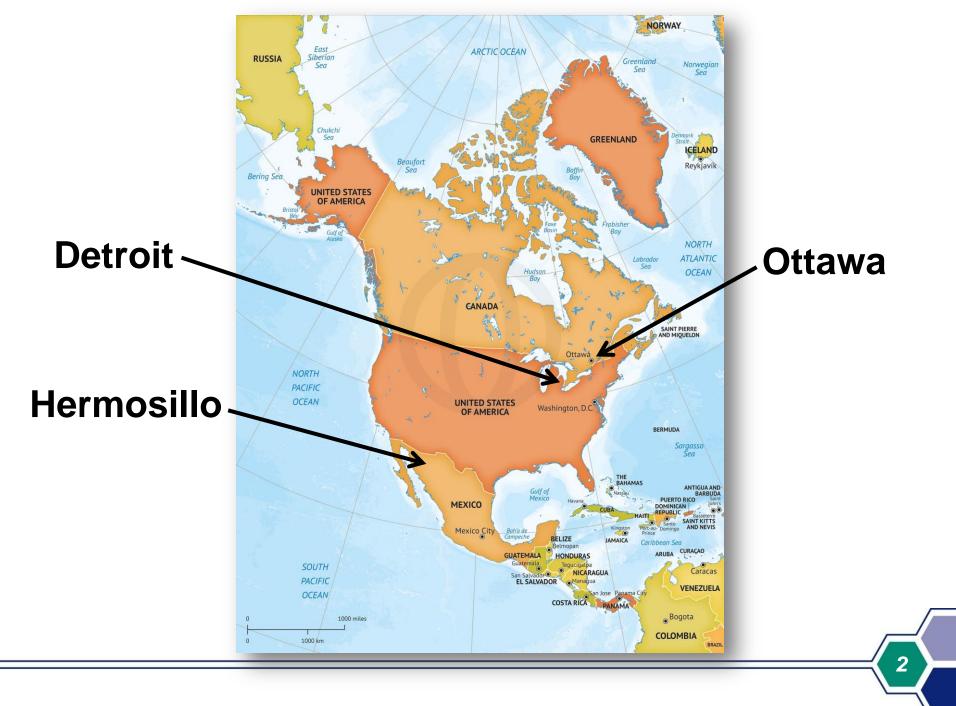
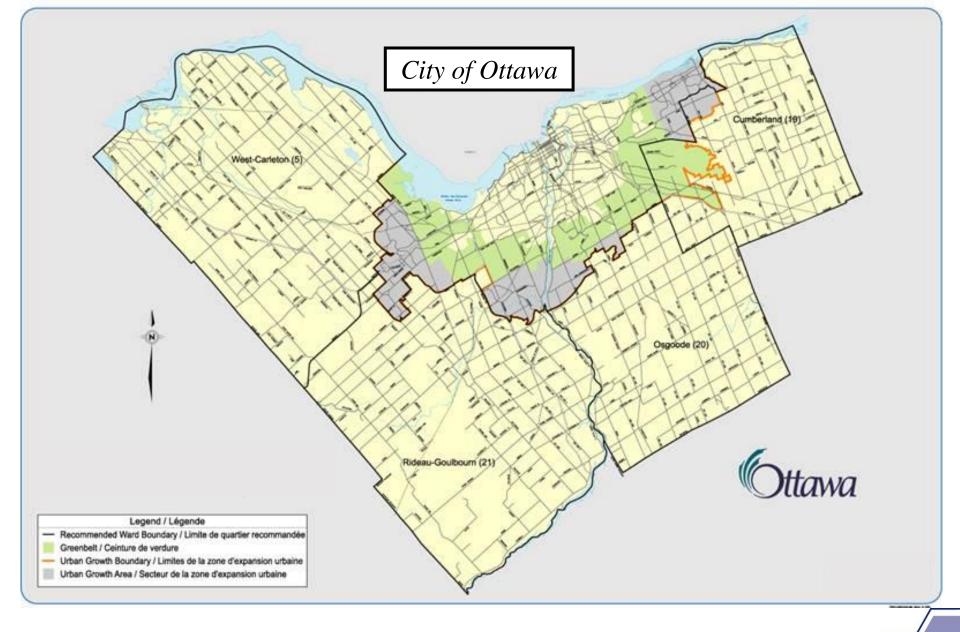




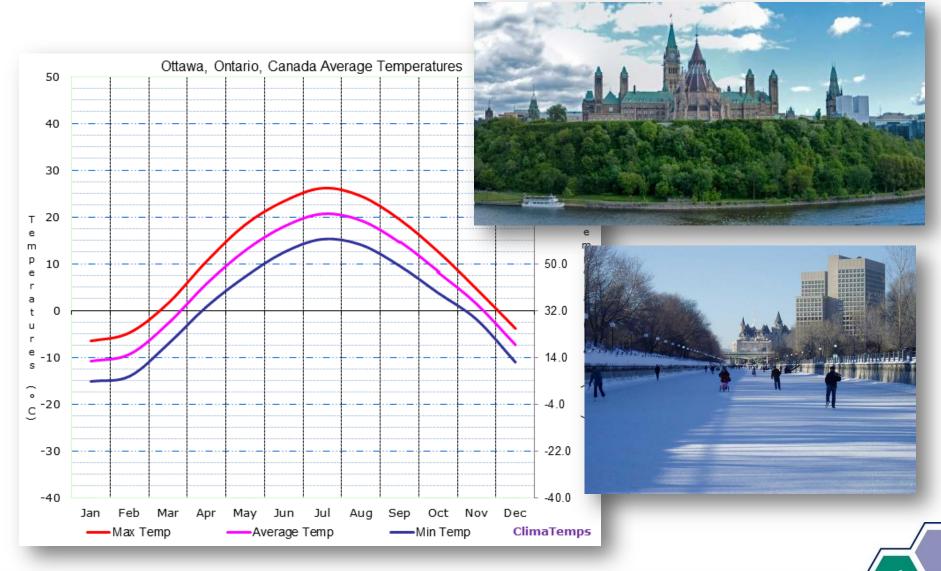


Martha Robinson, Ottawa Public Health
Pilot Community Presentation
May 17, 2017
Final Workshop





Ottawa Climate



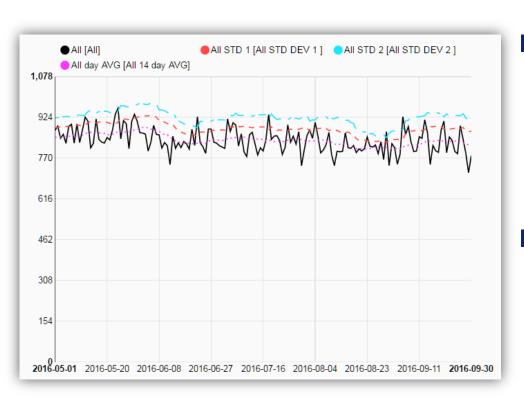
Overview of 9 Tasks in the Ottawa Pilot

- 1. Identify data sources and prepare data share agreements.
- Collect historical health, climate, geospatial and census data to build the database.
- Statistical analysis of historic data and mapping vulnerabilities.
- 4. Training sessions for health care providers.
- 5. Develop a protocol to collect and communicate real-time health and climate data.
- 6. Implement and test the pilot SyS.
- 7. Evaluate and validate the pilot SyS.
- 8. Analysis of data collected.

Tasks 1 and 2: Identify Data Sources and Gather Historical Data

Health Data Sources:

Acute Care Triage Data

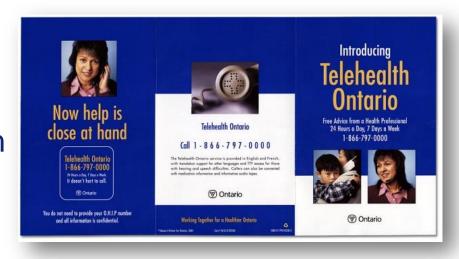


- information from 5
 hospitals in existing
 Acute Care Enhanced
 Surveillance (ACES)
- use existing syndrome definition for heatrelated illnesses called ENVIRO

Health Data Sources:

Telehealth Ontario

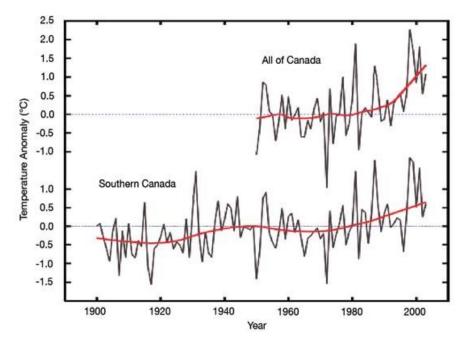
free, 24-hour confidential telephone services for health advice/information from registered nurses



- this is a **new** data source, sharing current extreme temperature syndrome; details to follow
- no data share agreement was needed as a pilot project for the 2015 Pan Am/Parapan Am Games in Toronto

Meteorological Data

- Environment and Climate Change Canada
- historical, real-time (hourly for some weather stations), forecasted weather



- variables are temperature, precipitation volume, cloud cover, humidity, wind (direction, speed)
- derive Heat Stress Indicators (i.e., humidex)

Air Quality Health Index



- derived index calculated from concentrations of ground level ozone (O₃), fine particulate matter (PM_{2.5}), and nitrogen dioxide (NO₂)
- ECCC; weather stations and surface mapping



Weather Warnings

■ ECCC; forecast from models, 72 hours in advance



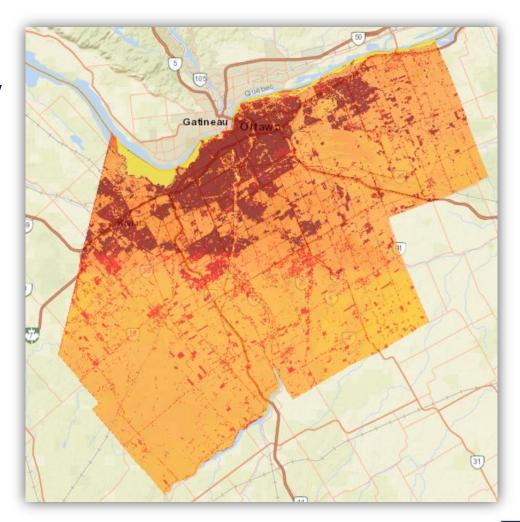
Heat Warnings from OPH

 Ottawa Public Health releases heat based on ECCC warnings specific to region and conditions



Satellite Imagery

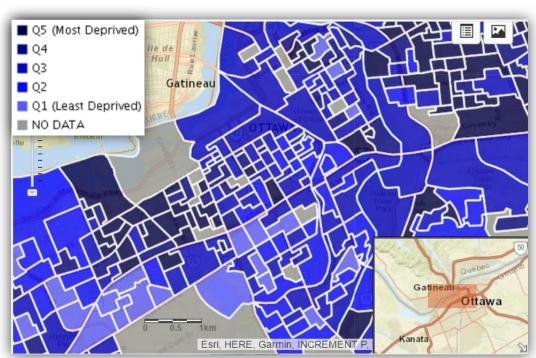
 open-source NASA satellite imagery to define areas of heat stress (e.g., urban heat island effect)

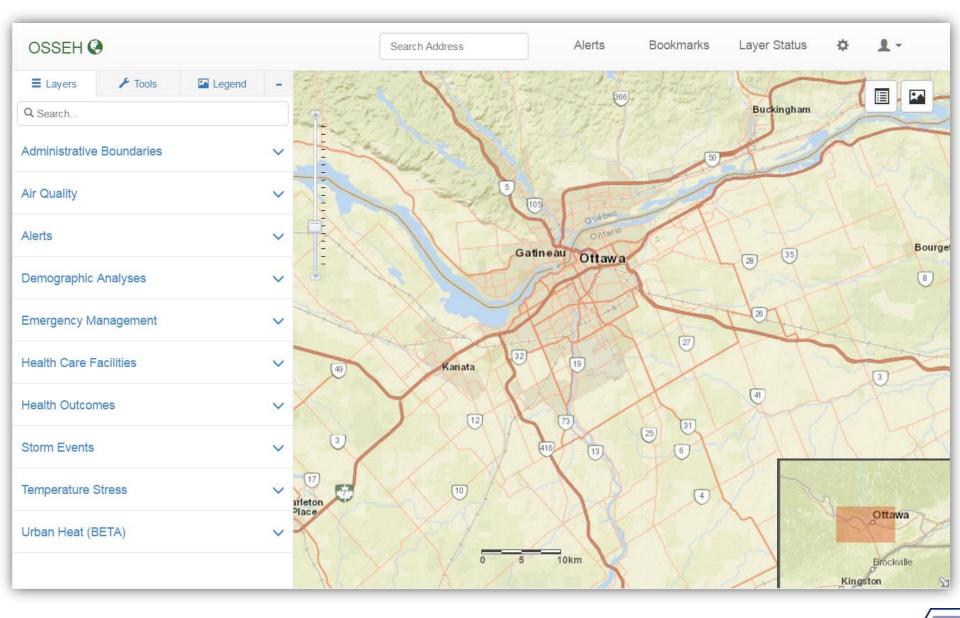


Demographic Data Sources:

Vulnerability Indices

- source = StatisticsCanada
- use census-derived variables to define each postal code area on relative social and material vulnerability scale
- data from 2006 census
 (updated as 2016 census data becomes available)

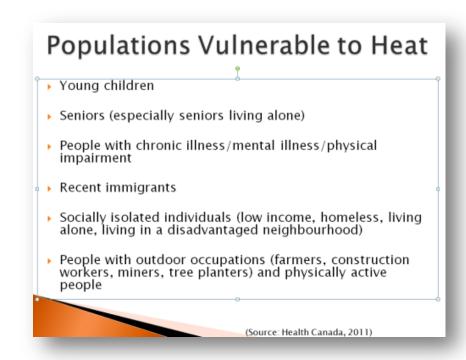




Task 4: Education Sessions for Health Care Providers

- Who: Telehealth Ontario nurses, 211 intake staff, Paramedic EMS staff, and Triage staff in Ottawa hospitals
- Purpose: Raise awareness about the increasing risk of heat illnesses in light of climate

illnesses in light of climate change, and our need to plan with good health signals so we can advocating for effective mitigation strategies.



Training Sessions

■ What:

- training webinar
- available as a recorded training webinar
- emphasize the need to consider environmental factors when documenting patient symptoms



 improve reporting, data quality to encourage recorders to use words that can link health issues to the extreme heat event

Questions?

