



State of DI in Canada Today

- Our national organizations (CANARIE, Compute Canada) do good jobs on their respective pieces
- Problems:
 - Policy gap, fragmented approaches, overlapping jurisdictions, multiple voices, inconsistent funding, focus is on equipment rather than people, ...

What's Missing

- A national vision for DI
- A coordinated approach
- A single locus of responsibility
- Public policy
- Funding to sustain success





Compute Canada: Plans

- September: Submission to Major Science Initiatives (MSI)
 - \$185M available and the request may be \$100M
- October: Submission to NSERC Major Resources Support Program
 - Current funding is \$2M/year for 5 years
- November: Submission to SSHRC Partnership Program
- December: CFI LEF/NIF call expected



WHAT DO SATELLITE IMAGES OF ARCTIC SEA ICE, 3-D MODELS OF THE HUMAN HEART, AND VIDEO OF A MASSIVE TRAFFIC JAM HAVE IN COMMON?

They are joining the torrent of digital data that flows across the CANARIE high-speed network

[Ottawa, Ontario March 4 2011] CANARIE, Canada's Advanced Research and Innovation Network, today announced an extension of Canada's advanced digital infrastructure to eight institutions engaged in cutting-edge digital research. Scientists and researchers at these institutions are leveraging the CANARIE highspeed, high-capacity network to access large, sophisticated data sets and collaborate with national and international peers.

Data that flows over the network is used by scientists and researchers across the country as the basis for groundbreaking research that positively impacts the health and well-being of Canadians.



Today's Reality

- Compute Canada would not be possible without the research network that CANARIE provides
- CANARIE needs the research users of Compute Canada to push the performance boundaries of Canada's state-of-the-art networking
- The current arrangement is not the best
 - Legacy decisions from many years ago
 - Money fragmented in multiple places
 - The funding model is not sustainable

Brave New World?

- Is Canada prepared to make a bold change to the research landscape?
- Create a vision for digital infrastructure for Canada
- Consider bringing Compute Canada and CANARIE closer together, perhaps even into one organization
- Simplify!
- Involve key stakeholders: Industry Canada, CFI, tri-council agencies, provinces, HPC consortia, ORANs, CUCCIO, CARL, industry, ...





Benefits

- Single unified voice for all aspects of digital infrastructure
- Balanced investment across the components of digital infrastructure
- One-stop shopping for researchers
- Leverage state-of-the-art infrastructure for competitive advantage
- Better able to collaborate nationally and internationally
- Build the skilled community able to help Canada compete in academia, industry, and government



Status

- Nothing has been decided
- "Tiger" team working on a position paper that will go to the Compute Canada and CANARIE Boards of Directors
- Start a community consultation, especially with Compute Canada stakeholders
- Seeking your input

The Tiger Team

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