



CONNECTING CANADA'S RESEARCH, EDUCATION AND INNOVATION COMMUNITIES

The National Research and Education Network (NREN) is a federation of infrastructure, tools, and people that are vital to Canada's innovation and economic growth. Fourteen provincial, territorial and federal NREN Partners connect Canada's researchers, educators and innovators to each other, and to data, technology and colleagues around the world.

RESEARCH AND EDUCATION NETWORKING

 **797 ORGANIZATIONS**

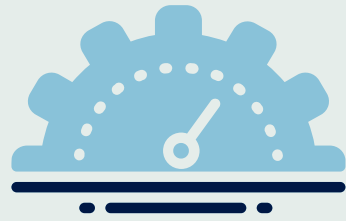
A dedicated, ultra-high-speed network connects 797 Canadian research, education and innovation organizations to each other and to thousands of global peers



Access to valuable research data, tools, and colleagues that is only available through NREN connections

+\$1.2B IN GLOBAL NREN INVESTMENTS

NREN-connected organizations leverage and benefit from over \$1.2B in global NREN investments



Capacity to manage very large files and "bursty" research traffic

CYBERSECURITY



Common cybersecurity monitoring on all NREN Partner infrastructures, managed by a team of NREN Cybersecurity Analysts

Additionally, NREN Partners:



Provide critical support for member organizations in adopting CANARIE-funded cybersecurity initiatives



Adoption of MANRS network protocol, and support for connected organizations to adopt this global protocol for improved network routing security



Participate in the governance of CANARIE's Cybersecurity Initiatives Program



Opportunities for connected organizations to collaborate on common cybersecurity challenges across Canada



Work to simplify the cybersecurity landscape for connected institutions and highlight the unique cybersecurity needs of research, education and innovation organizations to federal funders

SHARED AND VALUE-ADDED SERVICES

Individually, NREN Partners offer a range of shared and value-added services, based on the needs of their connected member institutions



HOW DOES IT ALL WORK? THE POWER OF FEDERATIONS

The NREN federation operates based on three principles:

- 1 DIVERSITY** the NREN recognizes and embraces the diversity among its members and uses this diversity to deepen its understanding of community needs and how to best meet them
- 2 DEPENDENCY** NREN Partners recognize the critical role each plays in connecting institutions within a jurisdiction, with the federal partner CANARIE responsible for interprovincial and international connections
- 3 DEMOCRACY** Each NREN partner participates in the NREN Governance Committee, with an equal voice and equal vote in the evolution of the NREN.

IT'S A POWERFUL MODEL THAT IS EVOLVING TO MEET THE CHANGING NEEDS OF CANADA'S RESEARCH, EDUCATION, AND INNOVATION COMMUNITIES.