CANARIE Mandate Renewal Proposal
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CANARIE Vision and Core Purpose

Vision:

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

- Improve network performance
- Coast-to-coast fibre
- Security initiatives
- Leverage Global R&E Network Architecture
- Software-driven applications
- Connection support for compute and data facilities
- Improved services for Northern connectivity
- Capacity and technology upgrades
- Government of Canada Science Network
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
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?