



Government
of Canada

Gouvernement
du Canada

Programme
sur les **IMPACTS** et
l'ADAPTATION aux
changements climatiques

Climate Change
IMPACTS and
ADAPTATION
Program

Canada 

Impacts & Adaptation Program 2001-06

Goals

- To better understand Canada's vulnerability to climate change
- To provide information for the development of adaptation strategies in regions or sectors where climate impacts currently a problem and where decisions taken now have long-term implications.

By

- Funding research & assessments
- Building capacity - C-CIARN & other initiatives
- Policy related activities

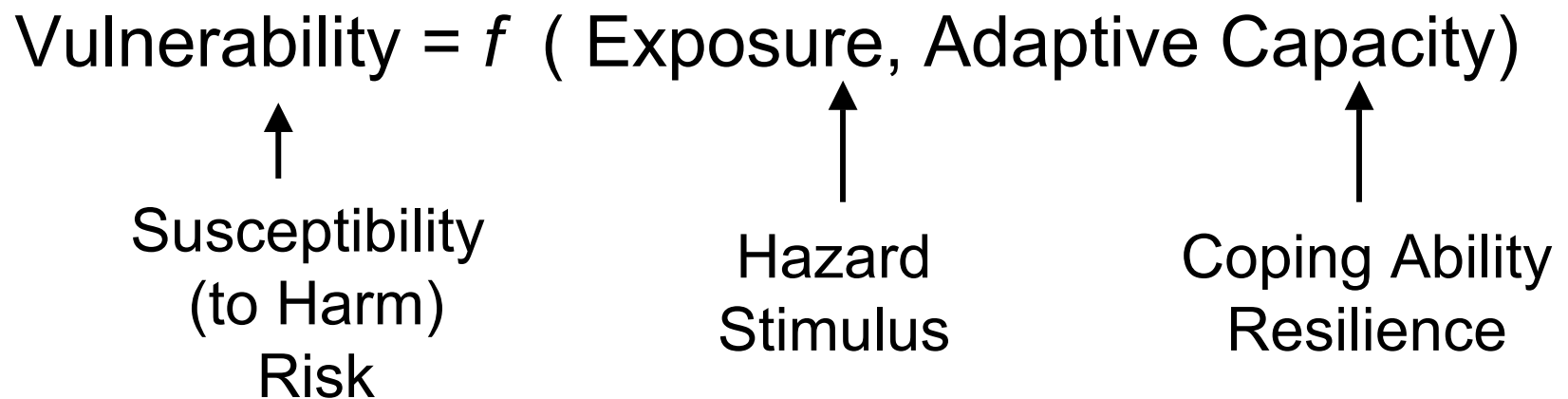
Climate Change Impacts and Adaptation Program

- provides funding for research and activities to improve our knowledge of Canada's vulnerability to climate change
- to better assess the risks and benefits posed by climate change
- to build the foundation upon which appropriate decisions on adaptation can be made

Vulnerability:

the degree to which a system is susceptible to, or unable to cope with, adverse effects of climate, including climate variability and extremes.

It is a function of the character, magnitude and rate of climate variation to which a system is exposed, its sensitivity, and its adaptive capacity.



Recent Communities Research Projects

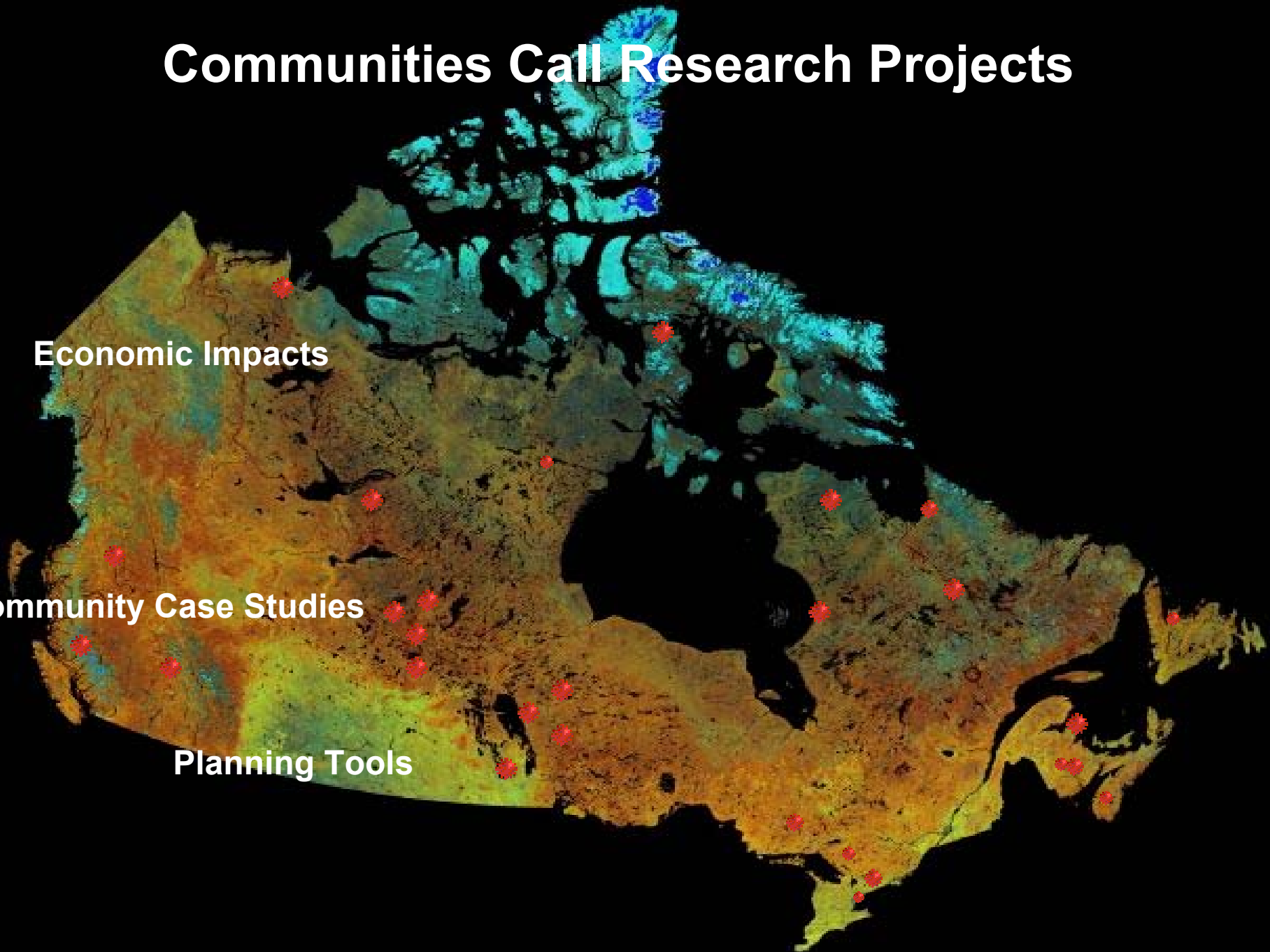


Communities Call Research Projects

Economic Impacts

Community Case Studies

Planning Tools

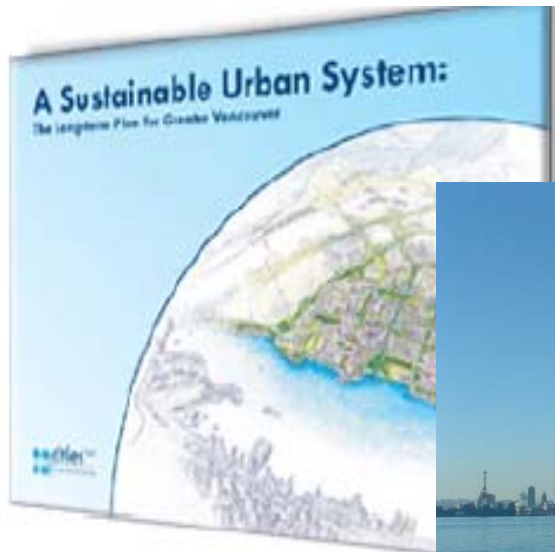


Communities Research

- Community Case Studies (9 projects)
- Community Planning Tools and Approaches (6 projects)
- Economic Impacts of Different Rates of Climate Change on Infrastructure, (one project)

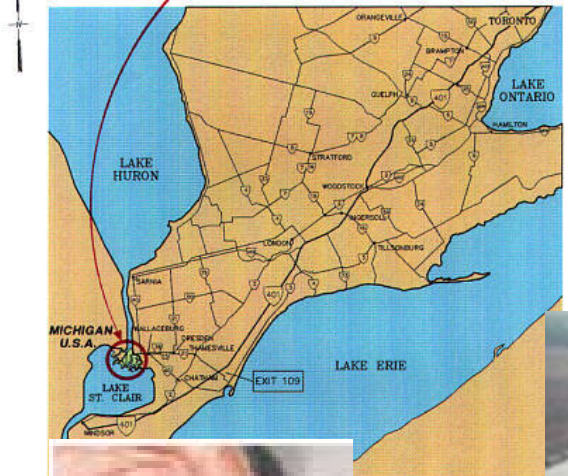
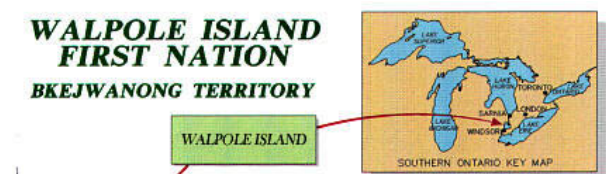
Community: Vancouver, BC

Issue: Urban Sustainability



Community: Walpole Island First Nation

Issue: Climate Change Impacts and Adaptation Options



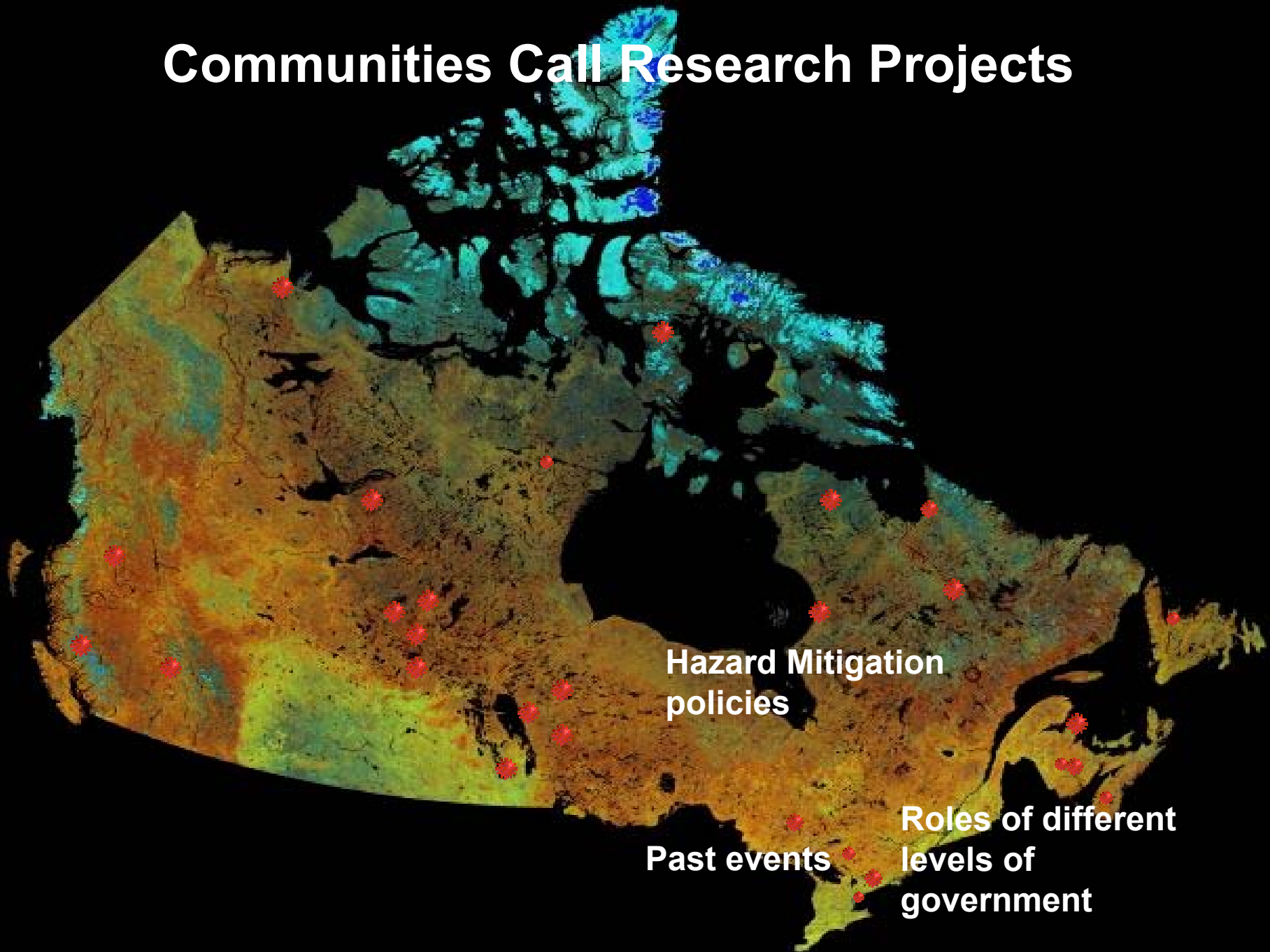
www.bkejwanong.com

Community: Halifax Regional Municipality

Issue: Adaptation Planning and Management



Communities Call Research Projects



Communities Research

- learning from past events (one project)
- the roles of different levels of government in community adaptation (one project)
- hazard mitigation policies and robustness to climate change (one project)

Communities Call Research Projects

Economic Impacts

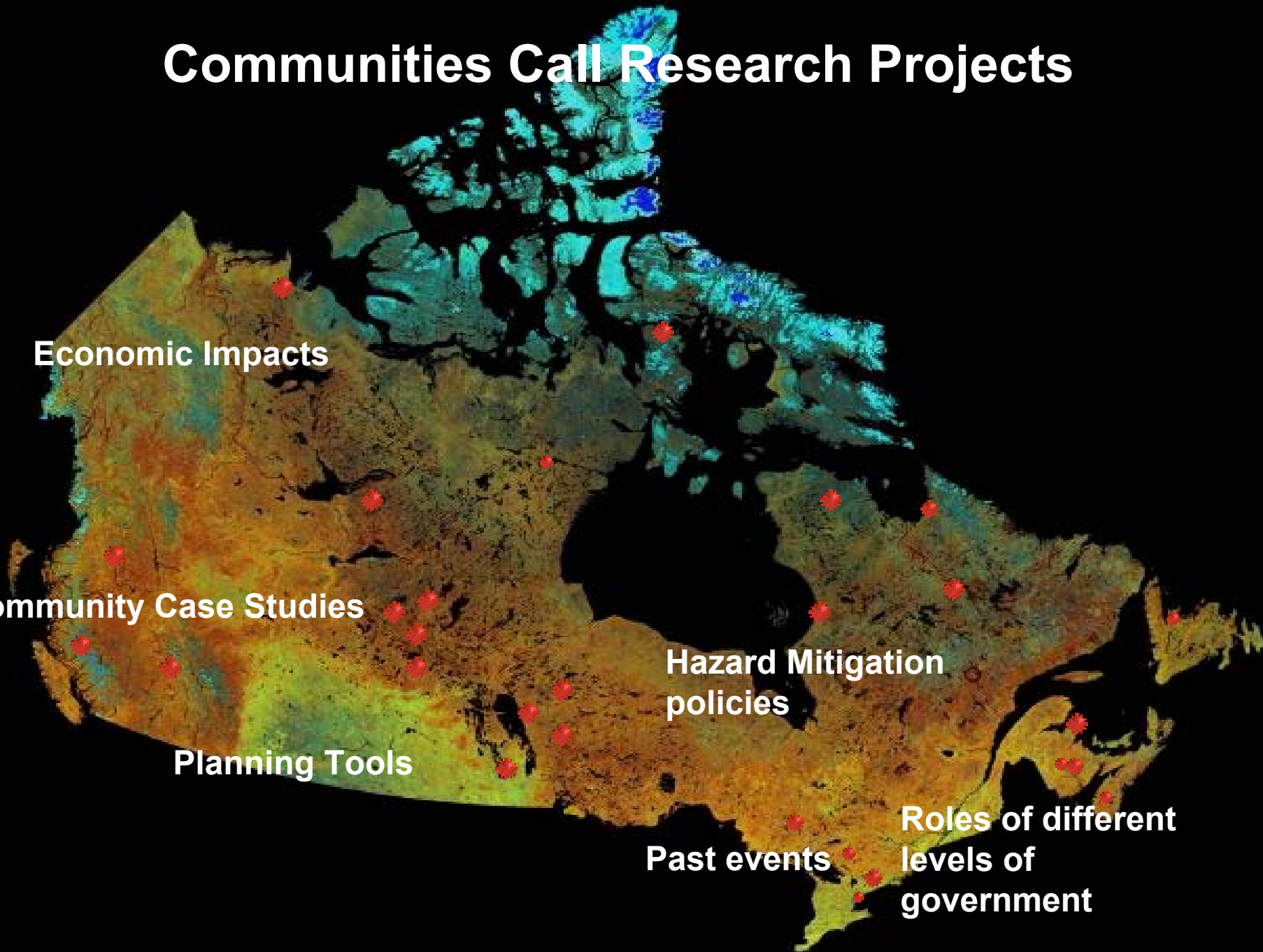
Community Case Studies

Planning Tools

Hazard Mitigation
policies

Past events

Roles of different
levels of
government



Public Infrastructure Engineering Vulnerability Committee Issue: Infrastructure Sustainability



Public Infrastructure Engineering Vulnerability Committee

PIEVC-News

The Public Infrastructure Engineering Vulnerability Committee (PIEVC) is the decision making body overseeing a national assessment of the vulnerability of public infrastructure to climate change.

August 8, 2005

Volume 1, Number 1

In This Issue

- Welcome from the Chair
- Teleconference in August
- Work In Progress

Links

Economic Ramifications

http://adaptation2005.ca/abstracts/wakeford_e.html

An insurance perspective on adaptation.

<http://www.iclr.org/>

The Institute for Catastrophic Loss Reduction (ICLR) is working to reduce disaster deaths, injuries and property damage. They are committed to the development of disaster prevention knowledge, and the broad dissemination of these research findings.

<http://www.munichre.com/>

Munich Insurance is one of the major corporations insuring large structures in Canada. They publish annual reports and discussion papers on natural catastrophes and effects.

Contact Us

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A Message from the Chair...

It is with great pleasure that I welcome the members of PIEVC to the table.

Regardless of cause, climate is changing. The Munich Group insures large public infrastructures. Their *Catastrophes 2000 - Millennium* report cites population growth and increased urbanization as key causes of significant increase to the losses in the insurance sector from natural catastrophes.

Canada is also experiencing population growth and urbanization. This stresses the existing public infrastructure and creates demand for new infrastructure. For example, the Canadian Water and Wastewater Association has estimated a need for a \$37 billion re-investment over the next 15 years to renew Canada's \$300 billion aging wastewater assets and address growth. Environment Canada estimates that the investment needed to address emerging standards and regulations could easily double this amount.

The increased frequency of extreme weather events created by global climate change, presents the professional engineer with dilemmas in public safety, reliable energy supply, trade and transportation.

The professional engineer is ethically bound to design, construct and maintain safe, reliable and economic infrastructure for the Canadian public. In view of climate change, and the weakness of current climate statistics, the professional engineer must adapt his practice.

In this light, PIEVC was formed. PIEVC will spearhead initiatives that ultimately will provide clear engineering guidelines and standards to support the design, construction and maintenance of safe, reliable and economic public infrastructure in the face of a changing climate.



CANADIAN COUNCIL OF PROFESSIONAL ENGINEERS
CONSEIL CANADIEN DES INGÉNIEURS



PIEVC is one of the initiatives of the CCPE Climate Change Action Plan www.ccpe.ca
In partnership with Government of Canada's Climate Change Impacts and Adaptation Program

Canada

www.ccpe.ca

Climate Change Will Affect You

Become engaged by:

- learning more
- joining our network
- participating in research
- consult database for final reports
- visit website often for updates on projects
- contact us to receive more information on projects

Find out more:

adaptation.nrcan.gc.ca



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[2006 Assessment](#)

Climate Change Impacts and Adaptation Program



The Government of Canada's Climate Change Impacts and Adaptation Program provides funding for research and activities to improve our knowledge of Canada's vulnerability to climate change, to better assess the risks and benefits posed by climate change and to build the foundation upon which appropriate decisions on adaptation can be made. The Program also facilitates interaction between stakeholders and researchers through support of the Canadian Climate Impacts and Adaptation Research Network ([C-CIARN](#)).



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