

Part 1

**SUSTAINABLE
INFRASTRUCTURE
STATE OF
PRACTICE
IN CANADA**

Reg Andres

Reviewing global
sustainability with
current infrastructure
management practice

Part 2

**NEW
PERSPECTIVES
FOR
SUSTAINABILITY**

**STATE OF PRACTICE
IN CANADA**

**PSAB 3150
City of
Fredericton
Murray Jamer**

Part 3

**RESPONSE
TO NEW
PERSPECTIVES**

Discussion of
how to apply this
for infrastructure
managers and
community leaders

community leaders
managers and
for infrastructure
how to apply

City of Fredericton

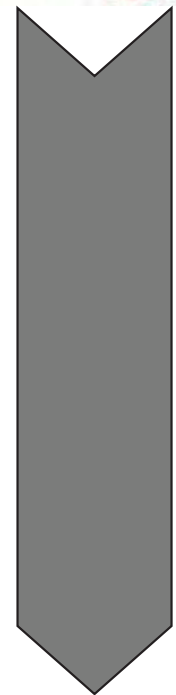


Engineering and Public Works

- our journey over the past 10 years...

- *ISO 9001* →
- *Strong corporate team / strong departmental team*
- *Corporate / departmental focus on “green” issues – sustainability*
- *Emerging focus on infrastructure renewal*

City of Fredericton



2008 Fredericton initiated **PSAB 3150** :

- *Inventory and valuation of tangible capital assets* ▶
- *Corporate PSAB project coordinated by Finance Department*
- *It's a big job! GIS / good records helped a lot*
- *PSAB compliant - 2009*



National Guide to Sustainable
Municipal Infrastructure

City of Fredericton



Immediate outcomes of the PSAB exercise :

- *Strengthened professional relationship with Finance Department*
- *Finance created long-range financial plan* →
- *Infrastructure deficit identified (quantified)*
- *Improved Council's understanding of total financial picture*
- *Established importance of funding infrastructure renewal*

City of Fredericton



Long term implications of PSAB exercise :

- *Foundation now established for improved asset management*
- *Existing infrastructure now a corporate focus* →
- *Tie-in with City's overall sustainability initiative (Green Matters)*
- *Provides context for strategic plans / tactical plans and operational plans*

City of Fredericton... what's next?

Corporate...

- *Investigative affirmation of PSAB valuations*
- *Assess supporting technologies - Asset accounting and asset management systems (software), work order system, etc*
- *Calculate maintenance deficit with infrastructure deficit*
- *Engage Council in discussions on “level of service”*



Engineering and Public Works Department...

- *Close cooperation with Finance Department on asset management*
- *Incorporate risk analysis and cost / benefit in priority setting*
- *Coordination of water / wastewater with street work*

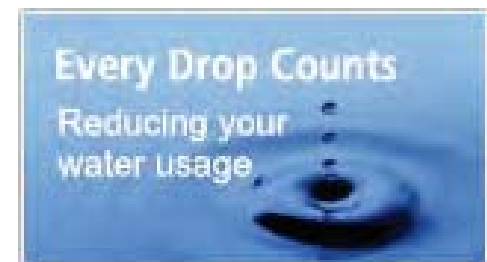
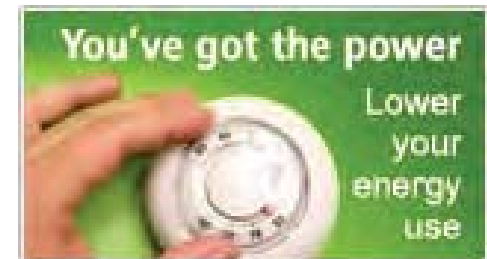
City of Fredericton – community green action plan



An active community program to do our part in reducing energy consumption and GHG emissions

- **New emphasis on “sustainability”**
- The role and relationship of infrastructure in the global “sustainability” picture is an important question.

We need to figure out what this means for Fredericton!



What have we learned?

1. Economic / financial sustainability

...what about affordability?

2. Environmental sustainability

...are we making a difference?

3. Social Sustainability

- durability & adaptability for climate change and LCA
- infrastructure is about “service” for the public

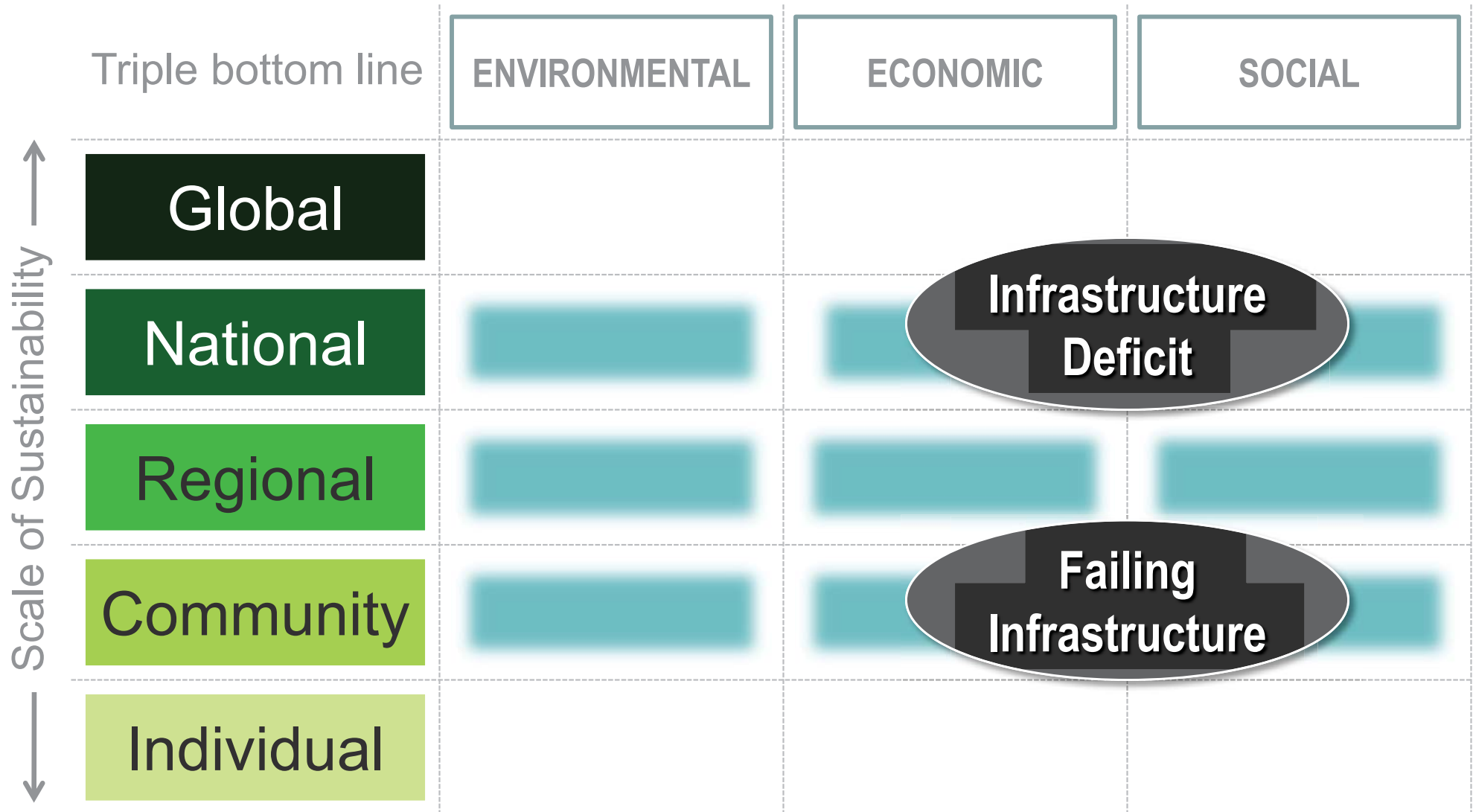
GLOBAL SUSTAINABILITY



INFRASTRUCTURE



Where is infrastructure in the sustainability framework?



Connection between global sustainability and infrastructure... **still a fuzzy picture!**

