Using Internet of Things to tackle climate change: Smart thermostats & heat waves in Canada

The smart thermostat in your home could save your life or the life of a loved one.

The problem

Heat waves are becoming longer, more frequent, more intense.
Most vulnerable are age 65+, (especially chronically ill), low-income, homeless, infants & children.

Research questions

1. How do Canadians perceive the risk of heat waves & heat-related illnesses in the literature?
2. How do Canadians receive public health safety messaging around extreme heat events & how do they perceive/use/act upon it?
3. Can using the Internet of Things (IoT) & the data collected to create hyper-local data sources improve existing heat alert response systems?

Objective

Seek to understand how Canadians perceive their risk towards the imminent effects of climate change, how they receive public health messaging and how we can apply IoT technologies to adapt.

Partners

ecobee, UNICAMP, Health Canada.

Benefits

• 90% of Canadian homes have a thermostat.
• Support independent living and peace of mind for loved ones.
• Real-time data to support policy interventions.
• Integration with emergency services.

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