Resilient City

Preparing for a Changing Climate



Status Update & Next Steps

Re: PE15.2

Resilient City

Preparing for a Changing Climate

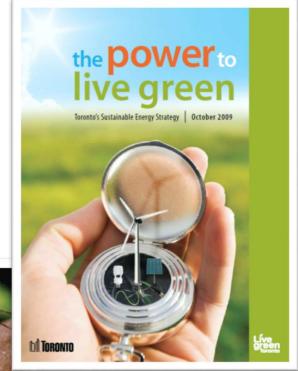
Adopted the Climate Change Risk Management Policy

...outlined responsibilities and a governance structure for implementing the policy and directed that staff report back in 2016

History

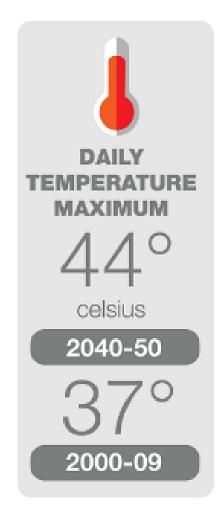
A Focus on Climate Mitigation & Adaptation





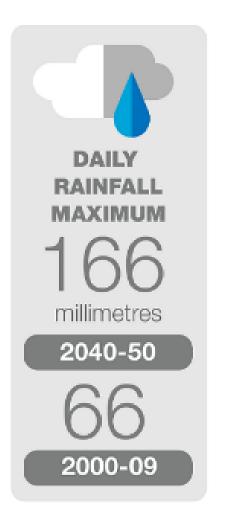


Toronto's Future Weather*





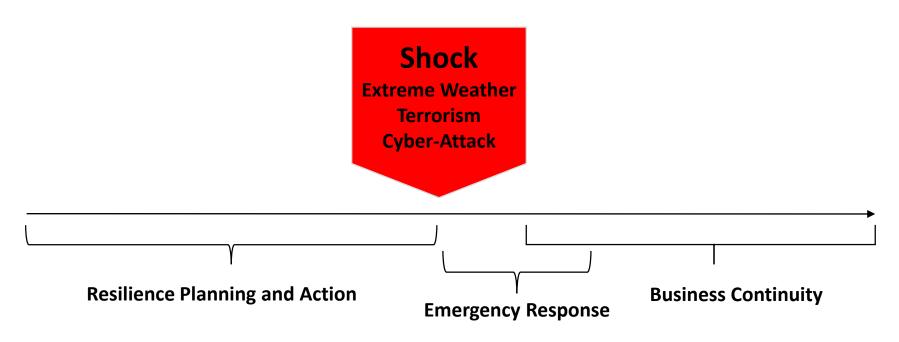




Climate Drivers Study, 2011

Resilience experience

Resilience is the capacity of individuals, communities, institutions, businesses, and systems within a city to survive, adapt, and grow no matter what kinds of chronic stresses and acute shocks.



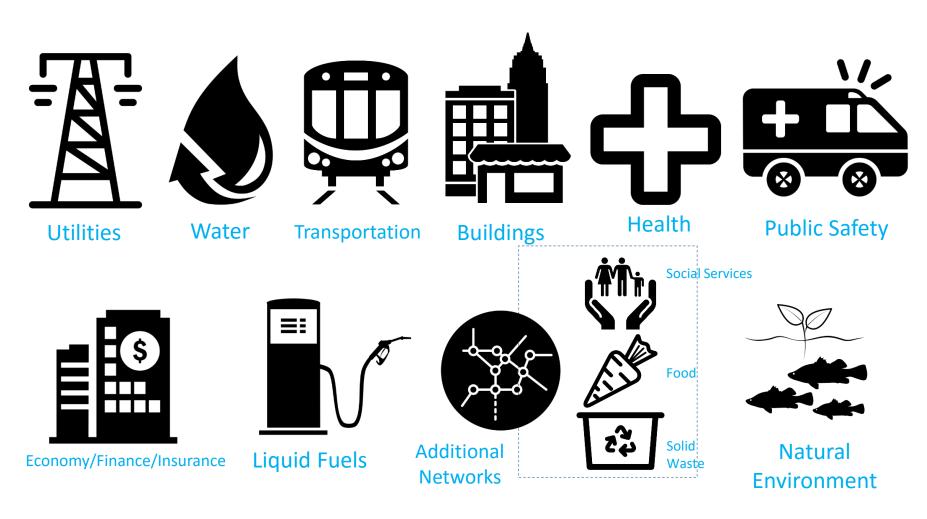
Resilient City Working Group (RCWG)



18 Internal and External Organizations

High Level Risk Assessment

Understanding risks and interdependencies



Icons: The Noun Project



Water

Water, Wastewater & Stormwater



- Toronto Water
- Engineering & Construction Services
- City Planning
- Public Health





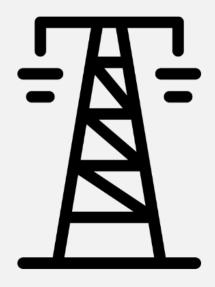




- Transportation Services Division
- Engineering & Construction Services







Utilities

Energy & Telecom







Independent Electricity System Operator









High Level Risk Assessment A Collaborative Process



- Preparatory meetings with thematic area organizations
- Joint Kickoff Meeting

Engineering & **Construction Services**

Toronto Region Conservation Authority



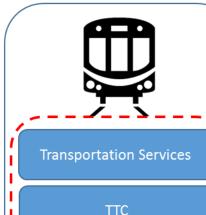
Transportation Services

TTC

Metrolinx

High Level Risk Assessment

EED collate to 'Risk and **Dependency Registries**



Metrolinx

- Collectively refine 'Risk and Dependency Registries'
- Identify new/existing actions to address risks



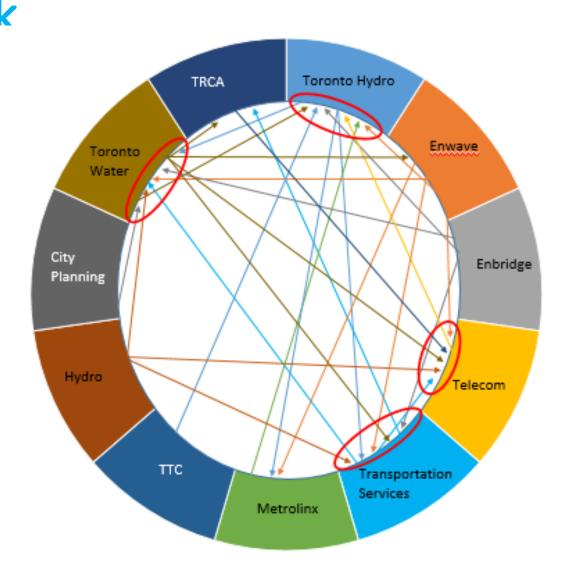




- Collectively refine 'Risk and Dependency Registries'
- Identify actions/initiatives, gaps
- Have findings vetted by Senior Management
- · Present findings to RCWG and EET in preparation for report to Council

Report to Council (Nov 2016)

Assessment
Key Findings
and Lessons
Learned



^{*} Graphic concept adapted with permission from MUST Urbanism (2016)

High Level Risk Assessment

Findings and Key Messages



The work has only just begun.

Adoption of the CCRMP by City Agencies and Corporations

















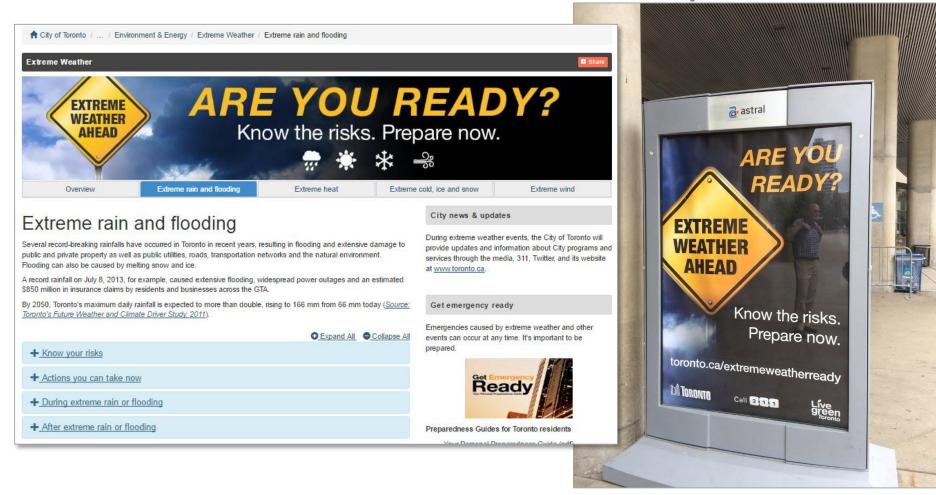








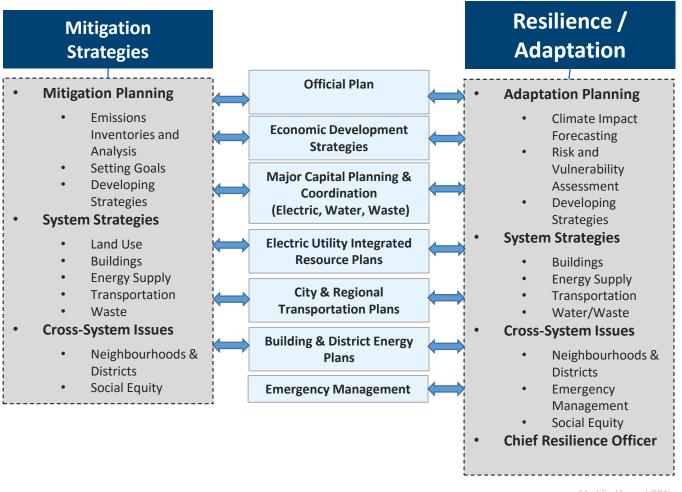
Educational Resources Extreme Weather Ready Portal



Toronto selected to join 100 Resilient Cities — Pioneered by the Rockefeller Foundation



Addressing Stresses and Shocks



Modified from: USD

Addressing Stresses and Shocks







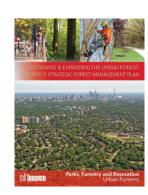
















Next Steps Continuation of Work

- Additional work in remaining Thematic Areas
- Support for actions arising from work in Transportation, Utilities and Water Thematic Areas
- Strategic and programmatic Support for the 100RC initiative and the Chief Resilience Officer (CRO)
- Support for adoption/implementation of the CCRMP

- Coordination of the crosscorporate RCWG and reporting on adaptation/resilience actions.
- Support for detailed risk assessments using the Toronto CCRAT
- Maintenance of the Extreme Weather Portal and related communication-focused activities.

Thank you



Questions?