



Leading the Digital Healthcare Revolution

An Innovative Platform for Healthcare Training and Education

Project Name: Health Services Virtual Organization (HSVO)

Project Lead: Northern Ontario School of Medicine, Lakehead University, Thunder Bay, Ontario

CANARIE Contribution: \$ 2 M

Participants:

- Northern Ontario School of Medicine, Lakehead University, Ontario
- McGill University, Montreal, Quebec
- iDeal Consulting, Ottawa, Ontario
- Communications Research Centre, Ottawa, Ontario
- National Research Council, Fredericton, New Brunswick
- Innovations in Learning, California
- Stanford University, California
- University of Wisconsin, Lacrosse, Wisconsin
- University College, Cork, Ireland

What is HSVO?

HSVO is a unique medical research and learning platform that combines software, hardware and advanced networking and computing technologies in a single, Web-based, integrated, simulation system.

The high-speed CANARIE Network enables these sophisticated resources to be combined to deliver innovative and powerful learning environments to multiple locations simultaneously.

Healthcare practitioners, university professors, scientists and students in multiple locations use these resources either on-demand or as part of multi-site collaborative activities.

Among other things, HSVO can be used to:

- Remotely view surgeries or autopsies from multiple independent perspectives
- Conduct collaborative training using medical mannequins and other sophisticated learning tools

Value to Research and to Canada:

- Shared resources significantly improve the return on investment in advanced simulation and related technologies
- Extends cutting-edge medical resources and interactive training opportunities to tutors and learners in remote and rural regions
- Creates new approaches to designing, running, and analyzing training and assessment of health professionals to support improved system efficiency and patient safety

Did you know?

HSVO allows learners at all stages to work with some of the best resources in the world and with each other, without leaving the communities they serve.



A camera array in operating theatre enables remote viewers to select different views of the procedure they are observing.



Learners and tutors across Canada and beyond collaborate on a range of simulated scenarios, using state-of-the-art technology.