



canarie

CANARIE update

Thomas Tam | October 2, 2013 | Nanyang Technology University, Singapore

Agenda

- About CANARIE
- CANARIE Network
- Fibre System Builds
- Other Projects

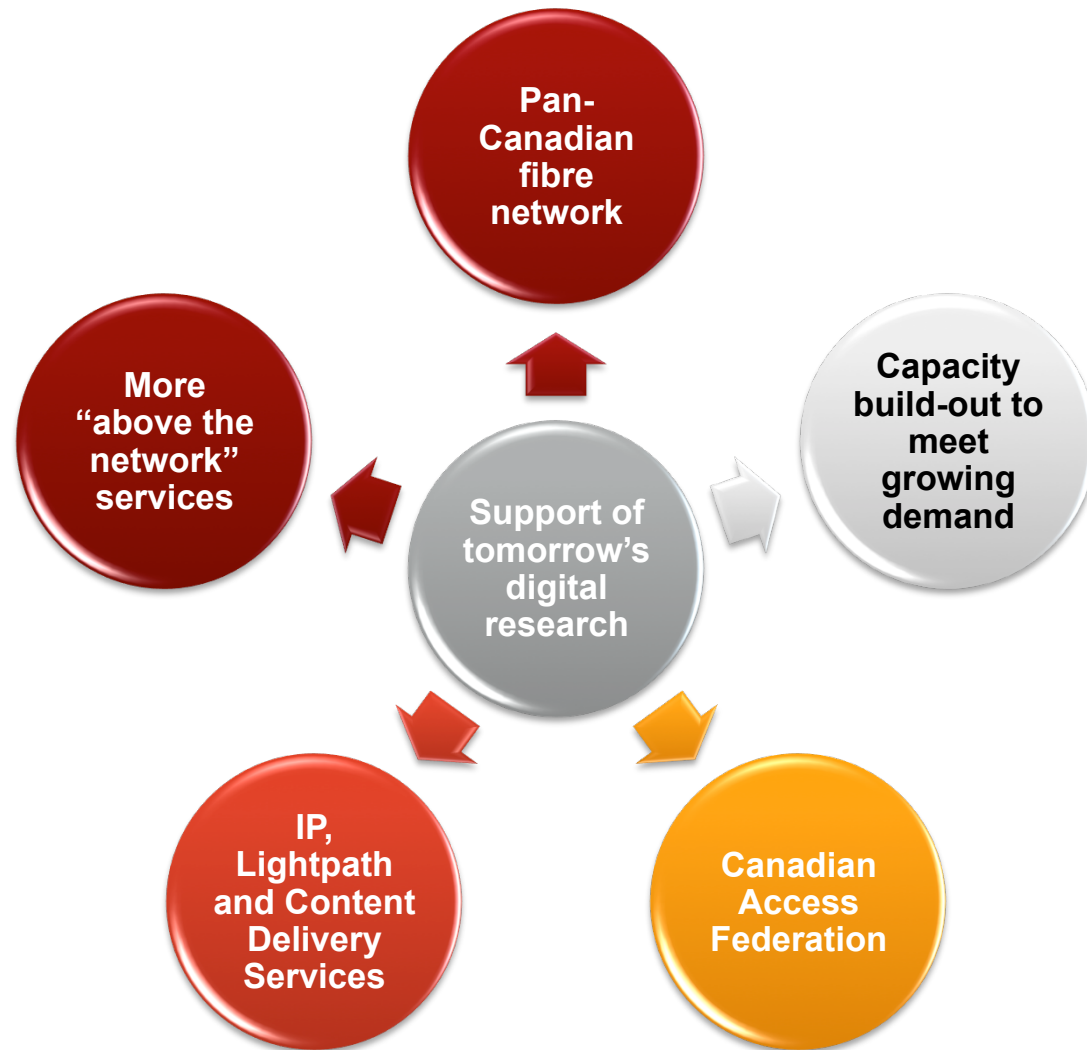
A quick overview of CANARIE...

- **CANARIE runs Canada's ultra-high-bandwidth research network**
 - Connects one million users at 1,100 institutions
 - Provides international connections to National R&E networks around the world
 - Funds programs that enable greater access to research data, tools and peers
- **CANARIE works with provincial partners to connect:**
 - Every Canadian university
 - Canada's "big science" facilities like TRIUMF, NEPTUNE, CLS, SNOLAB, and to Compute Canada HPC consortia
 - Research hospitals and health networks
 - All the Networks of Centres of Excellence
 - Hundreds of colleges; thousands of high schools
 - Private research institutions
 - Government research facilities
- **Primary investment is from Government of Canada**



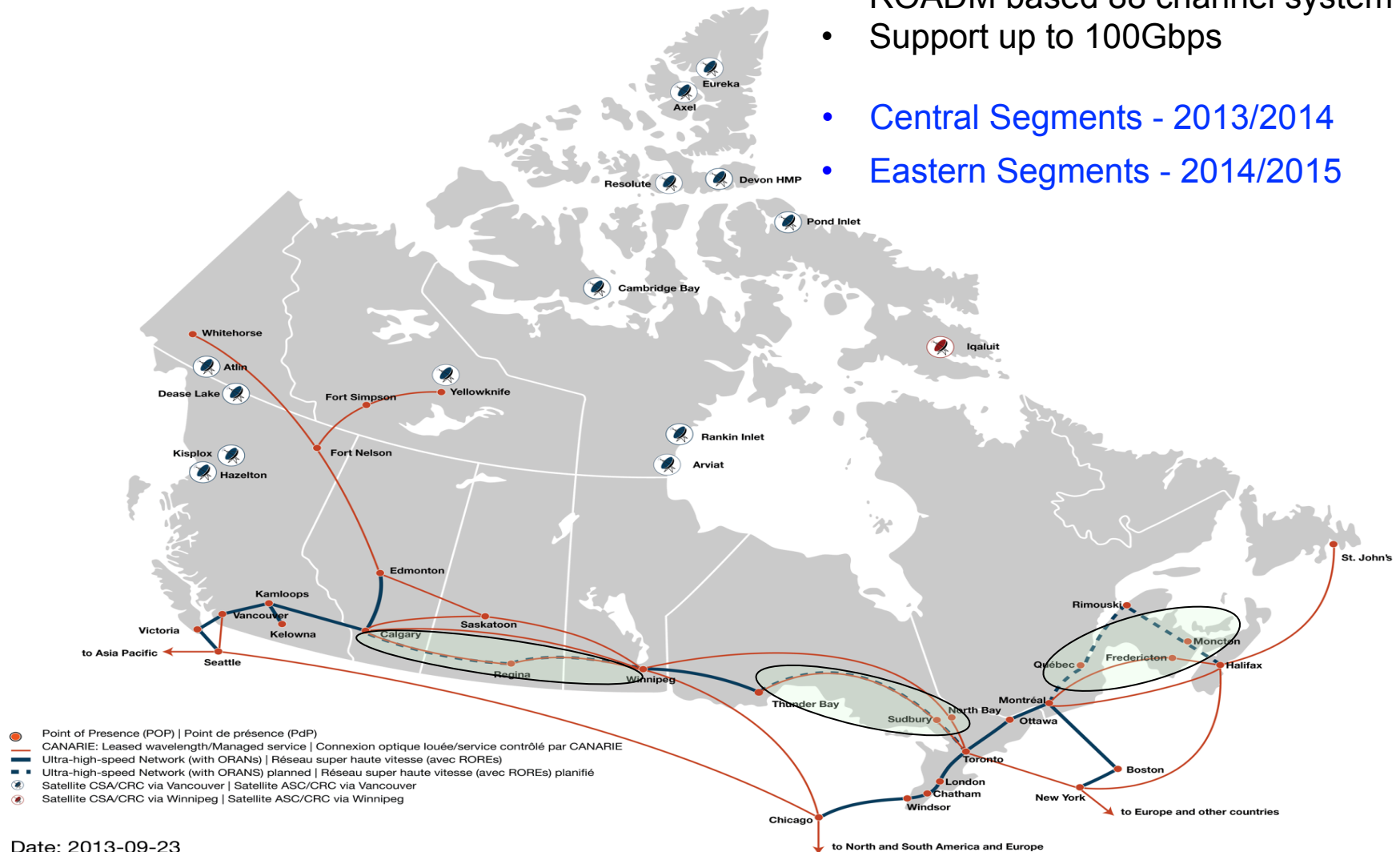
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The Network



Building Pan-Canadian Fibre Network

- ROADM based 88 channel system
- Support up to 100Gbps
- Central Segments - 2013/2014
- Eastern Segments - 2014/2015



Date: 2013-09-23

Other Network Projects

- 100G Core Upgrade??
 - 100G (10x10G) to MANLAN is in place
 - 100GE Wavelengths across CANARIE Fibre network
- IP network Upgrade
 - n x 10GE vs. 100GE??
- Maintaining 10G to CERN for the Canadian Tier1
- ANA-100G partnership