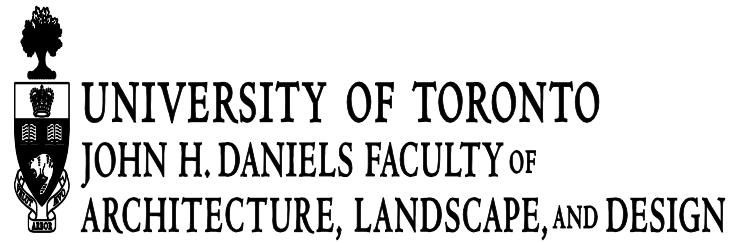


# TALK transformation!

**PREPARING FOR AN EXTREME WEATHER FUTURE  
– INFRASTRUCTURE & COMMUNITY RESILIENCE**



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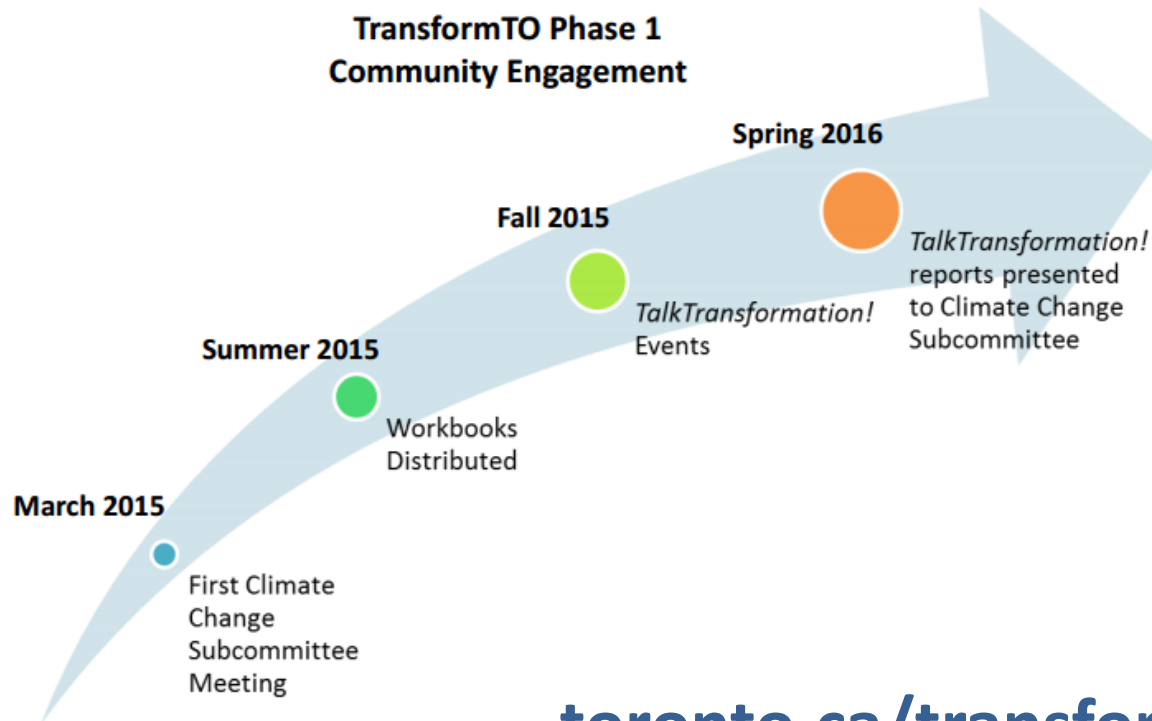


# Agenda

- **Welcome: Gord Perks, Councillor, Chair of Climate Change Mitigation and Adaptation Subcommittee**
- **City Staff Presentation**
- **Panelist Discussion**
- **Questions**



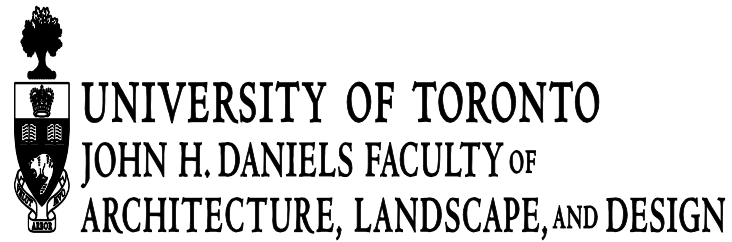
Climate action for a  
healthy, **equitable**,  
prosperous **Toronto.**



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‘Resilience is about making people, communities and systems better prepared to withstand catastrophic events—both natural and manmade—and able to bounce back more quickly and emerge stronger from these shocks and stresses.’

*Rockefeller Foundation*

# Toronto's **Future Weather**\*



**DAILY  
TEMPERATURE  
MAXIMUM**

44°  
celsius

2040-50

37°  
2000-09



**HOT DAYS**

66  
above 30°

2040-50

20  
2000-09



**EXTENDED  
HEAT WAVES**

2.5  
per year

2040-50

0.6  
2000-09



**DAILY  
RAINFALL  
MAXIMUM**

166  
millimetres

2040-50

66  
2000-09



**HEAVY RAIN  
DAYS >25mm**

9  
per year

2040-50

19  
2000-09

\*Source: Toronto's Climate Driver Study, 2011

\* BUT, the "10 Year return period Maximum Daily Rain" doubles from 62 mm to 135 mm.  
(i.e. Fewer large rainfalls > 25 mm, but more really damaging maximum rainfalls)

# Extreme Rain / Flooding

- Wet Weather Flow Master Plan
  - 25 year, \$1 billion plan
- Basement Flood Protection Program
- Design guidelines/standards/  
Green Streets pilots



# Health

- Extreme heat/cold response
- Vulnerable populations
- Tree canopy / green space / community gardens



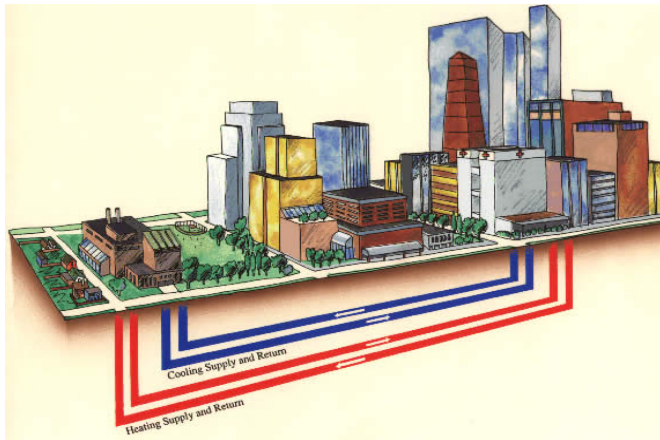
# Transportation

- Cooling fans / traffic signals
- Permeable Pavements
- Public transit / hybrid vehicles
- Complete Streets



# Energy

- Conservation / efficiency
- Renewables
- Community Energy Planning

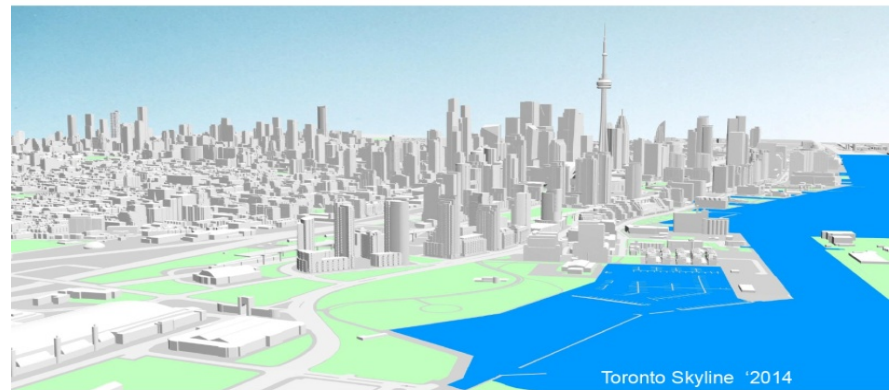


# Green Development

- Toronto Green Standard
- Green Roof By-law
- Official Plan Review



2000



2014



# Tonight's Speakers

- **Seana Irvine**, Evergreen
- **Dr. Lucy Cummings**, Faith & the Common Good
- **Dr. Patricia McCarney**, World Council on City Data;  
Global Cities Institute, University of Toronto
- **Grant Humes**, Toronto Financial District BIA

# Thank you!

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