

CLIMATE CHANGE & AIR POLLUTION IS THE  
**# 1 threat**  
 TO GLOBAL HEALTH  
 (WORLD HEALTH ORGANIZATION)

Traffic pollution is associated with:  
**NEURODEVELOPMENTAL DELAY**  
**COGNITIVE IMPAIRMENT**  
**ALTERED BRAIN ANATOMY**

**2000**

Air pollution from diesel exhaust was first linked to brain function at the turn of the 21st Century.

**2020**

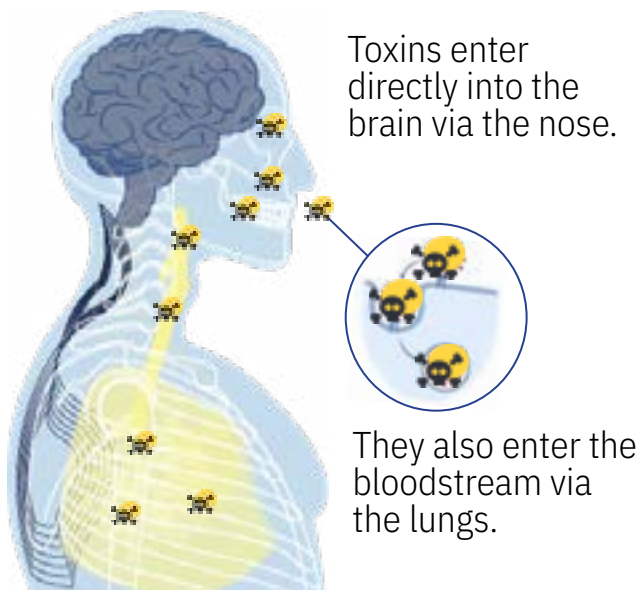
The Lancet Commission added air pollution to the list of **modifiable risk factors for Alzheimer's.**

**Today**

Air pollution is responsible for **6 million deaths per year.**

EPA US, Integrated Science Assessment (ISA) for Particulate Matter (Final Report, Dec 2019)

(Institute for Health Metrics and Evaluation)

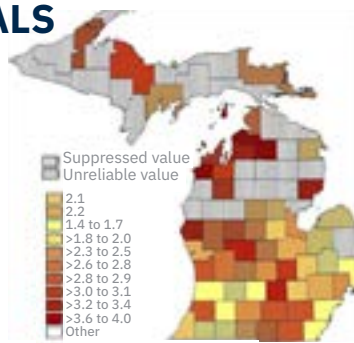


**Particulate Matter, Nitrogen Dioxide & Heat Trapping Gases** are the key pollutants associated with Alzheimer's disease & ALS.

**STATE OF MICHIGAN:  
 CORRELATION BETWEEN SUPERFUND SITES  
 & PREVALENCE OF ALS**



Location of major emissions of toxic substances in Michigan. Facilities from the Toxic Release Inventory (TRI) System for 2011 and locations of National Priority List (NPL) Superfund sites are shown.



Age-adjusted death rates for motor neuron disease a.k.a ALS (ICD-10: G 12 2) in Michigan from 1999 to 2010. Rates expressed per 100,000 population using 2000 US standard population.

**THE ENVIRONMENT**