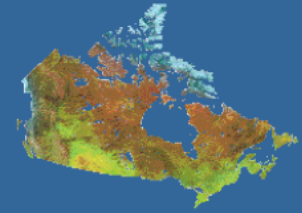


Climate Adaptation Futures  
June 29 – July 1 2010



# Local and Large Scale Approaches to Adaptation in Canada

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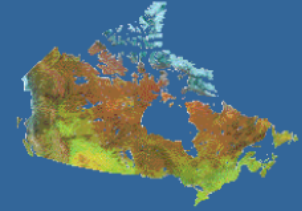


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# A Little History...

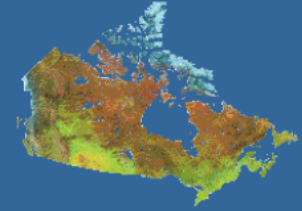


## 1998 - 2008 Focus on research

- > 300 impacts & adaptation research projects to fill key gaps
- required projects to involve decision-makers and stakeholders
- supported network to better link researchers and decision-makers.
- *From Impacts to Adaptation: Canada in a Changing Climate* - national scale scientific assessment, with a regional focus



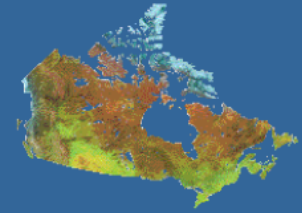
# Community Adaptation: lessons from the CCIAP projects



- Smaller communities – lack of time and capacity
- Larger communities – complexity of engagement
- Data - not always easily available or usable
- Turn over in personnel (corporate memory) can affect adaptive capacity
- Adaptation to climate change is just one of many issues facing communities
- Adaptation does not occur in response to climate change alone
- Unfamiliar terminology can be a barrier
- There are levers and barriers managed by other levels of government



# National Climate Change Adaptation Benchmark Survey



- To establish a benchmark against which progress on adaptation outcomes can be measured
- Targetted at municipal, provincial & business decision-makers
- Interviews conducted Oct 7 to Nov 13 2009

## Some results:

- Majority say climate change is happening now
- Of business respondents who say CC is a reality, 7 in 10 say climate change will have an impact on their organization.
- Serious but not most significant challenge
- Understand impacts but less so adaptation

Survey is available at [www.porr-rrp.gc.ca](http://www.porr-rrp.gc.ca)

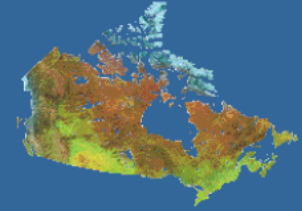


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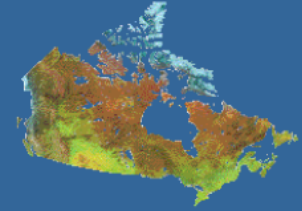
# Tools for Adaptation



- To ensure that tools used in decision-making are suitable for use in a changing climate
- Approach:
  - work with national organizations
  - assess current tools, amend if required, create new tools where gaps exist, disseminate and train
  - work with practitioners to increase their capacity
- Communities and infrastructure
  - Risk Management Guide
  - Guidance for economic analysis
  - Planning tools
  - ICLEI Canada Adaptation Guide for Local Governments



# Canada's engineers are adapting



## PIEVC

Public Infrastructure Engineering Vulnerability Committee

*Adapting infrastructure  
to a changing climate*

- Led by Engineers Canada
- Established the Public Infrastructure Engineering Vulnerability Committee (PIEVC)
- Created an Engineering Protocol
- Will apply the protocol in 20 case studies by 2012
- Train engineers in its use
- Share knowledge through seminars, webinars and a website
- Could lead to changes in practices and standards

[www.pievc.ca](http://www.pievc.ca)

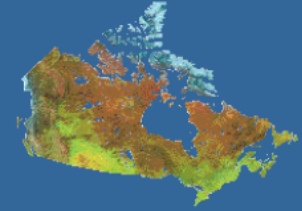


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# Canada's planners are adapting



- Led by the Canadian Institute of Planners
- To increase the capacity of the Canadian planning community to address adaptation in their work.

## Activities include:

- Assess existing planning tools for utility in a changing climate
- Training for planners - university & in-service
- Adaptation guidebook for rural communities
- Planning report card
- International Conference - Montreal Oct 2-5, 2010

[www.planningforclimatechange.ca](http://www.planningforclimatechange.ca)

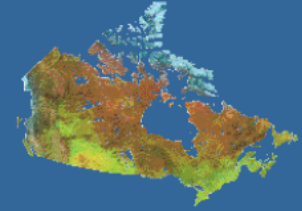


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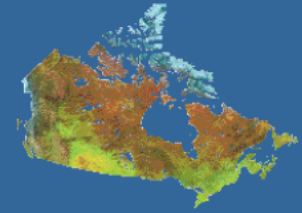
# Regional Adaptation Collaboratives



- 6 large scale, regional projects that focus on a few key regional adaptation issues (e.g. water, communities, coasts, forestry)
- Objective - to catalyze coordinated and sustained adaptation planning, decision-making and action
- Draws on significant foundation of adaptation knowledge and expertise among government and non-government decision-makers and technical experts across the country
- Encourage multi-jurisdictional collaboration - decision-makers from 3 or 4 levels of government, industry, academia, practitioners, NGOs
- Activities include: economic analysis, consultation, data mining, targeted research, policy analysis
- 3 year timeframe
- Does not support implementation stage



# Measuring whose success?



Engineering case studies of infrastructure risk from CC

New funding for infrastructure

Provincial infrastructure inventory initiatives

Updated climatology in national building codes

Insurance industry initiatives

National Round Table Sustainable Infrastructure

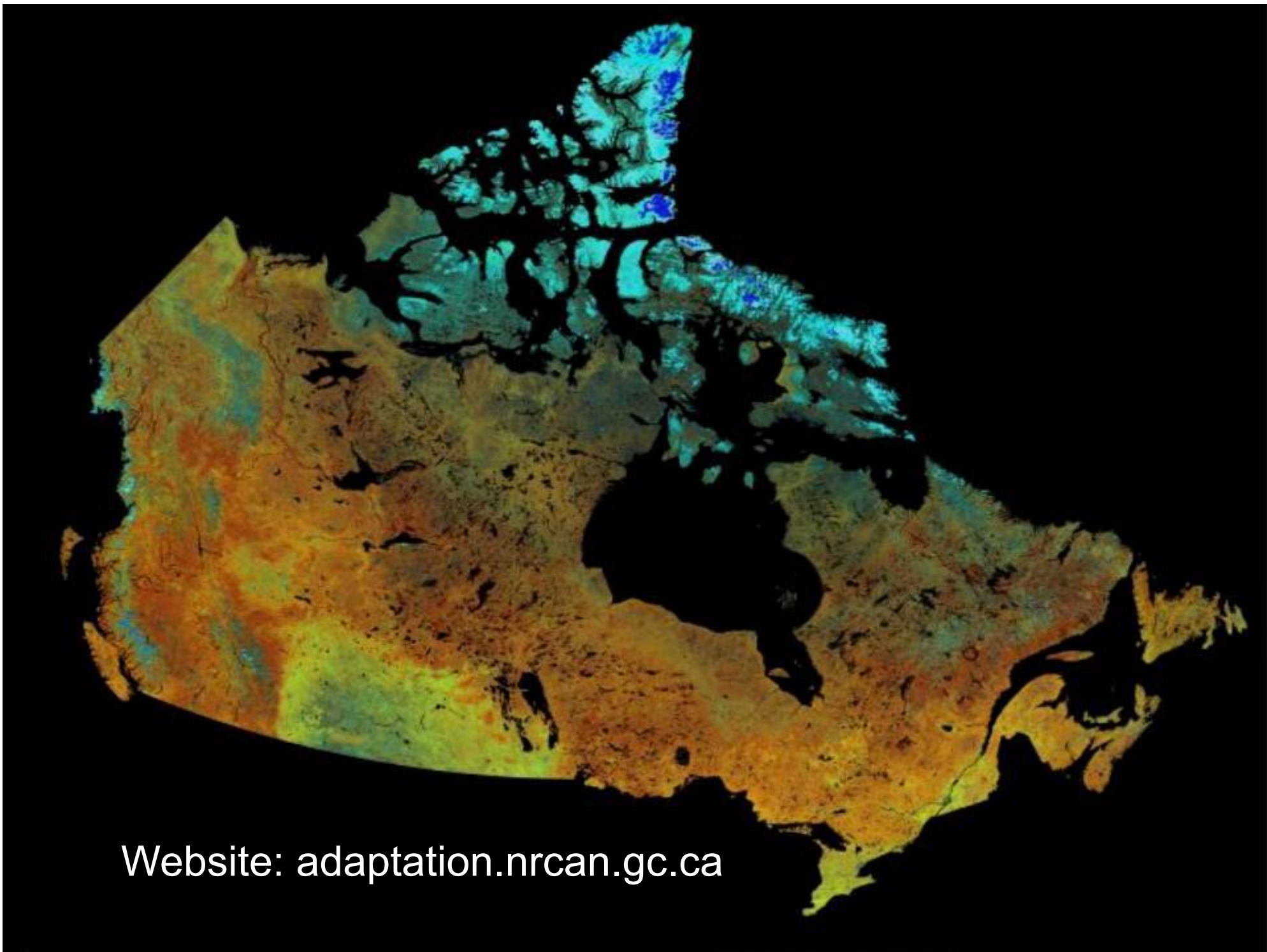
Changing engineering practices

National initiatives on infrastructure management

Training in CC tools

Well adapted infrastructure





Website: [adaptation.nrcan.gc.ca](http://adaptation.nrcan.gc.ca)