RDC DRC
Research Data Canada – Données de recherche Canada

2020 National Data Services Framework Summit

February 5-6, Brookstreet Hotel, Kanata

Agenda

> Day 1

- Welcome and Goals
- Keynote – NDRIO/ISED Armchair Update
- Update on the Kanata Declaration and Feedback
- *Sessions and Breakout 1*: Requirements for Designating a National Data Service
- *Sessions and Breakout 2*: Examples of NDSs
- Day 1 Wrap-Up & Welcome Reception

> Day 2

- Keynote: It Takes More than a Village
- *Breakout 3*: Priorities and Next Steps
- Wrap-Up

Shared Notes

http://bit.ly/ndsf2020

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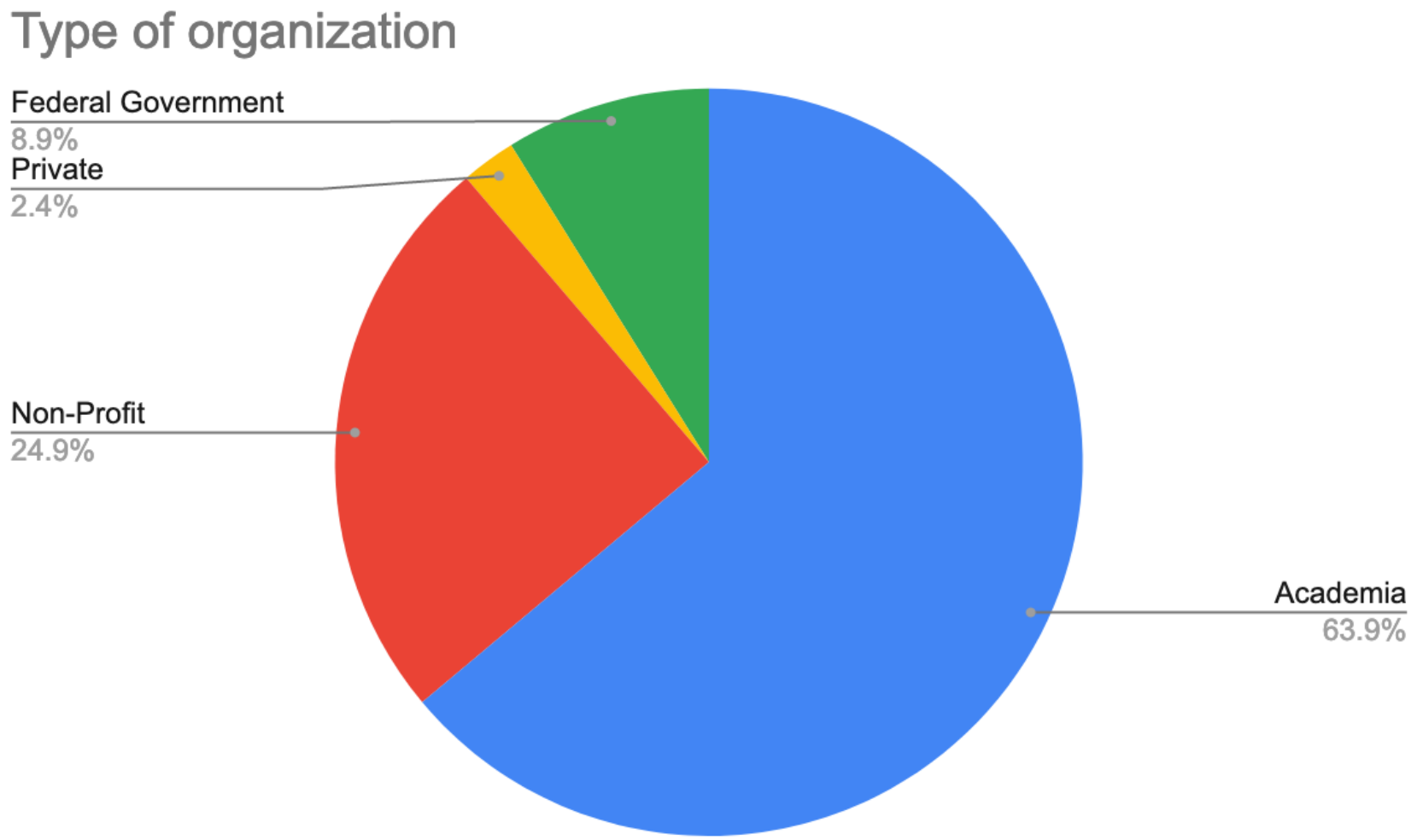
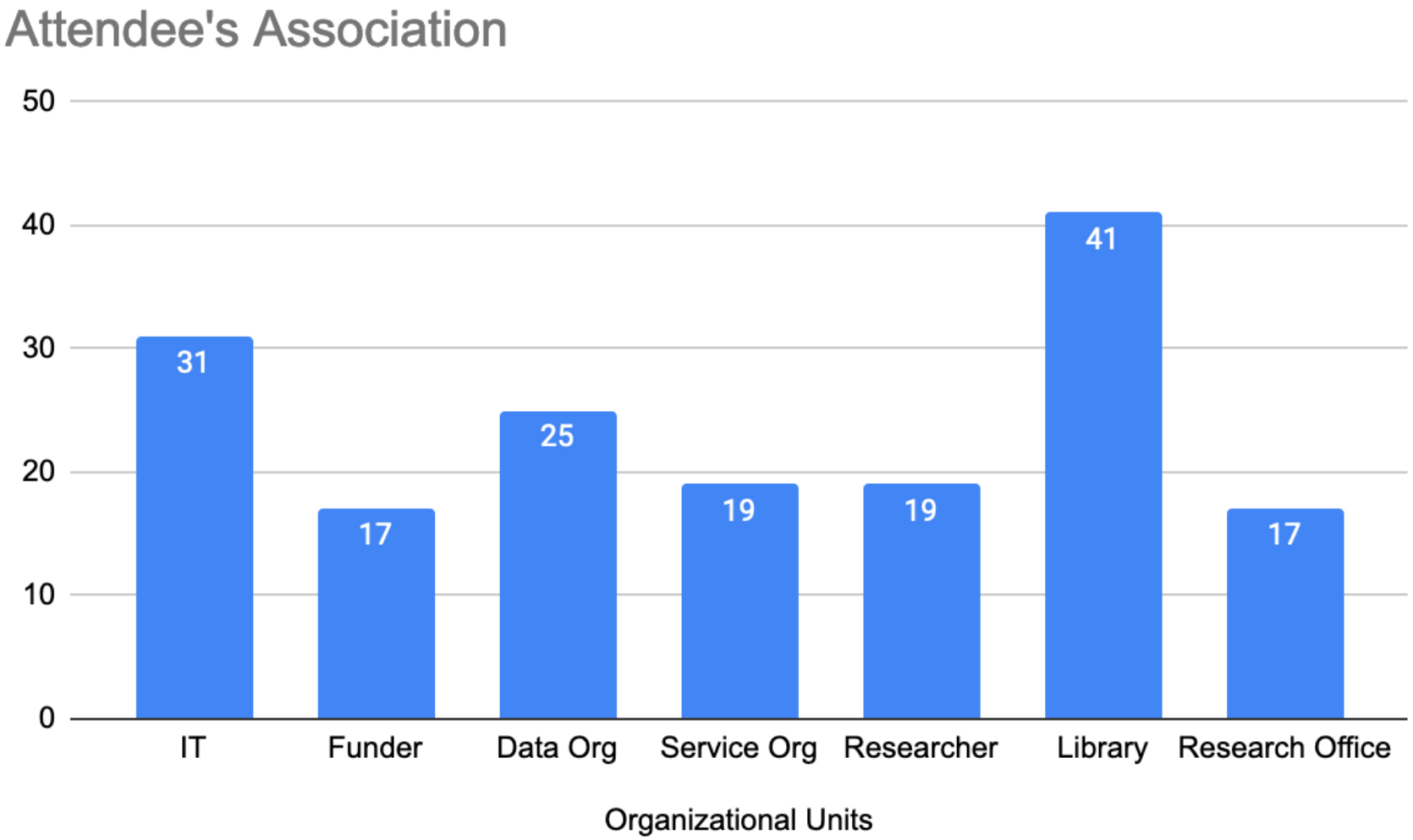
Welcome & Goals

Dr. David Castle | University of Victoria, RDC Steering Committee
Mark Leggott | RDC

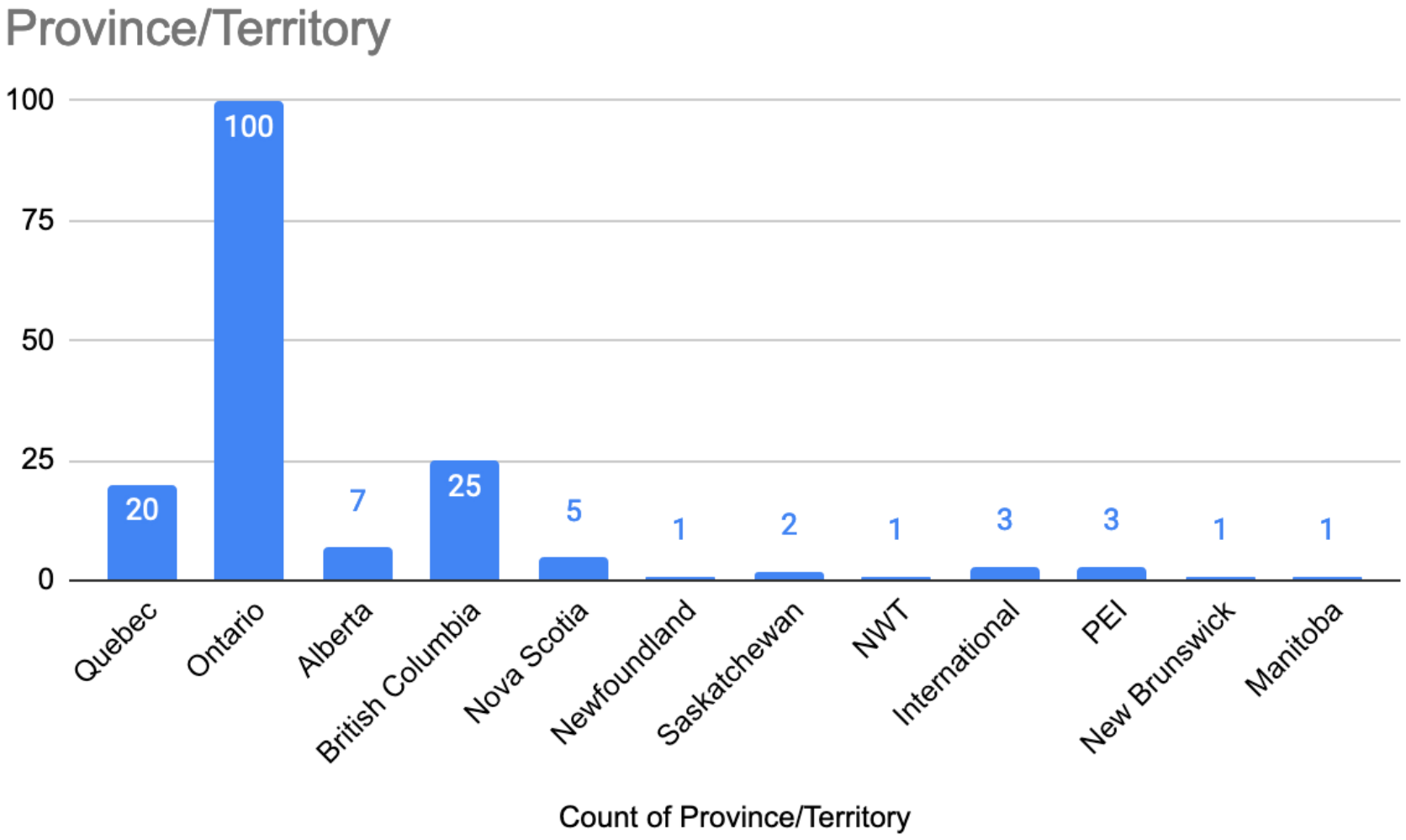
Who Are We?


Type of organization
Federal Government
8.9%
Private
2.4%
Non-Profit
24.9%
Academia
63.9%

What Do We Do?


Attendee's Association
50
40
30
20
10
0
31
17
25
19
19
41
17
IT
Funder
Data Org
Service Org
Researcher
Library
Research Office
Organizational Units

Where Are We?


Province/Territory
100
75
50
25
0
20
100
7
25
5
1
2
1
3
3
1
1
Quebec
Ontario
Alberta
British Columbia
Nova Scotia
Newfoundland
Saskatchewan
NWT
International
PEI
New Brunswick
Manitoba
Count of Province/Territory

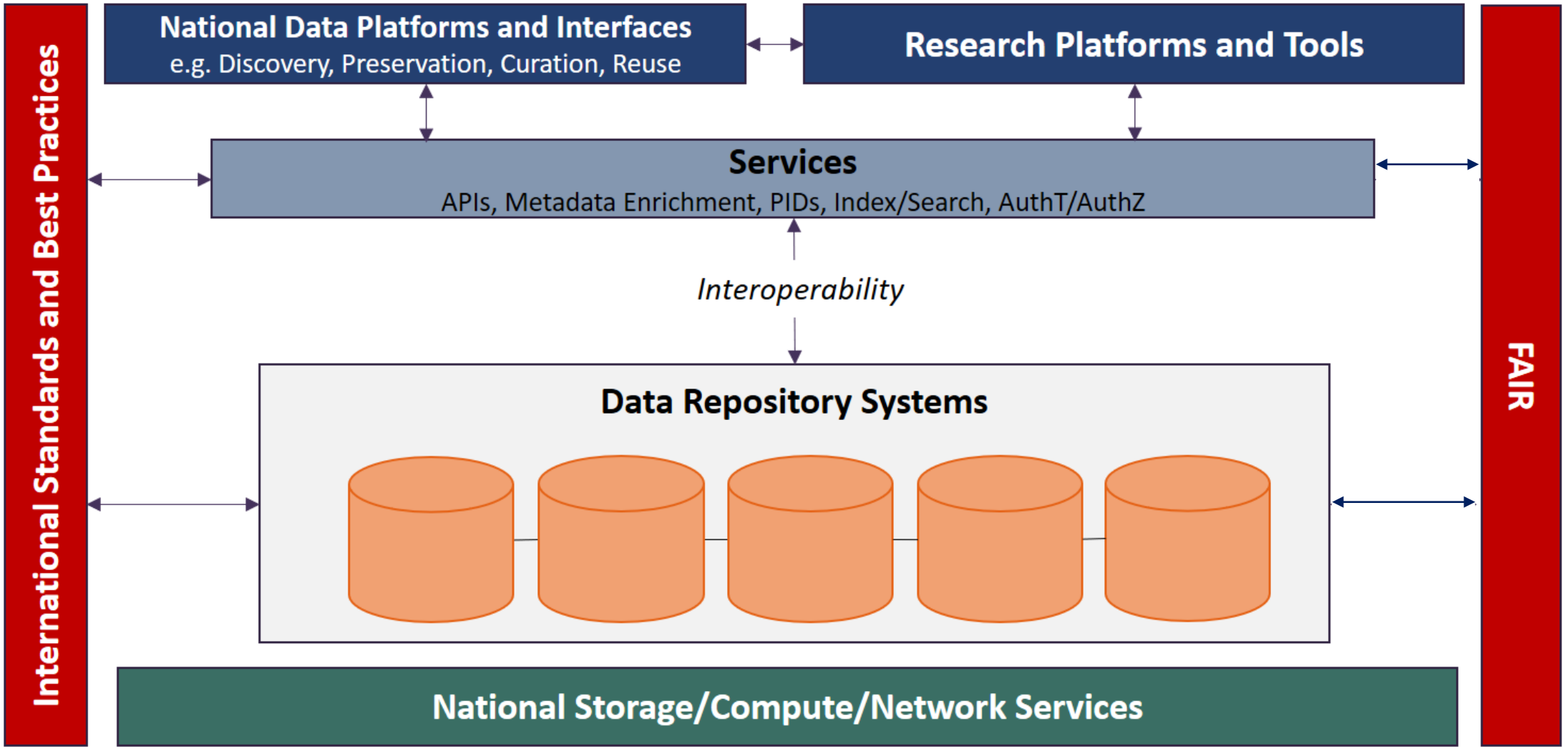
NDS/NDSF Definitions

> National Data Services

- *A service that provides one or more data-related functions to applicable stakeholders and disciplines in a specific national context.*

> National Data Services Framework

- *a conversation with all stakeholders at all levels;*
- *agreement on best-practices, standards and protocols;*
- *a suite of interoperable services and resources.*


International Standards and Best Practices
National Data Platforms and Interfaces
e.g. Discovery, Preservation, Curation, Reuse
Research Platforms and Tools
Services
APIs, Metadata Enrichment, PIDs, Index/Search, AuthT/AuthZ
Interoperability
Data Repository Systems
National Storage/Compute/Network Services
FAIR

2020 Summit Goals & Outcomes

- Consensus on what minimal requirements define an NDS;
- Consensus on what works best at the institutional, provincial, regional, national, and international levels;
- Consensus on existing Canadian NDSs, both machine and human services, that provide either models for, or operational examples of NDSs;
- Consensus on key gaps not articulated in either the Research Data Management Roadmap or Kanata Declaration;
- Consensus on priorities going forward.

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Keynote

Update and Discussion on the New Digital Research Infrastructure Organization (NDRIO)

Lori MacMullen | NDRIO / CUCCIO
Sinead Tuite | Innovation, Science and Economic Development (ISED)

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The Kanata Declaration:
Creation and Evolution

Mark Leggott | RDC

2019 Kanata Declaration

- 1st Kanata Declaration produced as an output from the 2019 NDSF Summit
- 18 Statements: **Recognize, Highlight, Resolve, Commit, Call**
- Statement 1 provides an overarching foundation for all efforts:

> ***Recognize*** *that the researcher is the focal point for this conversation and their needs are central to the design and delivery of services and resources; that creative, researcher-centric engagement, with adequate supports for participation, enriches the open science community.*

Actions Stemming from the Declaration: I

> ***Highlight*** *some of the key gaps and opportunities identified from the 2019 National Data Services Framework discussion.*

- All 6 areas a focus of NDSF Summit 2020
- National Metadata Working Group
- CANARIE RDM Call 2
- Funding support for Portage Network
- Launch of RDM Best Practices Designation

Actions Stemming from the Declaration: 2

> ***Resolve*** *to move forward expeditiously to establish an integrated national DRI ecosystem that sustains, enhances, and advances Canada's capacity and impact in the global research and innovation community.*

- ISED, NDRIO Interim Team & stakeholders' leadership in creating new DRI organization

> ***Resolve*** *to ensure that Indigenous data and traditional knowledge are part of the conversation for RDM and DRI, via specific working groups, and are an integral part of all activities in the ecosystem.*

- Portage RDM Practices for Sensitive Data WG-Indigenous Data SG
- Portage Indigenous Research DMP Template
- RDA International Indigenous Data Sovereignty IG

Actions Stemming from the Declaration: 3

> ***Commit*** *to developing national supports and funding for RDM training in all domains, throughout the entire research life cycle, and across all components of the ecosystem.*

- Portage Training Expert Group
- National RDM Training Working Group
- SSHRC Research Data Management Capacity Building Initiative/Connection Grants

> ***Commit*** *to advancing open science through the establishment of a national data repository network defined by trusted certification of core repositories, and including a commitment to FAIR Principles, and long-term data stewardship.*

- Portage Data Repositories Expert Group
- World Data System-International Technology Office

Actions Stemming from the Declaration: 4

> ***Commit*** *to continuing to establish Canada as a leader internationally, working collaboratively with the international community, adopting best practices and standards where appropriate, in further development of the RDM ecosystem.*

- RDC + Stakeholder work with RDA, CODATA, GO FAIR, EOSC, Domain Organizations

> ***Call*** *together representatives from key stakeholder organizations and researchers to develop a high-level RDM Roadmap to help prioritize investment and development of DRI for research data management.*

- DM Roadmap distributed to ISED March 29

> ***Commit*** *to reporting back to the NDSF participants, and the broader stakeholder community on the developments of the strategy for the support for RDM in Canada.*

Kanata Declaration: 2020 Version

- Process defined to refine/enhance the 2019 Kanata Declaration
- Background info: DM Roadmap & DM Backgrounder
- Survey version of the Declaration
  - Solicits feedback on each of the 18 declarations
  - Solicits feedback on developments in communities of practice regarding intersections/updates for each statement
  - Allows document upload with any additional information
- Survey will remain open for additional comments until February 21
- **Feedback + 2020 Summit discussion will inform creation of 2020 Version**

Kanata Declaration: 2019 Feedback

- Include students, teachers, and citizen scientists as researchers along with professionals and academics
- Those of us in smaller institutions will need support and training to assist researchers locally
- Generic, cross-discipline services tend to leave a large gap between the service and the researcher
- Ensure strong intersections between DM efforts and VP Research office, including process researchers follow for grant applications
- Need a clear statement of support for qualitative, sensitive, confidential data

Kanata Declaration 2019 Feedback

- Need rules on the ethical use of public data
- Participation in international RDM events and working groups is imperative for interoperability and avoiding re-inventing the wheel
- Mention best practices for data licensing/policies/usage restrictions/ cybersecurity
- Ensure DataCite and other persistent identifier registries service providers are supported as core infrastructure
- Building networks with partner institutions is key to allow for RDM strategies that can deliver on interoperability and portals which harvest data

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Architecture, Access, and Interface

The Changing World of Human Genomic Data Sharing

Peter Goodhand | Global Alliance for Genomics and Health (GA4GH)

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Architecture, Access, and Interface

The Adaptive Immune Receptor Repertoire (AIRR) Data Commons: iReceptor and the AIRR Community

Brian Corrie | iReceptor

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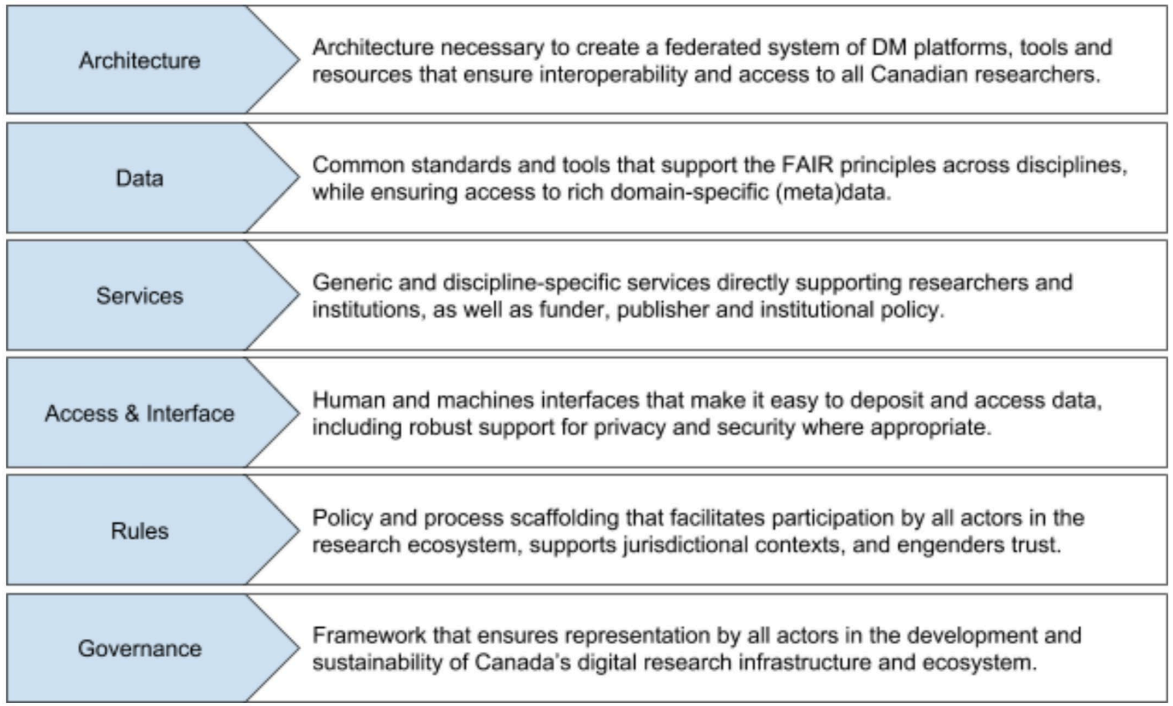
Breakout # 1:
Questions and Discussion re: Summit Deliverables

Breakout #1:
Requirements for Designating an NDS

Breakout #1 Instructions

> Using the 6-part model, list 6 requirements (1 for each of the 6 model components) you consider important for a service to be defined as an NDS and receive sustainable funding.



> Harvestable by national discovery

> Provides ISO 19115 record

> Supports TC3 DMP Pillar

> Support Active DMP Standard

> Access by any Canadian researcher

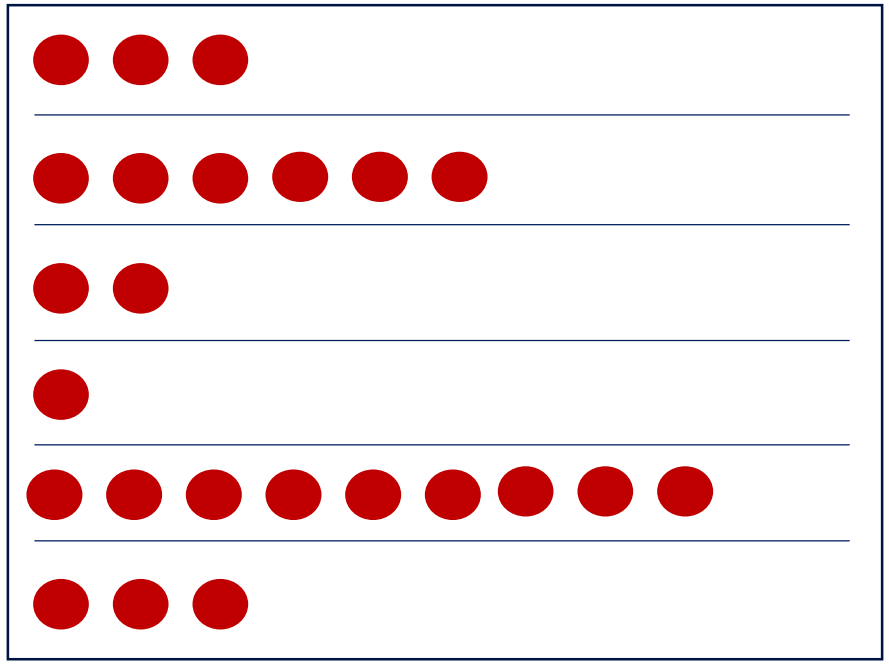
> Researchers influence roadmap

Breakout #1 Instructions

> Using the 6-part model, list 6 requirements (1 for each of the 6 model components) you consider important for a service to be defined as an NDS and receive sustainable funding.

Architecture	Architecture necessary to create a federated system of DM platforms, tools and resources that ensure interoperability and access to all Canadian researchers.
Data	Common standards and tools that support the FAIR principles across disciplines, while ensuring access to rich domain-specific (meta)data.
Services	Generic and discipline-specific services directly supporting researchers and institutions, as well as funder, publisher and institutional policy.
Access & Interface	Human and machines interfaces that make it easy to deposit and access data, including robust support for privacy and security where appropriate.
Rules	Policy and process scaffolding that facilitates participation by all actors in the research ecosystem, supports jurisdictional contexts, and engenders trust.
Governance	Framework that ensures representation by all actors in the development and sustainability of Canada's digital research infrastructure and ecosystem.

Consensus Building



Please place up to 5 stickers before noon, Thursday

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Breakout # 1:
Group Exercise / Reporting

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Data and Services
Scholar's Portal Activities Within the Canadian RDM Landscape

Meghan Goodchild | Queen's University, Scholar's Portal
Steve Marks | University of Toronto

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Data and Services

Portage Network: Update on Progress and Transition

Jeff Moon | Portage

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Breakout # 2:
Questions and Discussion re: Summit Deliverables

Breakout #2: Examples of NDSs

Breakout #2 Instructions

> Provide examples of existing, emerging, and desired services that you feel meet the requirements to be designated a National Data Service and indicate whether you feel they are best delivered/supported/funded at the institutional, provincial, regional, national, and/or international levels.

Description

> Name
> Type
> Source
> Community

Best Context for Delivery / Support / Funding

> Institutional / Provincial / Regional / National / International
> …
> …

Level of Highlighted Funding

> Funding: 100% / 75% / 50% / 25% / 0

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Breakout # 2:
Group Exercise / Reporting

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Day 1 Wrap-Up

Mark Leggott | RDC

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Keynote

It Takes More Than a Village: Lessons on Building Global Research Commons

Sarah Jones | EU Open Science Cloud / Digital Curation Centre

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Rules and Governance

Barcode of Life Data System and mBrave

Sujeevan Ratnasingham | University of Guelph

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Rules and Governance

Building Robust Governance for Digital Research Platforms

Martin Taylor | CRDCN

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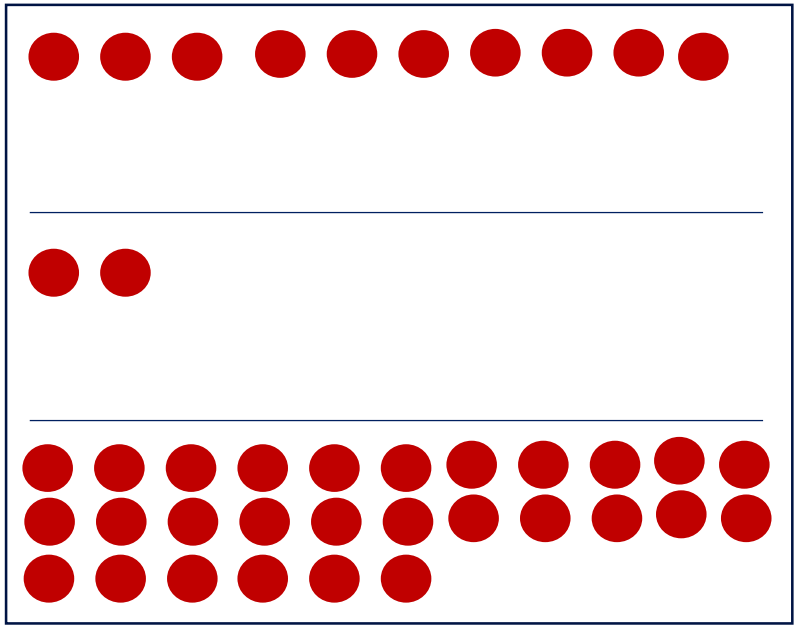
Breakout # 3:
Questions and Discussion re: Summit Deliverables

Instructions

- As NDRIO and the stakeholder community work together to develop complimentary strategies to support researchers with DRI, what would you highlight as the most important priorities moving forward?
- Priorities for the next 6 months
  - Priority 1: Consult with…
  - Priority 2: Provide funding for…
  - Priority 3: Write a report on…
- Priorities for the next 12 months
- Priorities for the next 2 years
- Priorities for the next 5 years



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Breakout # 3:
Group Exercise / Reporting

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Wrap-up and Next Steps

Mark Leggott | RDC

RDC Best Practices Designation (BPD)

- Designed to promote best practices in RDM in Canada
- Focused on institutional services/resources
- Lightweight submission and review process
- Launch coming shortly via RDC mailing list
  - Background Document
  - Submission form launching soon
- RDC BPD Working Group
  - Chantal Ripp (uOttawa), Donald Moses (UPEI), Jane Fry (Carleton University), Mark Leggott (RDC)

NDSF 2020 Summit WG

- Barton Satchwill (Cybera)
- Byron G. Spencer (CRDCN)
- David Castle (U of Victoria)
- Diane Sauvé (U of Montréal)
- Ela Yazdani (CANARIE)
- Eugene Barsky (UBC)
- Felicity Tayler (uOttawa)
- Jane Burpee (Centennial College)
- Jeff Moon (Portage Network)
- Karen Payne (WDS-ITO)
- Mark Leggott (RDC)
- Rebecca Ross (CRKN)

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rdc-drc.ca/esdnsondage