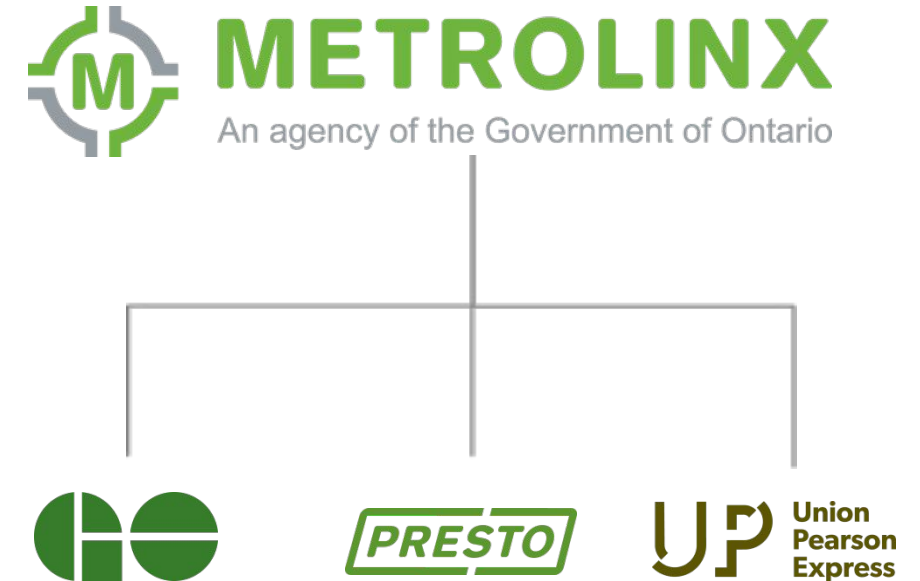

The Ontario Environment and Cleantech Business and Policy Forum

Ersoy Gulecoglu, P.Eng., MBA, MCSCE, CDSM, CEM, PMP, LEED AP

May 4th, 2015

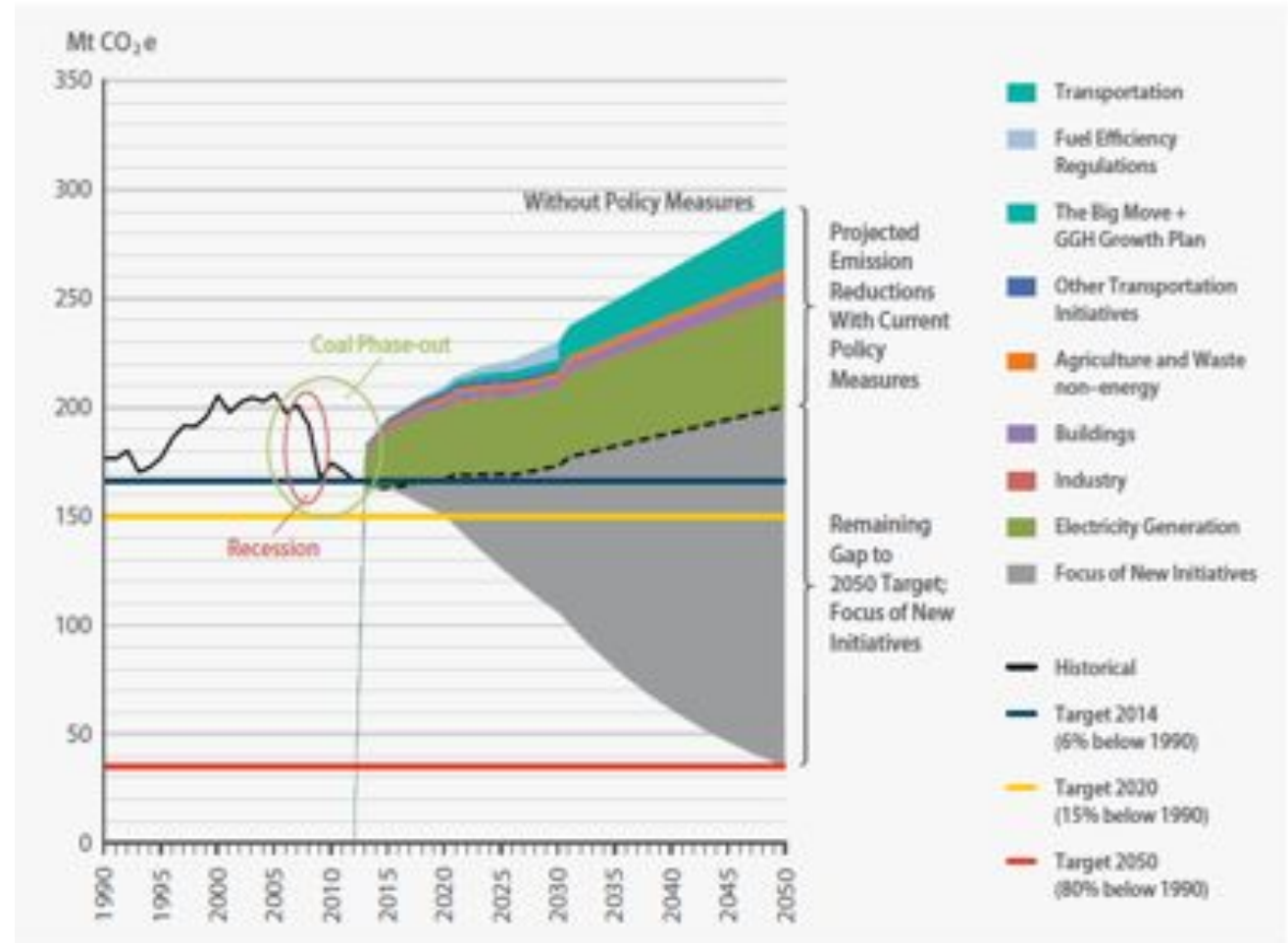
Introduction to Metrolinx

- 2006
 - Created to improve the coordination and integration of all modes of transportation in the Greater Toronto and Hamilton Area.
 - The organization's mission is to champion, develop and implement an integrated transportation system for our region that enhances prosperity, sustainability and quality of life.
- 2009
 - Merged with GO Transit
 - Launched PRESTO regional fare card
- 2010
 - Announced plan to build, own and operate the air rail link – The UP Express



Mitigation Challenge in Ontario

- Provincial Target: 15% reduction in GHG emissions compared to 1990 levels by 2020; 80% by 2050; negligible emissions by 2100
- Some degree of climate change is inevitable
- Adaptation is necessary



Adaptation and Resiliency Challenges in Ontario

- Multi-modal and integrated transportation system can enhance a region's resiliency
- Regional transportation system needs to be resilient and adaptable

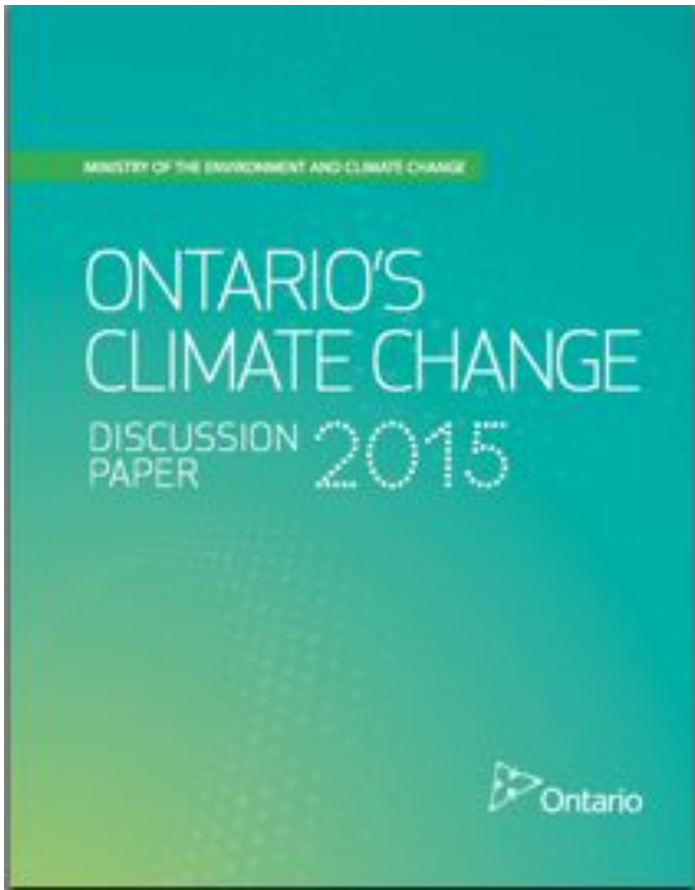


Resiliency at Metrolinx

- **PRIORITY V:**
Ensure that Metrolinx is a trusted organization with the capacity and flexibility to deliver the Regional Transportation Plan
 - 18d. Achieve progress towards **sustainability**
 - Establish a corporate **Climate Adaptation Plan** covering facilities, practices and protocols, by 2018.
- Resiliency is one of four priority areas under the Environment theme in the Sustainability Framework

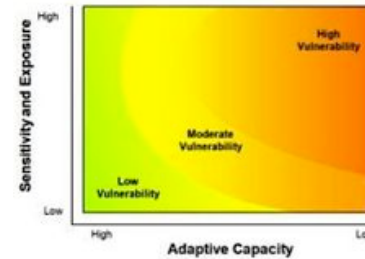
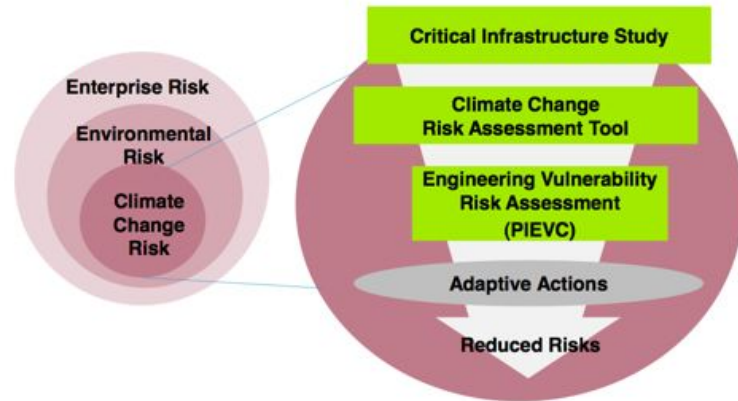


Policy and Standards

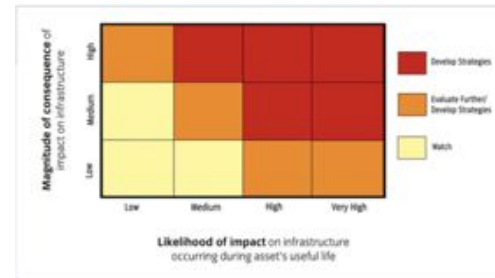


- Canadian Standards Association/National Building Codes of Canada: examples in permafrost, snow loads, and buildings in tornado prone areas
- ISO, BOMA BEST: considering developing an adaptation standard
- Ontario's Long-Term Infrastructure Plan: proposing to link funding with risk assessment
- Risk assessment framework and tools

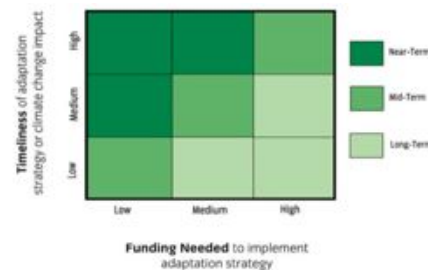
Canadian Best Practices: Climate Change Risk Assessment Tools



- Vulnerability



- Risk



- Prioritization

