



ICT4D Bridging the Digital Divide: The Canadian Experience

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We are in the Network Age

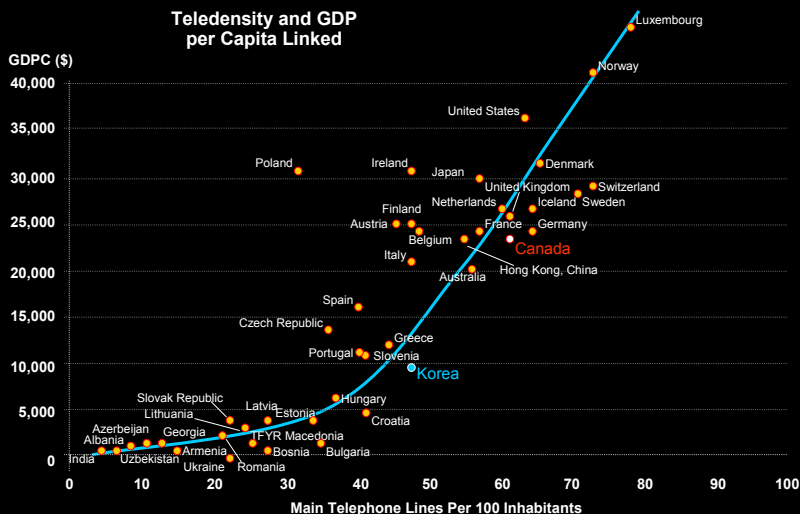
“Today’s technological transformations are intertwined with another transformation - globalization - and together they are creating a new paradigm: the network age.”

United Nations Human Development Report, July 2001

“Without innovative public policy, these technologies could become a source of exclusion, not a tool of progress.”

United Nations Development Report, July 2001

Technology is Key to Success ...



Source: ITU and Gartner Dataquest, *The Payoff of Ubiquitous Broadband Deployment*, 2004

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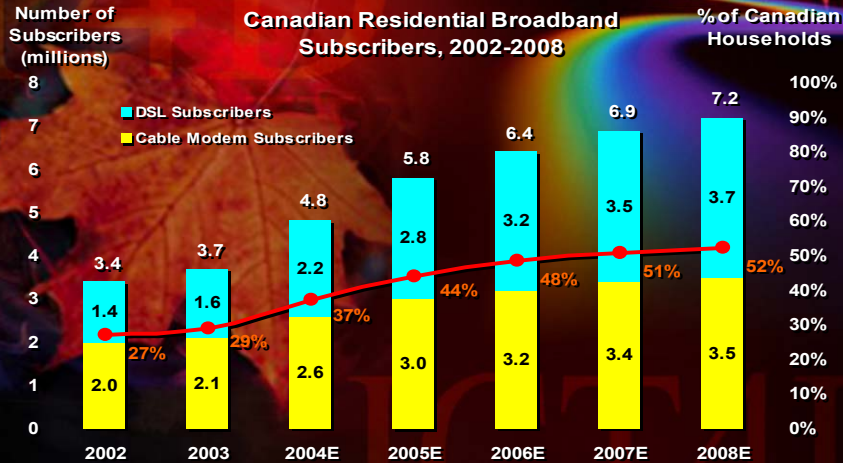
Canada is increasing connectivity

- & 100% of schools and libraries connected by 1999
- & 90% of computers in schools are connected to the Internet
- & Median student-to-computer ratio is 1 to 5 (Statistics Canada, 2003/04)
- & Almost 500,000 refurbished computers to schools
- & Connected 12,000 volunteer organizations to the Internet
- & Established 8,800 public Internet access sites
- & CA*net4: the world's first national optical research and education network
- & 64% households (HIUS 2004) and 75% SMEs use the Internet (CFIB 2003)
- & # 1 in Government Online (Accenture 2001, 2002, 2003, 2004)

Citizens, businesses and governments are going online

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Not only are Canadians moving online, they are demanding high-speed



Source: Yankee Group, North America Consumer Fixed-Line & Media Forecast (March 2004).

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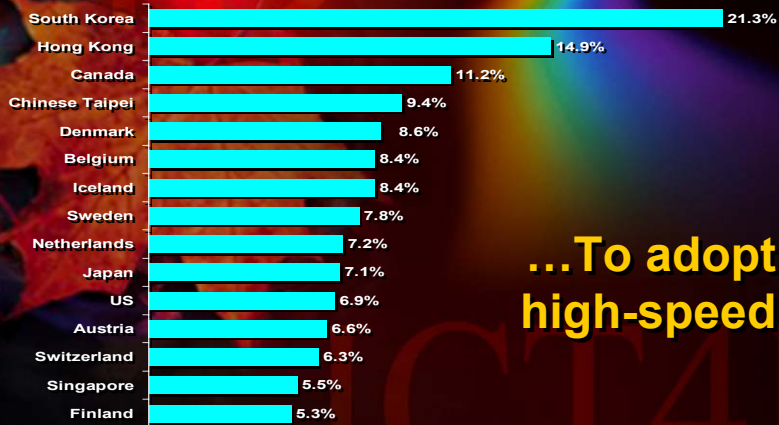
As a result, today Canada is...

- & **One of the most connected nations in the world**
 - Canada ranks second in the Conference Board's Connectedness Index, 2004
- & **A world leader in advanced network development**
 - CA*net 4, the world's first national optical research and education network to support user-controlled connections known as *lightpaths*
- & **An internationally recognized "first mover" in connectedness**
 - Canada ranked first for the 4th year in a row on e-government maturity (*Accenture, 2004*) and 2nd in e-learning readiness (*Economist Intelligence Unit, 2003*)
- & **A global leader in setting policy frameworks, particularly with respect to trust infrastructure for e-commerce**
 - Canada ranked 1st on business environment, 2nd on supporting e-services, and was identified as the world's best place to conduct business over the next five years (*Economist Intelligence Unit, e-readiness rankings, 2004*)
- & **Home to innovative, growing companies**
 - Innovation and research have helped establish Canada as the second-largest biotechnology centre in the world, after the United States, with the largest number per capita of biotechnology companies in the world (*CanBiotech, 2004*)

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Canada is well positioned...

Global Broadband Penetration
(broadband subscribers per 100 inhabitants), 2002

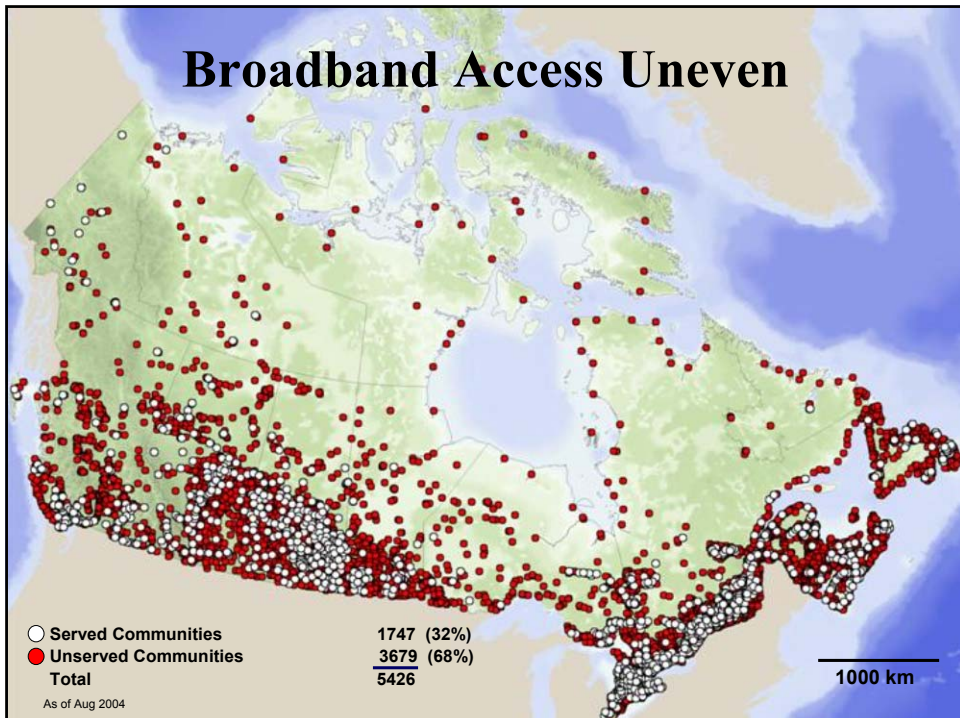


...To adopt
high-speed

Source: ITU, *Birth of Broadband*, September 2003.

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Broadband Access Uneven



Broadband initiatives to bridge the digital divide

- & Policy leadership to facilitate the deployment of broadband to unserved First Nations, Northern, rural and remote communities.
- & Leveraging partnerships with communities in delivering broadband through a community aggregation approach.
- & Joint federal-provincial programs in the roll-out of broadband high-speed networks to unserved communities.

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Canadian support for bridging the international Digital Divide

Sharing expertise ...

- & Focus our efforts on multilateral and regional organizations (ITU, APEC, OECD, UN ICT Task Force, G8 DOT Force)
- & Promote Canadian principles and expertise
- & Start with clear policy and regulatory frameworks

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Benchmarking progress

Sharing knowledge ...

Multiple activities are underway to measure and monitor:

- ICT Readiness** • Infrastructure, policy framework, enabling environment.
- ICT Access** • Diffusion and accessibility across all regions and sectors of society.
- ICT Use** • E-applications
- ICT Impact** • ICT as an enabler for socio and economic growth.

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Canada: what have we learned?

- & Start with a vision
- & Build high-level political will
- & Involve stakeholders through partnership
- & Build consensus

- & Develop sustainable projects
- & Create a policy environment to promote development
- & Foster competition
- & Measure, learn from our successes and failures
- & Realign priorities
- & Recognize and share best practices

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