



Image: [Prayitno](#)

Air Quality Challenges and Initiatives in the City of Toronto

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Health Impacts of Air Pollution

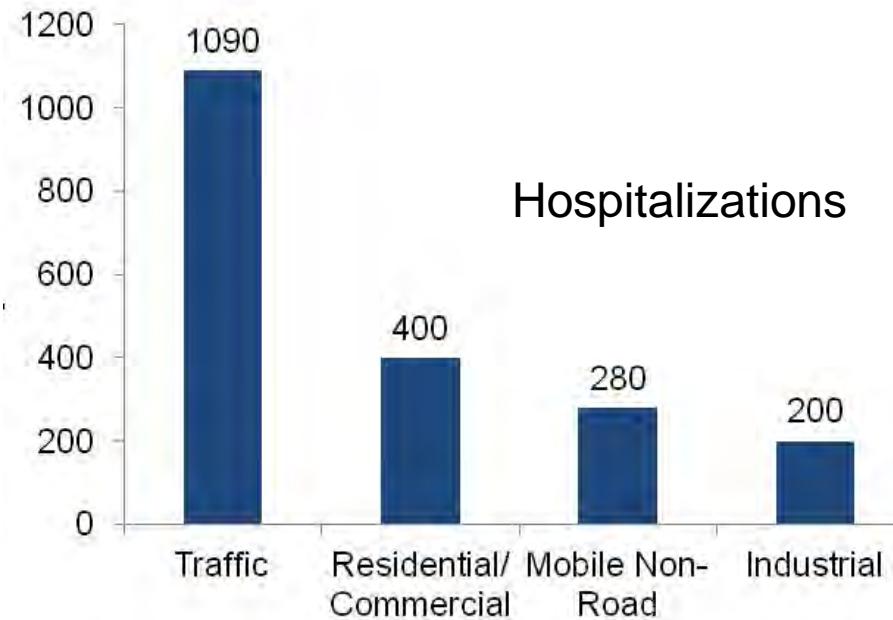
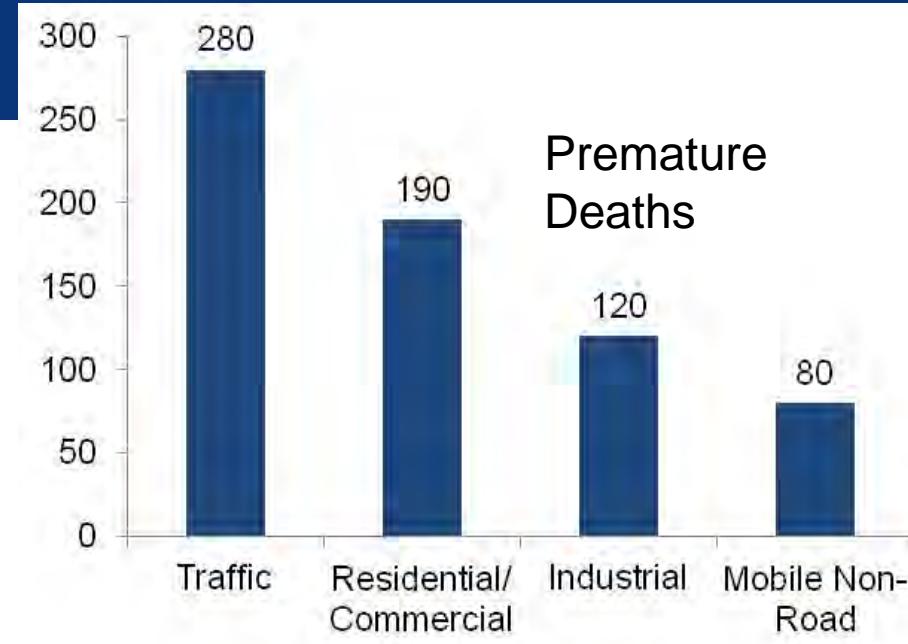
Air pollution in Toronto from all sources currently gives rise to 1,300 premature deaths and 3,550 hospitalizations annually

This represents a decrease of 23% in premature deaths and 41% in hospitalizations as compared with 2004 estimates

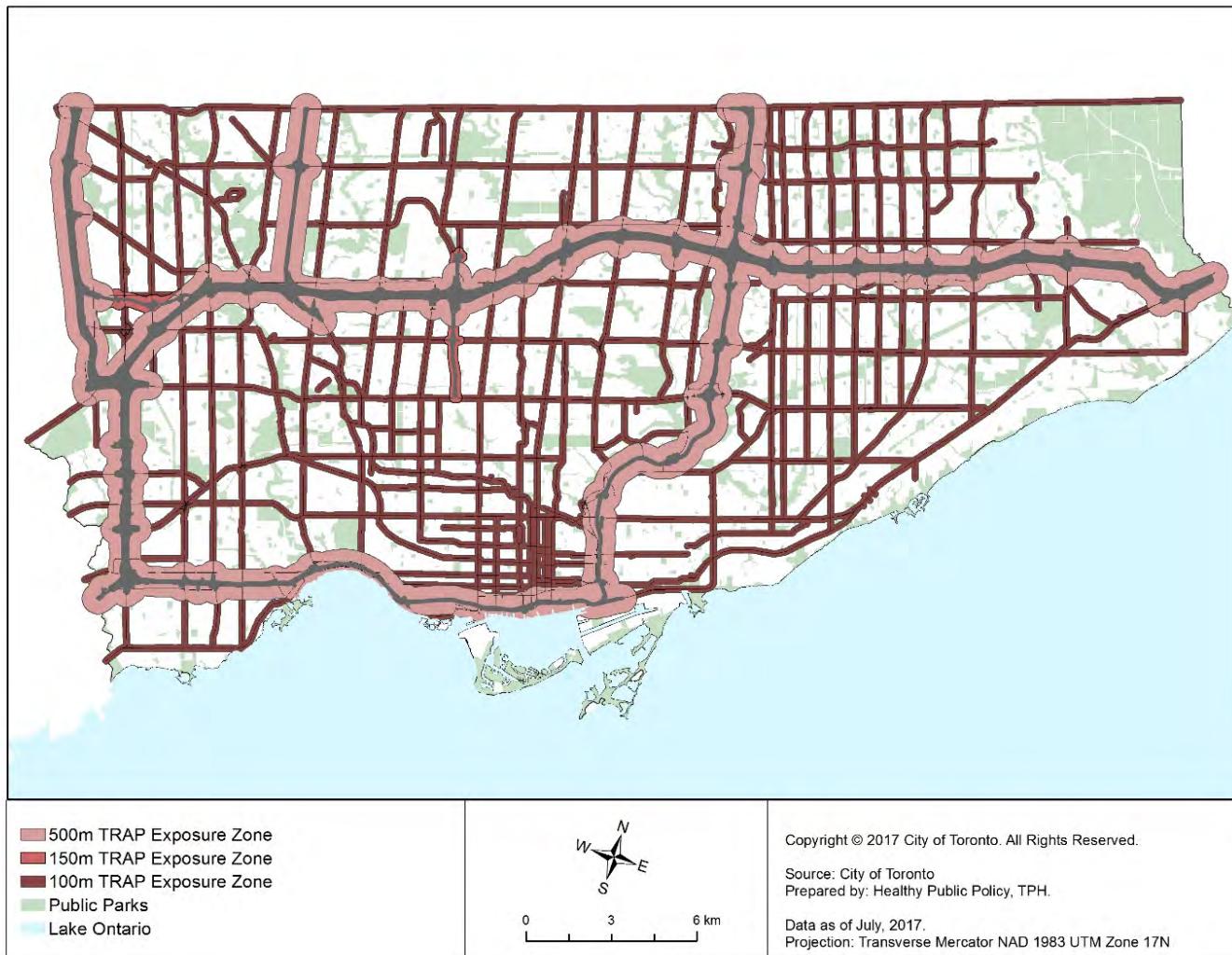
Health Impacts of Toronto Air Pollution

Traffic is the most significant local source of air pollution and resulting burden of illness

Other sources also contribute to the overall burden of illness from air pollution



TRAP = Traffic-Related Air Pollution



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TRAP exposure zones are found throughout Toronto near highways & arterial roads.

Number and percentage of vulnerable sites in TRAP zones and level of TRAP exposure in Toronto

Location	Within 500 metres of multiple major highways	Within 500 metres of one major highway	Within 150 metres of a highway with AADT > 50,000 vehicles	Within 100 meters of one or more arterial roads with AADT > 15,000 vehicles	Farther from highways & high-volume arterial roads
Facilities	Number (%)	Number (%)	Number (%)	Number (%)	Number (%)
Child care centres	11 (1 %)	129 (13 %)	2 (0.2 %)	367 (36 %)	497 (49 %)
Schools	20 (2 %)	131 (12 %)	2 (0.2 %)	333 (29 %)	644 (57 %)
Long-term care centres and seniors' homes	0 (0 %)	27 (16 %)	0 (0 %)	80 (47 %)	65 (38 %)

There are numerous sensitive-use buildings in the TRAP exposure zones.

Reducing Exposure to TRAP



There are ways to mitigate exposure at these sites

Next Steps: Develop best practise guidance document to inform “buildings stakeholders”
eg., City facilities, industry professionals, facility operators, builders, developers, designers, architects, engineers...

Influencing policy through partnership

Ensuring that air-quality related health impacts are considered...



Image: [TTC](#)

**Actions under
Toronto's
Climate Change
Mitigation Plan**

Influencing policy through partnership

Ensuring that air-quality related health impacts are considered...



**Toronto's
Electric
Vehicle
Strategy**

Influencing policy through partnership

Ensuring that air-quality related health impacts are considered...



**Toronto's
Automated
Vehicles
Tactical
Plan**

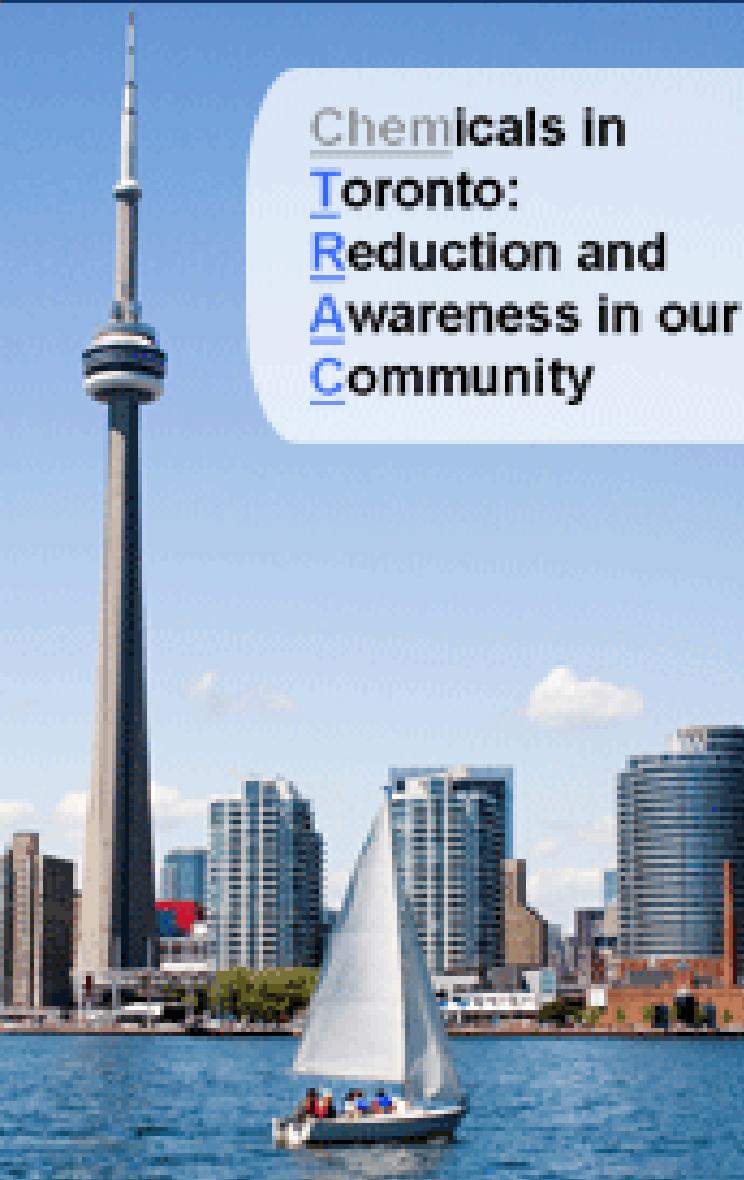
Predicting impact of new/disruptive technologies

Limited capacity for monitoring or modelling

- Ability to understand current status
- Ability to predict impact of interventions
- Ability to measure impact of interventions

Wicked problems: eg., bike lanes near busy roads?

Opportunity: partnership in research



**Chemicals In
Toronto:
Reduction and
Awareness in our
Community**

- Track use and release of 25 priority substances by industries
- Increase public awareness of priority substances and reduce pollution from industrial and commercial sources

Three components:

1. The Environmental Reporting and Disclosure Bylaw
2. ChemTRAC's interactive map
3. Pollution prevention

ChemTRAC Data Disclosure

Interactive map

Downloadable data

www.toronto.ca/chemtrac

chemtrac@toronto.ca

416-338-7600

ChemTRAC Interactive Map

[Print](#)

You may download the ChemTRAC Data in CSV format.

Filter

Year	2017 -	Report	All (3) -
Industry	All -	Substance	All -
<input type="button" value="Reset"/>		<input type="button" value="Apply"/>	

Map

1092 Facilities Found

Last updated on 2019-Feb-21

Map

Reset Map

Legend:

- Reported Chemical Data
- Below Threshold
- Exempt
- Multiple

Results

[By Facility](#) [By Industry](#) [By Substance](#)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Zero (0) - a facility reported to the City that it did not use or release the substance. Dash (-) - the City received no information

Facility - Substances	Manufactured (kg)	Processed (kg)	Otherwise Used (kg)	Used Total (kg)	Released to Air (kg)	Released to Land (kg)	Released to Water (kg)	Released Total (kg)
1625100 Ont Ltd Authentic Windows And Doors [Info]	20 Estate Drive							
163 Auto Collision Inc [Info]	40 Melford Dr							
1635100 Ontario Plastics Inc [Info]	1000 10th St							

Current initiative: Air quality in the TTC subway system

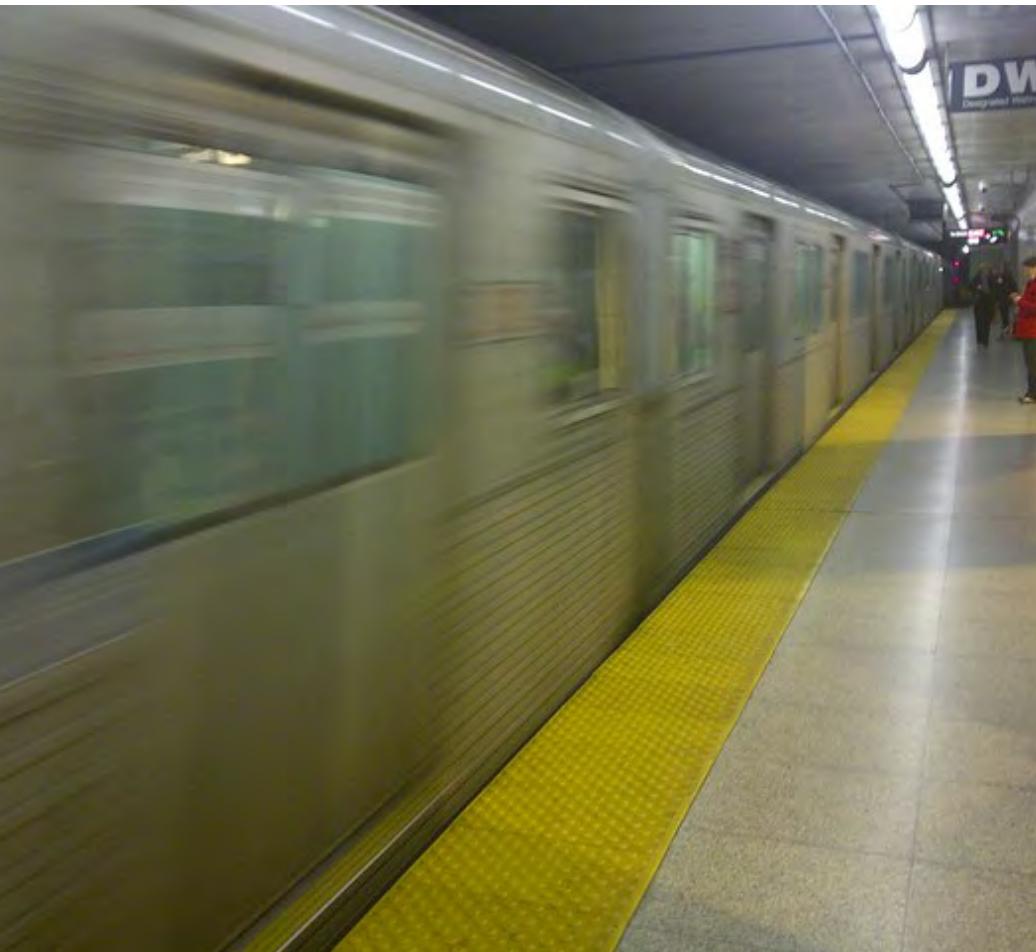


Image: [Dan Levy](#)

Goal: better understand the health impacts of air quality in the TTC subway system for users

Questions?

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