



Shared IT Services for Higher Education & Research

Conference 2018

Above-the-Network Services — Delivering Value Beyond Connectivity

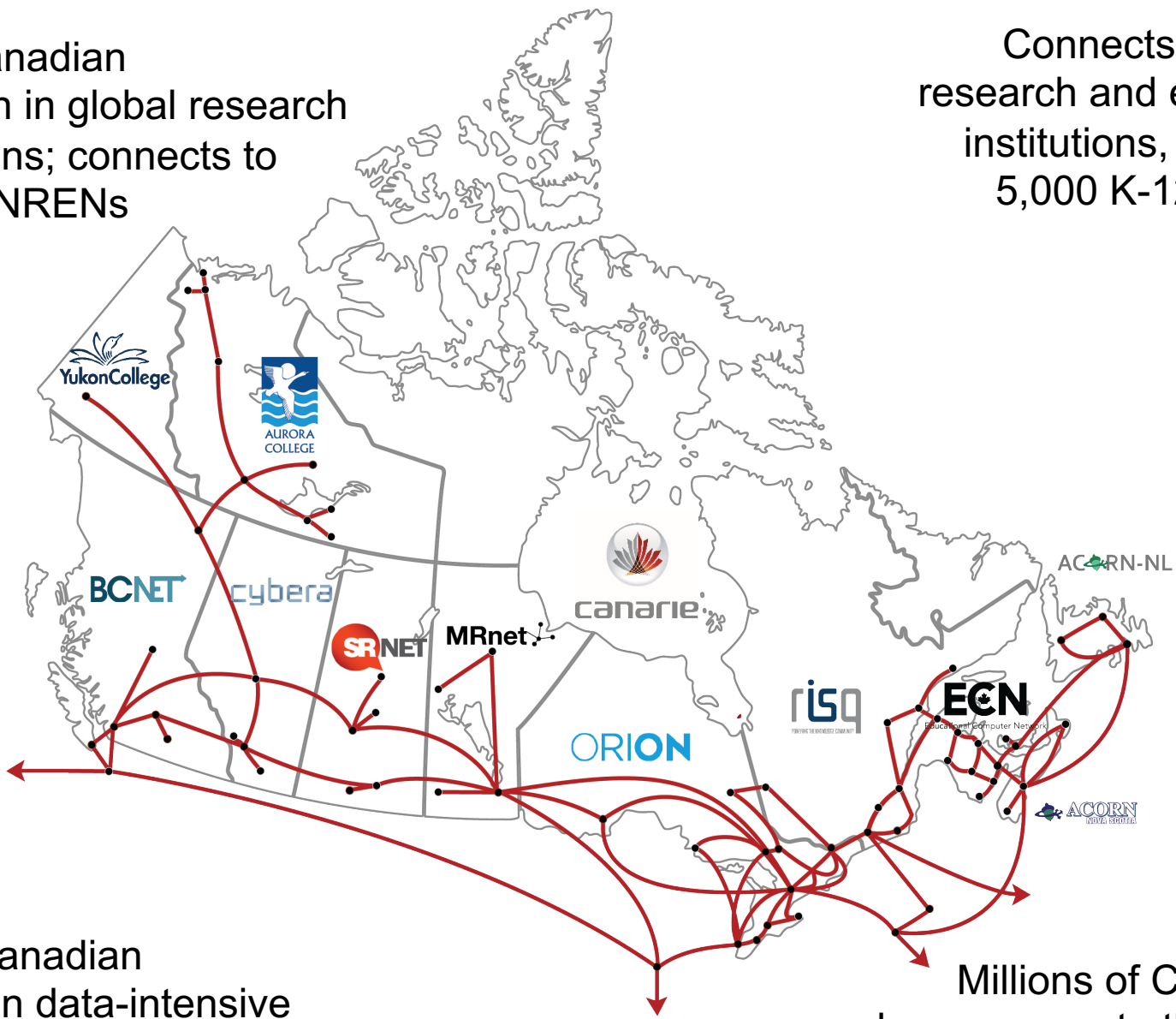
Alfonso Licata | ORION • Bala Kathiresan | BCNET • Barb Carra | Cybera •
Terry Nikkel | ECN • Peter Wilenius | CANARIE



CANADA'S NATIONAL RESEARCH AND EDUCATION NETWORK (NREN)

Enables Canadian participation in global research collaborations; connects to 100 global NRENs

Connects over 600 research and education institutions, plus over 5,000 K-12 schools



Supports Canadian leadership in data-intensive research and innovation

Millions of Canadians have access to the NREN

Maps out the evolution of the NREN in three areas:



Services



Organization



Relationships

...with a goal of strengthening Canadian leadership in research, education and innovation.



NEW DEMANDS ON THE NREN...

data
international
bring your own device
network function virtualization

cloud
security
testbed networks

innovation
over-the-net services
software defined networking

...LEADING TO COLLABORATIONS ON ABOVE-THE-NETWORK SERVICES



- Pan-European framework agreements with **20 cloud services providers**
- Negotiated by GEANT and **36 NRENs**
- Available to **10,000 institutions** representing **50+ million users**



- **700 subscriptions** with more than **25 service providers**
- **243 institutions** (73% of Internet2 members) have used program since inception



DELIVERING VALUE THROUGH COLLABORATIVE SERVICE DEVELOPMENT

- Demand aggregation → better pricing
- Standardized procurement and contracting terms
- Access to enterprise solutions for smaller institutions
- Better utilization of existing network investments
- Potential for comprehensive services → reduced service integration costs
- Leverage existing identity management frameworks



WHAT'S THE RIGHT APPROACH FOR THE CANADIAN NREN?

