# Catalyzing Sovereign Al Compute Infrastructure in Canada

March 2025



Digital Research Alliance of Canada Alliance de recherche numérique du Canada

# The Opportunity

Government Gouvernement of Canada du Canada

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#### Al Sovereign Compute Infrastructure Program

As a first step in the AI Sovereign Compute Infrastructure Program, the Government of Canada is inviting eligible proponents to submit non-binding Statements of Interest. Proposals should align with the program's objectives, ad the AI compute needs of Canadian researchers and a cross section of industrial research and development (R&D), encourage cross sector partnerships to drive technological advancement and innovation.

Following this phase, the Government of Canada will launch a full proposal phase which will further refine the prod requirements.

#### Eligibility

Eligible proponents include not-for-profit organizations, for-profit organizations, academic institutions, and consor



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# Who We Are



National Scope and Mandate



Member-Based



Non-Profit



Funded



Alliance de recherche numérique du Canada



### Our Role

#### National Coordination & Strategy

- Government of Canada mandate to coordinate, fund and integrate Canada's digital research infrastructure (DRI)
- Develop and execute DRI strategy that aligns to national priorities

#### Investment, Delivery & Governance

- Manage federal investments in compute, storage, research software and data management
- Deliver national-scale programs that support thousands of researchers
- Provide governance for efficient deployment of resources, ensuring impact, cost-effectiveness and broad accessibility

#### Equitable Access for Researchers

- Access model ensures that compute resources are accessible to all eligible Canadian researchers
- Fair and transparent resource allocation that supports a diverse range of research projects



#### Our Objectives

Understand ISED goals

Respond to the strong input from the research community

Embark on a community engagement process

Collaborate on a cohesive national vision



#### Our Core Principles

- Address lagging DRI investment
- Meet academic, government and industry research needs
- **Beyond AI:** HPC, wrap-around services and talent
- **Consolidate** scale-up compute
- Minimize Fragmentation: Our current model and funding cannot adequately support the future needs of researchers
- Align with global best practices
- Sustainable practices and technologies
- Collaboration across the country is critical

#### Future Vision for Canada's DRI 🔶





### Defining Sovereign Compute in Canada

- Ability to maintain full control of Canada's AI infrastructure, data and technological capabilities.
- Ensure AI development serves national interest without external dependencies or influence and follows the following guiding principles:





Robust legal framework and operational safeguards Reduced reliance on foreign entities controlling AI compute services  $\textcircled{\textcircled{}}$ 



Strengthened Canadian innovation ecosystem, prioritizing made-in-Canada solutions Canadian talent development



#### Catalyzing Sovereign & Secure Canadian AI Capabilities

Building on the Alliance's strong foundation of digital research infrastructure and services, we are committed to leverage **seed funding** to create world-class infrastructure by **unlocking public-private investments** to **position Canada as a global leader** in artificial intelligence.

This investment will not only support and protect Canadian research but accelerate the next generation of economic prosperity for Canada through scientific and industrial breakthroughs made here in Canada.

National Sovereign Compute Infrastructure	Canada's AI DRI Platform	National Data Platform
AI Compute Infrastructure Testbed & Marketplace	AI Data Centre Cluster – FDI Attraction Strategy	Global Leadership through Collaboration



# Building Blocks of Sovereign and Secure Canadian AI Capabilities



Explore Opportunities to Attract Private Cloud and Data Centres to Canada

#### Towards an Interoperable Canadian Data Ecosystem



### Developing and Growing our Workforce



Labour Market Inventory and Advocacy for New Job Classifications New job classifications will emerge from the growth of Canada's AI and DRI sector. We aspire to document and support a national labour market assessment to promote the industry and fill critical skills gaps.



**Training Programs through Collaboration** We aspire to work with our AI Institutes and academic institutions to develop and deliver world-class training programs.



**Growing our Distributed Workforce and Canada's AI Talent** Canada's strength is our 200+ pan-Canadian workforce that supports DRI. We want to develop and grow this talent base across the country.



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### Defining the National Interest



- NCI Australia: NFP; University Collaboration Model
- 2. FINLAND CSC: NFP Owned and Operated
- 3. Lawrence Livermore National Laboratory: Government Owned and Operated
- 4. Other Models

Establish a set of criteria that meets the needs of Canadian researchers based on global best practices and best value to the taxpayer.



### Engage With Us



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