

# **Health and Equity**

## **GGR424 - Transportation Geography & Planning**

March 3, 2022

## **Announcements**

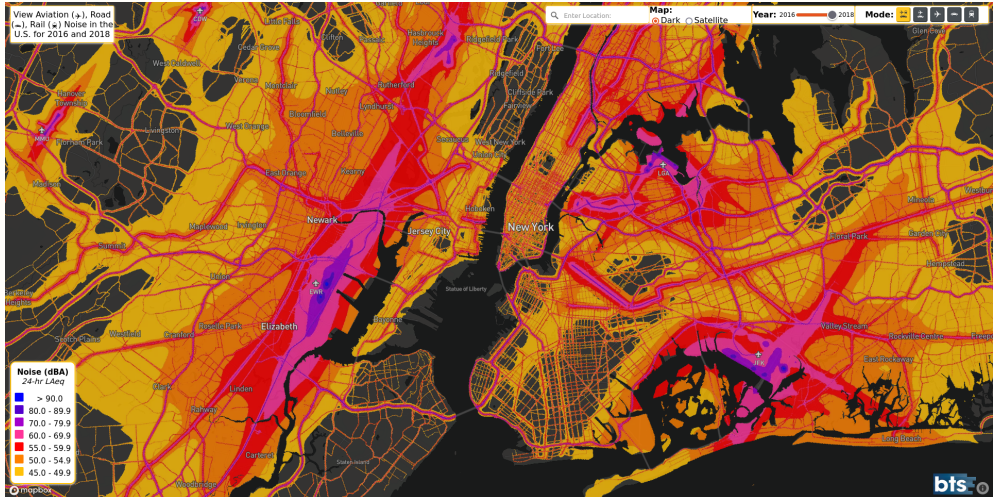
- ▶ Project Proposal due March 10

## **Today**

- ▶ Health impacts of transportation (e.g. pollution, noise, physical activity)
- ▶ How the costs and benefits of transportation are (in)equitably distributed

How can urban transportation affect health and well-being?

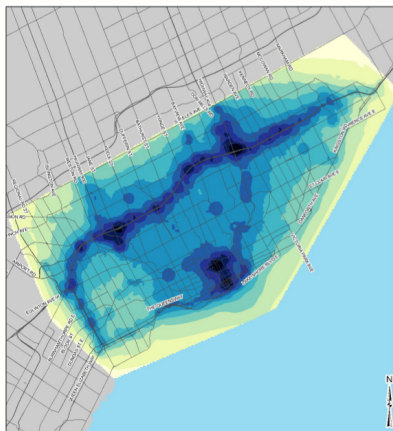
# Noise



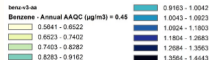
Source: <https://maps.dot.gov/BTS/NationalTransportationNoiseMap/>

City report on health impacts of noise <https://www.toronto.ca/wp-content/uploads/2017/11/8f98-tph-How-Loud-is-Too-Loud-Health-Impacts-Environmental-Noise.pdf>

# Air Pollution



## LEGEND



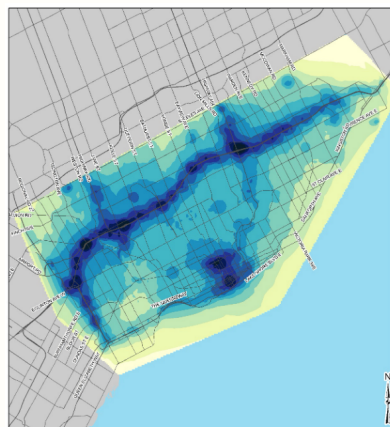
REFERENCE: Population: 2016 Census Data, Toronto, 2016. Source: Environment Canada, 2016.



REPORT TITLE: ANALYSIS MAP -  
ANNUAL AVERAGE CONCENTRATION  
TITLE: BENZENE ANNUAL AVERAGE  
CONCENTRATIONS FROM ALL EMISSION SOURCES

Environment & Energy Division

FIGURE: C-03



## LEGEND



REFERENCE: Population: 2016 Census Data, Toronto, 2016. Source: Environment Canada, 2016.



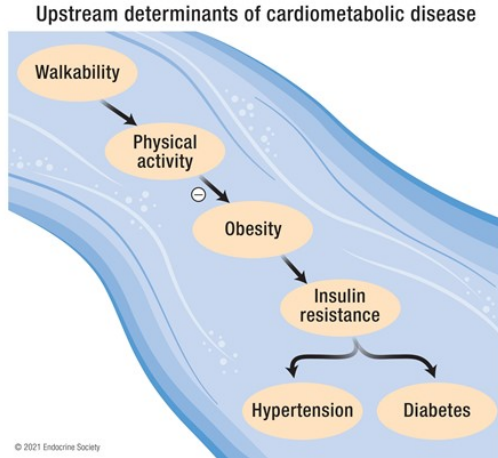
REPORT TITLE: ANALYSIS MAP -  
ANNUAL AVERAGE CONCENTRATION  
TITLE: PARTICULATE MATTER  $<10\mu\text{m}$  ANNUAL AVERAGE  
CONCENTRATIONS FROM ALL EMISSION SOURCES

Environment & Energy Division

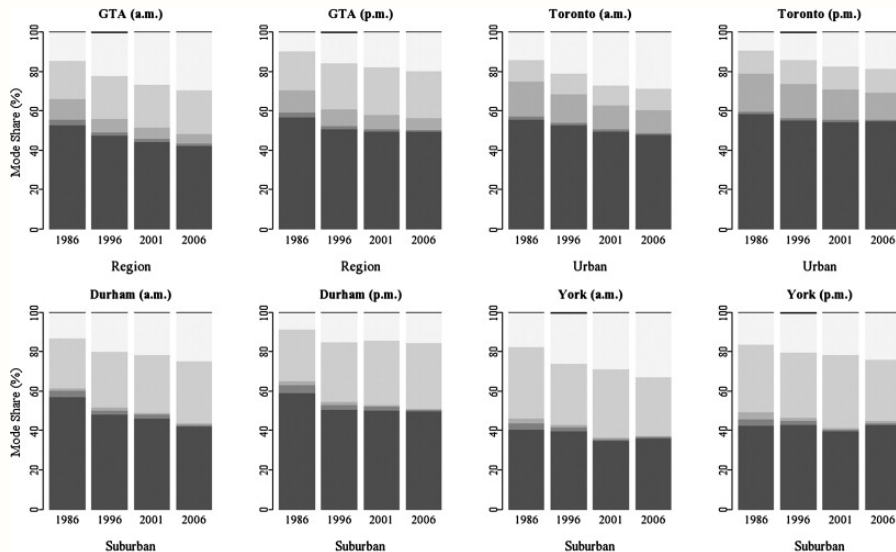
FIGURE: C-22

City of Toronto. Avoiding the TRAP: Traffic-Related Air Pollution in Toronto and Options for Reducing Exposure. Technical Report. October 2017.: <https://www.toronto.ca/legdocs/mmis/2017/h1/bgrd/backgroundfile-108070.pdf>

# Active Travel and Physical Health



The weight of place: Built environment correlates of obesity and diabetes <https://doi.org/10.1210/edrev/bnac005>



School travel mode share (% of trips) by jurisdiction and year (children and youth, 11–13 years of age) in the Greater Toronto Area, Canada (1986–2006).

<https://doi.org/10.1016/j.ypmed.2009.03.001>