



CANARIE Mandate Renewal Proposal

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CANARIE Vision and Core Purpose

Vision:

Research, Collaboration, Innovation. Anytime.

Core Purpose:

Advancement of Canada's knowledge and innovation infrastructure.

- > All proposed mandate initiatives align to and support our vision and core purpose.

What is the **CANARIE** mandate renewal?

- > Cyclical funding ask to the Government of Canada to support the ongoing activities of CANARIE
- > Typically a five-year mandate period
- > Current mandate 2015 – 2020
- > Requesting funding for 2020 – 2025 mandate
 - In Year 4 of current mandate (budget decision in March 2019)
 - Will smooth cross-mandate activities and reduce need for contingency planning among community partners

What is involved in mandate renewal?

- > Community consultation on proposed mandate
- > Development of mandate plan based on feedback from consultation
- > Board approval of mandate proposal – June 2018
- > Submission of mandate proposal to Innovation, Science and Economic Development (ISED) Canada
- > Ongoing communications with community and government partners regarding mandate proposal

Elements of mandate proposal

- > CANARIE receives funding via a Contribution Agreement with the Government of Canada
- > The Contribution Agreement outlines the activities CANARIE may use funding for
- > Currently, these activities fall under three main headings:
 1. Network Operations
 2. Technology Innovation
 3. Private Sector Innovation
- > The following outlines CANARIE's proposed activities under each of these areas

Mandate Theme: Amplifying the impact of digital research infrastructure

Network Operations

- Deploy leading-edge network technologies to ensure the CANARIE network remains world-class
- Maximize partnership opportunities to support cost-effective network evolution to meet changing user needs
- **NEW: Ensure service continuity by strengthening security posture of the ecosystem**

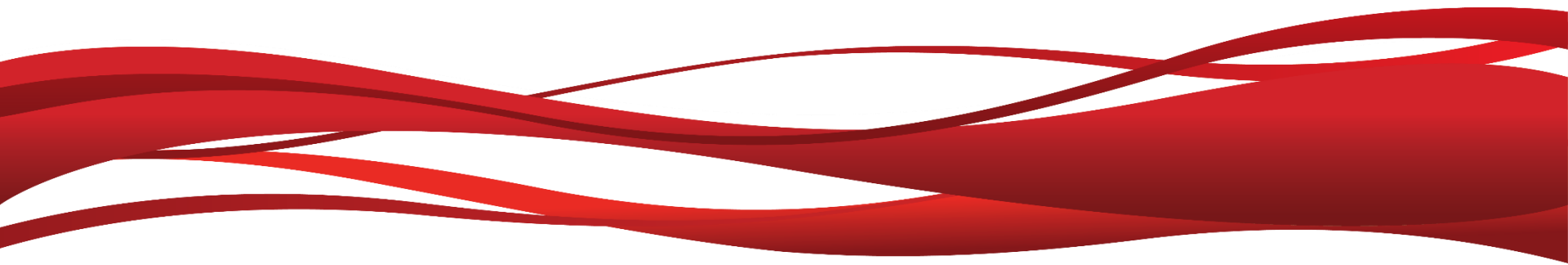
Technology Innovation

- Speed time to discovery by encouraging the reuse, adaptation and sustainability of research software tools
- Create community consensus on actions to address gaps in research data management by supporting Research Data Canada
- **NEW: Enable world leading research data management practices to catalyze discovery and innovation**

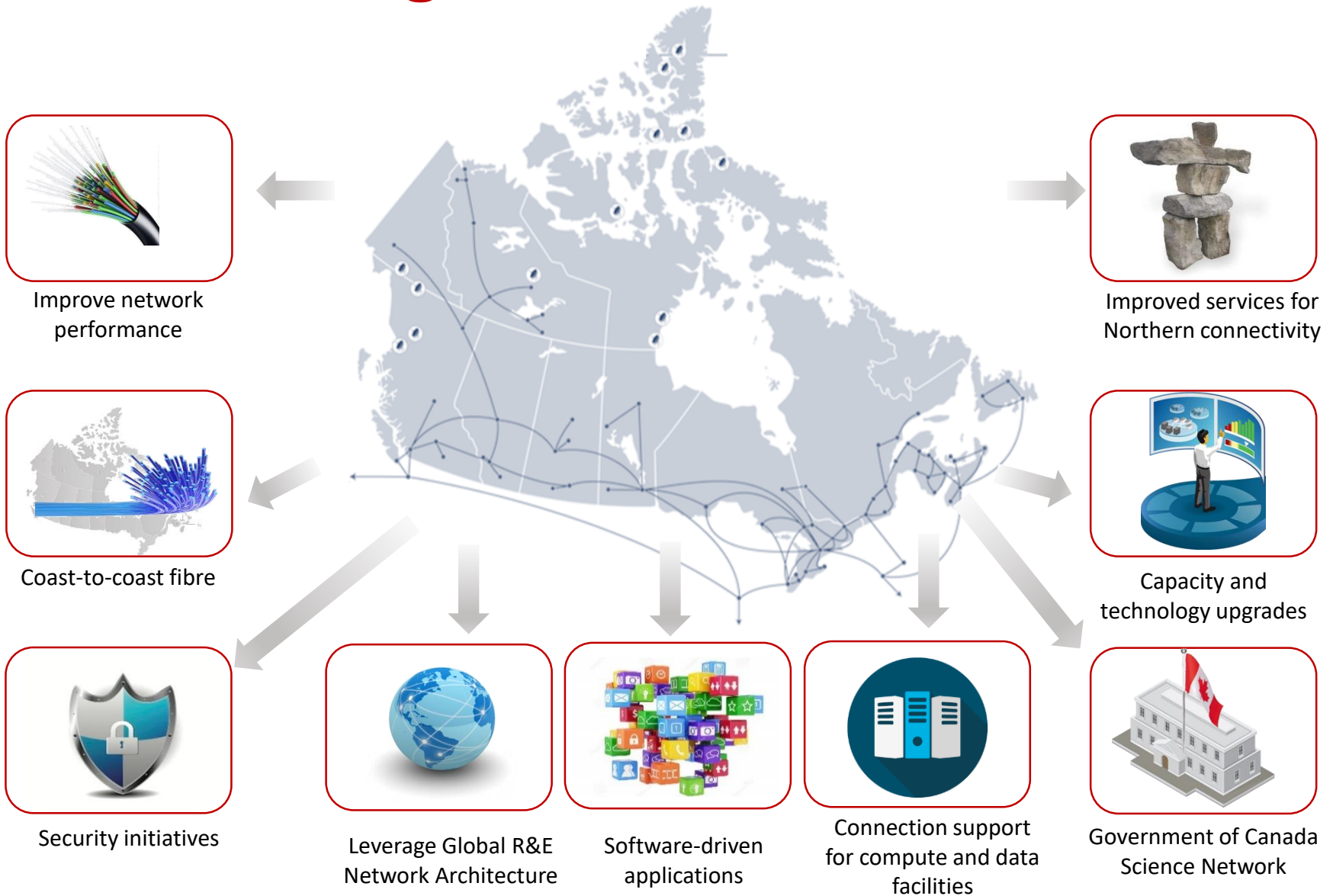
Private Sector Innovation

- **NEW: Support Canadian SME growth by enabling the rapid adoption of leading-edge technologies**
- **NEW: Enhance the ability of players in the innovation ecosystem to leverage digital research infrastructure (e.g. CENGN)**

Program Goals and Initiatives



Network Program



Cybersecurity Initiatives

Goals:

- > Work with partners to strengthen the security posture of the NREN
- > Maximize opportunities for collaboration
- > Improve national coordination of cybersecurity initiatives across stakeholder communities



Evolution/extension of Joint Security Project



Implementation of security initiatives with Canadian NREN partners



Explore opportunities to improve national coordination of cybersecurity initiatives



Engage with global NREN partners on common approaches to NREN security



Canadian Access Federation

Goals:

- > Support accelerated learning and knowledge creation
- > Ease institutional burden for delivering services to staff, students and faculty
- > Deliver benefits of national and international collaborations



Adapt infrastructure to support growing user base



Reduce implementation barriers and enhance accessibility to services



Collaborate with partners to increase utility of eduroam and FIM services

NREN Program

Goals:

- > Continue to execute priority projects in NREN Strategic Plan
- > Continue to strengthen NREN co-delivery model



Directed Investments



Competitive Process



Enables consistent evolution of the NREN



Supports:

- increased capacity, reliability, and upgrades to existing equipment and infrastructure
- network management tools and training
- extending the reach of provincial and territorial networks to more institutions

Research Software Program

Goals:

- > Support accelerated learning and knowledge creation
- > Ease institutional burden for delivering services to staff, students and faculty
- > Deliver benefits of national and international collaborations



Incent the development of local research software support teams



Support development of a Research Software Centre of Excellence



Launch funding calls as required to support software tool development



Host conferences to support community of research software developers

Research Data Canada

Goals:

- > Drive community consensus on required actions to address research data management ecosystem gaps
- > Promote adoption of national and international best practices



Strengthen capacity and impact of RDC operational committees



Align with international research data management organizations



Host community building events

Research Data Management (RDM) Program

Goal:

- > Develop world-leading data management practices supporting accelerated discovery and innovation



Launch funding programs for software components and tools



Collaborate with community partners to maximize the impact of funding



Facilitate community development through ongoing professional development workshops and conferences

DAIR Cloud Program

Goals:

- > Encourage rapid deployment of leading-edge technologies into new ICT products developed by SMEs
- > Enable innovative product development and experimentation by SMEs



Offer opportunities to rapidly learn and deploy leading-edge technologies



Leverage private sector investment in cloud infrastructure

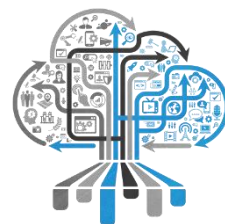


Launch initiatives to create a mutual support and learning ecosystem among DAIR users

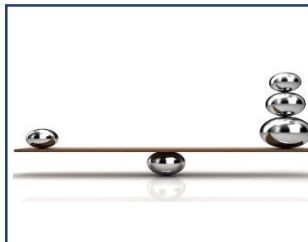
Network Testbed Support

Goal:

- > Contribute to the ecosystem that's working to accelerate the growth of Canada's ICT sector



Support existing and emerging testbed initiatives



Leverage DRI for the private sector and support connections to academic initiatives

Community Consultation

- > Engage community through series of in-person meetings and webinars to gather feedback on proposal elements
- > Incorporate community feedback into proposal and present community-endorsed proposal to Board at June 2018 meeting

Any questions?
Will you answer
ours?



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