



# SUPPORTING CLIMATE CHANGE ADAPTATION AT LOCAL CANADIAN COMMUNITIES: CASE STUDIES FROM THE HEALTH SECTOR

CANADIAN
CENTRE FOR
CLIMATE
SERVICES









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## **OUTLINE**

Canada's Climate Change Plan – Overview on Adaptation

Climate Action in Canada – Examples of Adaptation Actions

 Canadian Centre for Climate Services – Empowering Canadians with Evidence-based Information

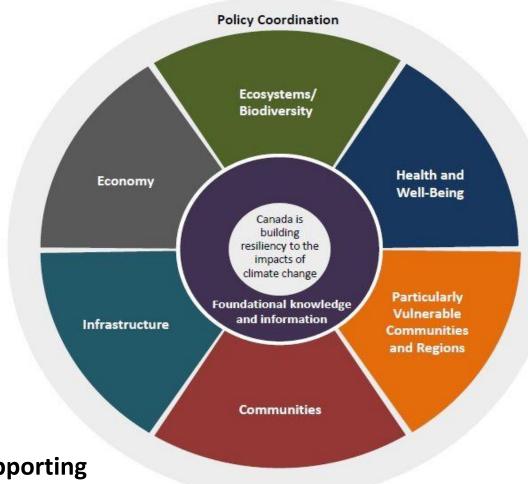
 Climate Change Adaptation in the Health Sector – Examples of Actions at the Local Level





## **CLIMATE CHANGE: ADAPTATION FOCUS**

- Translating scientific information and Traditional Knowledge into action
- Building climate resilience through infrastructure
- Protecting and improving human health and well-being
- Supporting particularly vulnerable regions (e.g. northern and coastal communities)
- Reducing climate-related hazards and disaster risks



Federal investments and leadership - key to supporting adaptation measures at the national, regional and local level.









# **CLIMATE ACTION IN CANADA (MITIGATION & ADAPTATION)**

- Clean and renewable energy
- Energy efficiency in homes and businesses
- Made-in-Canada clean technologies
- Electric vehicle charging stations and alternative fuel infrastructure
- Public transit
- Investments in Indigenous, rural and remote communities to transition to cleaner energy sources
- Support for communities to adapt to a changing climate

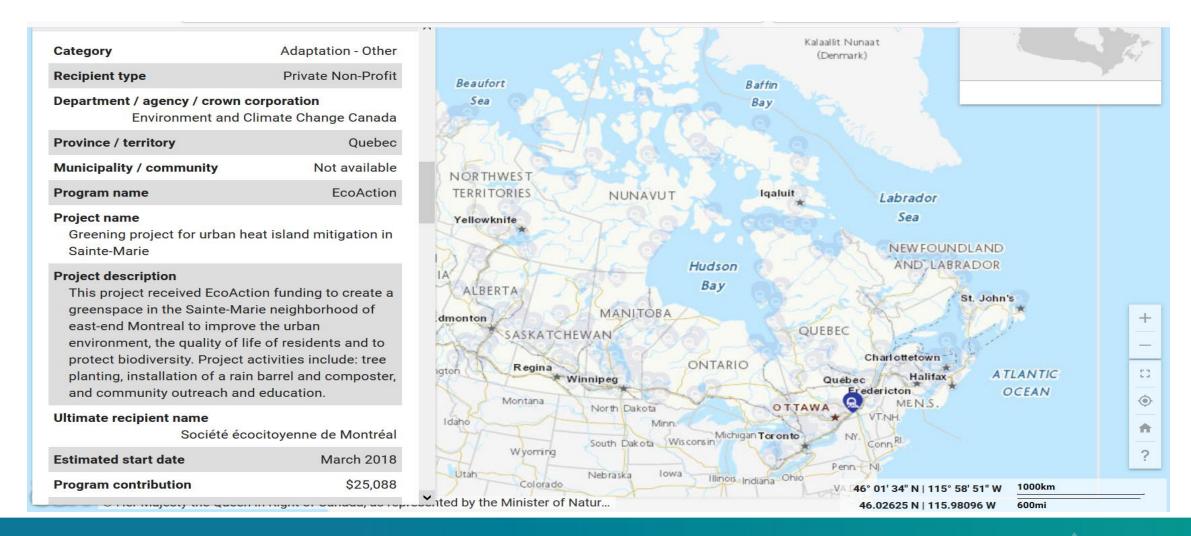








## **CLIMATE ACTION MAP – ADAPTATION ACTION**



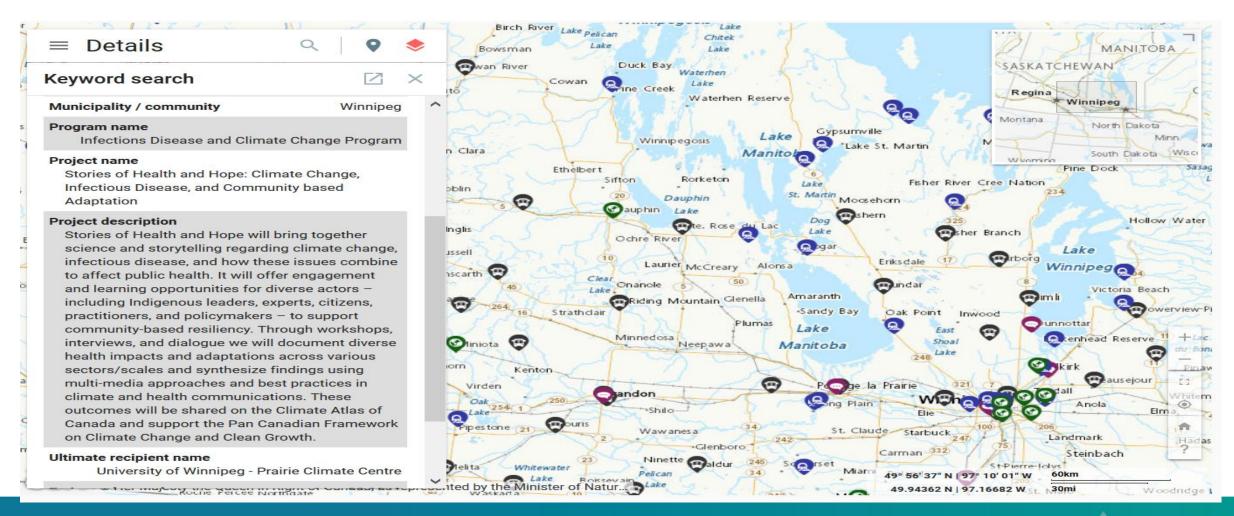








## **CLIMATE ACTION MAP – ADAPTATION ACTION**









### CANADIAN CENTRE FOR CLIMATE SERVICES







Datasets, tools, guidance and related resources



#### Climate information basics

Climate change concepts trends and role of climate information in decisionmaking



#### Climate Services Support Desk

1-833-517-0376 Get help from our climate experts to find, understand and use climate information



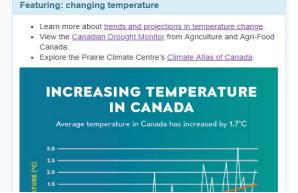
#### Display and download climate data

View selected climate datasets on maps or



About the Canadian Centre for Climate Services

The climate is changing. Understand how. We're here to help



- People to talk to & help answer your questions (Support Desk)
- Website with:
  - ✓ Access to ECCC climate datasets and a suite of climate data portals including Climatedata.ca
  - ✓ Links to >300 resources
  - ✓ Intro to climate information concepts
- Training
- Outreach and engagement
- Co-development of products
- Collaboration with regional climate organizations to co-deliver services with locally-relevant information to users
- Whole of government approach











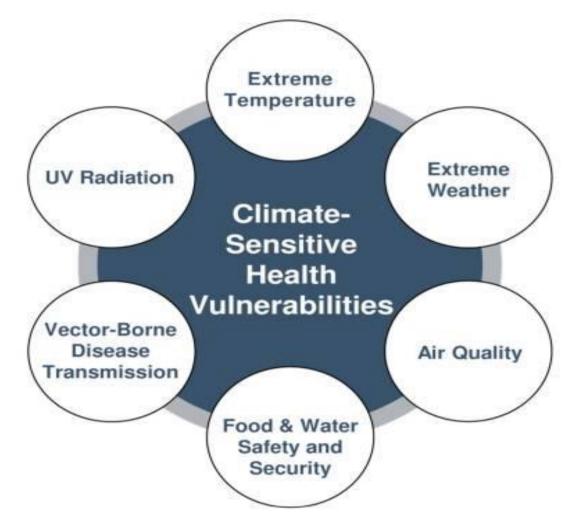


## PUBLIC HEALTH VULNERABILITY TO CLIMATE CHANGE

Climate change is increasing risks to human health and to the health care systems.

Public health adaptation measures (from WHO, 2018):

- Strengthening health systems.
- Primary health care.
- Warning systems.
- Action plans and preparedness.
- Monitoring and surveillance.
- Integrating health in all policies.



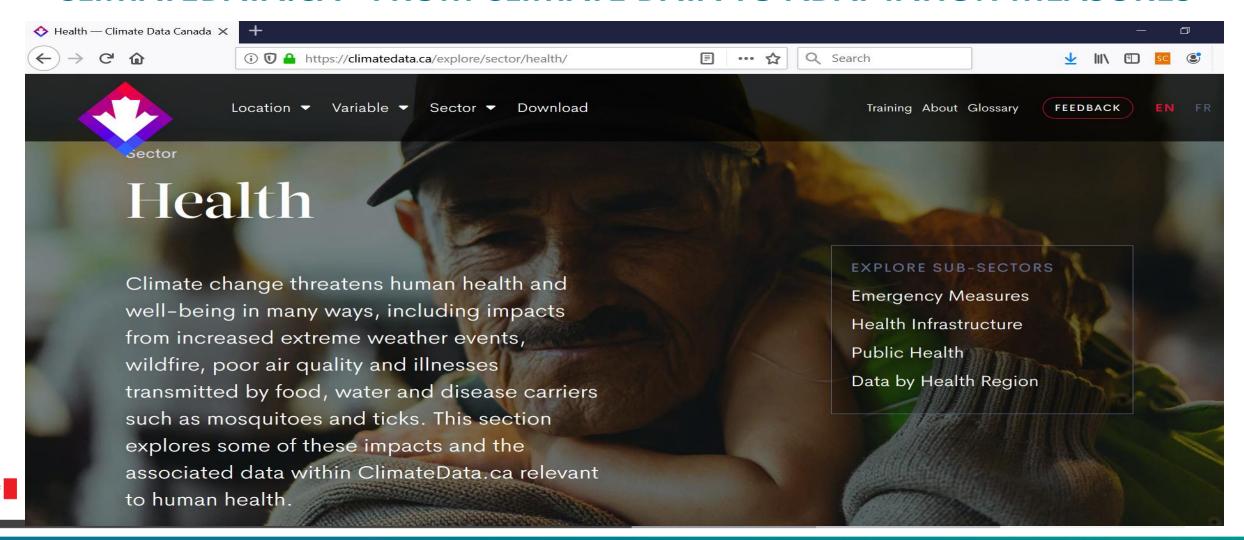
Source: Health Canada, 2008







## **CLIMATEDATA.CA - FROM CLIMATE DATA TO ADAPTATION MEASURES**

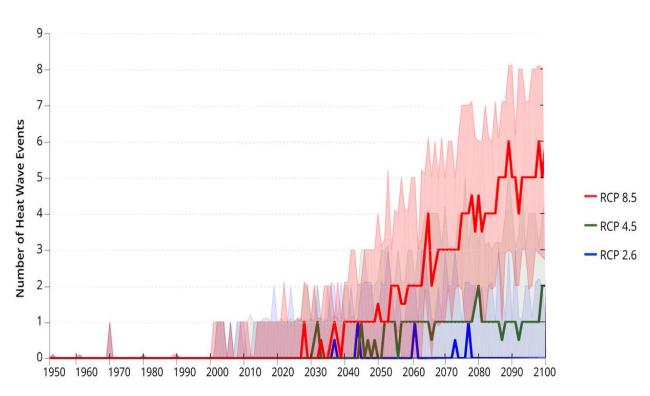




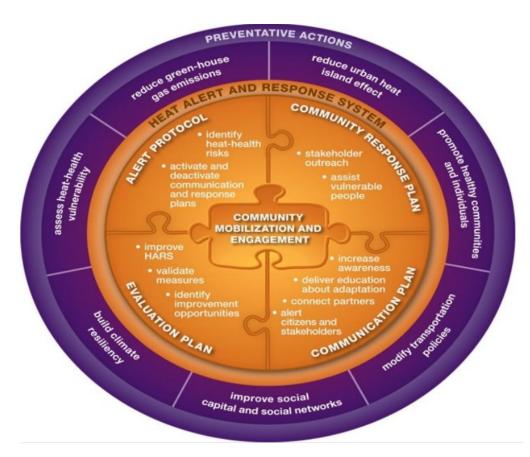




## FROM CLIMATE DATA TO ADAPTATION MEASURES – EXTREME HEAT



Number of heat wave events, 1950-2100, for Montreal (source, climatedata.ca



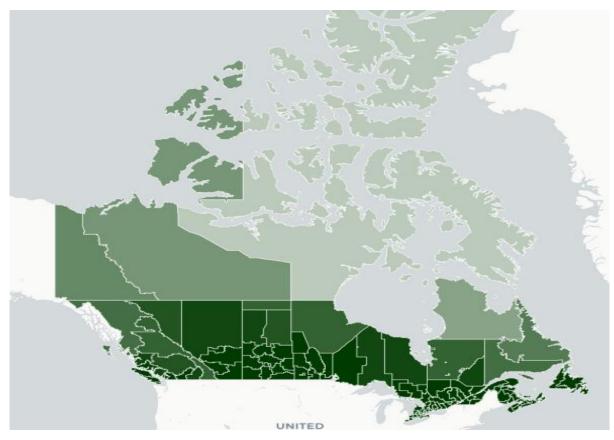
Source: Health Canada, 2011



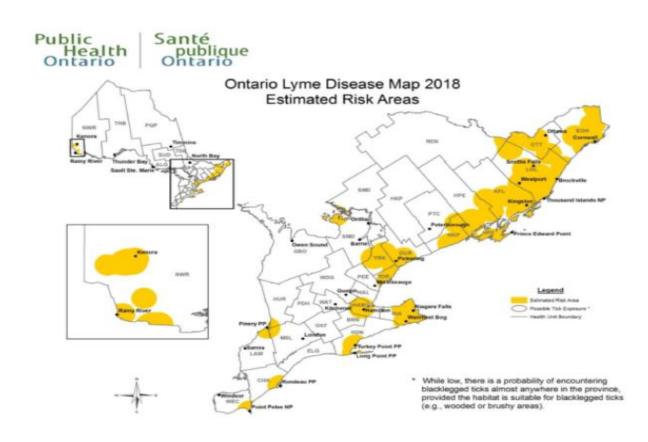




## FROM CLIMATE DATA TO ADAPTATION MEASURES – LYME DISEASES



Projection of cumulative degree-days above zero – Horizon 2060, RCP 8.5 (source: climatedata.ca)



Lyme disease risk map in Ontario, Canada (source: PHO, 2018)



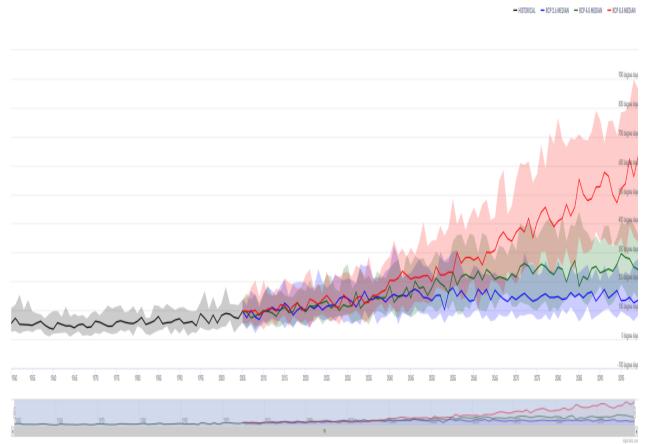




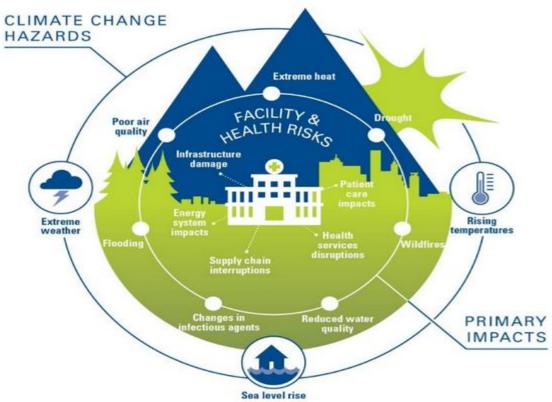




## FROM CLIMATE DATA TO ADAPTATION MEASURES – RESILIENT HOSPITALS



Evolution of the number of cooling degree days for Nanaimo, British-Columbia (Canada), 1950-2100 (source: climatedata.ca)



Impacts of climate change on Health infrastructure and access to care (source: Aubie et al., 2018)









## **THANK YOU**

## **ANY QUESTIONS?**



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