CANARIE Mandate Renewal Proposal

Kathryn Anthonisen | BCNET Conference | April 23, 2018

Research,
Collaboration,
Innovation.

Anytime.

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Core Purpose

Advancement of Canada's Knowledge and Innovation Infrastructure

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?

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Canada

Mandate Proposal Elements

- 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 Initiatives

Network Program

Improve network performance

Improved services for Northern connectivity

Coast-to-coast fibre

Capacity and technology upgrades

Security initiatives

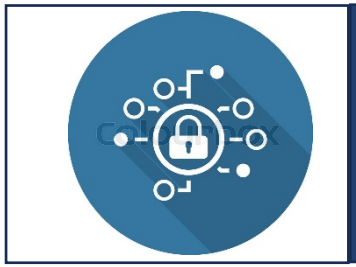
Leverage Global R&E Network Architecture

Software-driven applications

Connection support for compute and data facilities

Government of Canada Science Network

Cybersecurity Initiatives



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

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

Directed Investments

Competitive Process

Enable consistent evolution of the NREN

Support:

- 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

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

Strengthen capacity and impact of RDC operational committees

Align with international research data management organizations

Host community building events

Research Data Management (RDM) Program

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

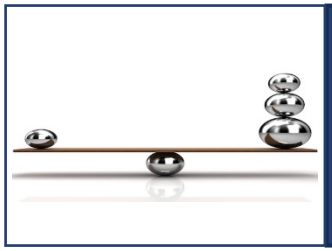
Offer opportunities to rapidly learn and deploy leading-edge technologies

Leverage private sector investment in cloud infrastructure

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

Network Testbed Support

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

time for questions

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