



## Supporting Improved Forest Monitoring and Management

### Better Data Supports Better Decisions

**Project Name:** Service-Oriented Scientific Grid Computing

**Project Lead:** University of Victoria

**CANARIE Contribution:** \$ 500,000

**Participants:**

- University of Victoria, British Columbia
- Pacific Forestry Centre, Canadian Forest Service, Natural Resources Canada
- National Research Council Canada
- Canadian Space Agency
- MacDonald Dettwiler

**What is Service-Oriented Scientific Grid Computing?**

It is a comprehensive computing “grid” that provides researchers access to a rich trove of remote-sensing data about Canada’s forests.

Supercomputers, data-storage facilities, databases, collaborative tools, and people are linked by CANARIE’s high-speed network.

This supports sustainable management and development of Canada’s vast forest resources.

**Value to Research and to Canada:**

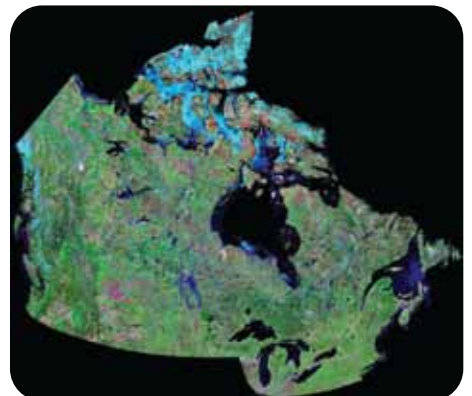
- Strengthens Canadian earth-observation science and maximizes the return on government investment in remote-sensing networks
- Enables researchers to understand the state of Canadian forests, deal with environmental and man-made stress factors and improve sustainability
- Supports better environmental decisions and responses by providing researchers with enhanced access to forest data from sensors on the ground and on satellites

**Did you know?**

More than 53% of Canada’s land is forest, other wooded land and other land with tree cover. The forest products industry is one of Canada’s leading manufacturing sectors and largest net exporter.



Canada has 397.3 million hectares of forest, other wooded land and other land with tree cover.



A “compressed mosaic” showing Canada’s forests.