Overview of Network-Enabled Platform (NEP) Projects Supported by CANARIE

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Science Studio Project

The goal of this project is to develop an experimental management system that exercises control of remote projects at Canadian Light Source, and the University of Western Ontario. The expected result is increased and more efficient use of these laboratories by researchers across the country and around the world.

Project Lead: University of Western Ontario
Participant(s): Canadian Light Source Inc, Concordia University

Service Oriented Scientific Grid Computing Project

The goal of this project is to integrate the computational grid services provided by the Globus Toolkit and Canadian Gavia Project into the Canadian Forest Service's SAFORAH data grid project. The SAFORAH project was created to coordinate and streamline the archiving and sharing of large geospatial data sets between various research groups within the Canadian Forest Service, University of Victoria and various other academic and government partners.

Project Lead: University of Victoria

A Platform to Create and Support Ocean Science Virtual Organizations

The goal of this project is to allow the diverse and distributed community of ocean scientists to work together on research projects aided by a dynamic and modern, web-based software system providing transparent access to distributed data sources and remote underwater assets.

Project Lead: University of Victoria
Participant(s): Memorial University of Newfoundland, McGill University

Health Services Virtual Organisation (HSVO) Project

The goal of the Health Services Virtual Organization project is to create a sustainable research platform for experimental development of shared ICT-based health services, including supporting patient treatment planning and team and individual preparedness in the operating room, emergency room, general practice clinics, and patients' bedsides.

Project Lead: Lakehead University
Participant(s): Northern Ontario School of Medicine (NOSM), McGill University, iDEAL Consulting

GeoChronos Project

The goal of this project is to develop a gateway to equip earth observation scientists with tools to develop new collaborative approaches to data analysis. The expected result is an innovative platform that will harness the benefits of social networking technologies and extend them into the scientific community.

Project Lead: Cybera Inc.
Participant(s): University of Calgary, University of Alberta, University of Victoria

Platform for Ocean Knowledge Management (POKM) Project

The goal of this project is to build a real-time collaboration tool (POKM) for the ocean/marine life sciences research community in order to share knowledge and to develop and collaborate on complex data models on such diverse topics as coastal flooding and marine animal behaviour.

Project Lead: Dalhousie University

The Canadian Space Science Data Portal (CSSDP) Project

The goal of this project is to enable and simplify researcher access to space science analytic tools and data. It is expected to shape the development of the space science community as well as help refine productivity safeguards for Canadian industries impacted by space weather phenomena.

Project Lead: Cybera Inc.
Participant(s): University of Alberta, University of Saskatchewan, University of New Brunswick

Canadian Brain Imaging Research Network (CBRAIN) Project

The goal of this project is to develop a platform for distributed processing and exchange of 3D/4D brain imaging data. It will provide a standard methodology for Canadian brain imaging researchers to collaborate productively and fully use available computing and networking resources.

Project Lead: McGill University
Participant(s): Baycrest Centre for Geriatric Care, University of Western Ontario, Université de Montréal, University of British Columbia

Canadian Advanced Network for Astronomical Research (CANFAR) Project

The goal of this project is to enable leading-edge scientific discovery by users of major Canadian astronomical surveys by creating an operational system for the delivery, processing, storage, analysis, and distribution of astronomical datasets of unprecedented size.

Project Lead: University of Victoria
Participant(s): University of British Columbia

ONE-ITS (Intelligent Transportation System) Project

The goal of this project is to create a pan-Canadian, internationally connected, multidisciplinary research cluster in Intelligent Transportation Systems (ITS). It is the most cost-effective approach to creating a national critical mass of ITS researchers while leveraging scarce resources.

Project Lead: University of Regina
Participant(s): University of Toronto

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