



Image: [Prayitno](#)

Air Quality Challenges and Initiatives in the City of Toronto

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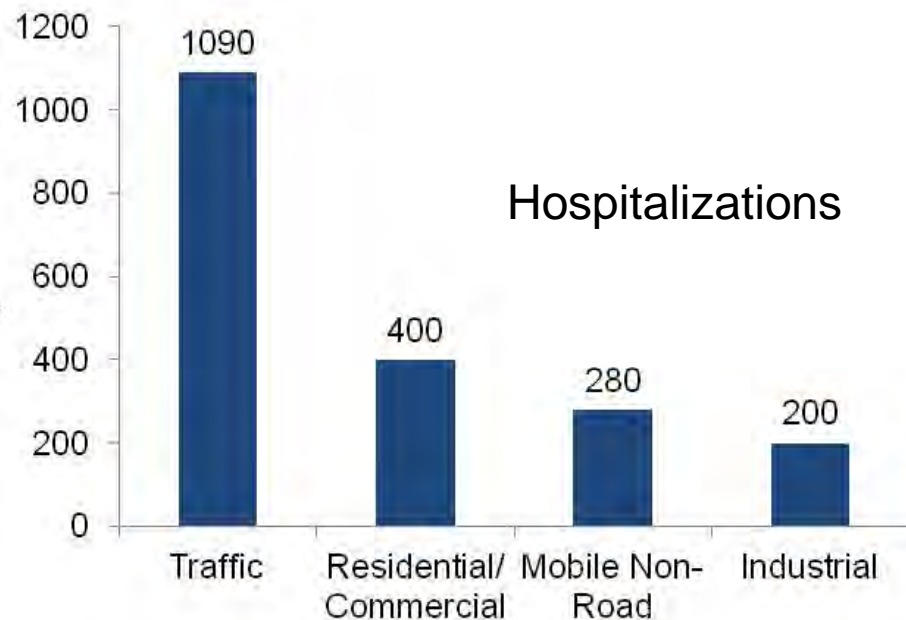
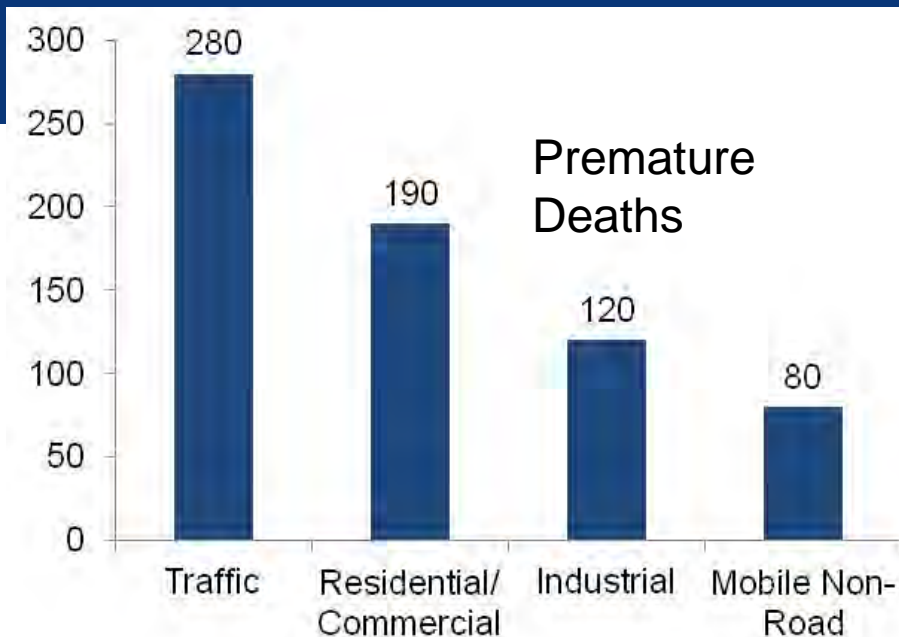
Air pollution in Toronto from all sources currently gives rise to 1,300 premature deaths and 3,550 hospitalizations annually

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

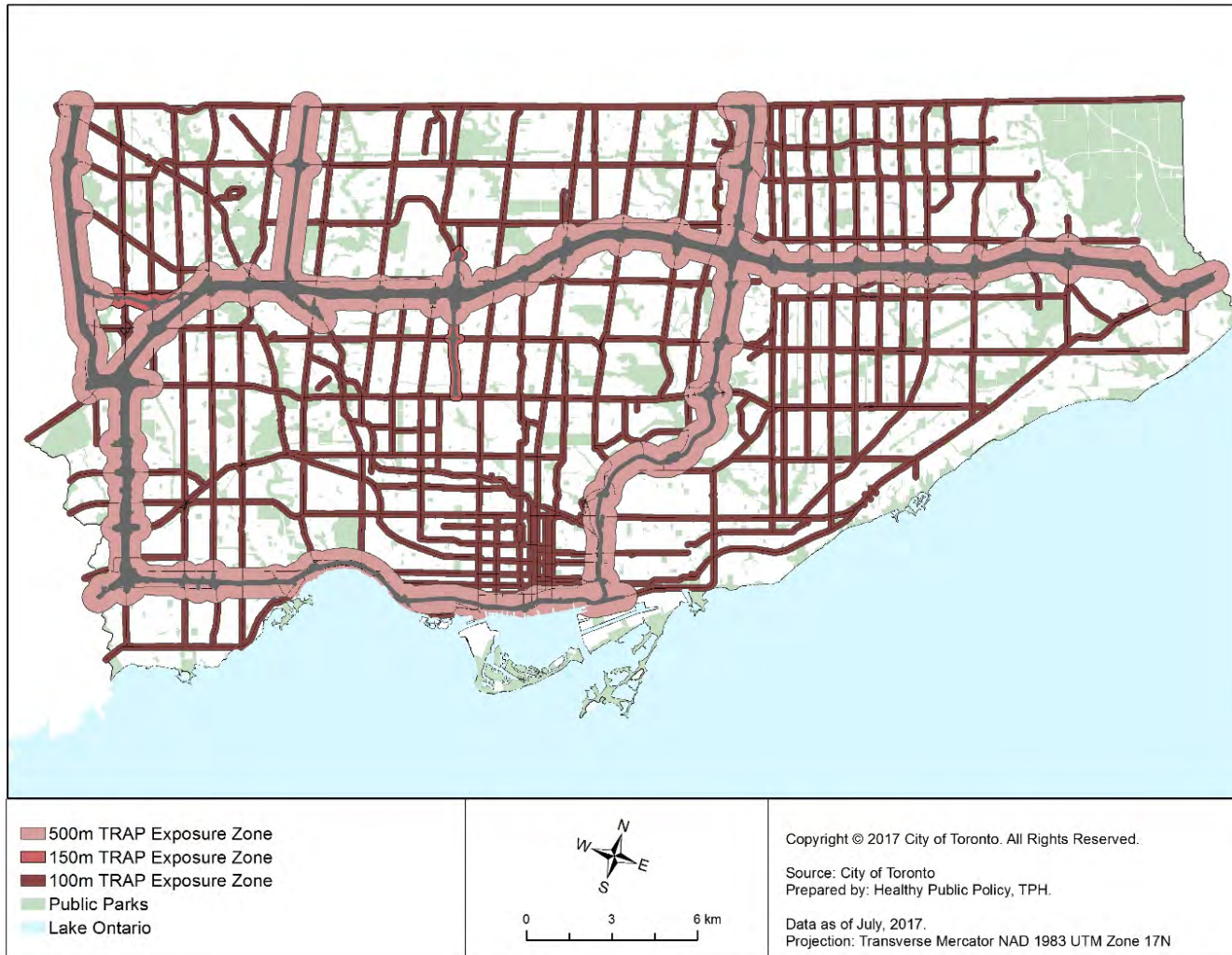
Health Impacts of Toronto Air Pollution

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



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...

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



Image: [TTC](#)

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

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



**Toronto's
Electric
Vehicle
Strategy**

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



Toronto's Automated Vehicles Tactical Plan

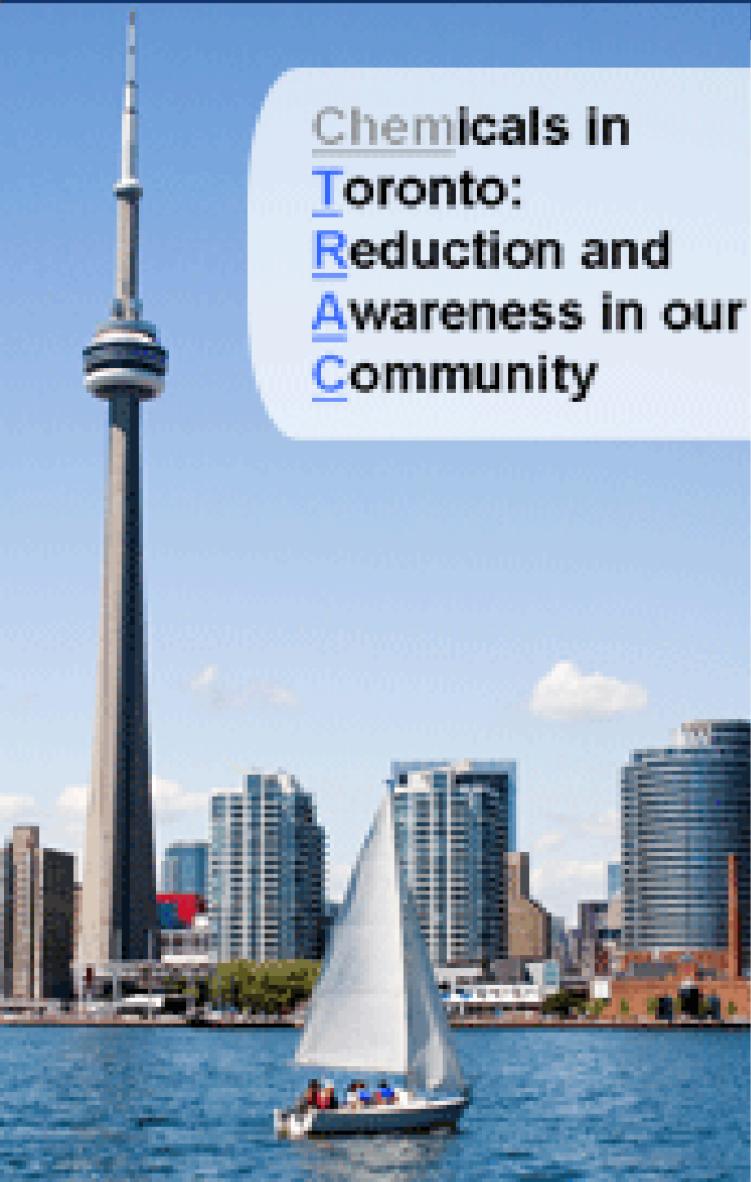
Predicting impact of new/disruptive technologies

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

A photograph of the Toronto skyline across Lake Ontario, featuring the CN Tower and several high-rise buildings. A sailboat is visible in the water in the foreground.

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

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.

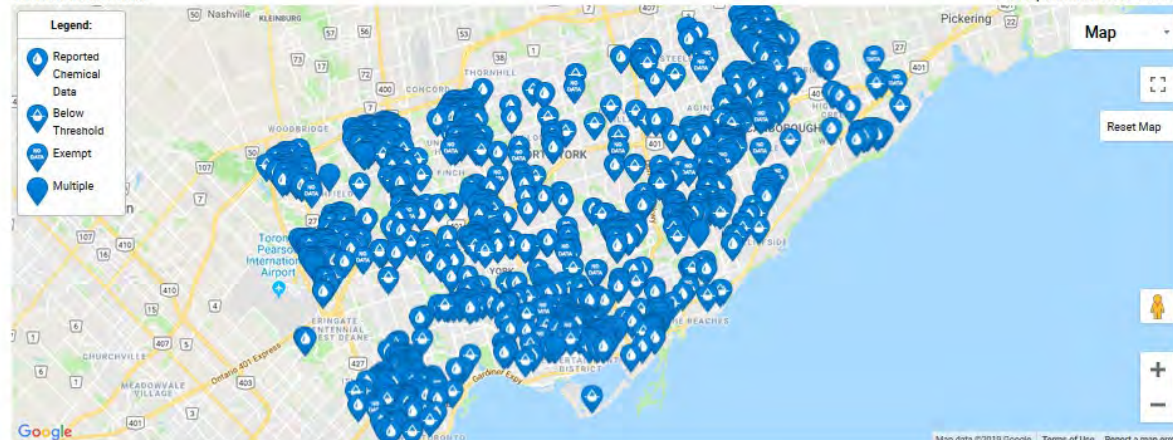
Filter

Year	2017 -	Report	All (3) -
Industry	All -	Substance	All -
Reset		Apply	

Map

1092 Facilities Found

Last updated on 2019-Feb-21.



Results

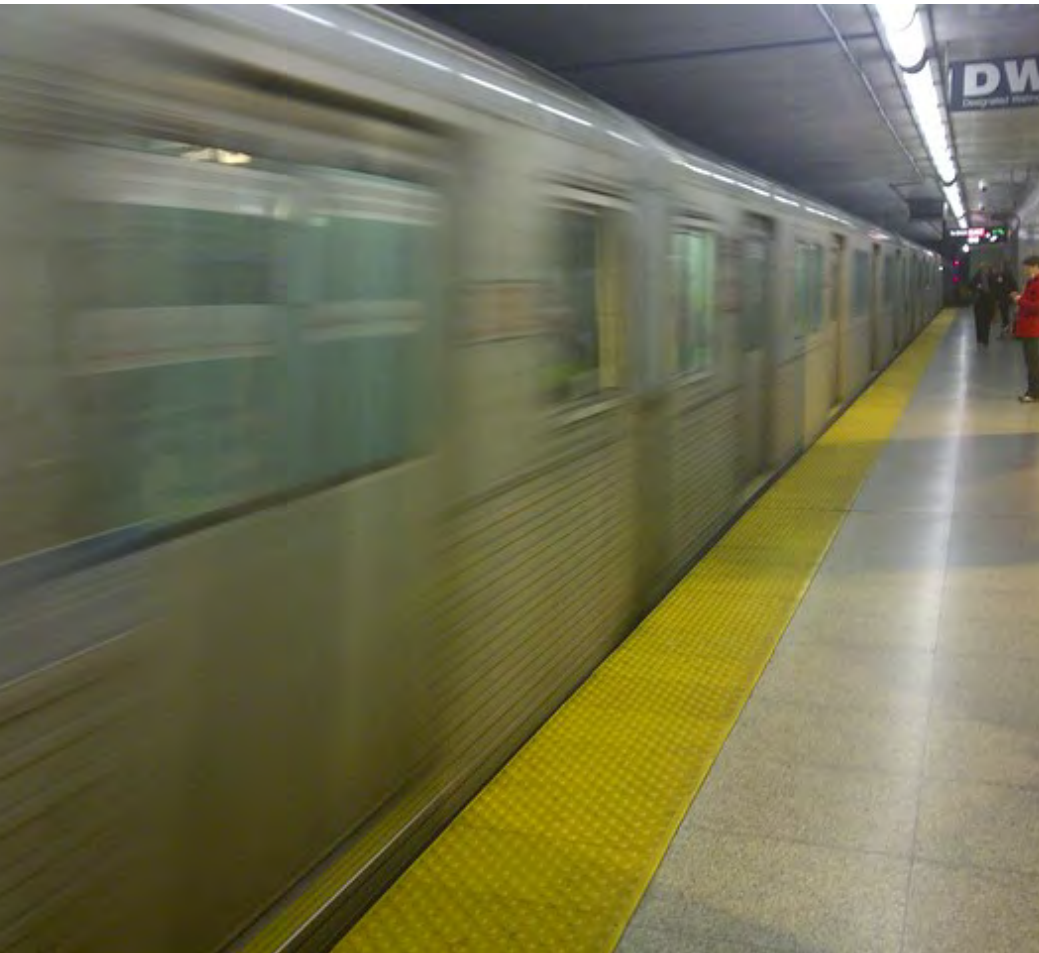
By Facility By Industry By Substance

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	Manu- factured (kg)	Process- ed (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								
▶ 3045606 Canada Inc Dry Cleaners Blue Endol								

Current initiative: Air quality in the TTC subway system



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

Questions?

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