



Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

Canada



# CLIMATEDATA.CA

## PROVIDING CANADIANS WITH CLIMATE DATA AND INFORMATION FOR ADAPTATION AND RESILIENCE PLANNING

**CANADIAN  
CENTRE FOR  
CLIMATE  
SERVICES**



Abderrahmane Yagouti, Manager  
Canadian Centre for Climate Services, ECCC

Adaptation Platform Webinar Series  
Ottawa, ON  
July 22<sup>nd</sup>, 2019

# CURRENT GAPS IN CLIMATE DATA AND INFORMATION

- **Lack of awareness** and access to existing information
- Data is not always available in a **user-friendly** environment or format
- **Gaps** in relevant and useful products
- **Uncertainty** on how to incorporate climate change in decision-making



# CANADIAN CENTRE FOR CLIMATE SERVICES (CCCS)

Established so that Canadians have the **information and support** they need to **understand and reduce risks** from climate change

CCCS climate services include...

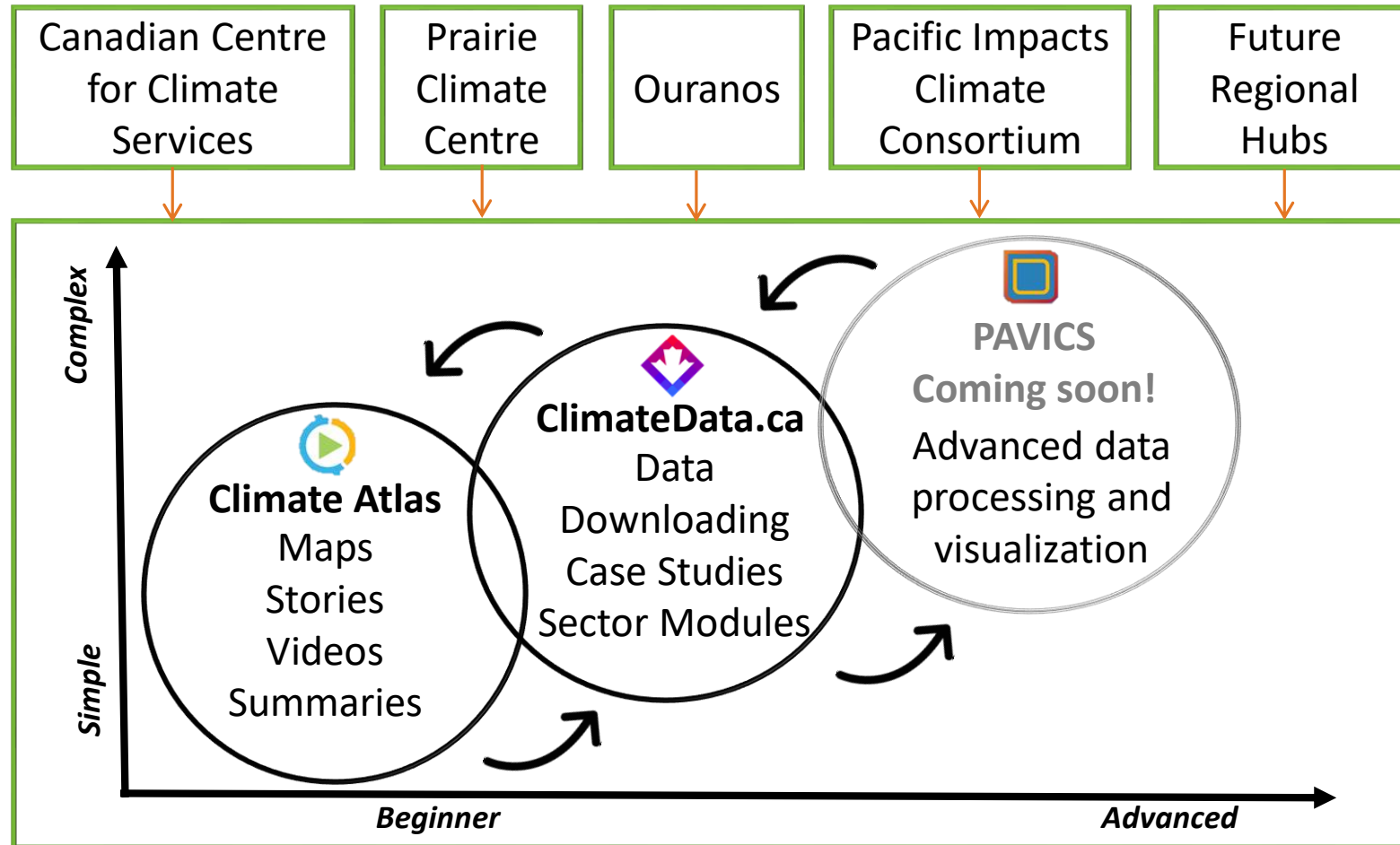
- **Increasing awareness and access** to existing climate information and data
- **Engaging with users** to understand needs
- **Providing training and guidance** on using climate data
- **Developing new products** through collaboration with experts and users
- **Working with regional climate service providers** for locally relevant information and expertise

What risks is a changing climate posing for my work and region?

How do I incorporate climate change into decisions?

# CLIMATEDATA.CA IS A PART OF SUITE TO INCREASE ACCESS TO CLIMATE DATA AND INFORMATION

Climate Service  
Provider Websites



Climate Data  
Portals

# CLIMATEDATA.CA PARTNERS



**Financial support**  
**General advice and input**



**Project management**  
**Software architecture**  
**Data processing and infrastructure**



- Sector Module
- Data calculations and hosting



- Content
- Datasets
- Architecture
- User engagement



- User experience and interface
- Website design
- User engagement



- Vision and content
- Review



# DATA AVAILABLE ON CLIMATEDATA.CA

## BCCAQv2 – Projections of temperature and precipitation

- Downscaled daily climate model projections to ~10 km resolution
- Timescales to the year 2100
- Representational Concentration Pathways (RCP) 2.6, 4.5 & 8.5

## ANUSPLIN – Modeled historical temperature and precipitation

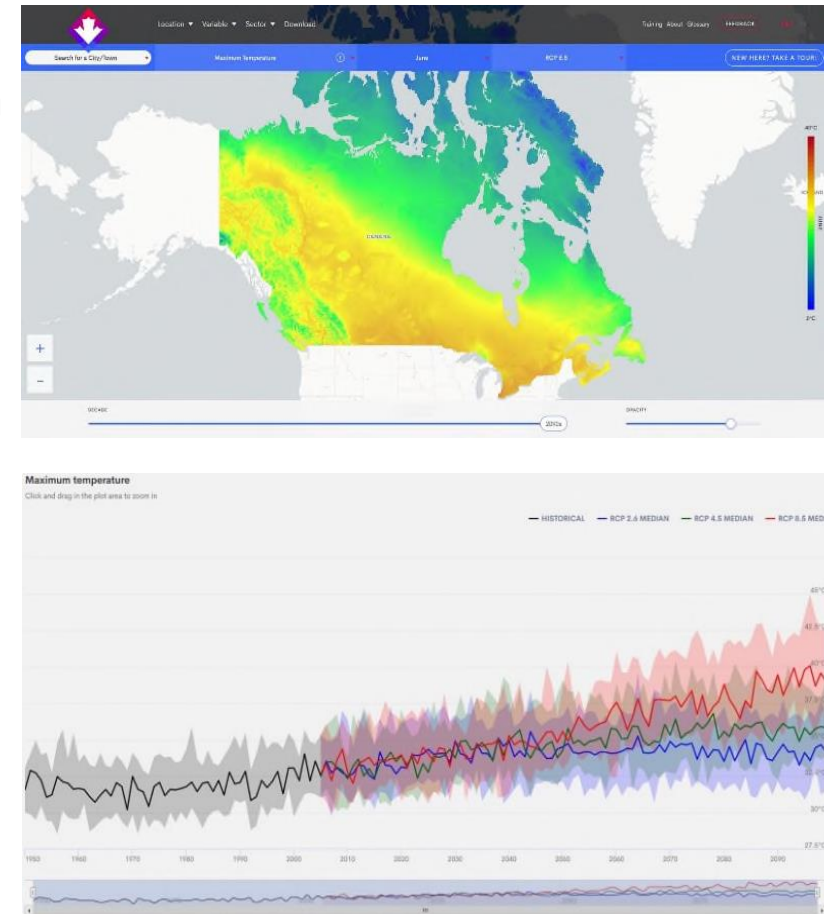
- Provides a summary of historic climate trends

## Meteorological Service of Canada's Weather Stations

- Access to high-quality historical weather observations

## Intensity-Duration-Frequency curves – A measure of extreme precipitations

- Relates short-duration rainfall intensity with its frequency of occurrence





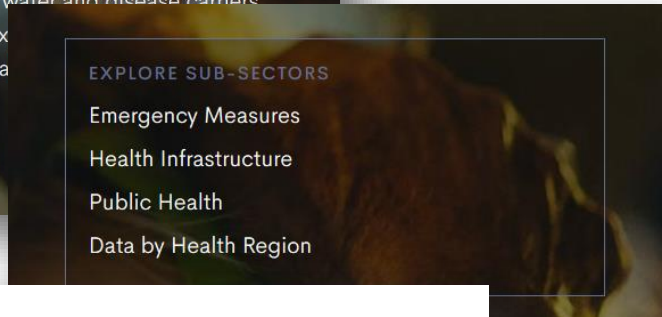
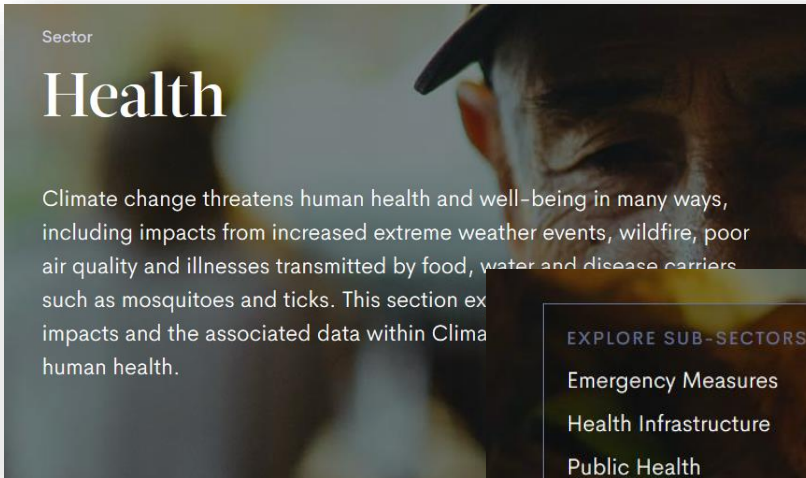
## OTHER FEATURES

### Health Sector Module

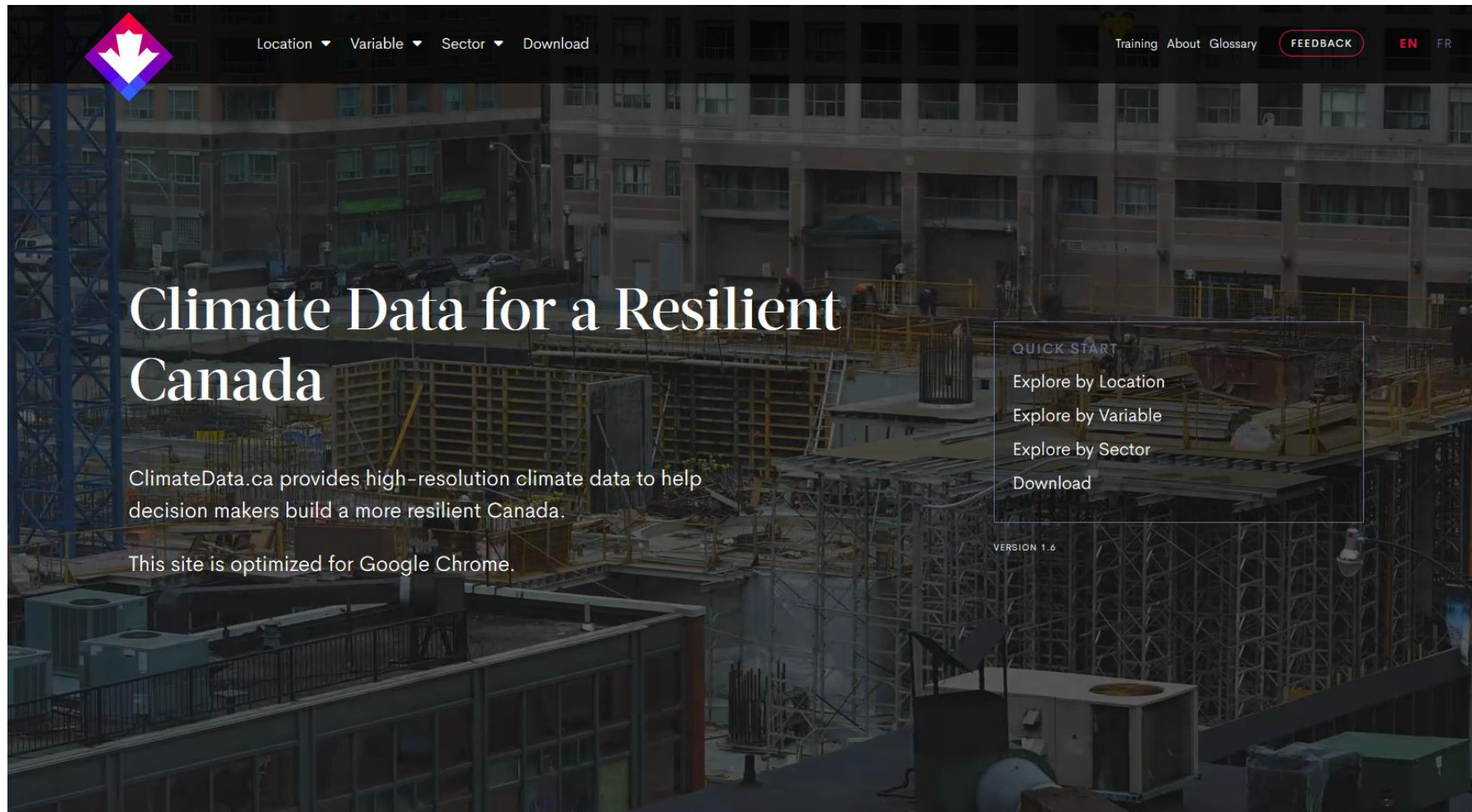
- Case studies related to heat waves, Lyme disease and health care facilities (hospitals)
- Climate indices relevant for human health
- Data by Public Health Region

### Heat Wave Analysis Tool

- Allows analysis of heat waves based on user-defined thresholds using:
  - Number of consecutive hot days
  - Minimum and maximum daily temperature thresholds



# LIVE SITE DEMONSTRATION OF [CLIMATEDATA.CA...](https://climatedata.ca)





# CLIMATEDATA.CA WILL CONTINUALLY EVOLVE

## Next Steps - Phase II

- User engagement and feedback
- Addition of new datasets including climate change impact data
- More sector modules
- User-targeted training modules
- Monitor and review use of ClimateData.ca – Popular datasets and functionalities, how data has been used to inform adaptation action, etc.
- New partners are welcome to join the team



# CLIMATE SERVICES SUPPORT DESK

The CCCS will continue to directly support you!

- **Climate Services Support Desk officers** coordinate with experts from regional climate service providers and federal departments to help users:
  - **Find** datasets and information
  - **Understand** and use data
- **Able to help a range of users** from beginners looking for general information to experts looking for specific data
- The Climate Services Support Desk can be reached by:



Phone: 1-833-517-0376



Email: [info.cccs-ccsc@canada.ca](mailto:info.cccs-ccsc@canada.ca)

# THANK YOU!

## QUESTIONS?

### Website:

English:

[www.canada.ca/climate-services](http://www.canada.ca/climate-services)

Français:

[www.canada.ca/services-climatiques](http://www.canada.ca/services-climatiques)

### Climate Services Support Desk:



**1-833-517-0376**



[info.cccs-ccsc@canada.ca](mailto:info.cccs-ccsc@canada.ca)

