

☐ **Mendeley Data** lists over 80,000 data tables, in over 700 data sets, which reference the keywords "Canada" or "Canadian", harvested from many other sources including **ICPSR** and **Harvard Dataverse**.
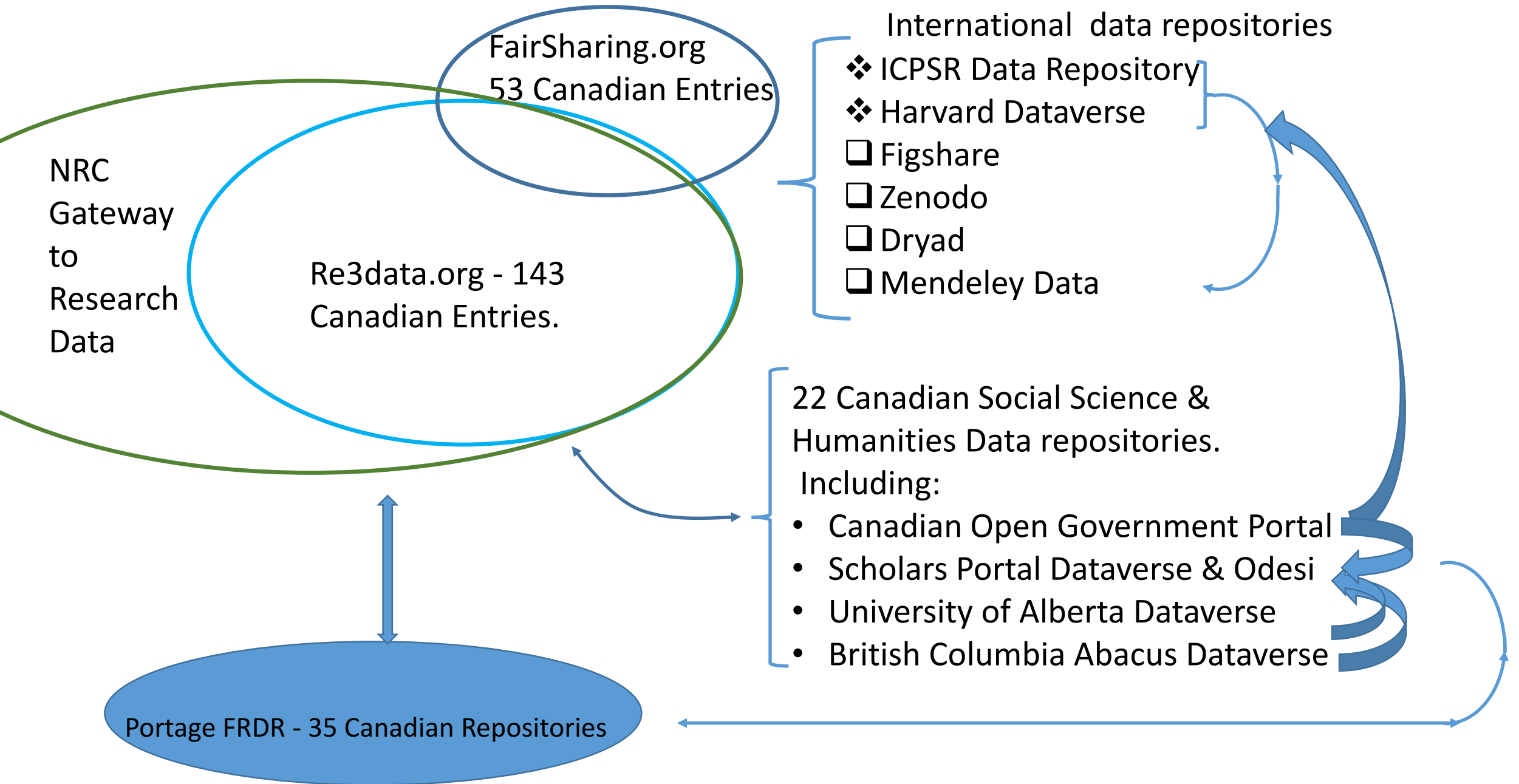
Other important Sources for Canadian Research Data.

General chart and data repositories.

- **Figshare** contains over 600 "Canada" or "Canadian" related datasets .

- **Dryad and Zenodo** contain hundreds of Canada related data files, primarily focused on science materials.

The Interconnection & overlap between data repositories is complex

FairSharing.org
53 Canadian Entries

International data repositories
- ❖ ICPSR Data Repository
- ❖ Harvard Dataverse
- ❏ Figshare
- ❏ Zenodo
- ❏ Dryad
- ❏ Mendeley Data

NRC Gateway to Research Data

Re3data.org - 143 Canadian Entries.

22 Canadian Social Science & Humanities Data repositories.
 Including:
- Canadian Open Government Portal
- Scholars Portal Dataverse & Odesi
- University of Alberta Dataverse
- British Columbia Abacus Dataverse

Portage FRDR - 35 Canadian Repositories

Publishers Data Deposit Recommendations related to Social Sciences

❖ **Elsevier** recommend **ICPSR**, the Dutch repository **4TU.Datacentrum**, the **Australian National Data Service (ANDS)**, **Harvard Dataverse**, **Mendeley Data**

❖ **Springer Nature** recommends **OpenICPSR**, **Harvard Dataverse, UK Data Service- ReShare**, & **Open Science Framework,**

Publishers Data Deposit Recommendations related to Social Sciences

⋮ **Taylor and Francis** recommends consulting **Re3data.org** and **FAIRsharing**. They also recommend repositories including **Dryad, Figshare Zenodo**, **Mendeley Data, Harvard Dataverse, 4TU.Datacentrum**, **ANDS**, and **Open Science Framework.**

⋮ **Wiley** and **Sage** both partner with the **Figshare data repository**, Although Wiley also recommends that authors consult **Re3data.org** and **Fairsharing**

In Conclusion

- Tools are now available to maintain a complete inventory record of Canadian data resources.

- More work is needed to consolidate Canadian listing in **Re3data.org, Fairsharing**, **Portage FRDR**, and other sources.

- Duplicate access between services like Portage FRDR, Scholars Portal ODESI, ICPSS and Mendeley Data can be valuable, but needs to be reviewed.

- A good inventory is the first step, as we work with all data repositories to improve functionality, integration and standardization.

Questions or Comments

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