Traffic-related air pollution (TRAP) is a population health concern in Canada. Our current assessment aims to:

- Characterize health effects of TRAP
- Estimate Canadian population exposure to TRAP

Health Canada estimates that anthropogenic air pollution is responsible for 14,400 premature deaths in Canada every year. Transportation is a ubiquitous source of gaseous and particulate air pollution. Preliminary estimates suggest that 1,700 premature deaths in Canada every year are attributable to TRAP.

Causal link for diesel exhaust as a mixture and health effects:
- respiratory (acute & chronic exposure)
- lung cancer (chronic exposure)
- Cardiovascular (chronic exposure*)
- Immunological*

For gasoline exhaust as a mixture:
- inadequate data
- Likely causal

TRAP emissions are leveling off after decades of incremental reductions. True measure of TRAP exposure remains elusive; surrogates are uncertain. National monitoring network not designed to estimate exposure to TRAP; roadside monitoring is needed.