

# A Canadian Autobahn

Presentation by  
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Frontier Centre  
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DEMOGRAPHIA







# OUTLINE

- World Class Highways
- Highways In Canada
- A Canadian Autobahn
- Costs and Finance





# World Class Highways



*Banff National Park*





# Motorways & Autoroutes: Description

## AUTOBAHNS, FREEWAYS, INTERSTATES & EXPRESSWAYS

- Full access control
- Full grade separation
- 2+ lanes in each direction
- No cross-traffic
- No traffic signals



# Motorways & Autoroutes: Benefits

“TIME IS MONEY”



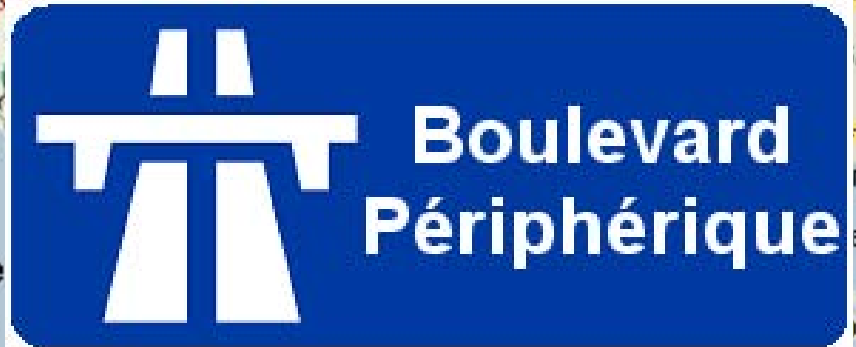
Economic & Poverty Research

- Lower costs in all sectors
- Faster travel time
- National integration
- Superior safety

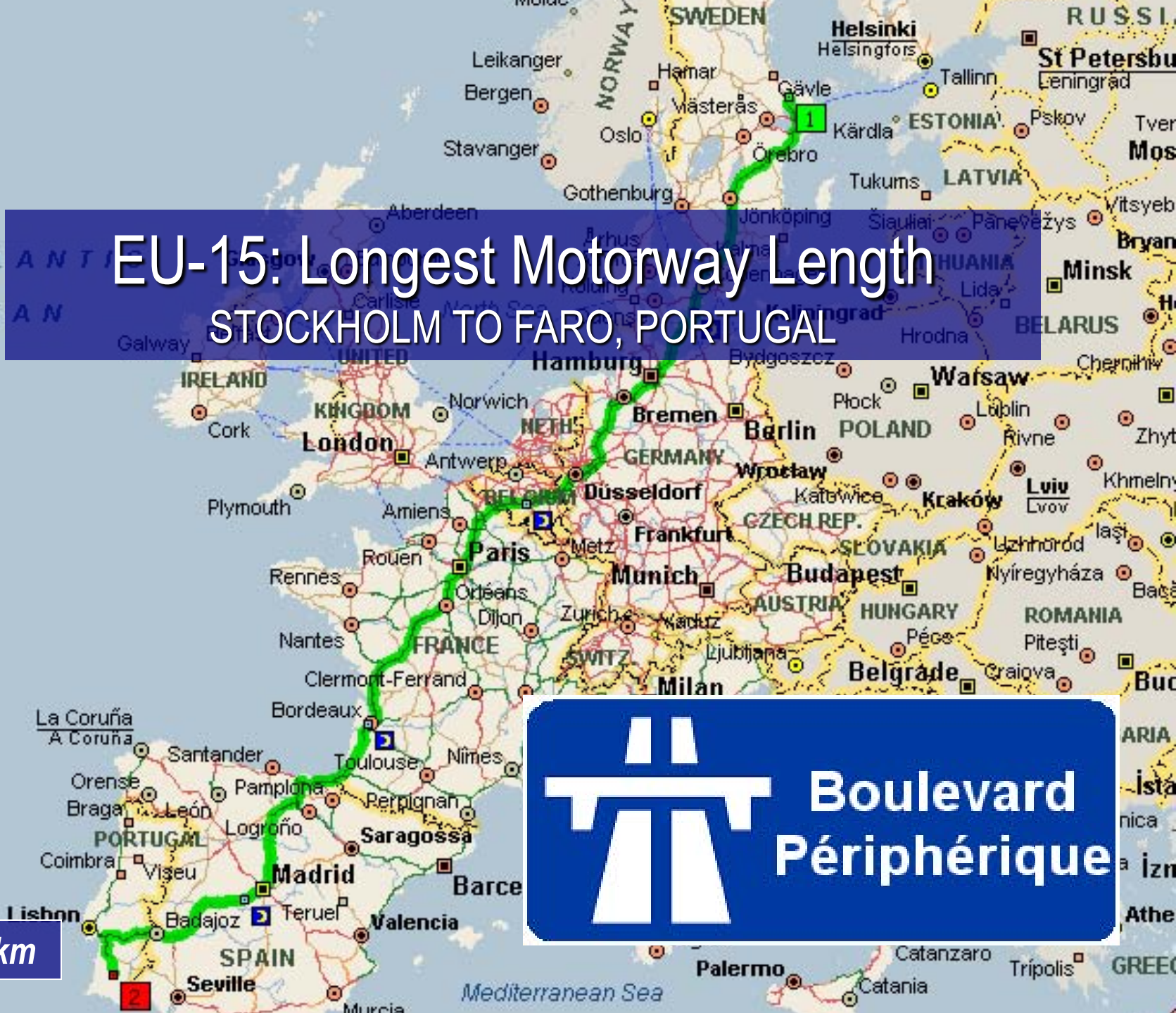
Banff National Park



# EU-15: Longest Motorway Length STOCKHOLM TO FARO, PORTUGAL



3,925 km



# Japan: Longest Motorway Length

## KAGOSHIMA-AOMORI



2,075 km







# China: Longest Motorway Length

PAMIRS (XINJIANG) TO MANCHURIA (PLANNED)



5,800 km



京通快速

JINGTONG EXPWY

10 km

京沈高速

JINGSHEN EXPWY

GZ25

15 km

京津塘高速

JINGJINTANG EXPWY

GZ20

22 km

# US: Longest Motorway Length

## HOULTON, MAINE TO BLAINE, WASHINGTON

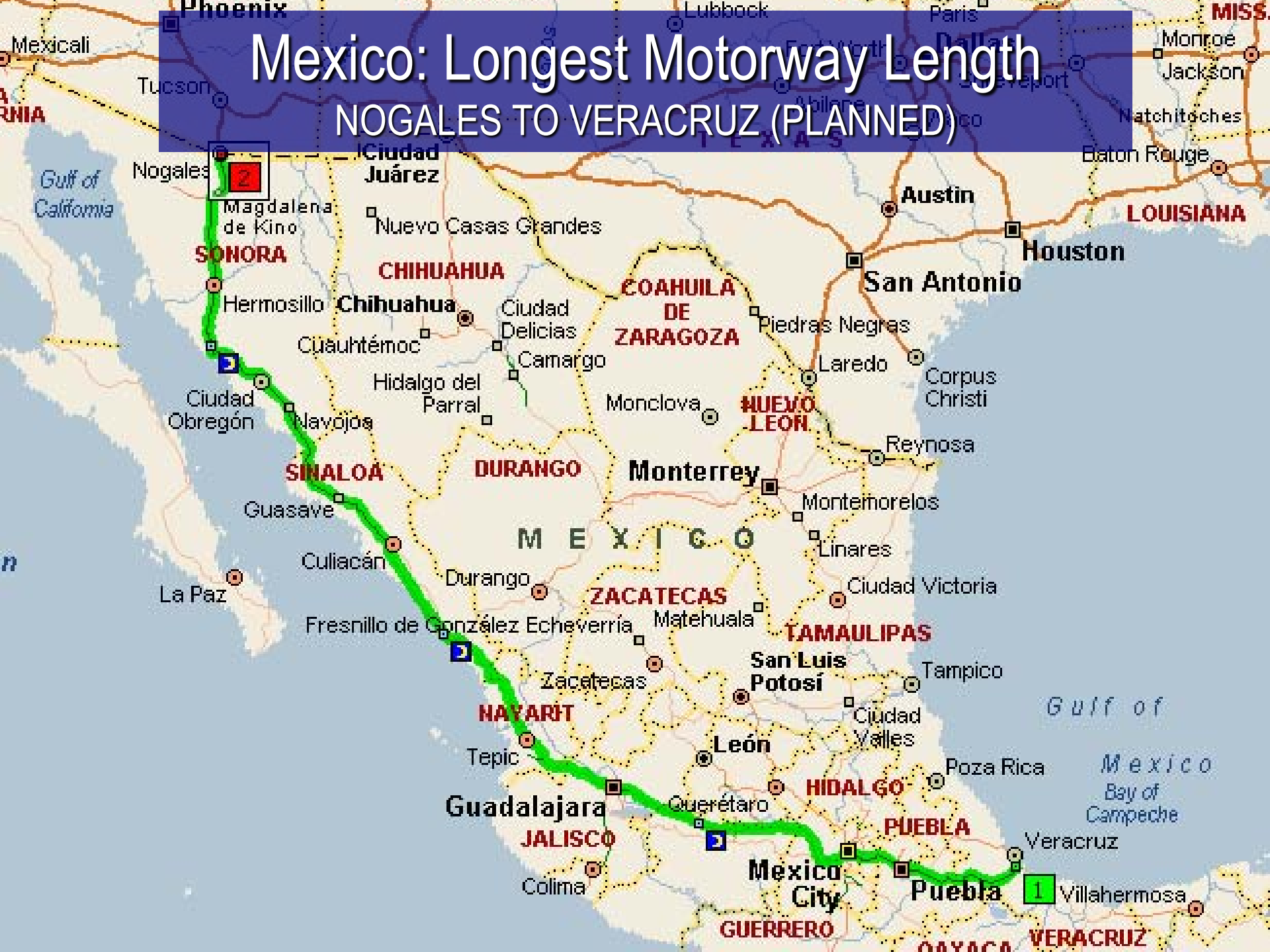


5,725 km



# Mexico: Longest Motorway Length

## NOGALES TO VERACRUZ (PLANNED)



# “Pre-motorway” Left Turn via Right Turn Lane



W Kelly St

Ford Ave

1

Woodbridge, NJ

© 2009 Tele Atlas

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*Toronto: MacDonald-Cartier Freeway*

# Highways in Canada



# Canada's Quality Transport System

AIR, PORTS, FREIGHT RAIL



*CPR: Big Hill: 1890*



# World Urban Motorway Rankings

## HIGH INCOME WORLD AREAS OVER 3,000,000

Urban Area	Urban Access: Freeway Miles per Urban Square Mile	Rank	Urban Capacity: Freeway Lane- Miles per Urban Square Mile	Rank
Hong Kong	1.213	1	6.488	1
Madrid	0.677	2	3.986	2
Barcelona	0.523	3	2.910	4
Singapore	0.497	4	3.443	3
Rhine-Ruhr-Wupper	0.443	5	2.635	6
Montreal	0.424	6	2.380	8
Athens	0.352	7	2.119	9
Osaka-Kobe-Kyoto	0.349	8	1.874	11
Toronto	0.348	9	2.666	5
Los Angeles	0.310	10	2.571	7

# Canada & US Urban Motorway Rankings

## AREAS OVER 1,000,000

Urban Area	Urban Access: Freeway Miles per Urban Square Mile	Rank	Urban Capacity: Freeway Lane- Miles per Urban Square Mile	Rank
Montreal	0.424	1	2.380	4
San Antonio TX	0.416	2	2.108	6
Baltimore MD	0.371	3	1.987	7
Kansas City MO-KS	0.365	4	1.694	9
Toronto	0.348	5	2.666	1
San Diego	0.335	6	2.416	3
San Jose CA	0.323	7	2.295	5
Los Angeles	0.310	8	2.571	2
Cleveland OH	0.287	9	1.618	11
St. Louis MO-IL	0.282	10	1.559	17







Montreal



# Canada: Longest Motorway Length

## RIVIERE-DU-LOUP TO WINDSOR



1,325 km



# US Interstate Advantage for Canadians

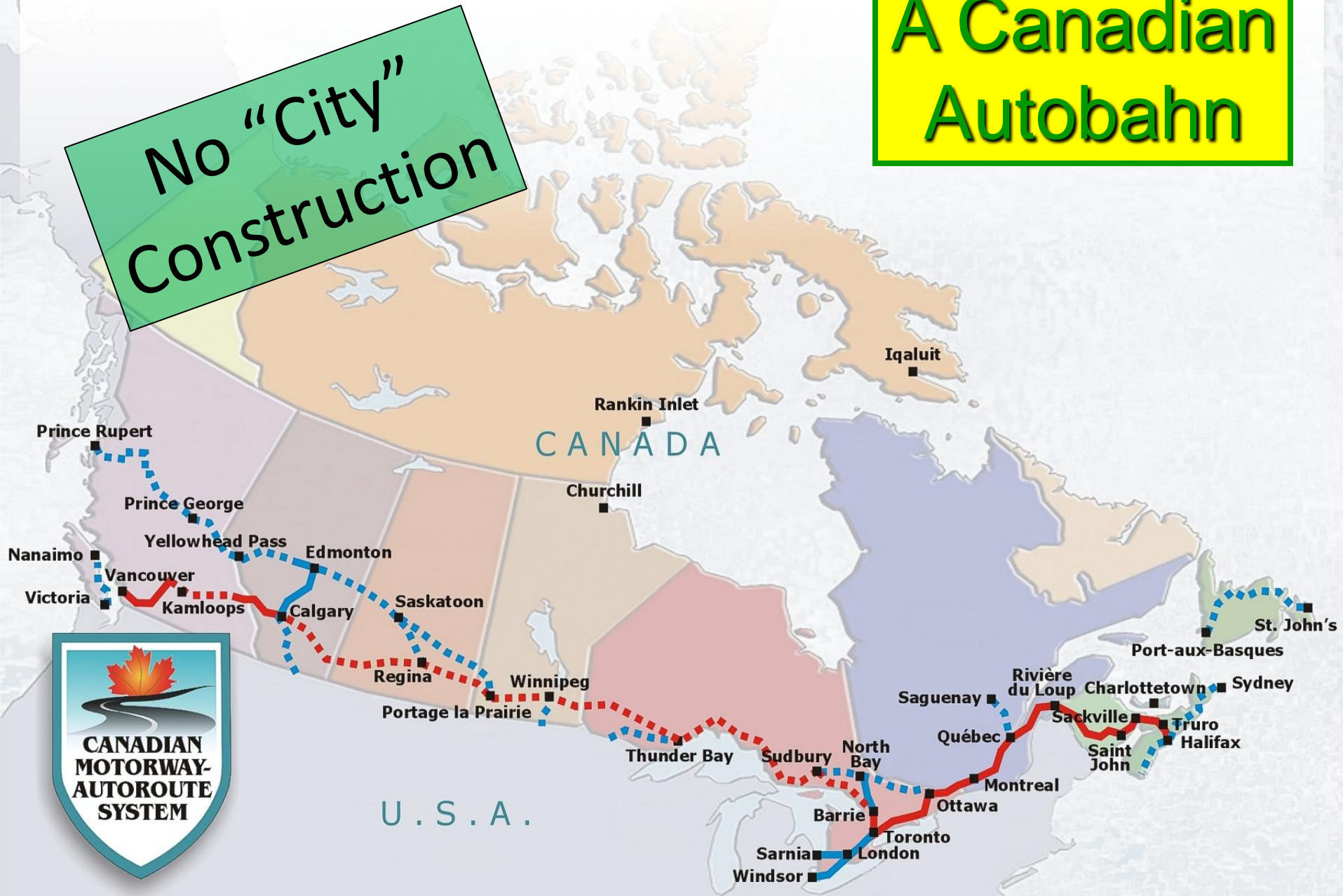
UN IPCC MAXIMUM RANGE PER METRIC TON





# A Canadian Autobahn

No "City"  
Construction







Transcontinental Motorway

Halifax to Vancouver

Additional Routes (Pre-motorways)

Existing Motorways

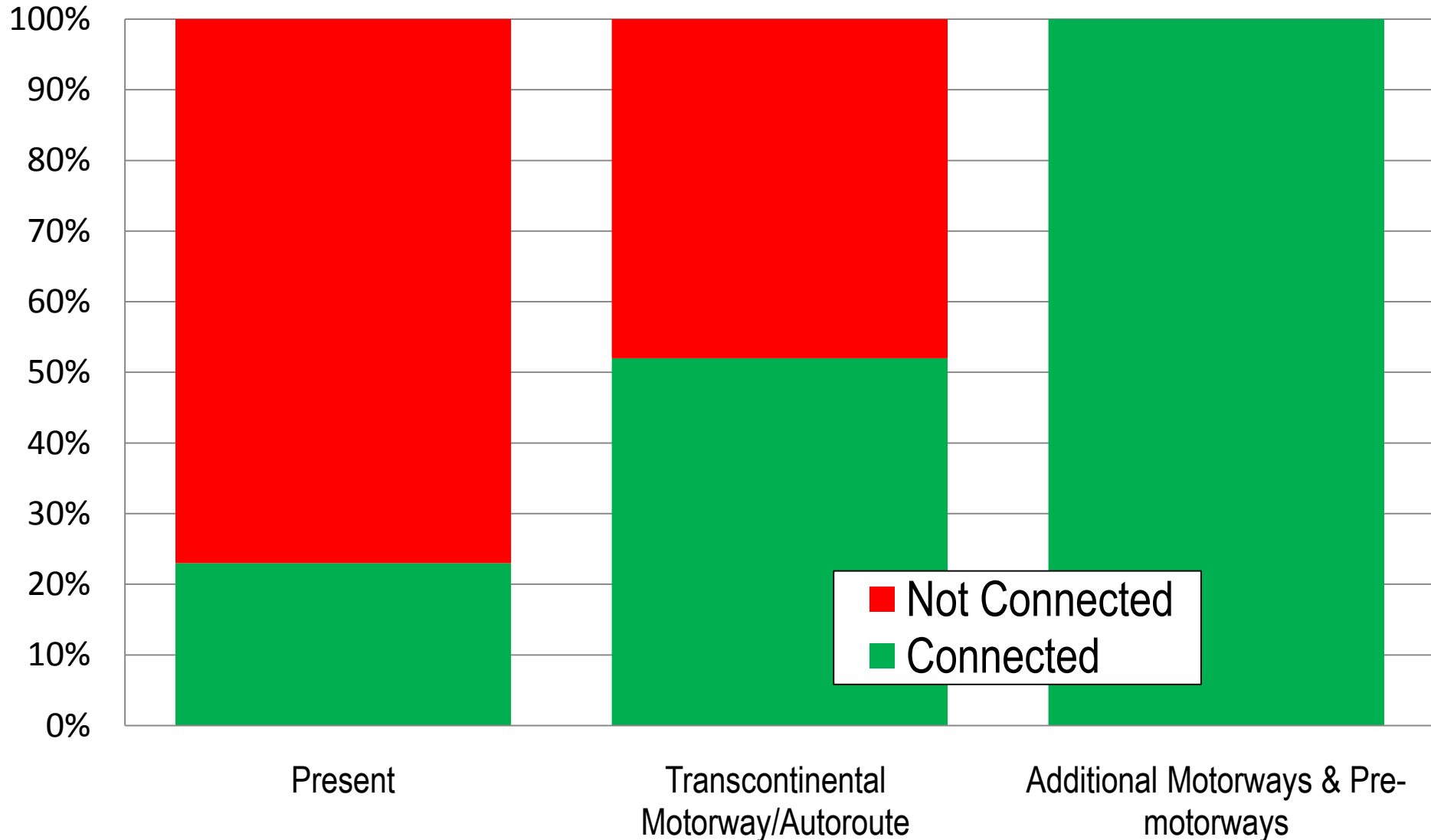
A Canadian Autobahn  
COMPONENTS

From Canmore



# Connections: All 33 Metropolitan Areas

## CANADIAN MOTORWAY & AUTOROUTE SYSTEM



# Transcontinental Motorway







CAUTION  
REPAIRS

**Halifax**



Montreal





Toronto





***Thunder Bay***





Winnipeg



*Regina*





Calgary



*Between Golden & Yoho National Park*



The Best Place on Earth

Highway 1 Corridor

KEEPING  
THE ECONOMY MOVING

Kamloops to Alberta Border  
4 Lane Upgrade

BRITISH COLUMBIA  
The Best Place on Earth

USE  
SEAT  
COMF  
BRIT

STOP



Golden, BC





*Vancouver*

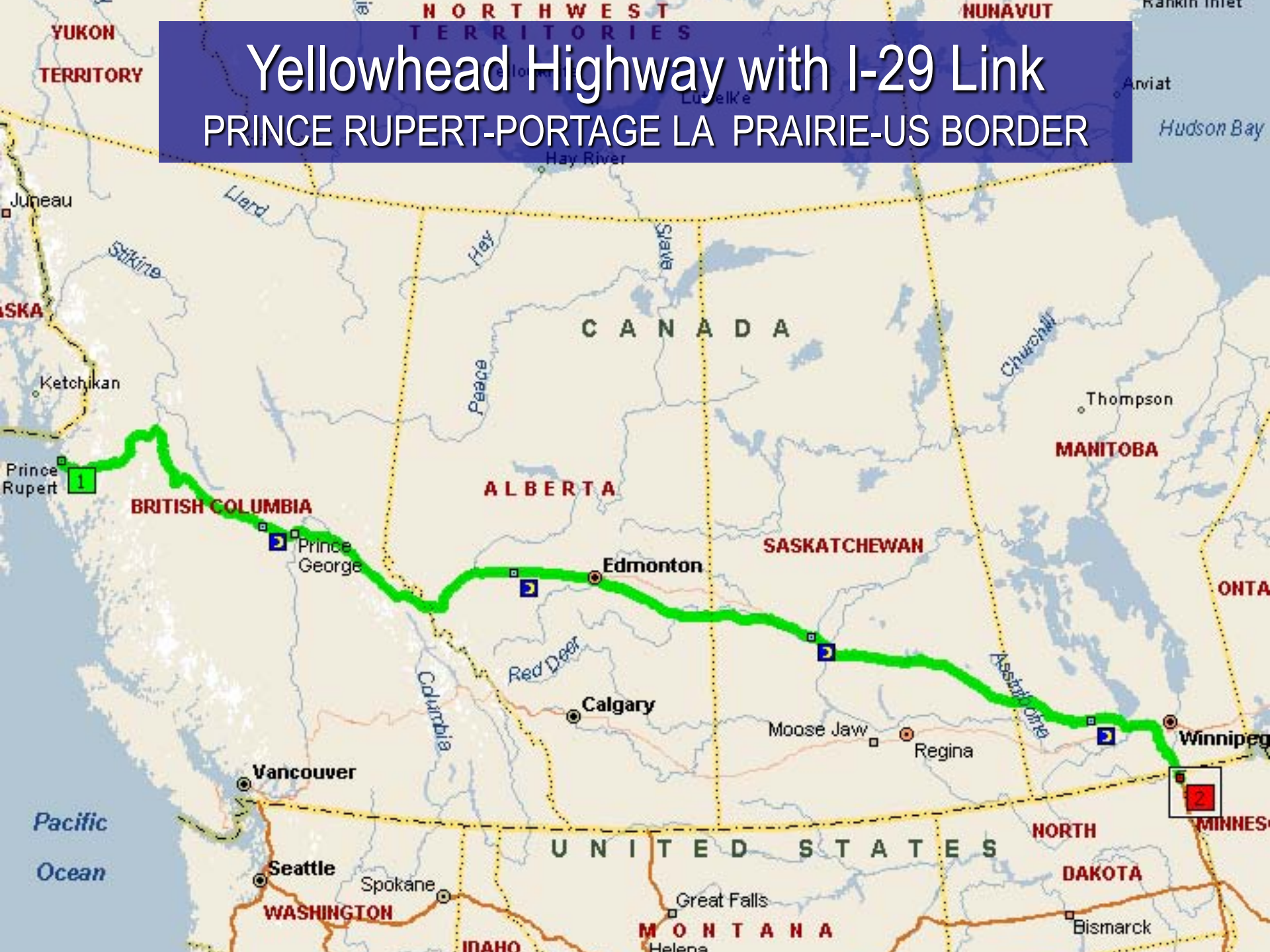


# New Pre-motorways



# Yellowhead Highway with I-29 Link

PRINCE RUPERT-PORTAGE LA PRAIRIE-US BORDER





Opportunity:  
Prince Rupert  
Superport

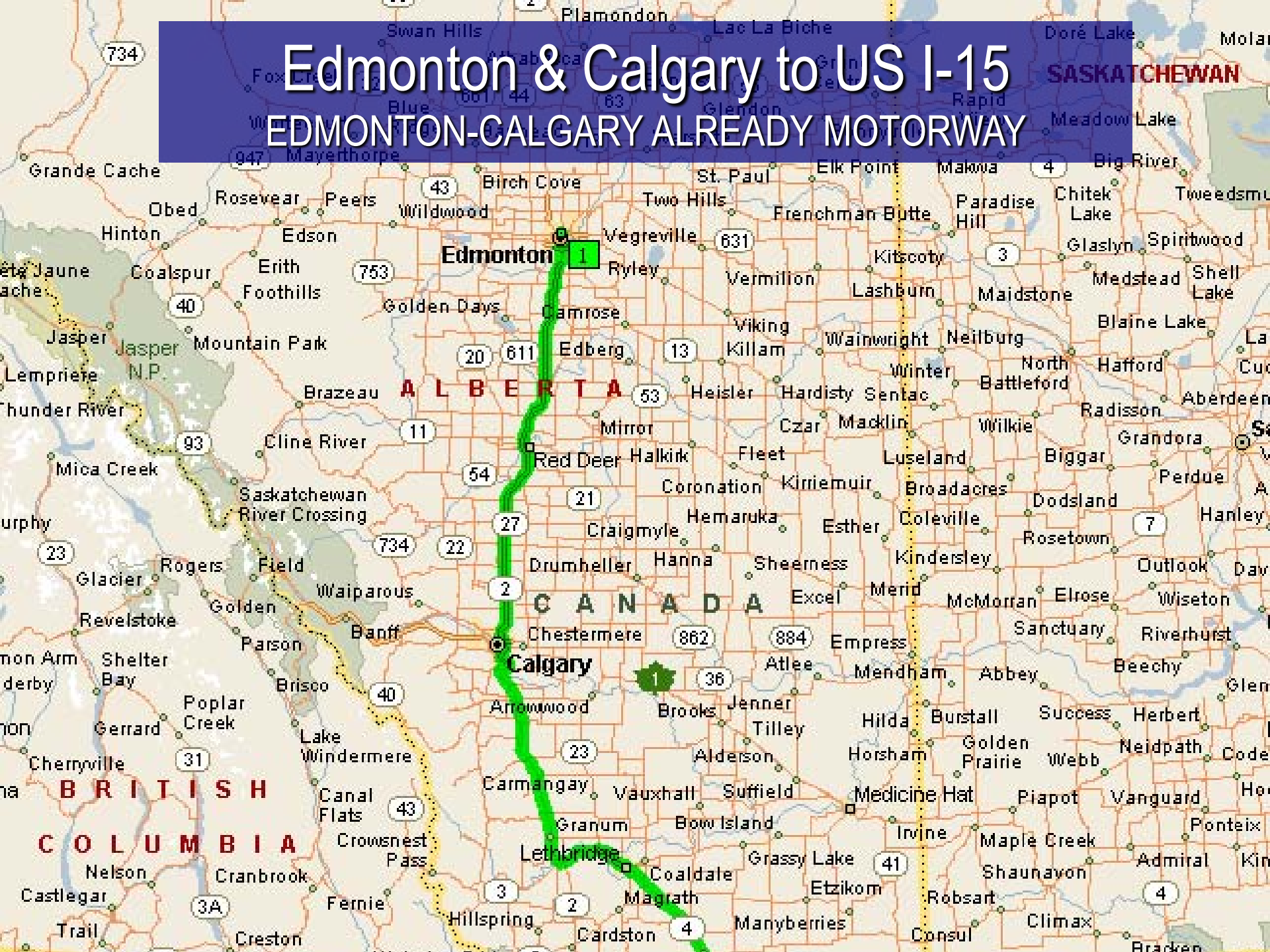


PORT OF PRINCE RUPERT

Welcome to Canada's Leading Edge

# Edmonton & Calgary to US I-15

## EDMONTON-CALGARY ALREADY MOTORWAY





# Saskatoon to Regina YELLOWHEAD CONNECTION



# Ottawa to Sudbury

## BETTER TRUCK ACCESS FROM QC & ATLANTICS





# Nova Scotia & Trans-Newfoundland USES EXISTING FERRY CROSSING



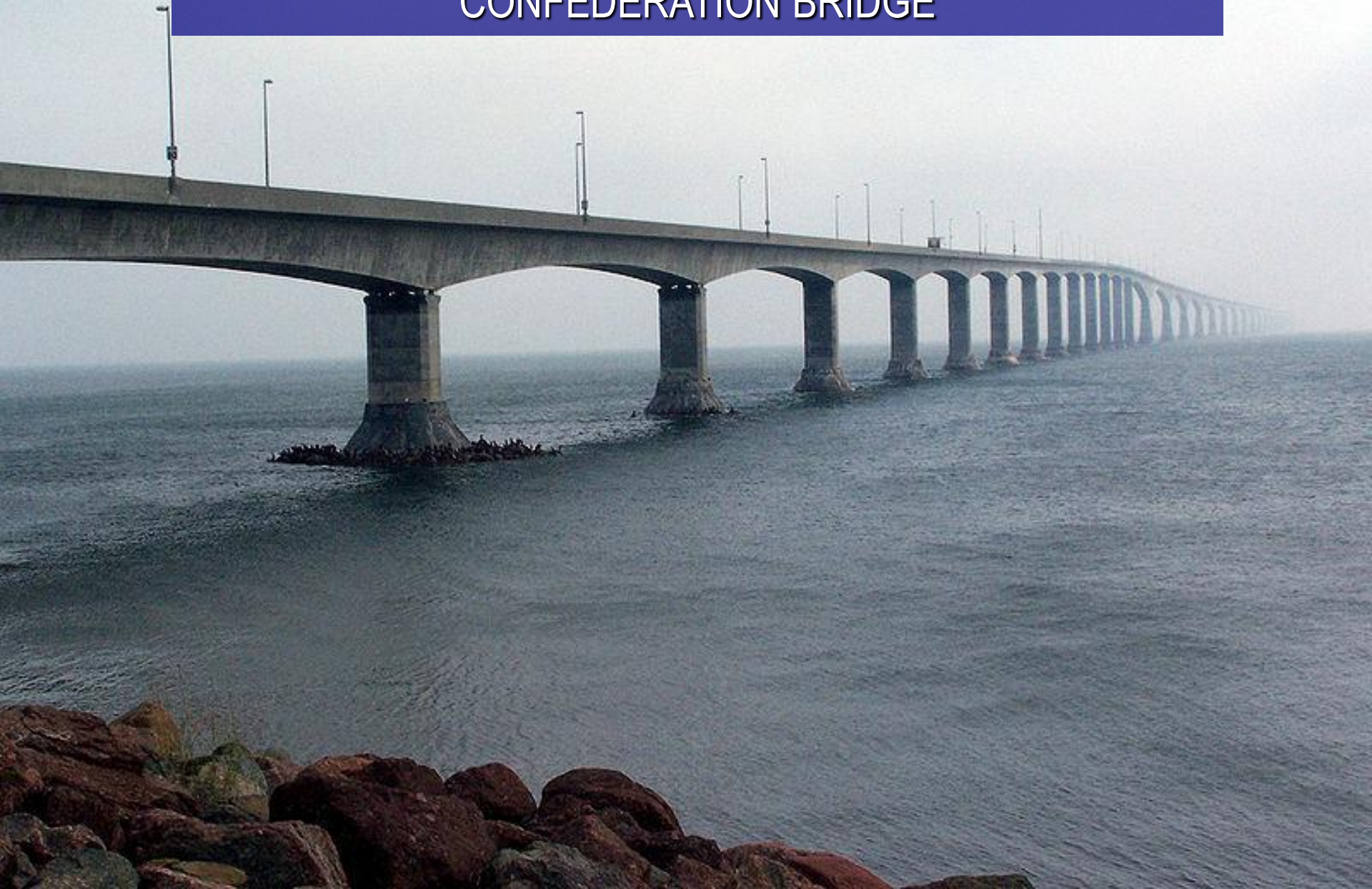


*Province House, Charlottetown (PEI)*



# Charlottetown to Sackville

## CONFEDERATION BRIDGE



# Hangzhou Bay Bridge: 36 KM

LONGEST OCEAN CROSSING IN THE WORLD

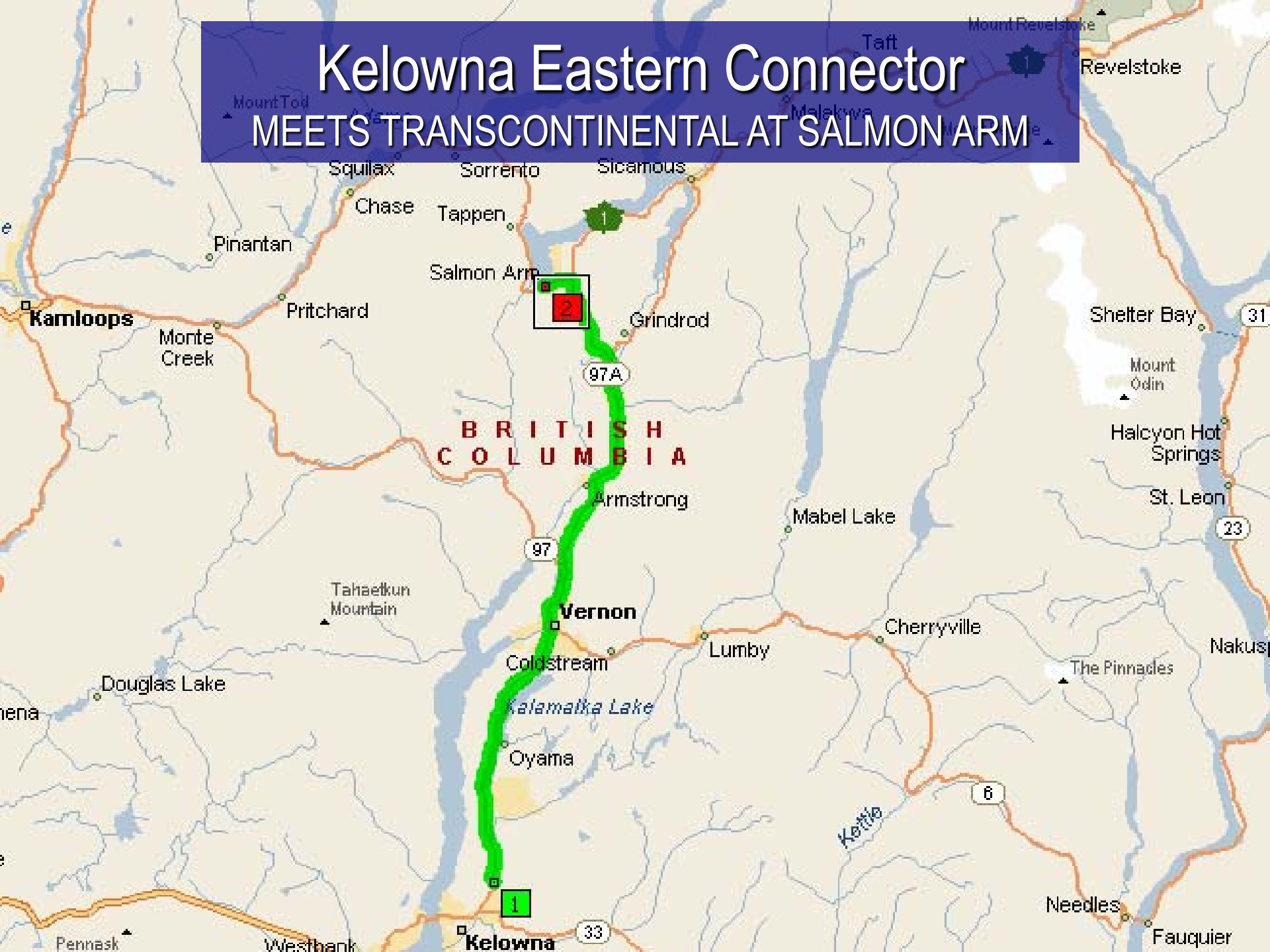
Mount-Blanc  
& Taiwan  
Examples

Hangzhou Bay Bridge





# Kelowna Eastern Connector MEETS TRANSCONTINENTAL AT SALMON ARM



# Existing Motorways







# Queen Elizabeth Way OLDEST INTERCITY FREEWAY IN NORTH AMERICA?





# The North: Development & Sovereignty





**INUVIK**

**CALGARY**





# Costs & Finance



**Bank of Canada-Ottawa**



# Cost Effectives of Motorways

EXAMPLE: NEW LANE: CALGARY-EDMONTON

- \$0.6 Billion: Motorway
- \$3.4 High Speed Rail

*Near Scott Lake Hill*



\$28B - Transcontinental Motorway

\$33.5B - Pre-motorways





# Financing the Canadian Autobahn

## ALTERNATIVES

-User fees

Gasoline taxes

Tolls

Public private partnerships

Arms length agencies

Federal and provincial funding





# DEMOGRAPHIA

