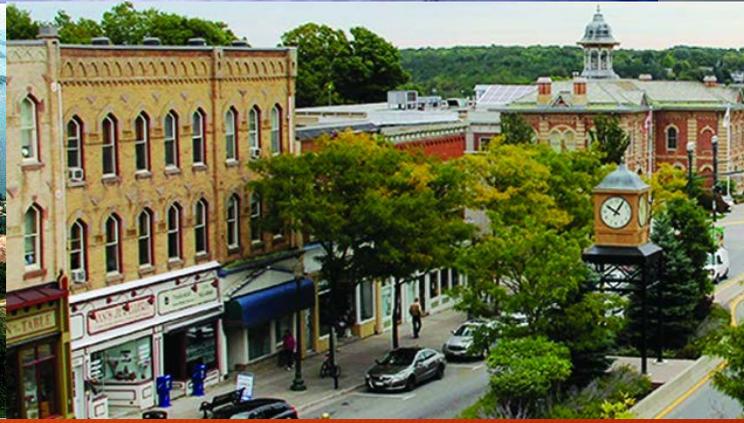


# Left-Behind: Rural Remote and Northern Canada in the Digital Age

Dr. Ken Coates

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University of Saskatchewan

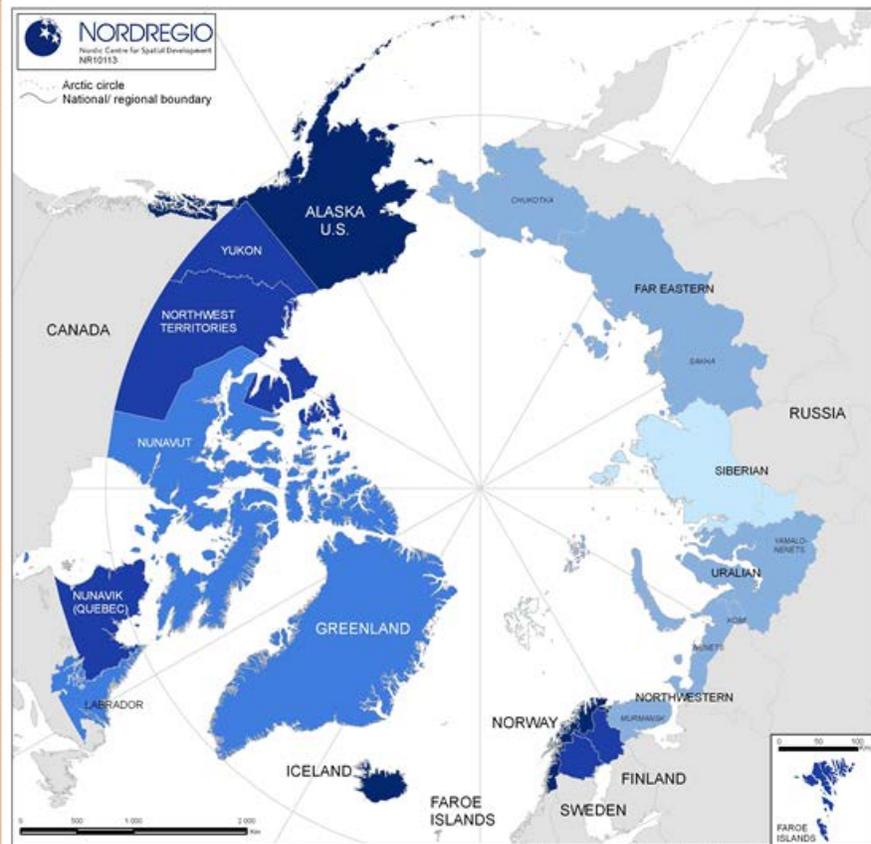
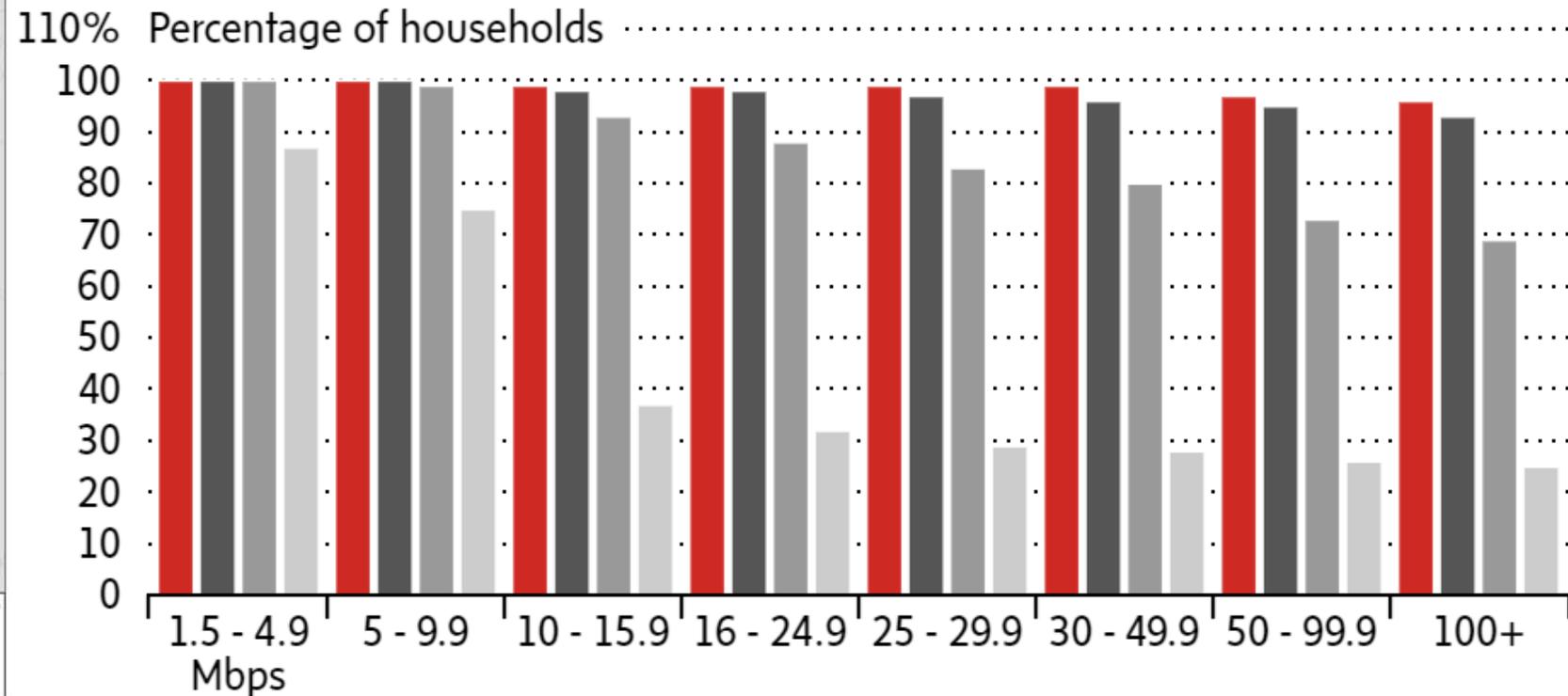
# The Innovation Challenge in Rural, Remote and Northern Regions (Whitehorse, Iqaluit, La Ronge, Orangeville, Rural Newfoundland)



# Internet Connectivity

## Broadband availability by download speed, 2014

- Large population centres
- Medium pop. centres
- Small pop. centres
- Rural areas



Share of internet users\* as % of population\*\*

- > 85 %
- 70 - 85 %
- 50 - 70 %
- 30 - 50 %
- < 30 %

Arctic region defined as in Arctic Human Development Report

\* Nunavut and Northwest Territories: share of households with access to internet (where household is defined as "a person or group of persons" living in a dwelling)

\*\* Russia: regional values correspond to Federal Districts as follows: Murmansk; Nenets and Komi; Northwestern; Yamalo-Nenets; Uralian; Krasnoyarsk; Siberian; Chukotka and Sakha; Far Eastern

FO, GL, IS: national figures; SE, DK, FI, NO: NUTS2

Source: Sweden, Finland, Norway: Eurostat; Iceland: NSI; USA-Alaska: IWS; Canada: Provinces: National Statistics Institutions; Territories: Bureaus of Statistics; Faroe Islands & Greenland: CIA; Russia: FOM-Russia Database, 2009.

THE GLOBE AND MAIL | SOURCE: CRTC / NOTE: DOES NOT INCLUDE SATELLITE AND MOBILE TECHNOLOGIES

# Uncertain Digital Futures (Mining Drones, Internet Options, Tricorder, Mobile Banking, Autonomous Mining Vehicles)



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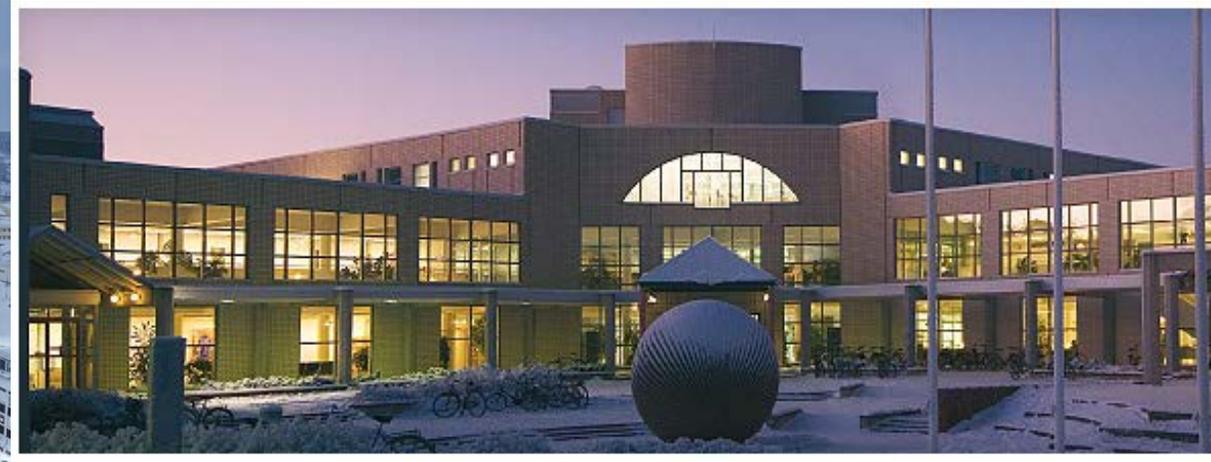
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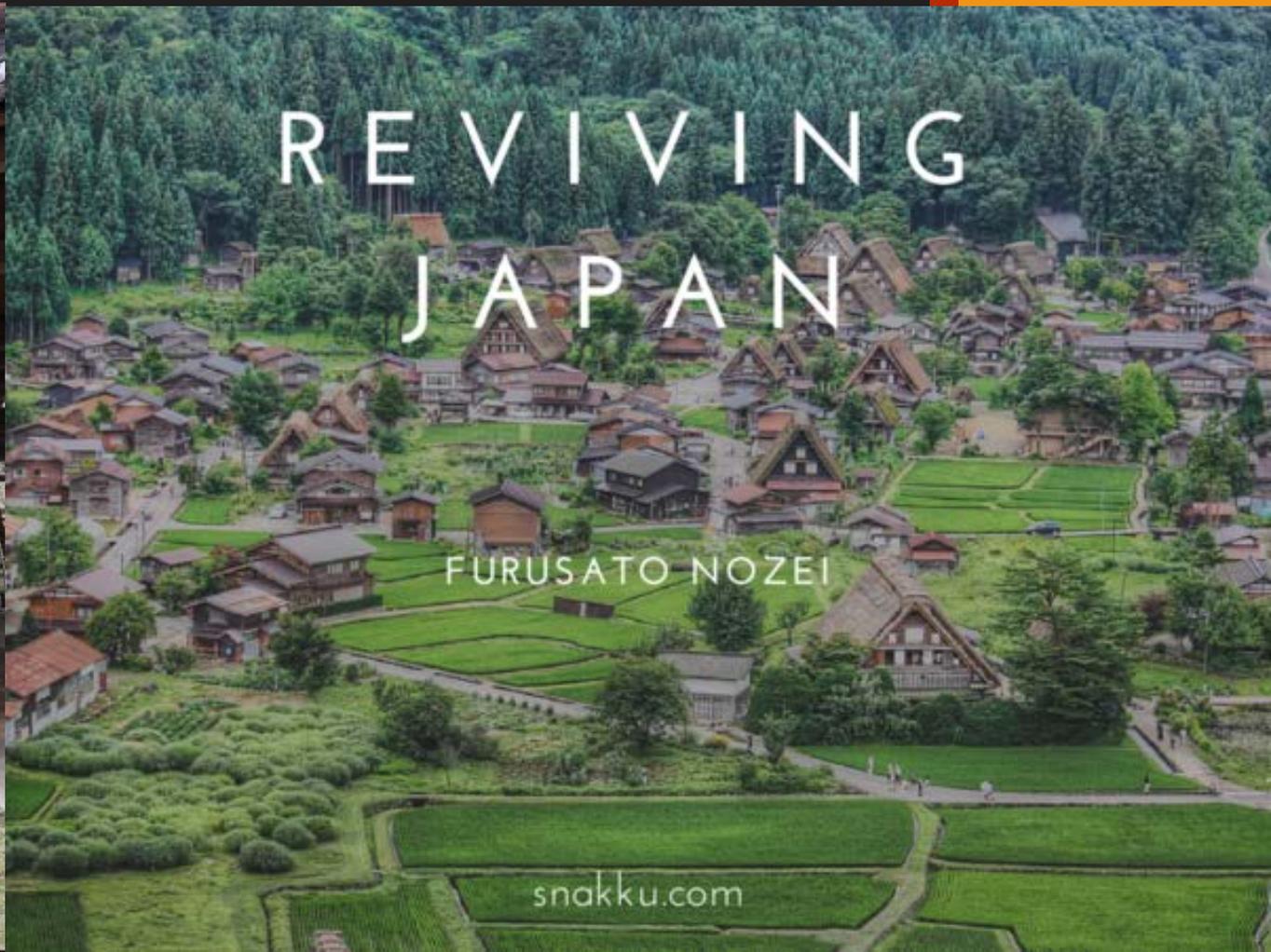
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# Northern Innovation Centres in Scandinavia (Svalbard, Lulea, Tromso, Skelleftea, Oulu)



# Innovation in Rural Japan (Kamiyama, Furusato Nozei - Tax Allocation/Rewards)



# Digital Prospects (3D Printed Homes, Current Housing, Remote Surgery, Robotic Nursing Assistant, Indoor Vertical Farming, Arctic Food Prices)

