

# **Canadian Infrastructure**

#### **CanaData**

**Construction Industry Forecast Conference** 

September 2015 – Toronto, Ontario

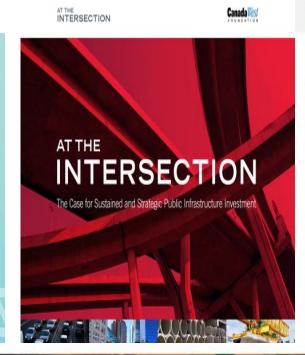


# Infrastructure and Canada's Economy

- Sustained infrastructure investment is essential to maintaining Canada's future prosperity and quality of life;
- Investments in infrastructure increase productivity;
- If trade is the oxygen of the Canadian economy then infrastructure is the lungs!



The Economic Benefits of Public Infrastructure Spending in Canada







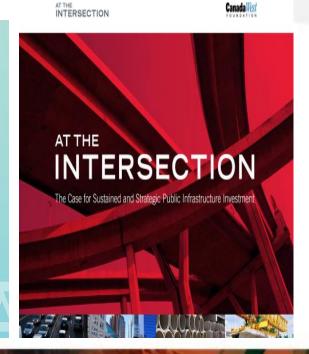
# **Infrastructure and Canada's Economy**

In the short term for every dollar invested in infrastructure GDP increases by \$1.43 and over the long term the discounted present value of GDP generated per dollar of public infrastructure spending or return on investment lies between

\$2.46 and \$3.83.



The Economic Benefits of Public Infrastructure Spending in Canada







#### Infrastructure and Canada

# Canada Confederation



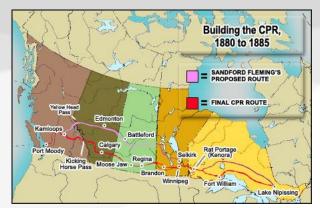
The Fathers of Confederation

- Infrastructure instrumental to the founding of Canada
- Promise of Eastern rail link helped bring about Confederation with Eastern colonies
  - Intercolonial Railway connecting Quebec City to Halifax
- Rail link between the East and the West instrumental to BC's entry and populating the West
  - Transcontinental Railway

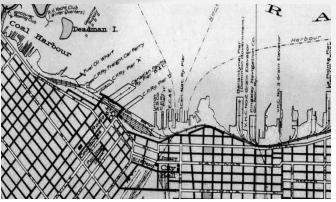


#### **Historical Federal Investments in Infrastructure**

Transcontinental Railway – 1880

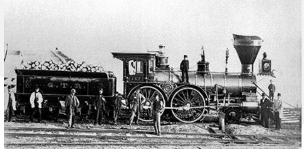


Port of Vancouver- 1923



St. Lawrence Seaway - 1954

Canadian National Railway – 1919 to 1922



Trans-Canada Highway System - 1950

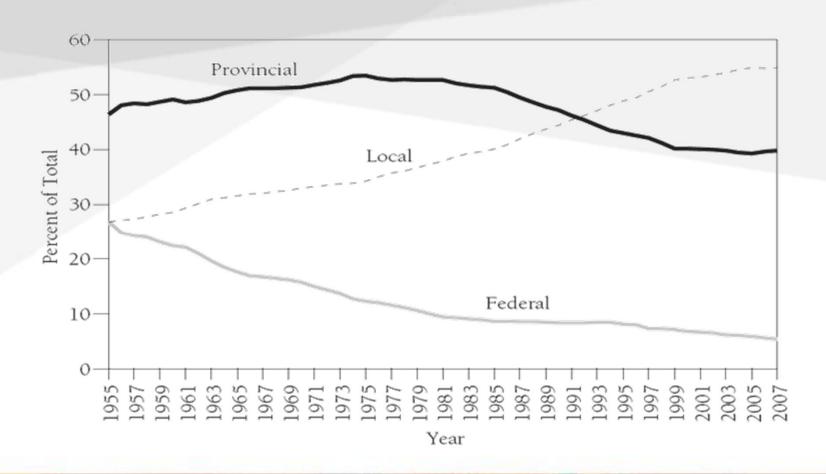


**Airports** 





# Trend – Custodial Responsibility Shifting to Local Levels – Ownership 1955 -2007



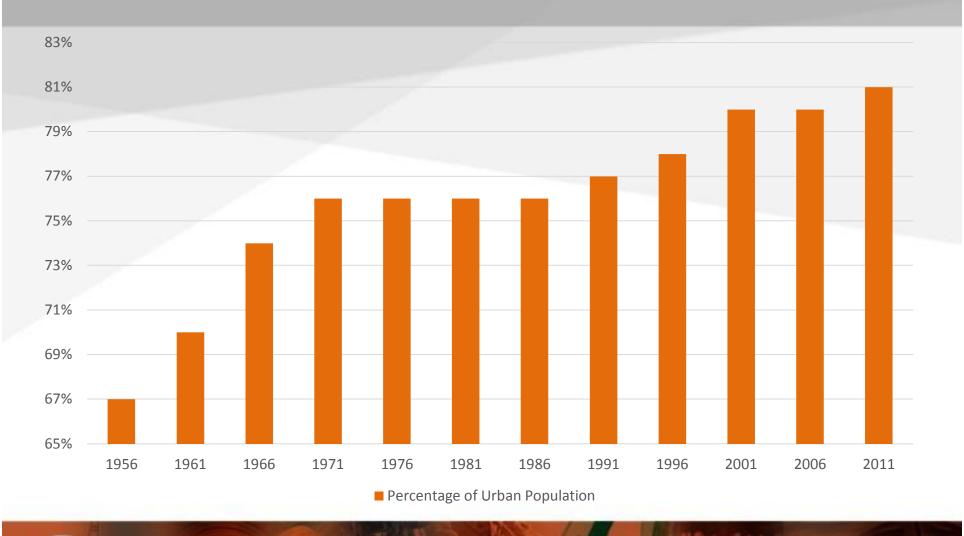


#### **Custodial Shift - Privatization**

- Railways (Publicly Traded)
  - CN privatized in 1995
- Airlines (Publicly Traded)
  - Air Canada privatized in 1988
- Airports (Not-for-profits)
  - Vancouver International Airport 1992
  - Others followed soon after
- Ports (Not-for-profits)
  - Canada Marine Act 1998

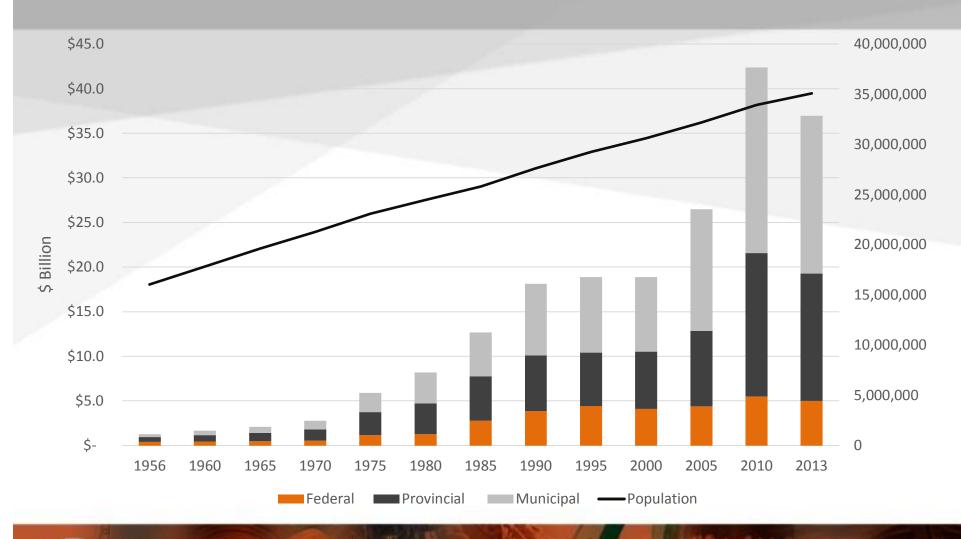


#### The Custodial Shift - Urbanization





#### The Shift - Public Capital Spending and Population Growth

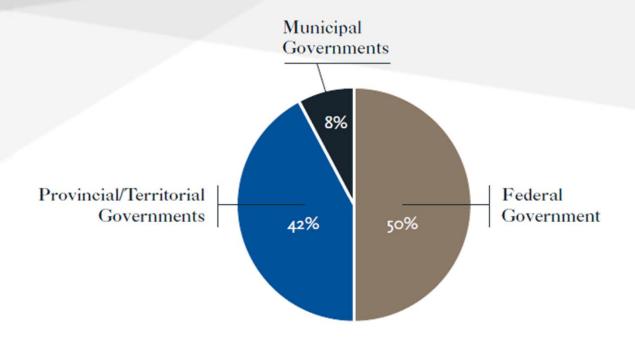




#### The Shift – To Level Least Positioned to Generate Revenue?

Can Municipalities Fund Infrastructure Renewal on Their Own?

Municipal Government Share of All Tax Revenues

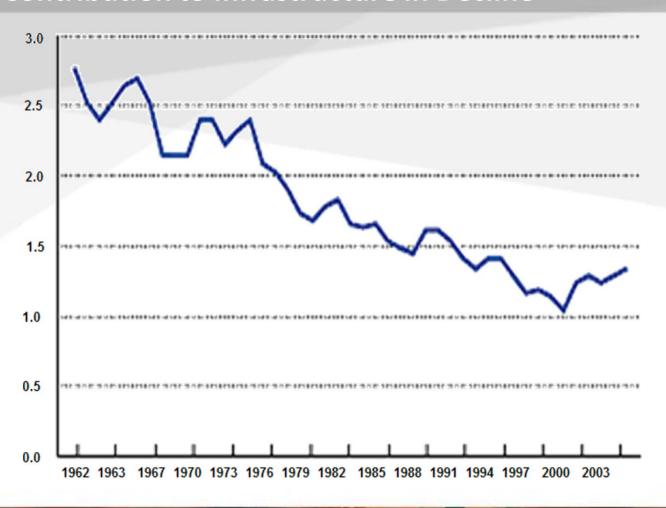


Municipal governments receive less than 10 per cent of existing revenues.



# **Current Facts and Trends**

#### **Federal Contribution to Infrastructure in Decline**



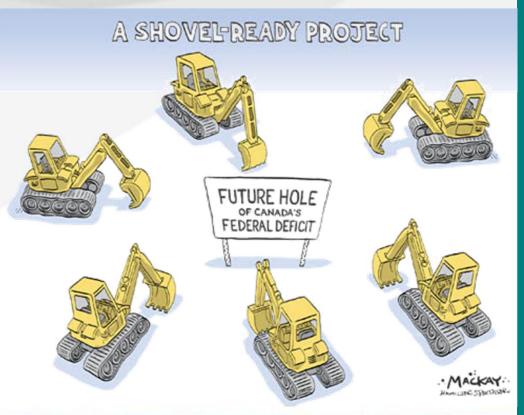


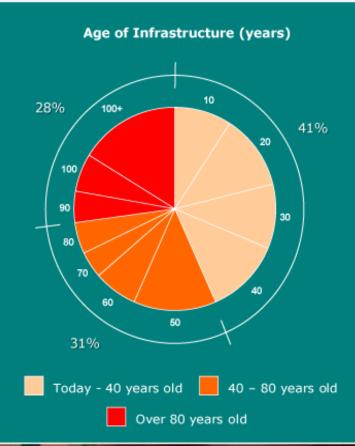
#### **Current Facts and Trends**

**Capital Spending Often Cut in Times of Fiscal Restraint** 

Is this changing? This past tendency directly contributed to

Canada's infrastructure deficit.

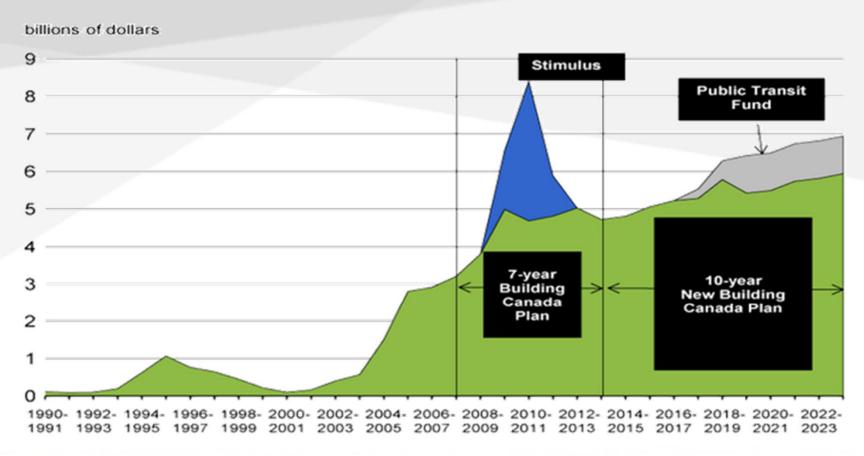






#### **Federal Infrastructure Investment**

Funding for Provincial-territorial and Municipal Infrastructure





#### **New Building Canada Plan**





#### Community Improvement Fund

\$32 billion over 10 years

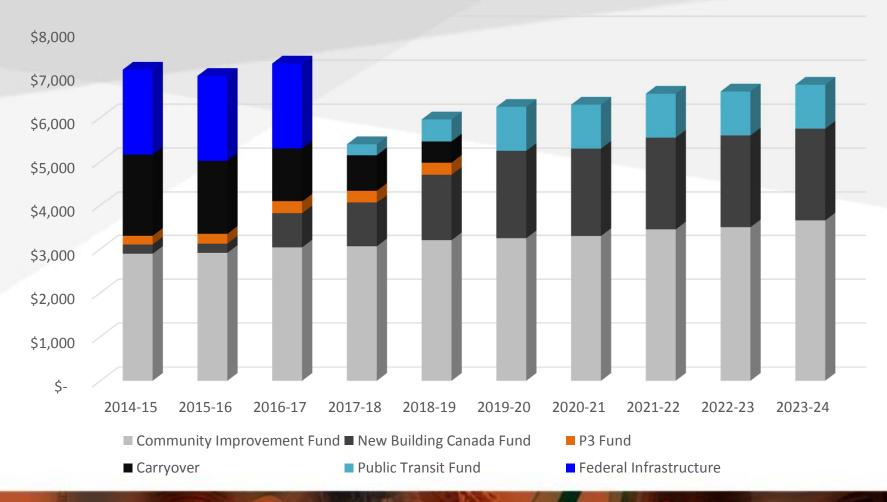
#### New Building Canada Fund

- \$4-billion National Infrastructure Component
- \$9-billion Provincial-Territorial Infrastructure Component
- \$1-billion for Communities with less than 100,000 residents

#### Public-Private Partnership Canada Fund

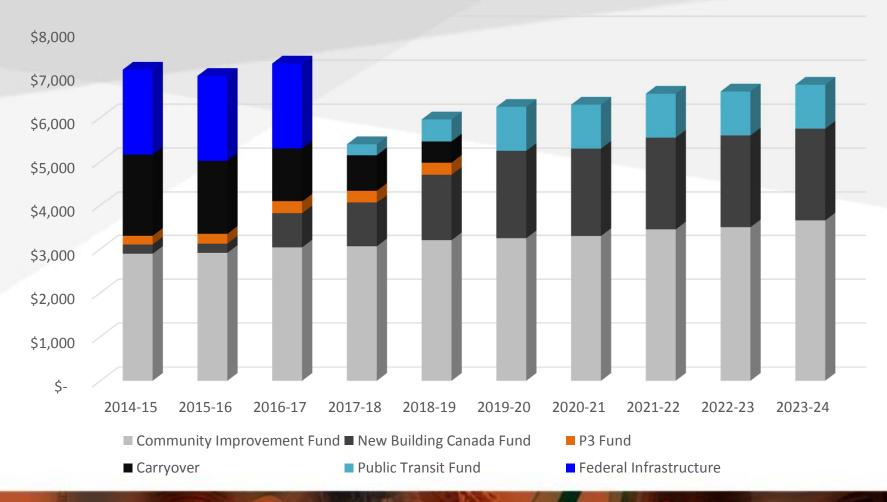
- \$1.25 billion over 5 years
- Carryover from previous program (BCP)
  - \$6 billion

### **New Building Canada Plan**



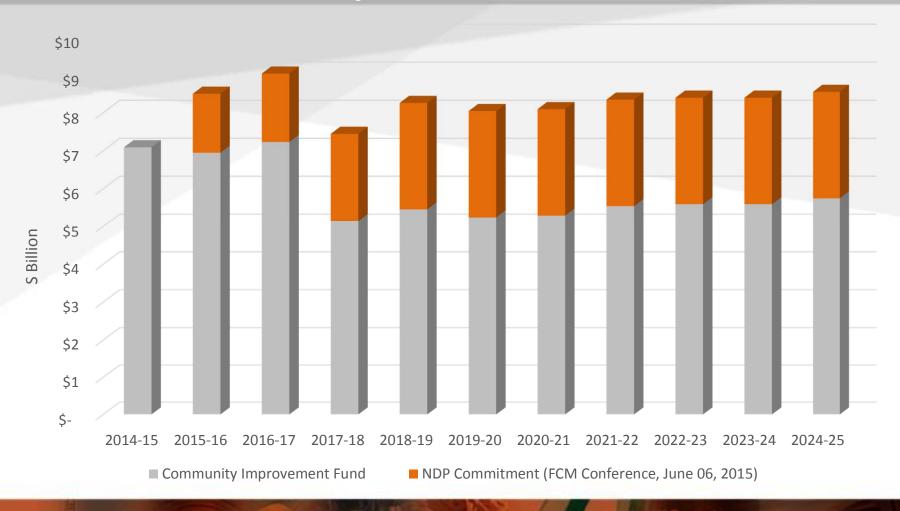


### **New Building Canada Plan**



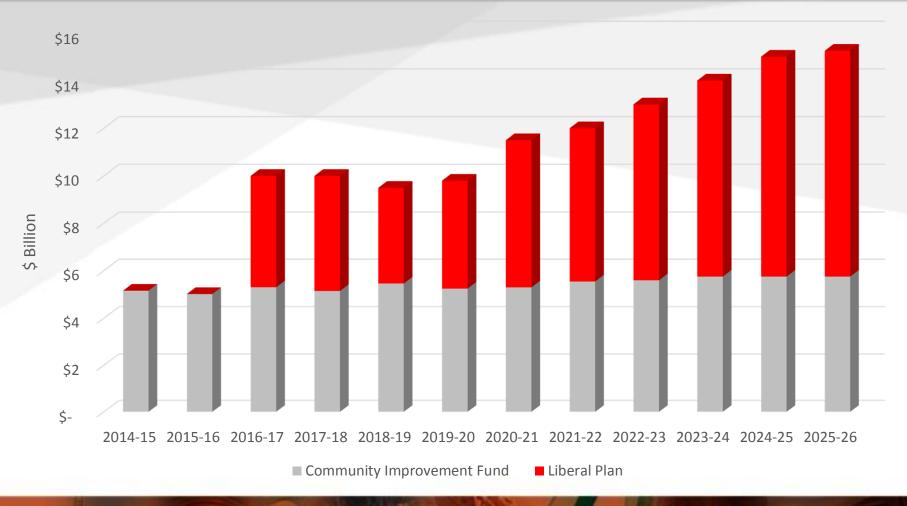


### **New Democratic Party**





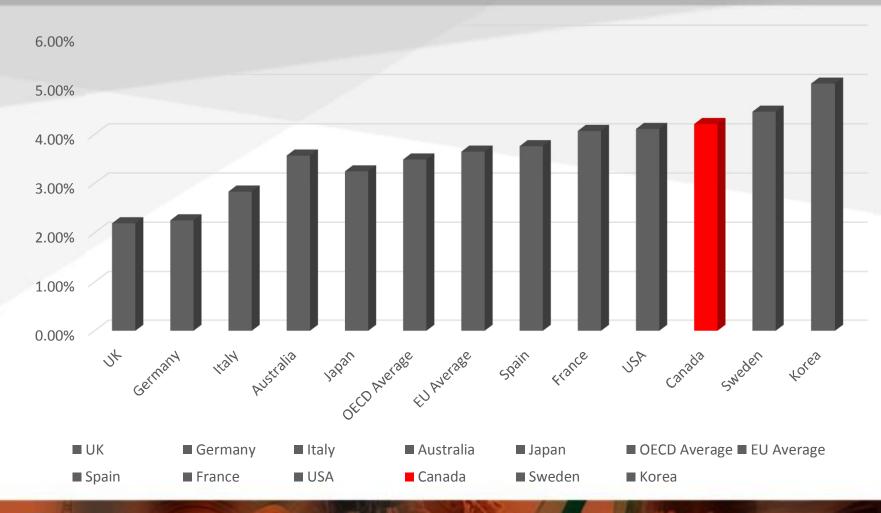
### **Liberal Party of Canada**





#### Infrastructure Investment

#### Where Canada Ranks in the OECD





# **Canadian Infrastructure Report Card (2012)**

#### What Is It?

- First Canadian attempt to quantify the infrastructure challenge.
- Data drawn from responses received from 123 municipalities across Canada.
- Project Objectives:
  - Repeatable
  - Defendable
  - Raise Awareness
  - Factual



# **Canadian Infrastructure Report Card 2012**

#### **About the Ratings**

- Very Good Fit for the Future (80% or higher)
- Good Adequate for Now (70% to 80%)
- Fair Requires Attention (60% to 69%)
- Poor At Risk (50% to 59%)
- Very Poor Unfit for Sustained Service (50% or less)



# **Canadian Infrastructure Report Card (2012)**

#### Results



15.4%

#### DRINKING WATER

GOOD, ADEQUATE FOR NOW

15.4 percent of drinking water pipes rank fair or below

Replacement cost - \$25.9 billion or \$2,082 per household in Canada



30.1%

#### WASTEWATER

GOOD, ADEQUATE FOR NOW

30.1 percent wastewater pipes rank fair or below

Replacement cost - \$39 billion or \$3,136 per household in Canada



23.4%

#### STORM WATER

VERY GOOD, FIT FOR THE FUTURE

23.4 percent of stormwater pipes rank fair or below

Replacement cost - \$15.8 billion or \$1,270 per household in Canada



52.6%

#### MUNICIPAL ROADS

FAIR, REQUIRES ATTENTION

52.6 percent of municipal roads rank fair or below

Replacement cost - \$91.1 billion or \$7,325 per household in Canada

NOTE: "REPLACEMENT COST" MEANS HOW MUCH IT WOULD COST TO BRING ALL OF THE INFRASTRUCTURE AT FAIR OR BELOW UP TO "GOOD" CONDITION



**Source: Canadian Infrastructure Report Card 2012** 

# **Canadian Infrastructure Report Card 2012**

#### The Results

- The replacement cost for assets rated fair or below was \$171.8 billion.
- Municipal roads Replacement cost estimated at \$91.1 billion or \$7,325 per Canadian household.
- Wastewater infrastructure Replacement cost estimated at \$39 billion or \$3,136 per Canadian household.
- Drinking-water infrastructure Replacement cost estimated at \$25.9 billion or \$2,082 per Canadian household.
- Storm water infrastructure Replacement cost estimated at \$15.8 billion or \$1,270 per Canadian household.



# **Canadian Infrastructure Report Card**

#### What We Learned from CIRC 2012

- Many municipalities do not have accurate information regarding the condition of their infrastructure assets.
- The situation is particularly acute within small and rural municipalities.
- Finite financial resources and limited staff time preclude a much more thorough, real-time evaluation of the state and performance of their physical infrastructure.



# The Municipal Infrastructure Forum

### Principles for Federal Long-term Infrastructure Plans

- 1. Secure, stable investments Certainty and predictability key.
- 2. Supporting economic growth.
- 3. Flexibility: Keeping communities large and small strong.
- 4. A balanced approach with smart partnerships.
- 5. Building municipal capacity Federal investments must help build municipal capacity to plan, build and maintain their infrastructure over the long term.



# The Five Myths of Canadian Infrastructure

Todd Latham, Founder of Renew Canada

- 1. We are doing better than other countries;
- 2. It is all about roads and bridges;
- 3. The Canadian public understands:

"Taxpayers support infrastructure renewal as long as it creates new jobs, doesn't increase their taxes and does not require user-pay structures or special municipal levies to pay for it. The party is over: citizens need to wake up and realize that quality of life is not free."

- Local governments are looking long term; and
- 5. There is little we can do about climate change.







# The New Public Policy Milieu

Infrastructure investment is not the sole domain of any one level of government in Canada and must be a priority focus for all.

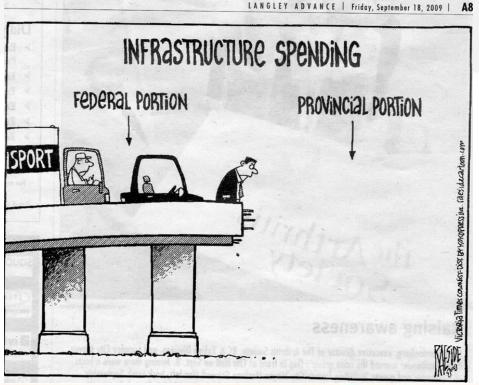




# The New Public Policy Milieu

The inability of governments in Canada to plan long term necessitates the formation of partnerships with the private

sector.





# **Future Needs**

# Trade-enabling Infrastructure













# **Future Needs**

# Trade-enabling Infrastructure













# The New Public Policy Milieu

- 3. Balancing government budgets by neglecting infrastructure is "borrowing" dangerously from our future! A series of financing options must be explored so that prudent fiscal planning and prudent infrastructure management are not perceived nor in fact mutually exclusive.
- 4. Governments must abandon the short term annual deficit/surplus fixation and instead adopt prudent policies that seek to meet longer term Debt/GDP targets.





# The New Public Policy Milieu

5. Canadians must learn that "state-of-the-art" public infrastructure that supports a healthy, environmentally friendly and prosperous quality of life is NOT free and that they as taxpayers may ultimately have to pay more.







# **THANK YOU**

**Questions?** 

