



canarie

# **The Canadian equivalent of ASREN**

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ASREN Founders meeting  
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# What is CANARIE?

Canada's Advanced Research and Innovation Network



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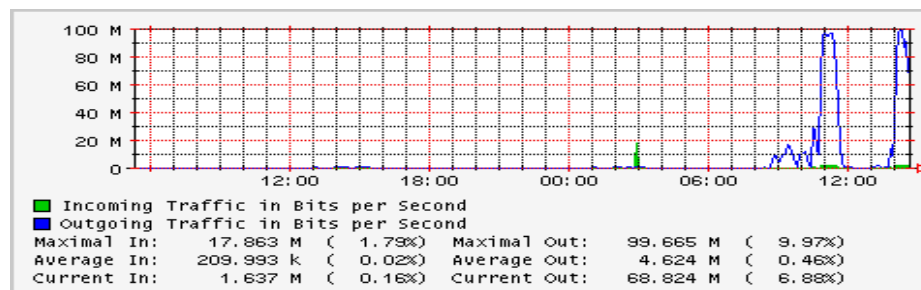
- **Funded by Industry Canada**
- **Connects 40,000 researchers and 6,400 institutions**
- **19,000 km of fibre**
- **19,000 TB of transmitted last year**
- **100G capacity on eastern and western ROADMs**



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# Why do we need **CANARIE**?

- High bandwidth with up to 100 Gig capable ROADM network
  - provides the peak bandwidth required for research traffic which is often bursty.



- The high bandwidth provides the quality of service whenever it is needed without complex configuration

**A network dedicated to meet the needs of researchers and innovators in Canada**

# **CANARIE** is more than just the network...



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- Funds **equipment upgrades and network extensions** to provincial and territorial networks to ensure equal network access availability to all regions in Canada



Funds *new connections*

- Funds **research projects** that enable greater access to research data, tools and analyses

**CANARIE strengthens the digital infrastructure supporting research and innovation in Canada**

# **CANARIE's** Platforms Program: enabling national and global collaboration



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**Ocean Science**



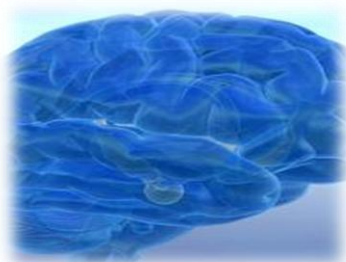
**Intelligent Transportation Systems**



**High Energy Physics**



**Space Science**



**Global Brain Imaging and Research Network**



**Disaster Response**



**Green IT**



**Many more...**

**Scope of projects: data repositories; sensor grids and remote equipment control; collaboration software**