



Canarie and CRC ' presentation

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CANARIE

- Not-for-profit organisation supported by Industry Canada
- Working with the government, industries and R&E organisations
- 120 members and 500 project partners
- Board is representative of private and public sectors
- Mission:
 - To accelerate Canada 's Advanced Internet Development
 - To stimulate the development and the use of advanced Internet infrastructure



CANARIE

- CA*net-II (1996-1998)
- Canada next generation Internet initiative to promote advanced Internet networks, applications and services
- 13 GigaPOP 's (Gigabit-capacity Points of Presence) with high performance IP/ATM network to connect universities and research centers
- R&E backbone from Vancouver to Halifax (5800 Km)



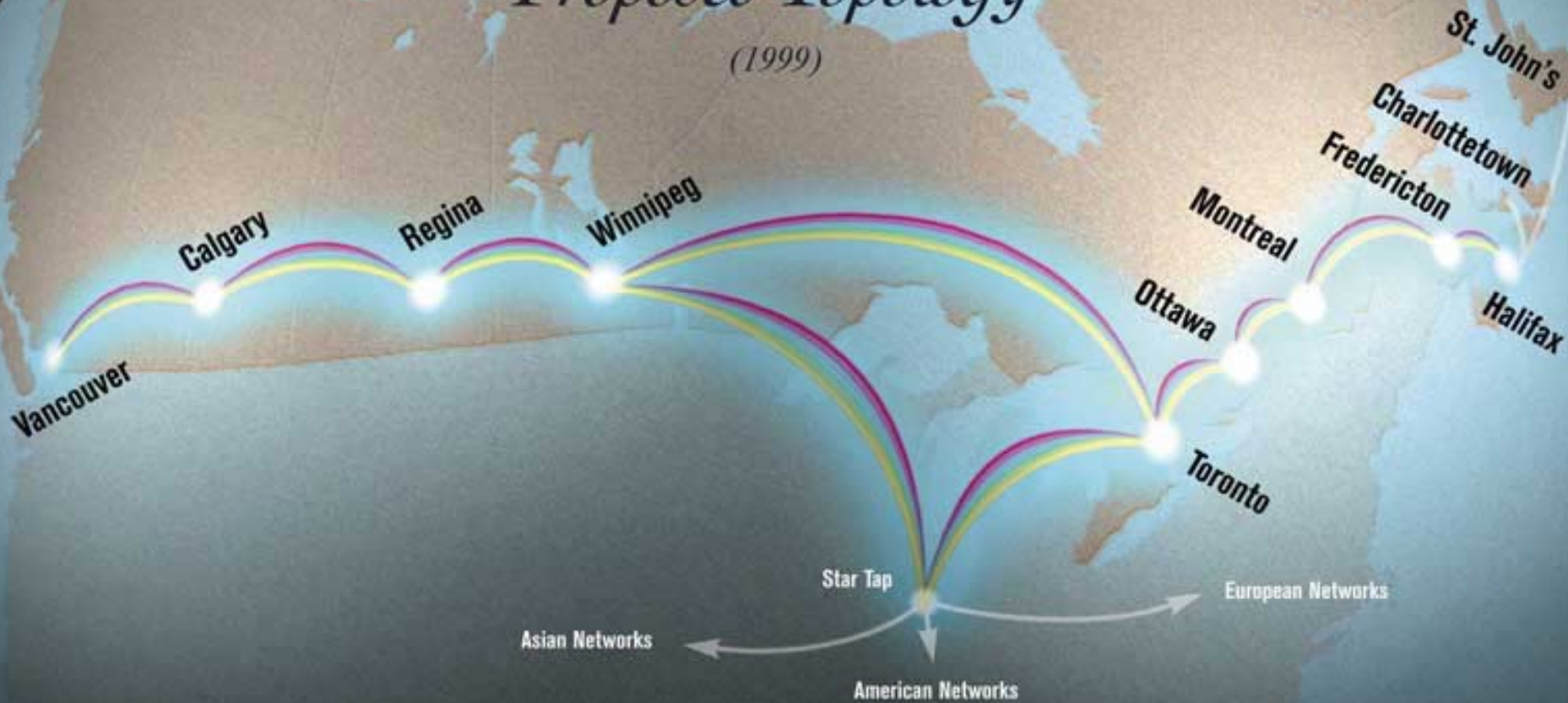
CANARIE

- CA*Net 3 (1999-2002)
- Canada Optical Internet Initiative
- Replacing the CA*net-II network
- Fiber optic Dense Wavelength Division Multiplexed (DWDM) based network (IP over DWDM)
- Deliver up to 40 gigabits
- R&E network for universities, research centers and industries in Canada

CAnet3

Proposed Topology

(1999)





CRC

- Communication Research Centre for Canada
- Governmental agency of Industry Canada
- Annual budget: \$ 71 millions CDN
- Clients:
 - National Defence
 - Industries and research organisations
 - Telecom carriers
 - Wireless communication industries
 - Government



CRC R&D activities

- Research in some communications fields
 - Satellites
 - Wireless system
 - Radio
 - Broadcast technology
 - Broadband network technologies
 - ATM
 - IP
 - IPv6
 - Security



CRC

- BADLAB (Broadband Applications and Demonstrations Laboratory)
- Demonstration and test information highway applications using ATM, satellites, and wireless
- Connected to CA*net 3 backbone
- Links to Europe (T-Nova), and Asia
- Current IPv6 projects:
 - RTP over IPv6
 - Virtual reality over IPv6
 - QoS



References

- CANARIE
- Bill.St.Arnaud@canarie.ca
- Director, Advanced Networks
- <http://www.canarie.ca>

- CRC
- eric.tsang@crc.ca
- Associated Director, BADLAB
- <http://www.crc.ca>