

Promoting Broadband

The Case of Canada

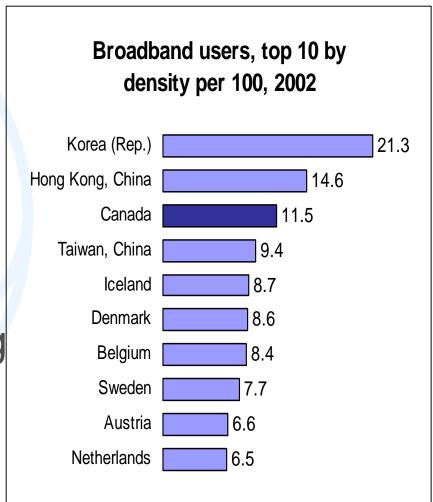
Eric Lie
Strategy and Policy Unit
International Telecommunication Union

The views expressed in this presentation are those of the authors and do not necessarily reflect the opinions of ITU or its Membership. The author can contacted by e-mail at eric.lie@itu.int.



Overview

- Geography
- Demographics and Internet use
- Competition and regulation
- Initiatives promoting broadband

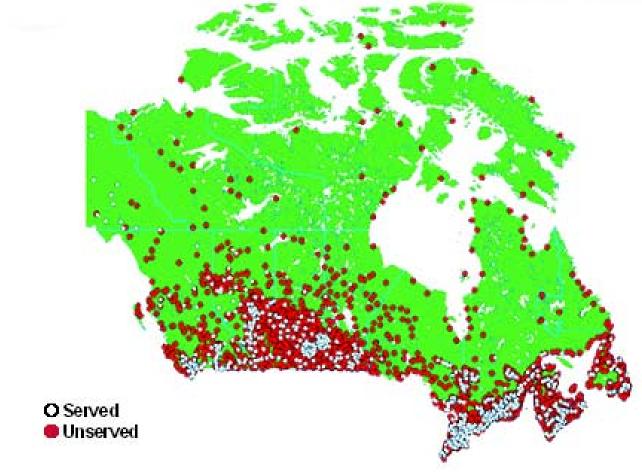






Geography

Distribution of served and unserved communities

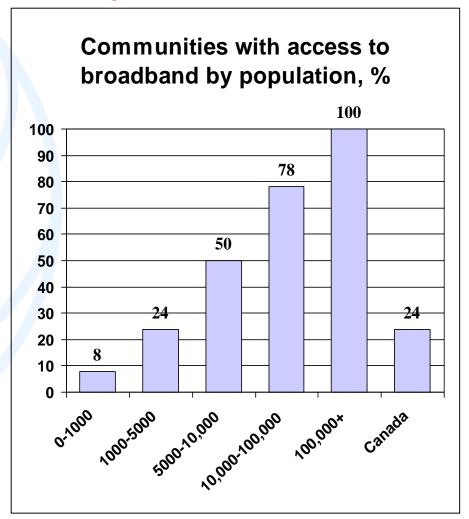




Geography

Small communities less likely to have broadband

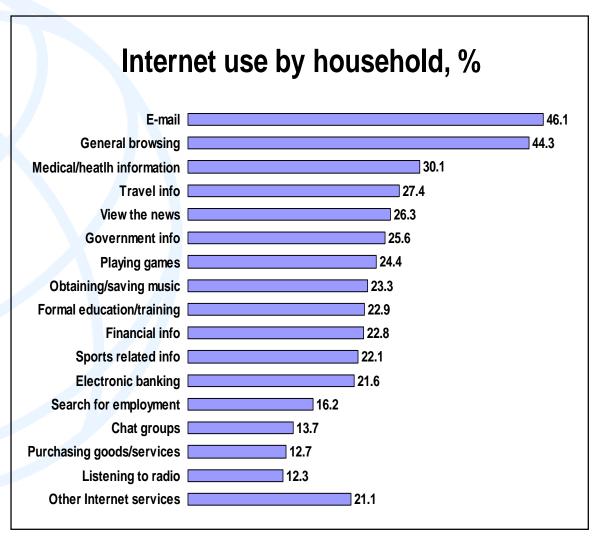
- Broadband is available in 1,282 communities
- Represents 85% of the population but only 24% of all communities
- Policy focus is on connecting the remaining 15% scattered over more than 3,500 communities





Demographics and Internet use

- Affluent
- Highly educated
- Internet penetration of 43.5 per 100
- Use of Internet for high bandwidth activities
 - playing games, downloading music, online learning



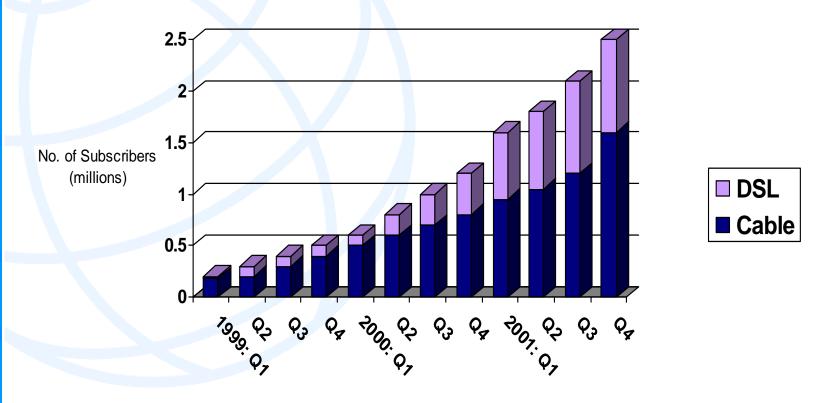




Competition

Intermodal Competition

Growth of cable Internet and DSL subscribers, 1999-2001



Source: Industry Canada



Competition

Broadband pricing

Affordable pricing

e.g. Bell Sympatico ADSL - 1Mbit/s (downstream)
 160kbit/s (upstream) at C\$44.95 (US\$28.40)

Tiered services

 Introduction of "lite" services. e.g. Bell Sympatico "lite" – 128 kbit/s (downstream) 64 kbit/s (upstream) at C\$24.95 (US\$15.70)

Bit cap charges

- Download limits imposed e.g. 10 Gbit for ADSL
- Separation of heavy and light users





Regulation

- Market entry and licensing
 - FBOs need only register before commencing operations
 - Regulatory forbearance from Internet service market
- Rights of way
 - CRTC jurisdiction over disputes between municipalities and carriers
- Local loop unbundling
- Cable open access



Initiatives

Key drivers

Federal

- Connecting Canadians
- Broadband for Rural and Northern Development Pilot Program

Provincial and territorial

 e.g. Alberta SuperNet, Villages branches du Quebec

Community

 "Community champions" e.g. Upper Canada Networks





Initiatives

Infrastructure deployment strategies

- Demand aggregation model
 - Community champions
 - Condominium fibre builds
 - Wireless networks
 - Internet exchanges
- Public infrastructure model
 - Public utility model
 - Public sector network model





Initiatives

Application and content development

- Government supported broadband R&D
 - Individual government departments
 - CANARIE
 - Communications Research Centre (CRC)
- Focus on delivery of public services
 - e-Learning
 - Tele-health





Thank You

http://www.itu.int/broadband