

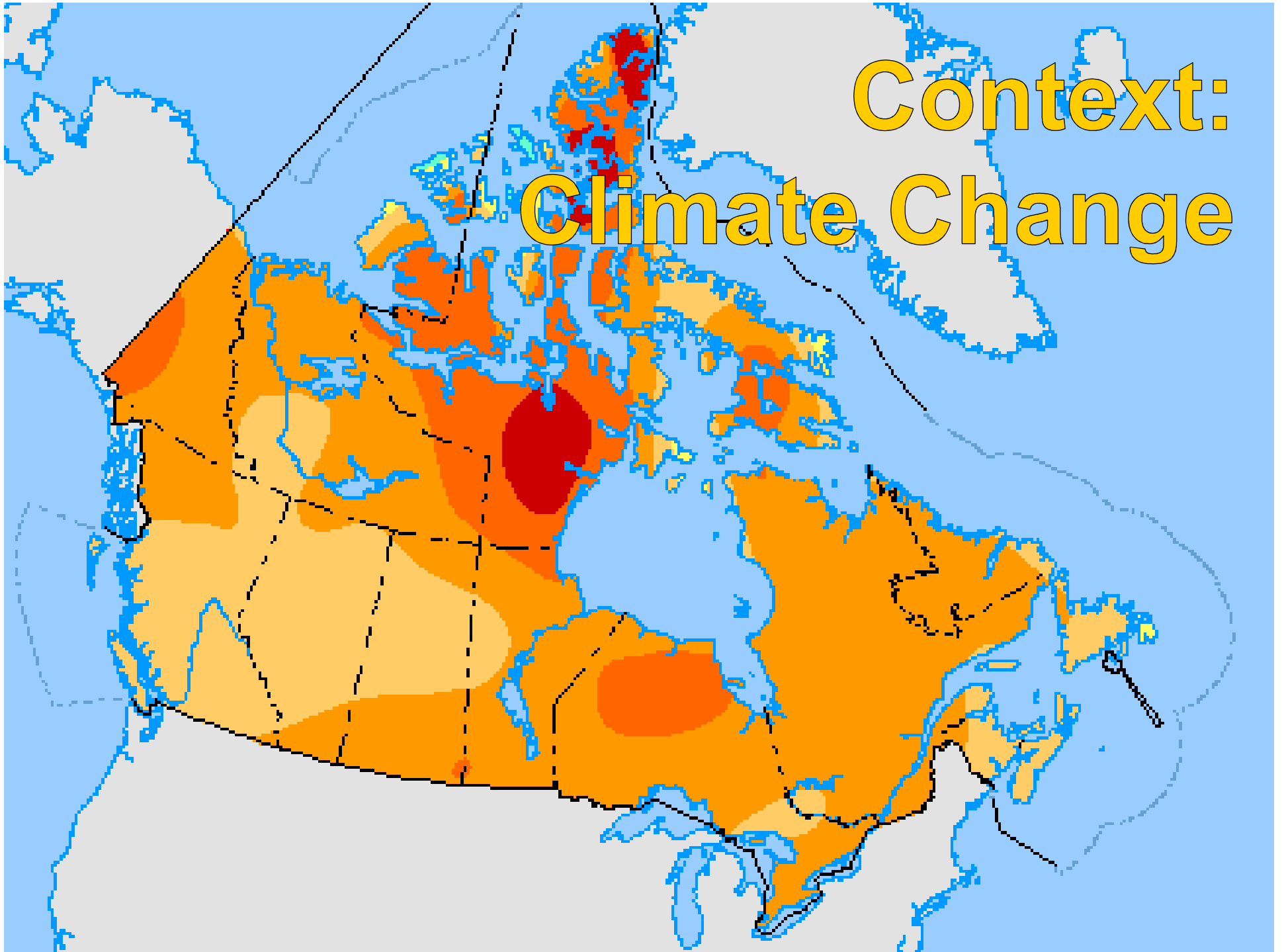
# **Heat+**

# **Health+**

# **Planning**

**Andrew Davidge . GHK . GPA . October 4, 2010**

# Context: Climate Change



# Context: UHI



# Study Purpose

1. To assess the extent to which the health implications of heat explicitly enter into the planning process
2. To provide suggestions on how to increase awareness of the issue in the planning community

# Methodology

**1**

**Literature Review**

**2**

**Municipality Interviews**

**3**

**Workshop**

# Municipality Interviews

Kelowna

Calgary

Regina

Winnipeg

Windsor

London

Waterloo

Hamilton



Fredericton

Montréal

Ottawa

Pickering

Toronto

Peel

Niagara

# **General Findings**

# Literature Review

- Understanding the relative priority of the problem
- Finding synergies, reconciling conflicts
- Choosing the most appropriate tools
- Density and the UHI effect
- Approaches for existing v. new built form




**Sustainability**



**Climate Change – Mitigation**



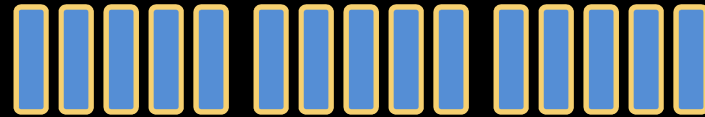
**Climate Change – Adaptation**



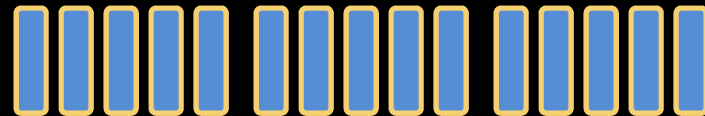
**Air Quality**

# Municipal Priorities

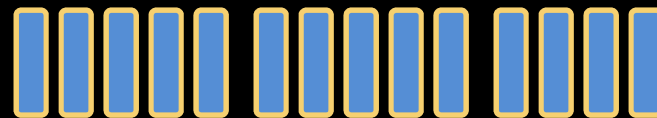
**Growth Management**



**Sustainability**



**CC Mitigation**



**CC Adaptation**



**Heat (Emergency)**



**Heat (Planning)**



# Range of Tools

- General Smart Growth policies
- Green Development Standards
- Incentives for LEED certified buildings
- Green roofs
- Green space and green infrastructure strategies
- Urban forestry strategies
- Tree protection by-laws
- Sustainable Neighbourhood Guidelines
- Climate or heat modelling
- Demonstration projects

# Workshop

- Awareness but no strong policies
- Make a business case
- Link Public Health and Planning Depts
- Organizational culture and awareness
- Overcome separation of responsibilities
- Link to other issues

# Next Phases

**1 Create Resources**

**2 Link to Networks**

**3 Connect with Municipalities**

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