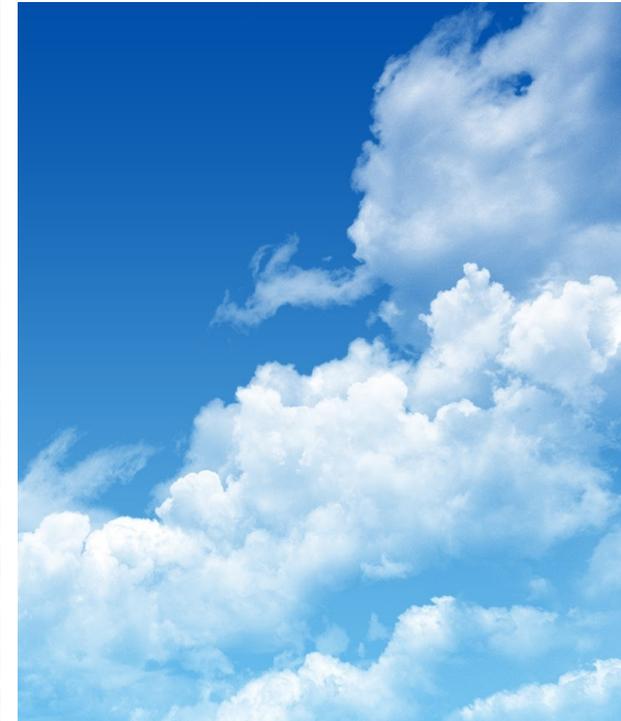


Opening session:

The Air That We Breathe

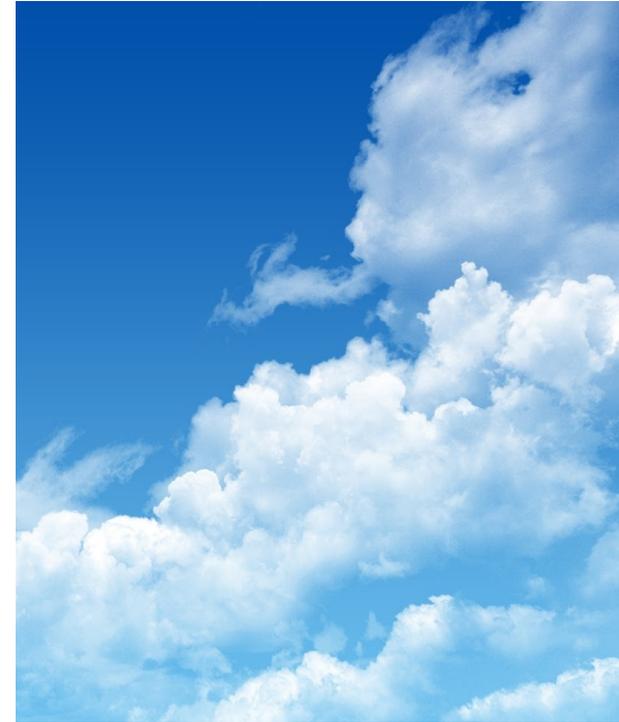
World Environment Day 2019: Beat Air Pollution
5 June 2019, ADB



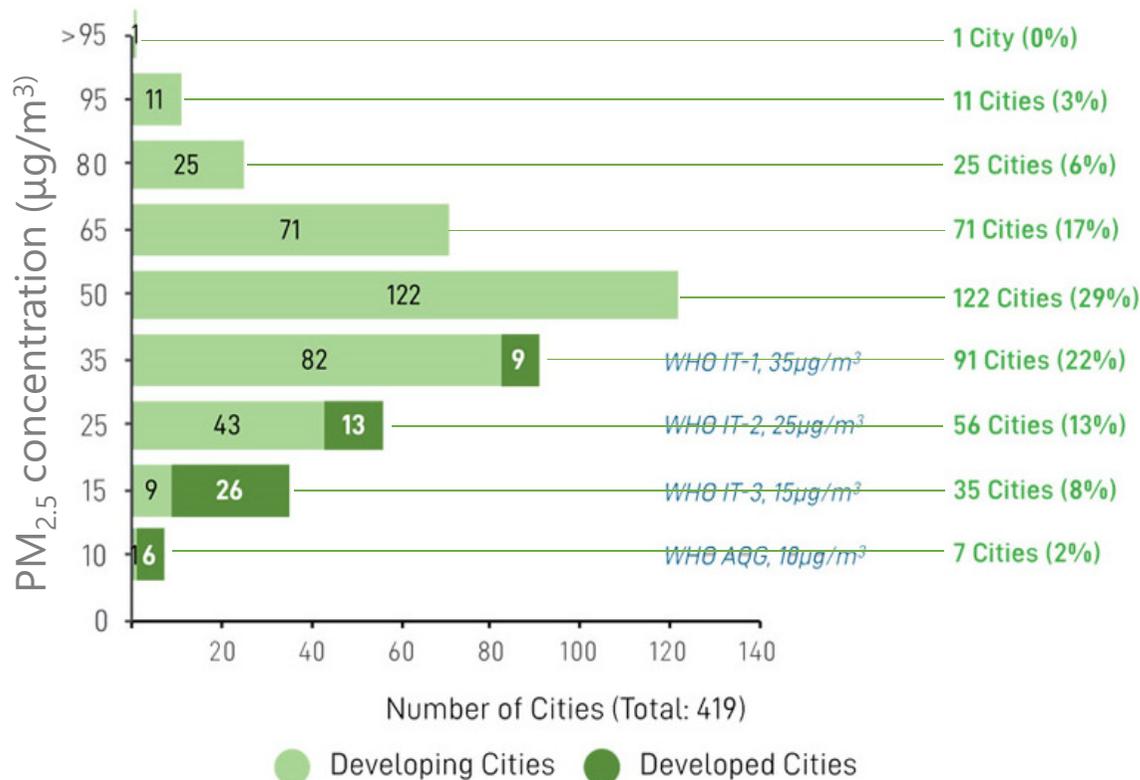


Air Pollution in Asian Cities

Glynda Bathan, Deputy Executive Director, Clean Air Asia



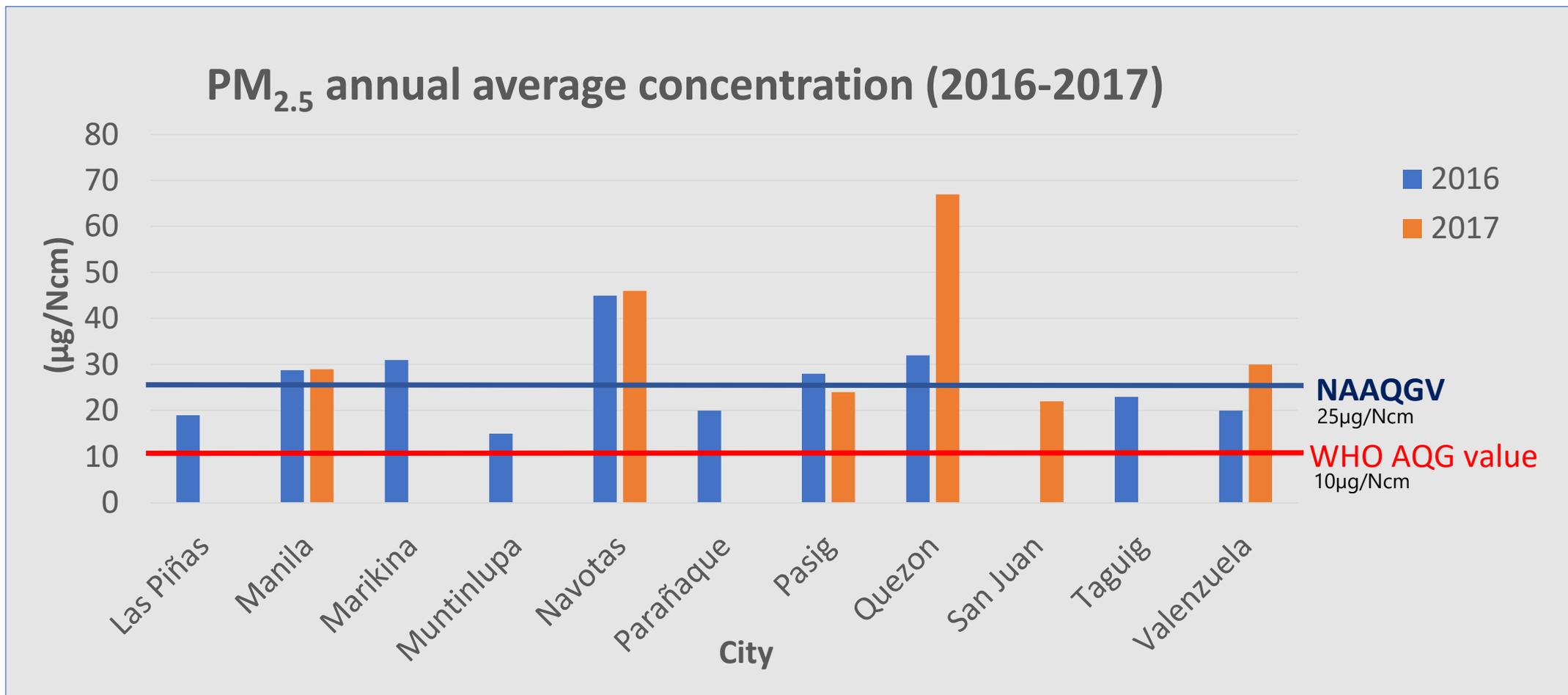
98% of Asian cities are at risk from the health impacts of PM_{2.5} exposure



- The annual average in 419 cities in Asia is 40 µg/m³.
- **Only 7 of the 419 cities met the PM_{2.5} annual average WHO Air Quality Guideline of 10 µg/m³**
- Developed cities have demonstrated better air quality management

Data collected from publicly available official sources compiled by CAA. Data for the last available year in the period 2007-2017 (Clean Air Asia, 2018)

Air Quality in Metro Manila



Data from Department of Environment and Natural Resources, 2018.

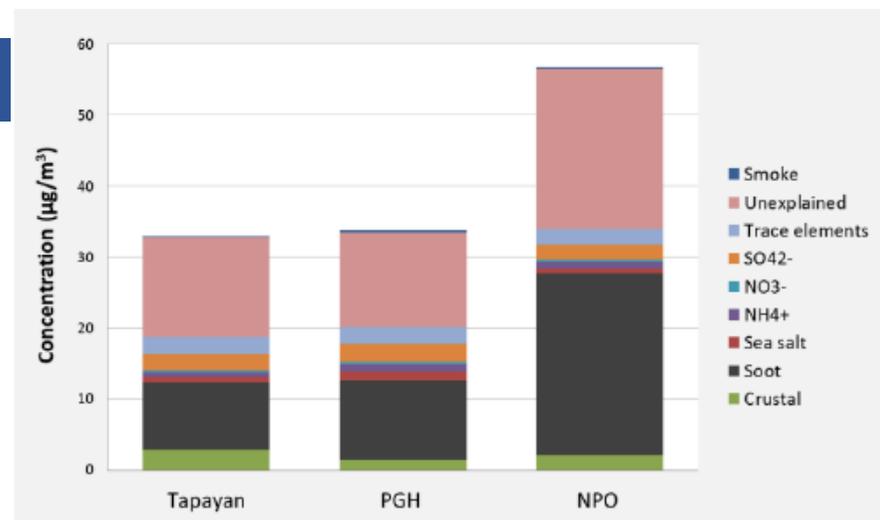
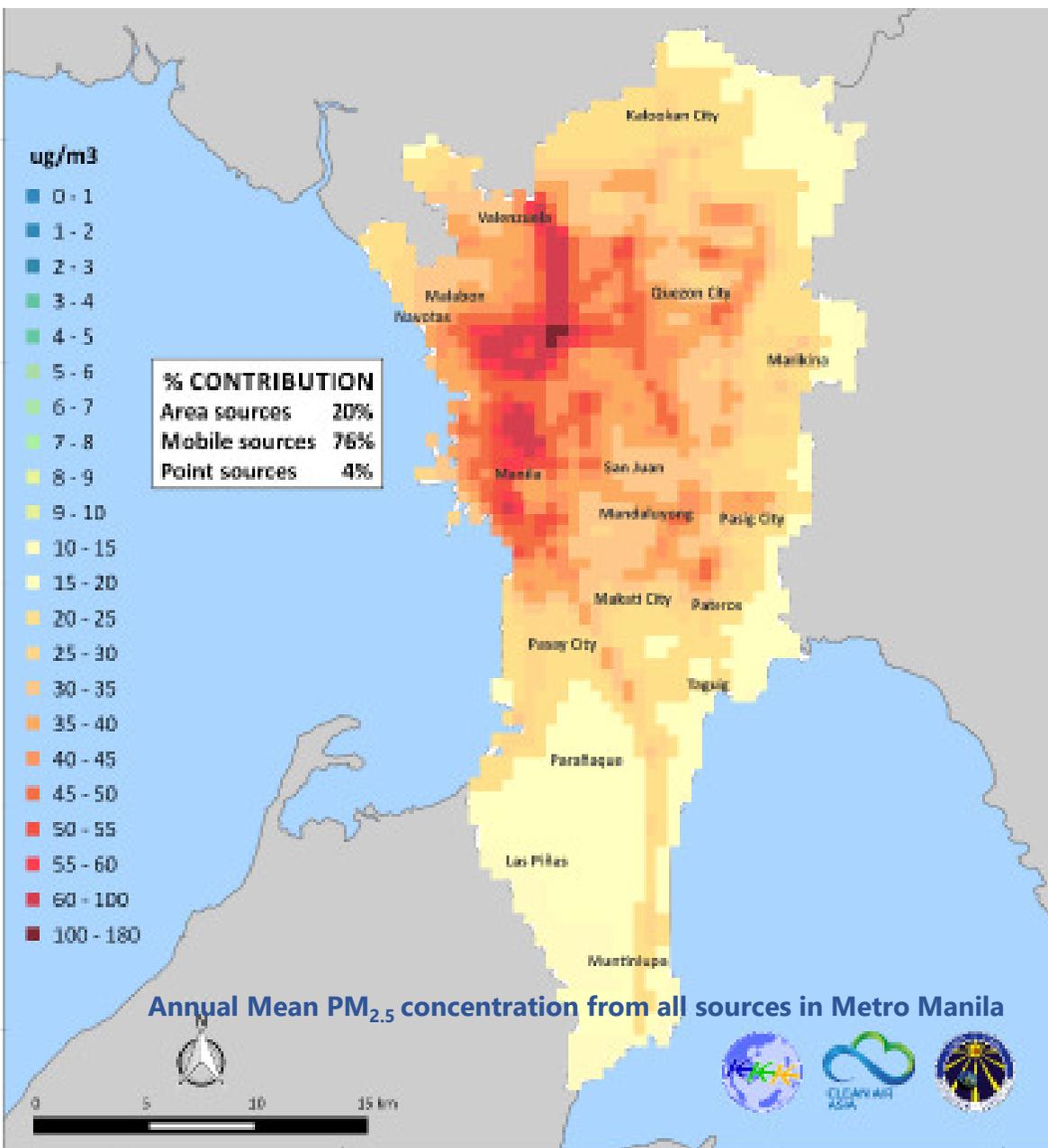
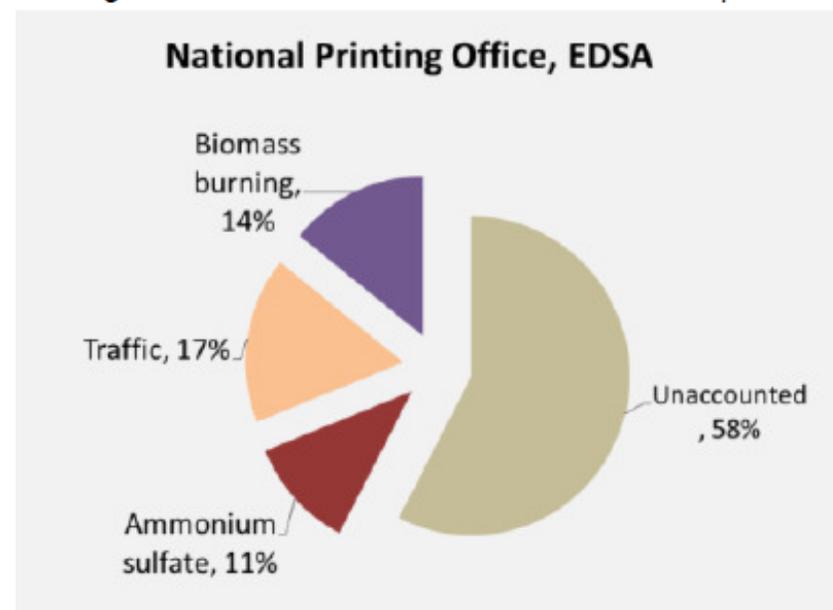


Figure 1. Reconstructed mass of PM_{2.5} samples.



Air Pollutants **can enter** the body through...

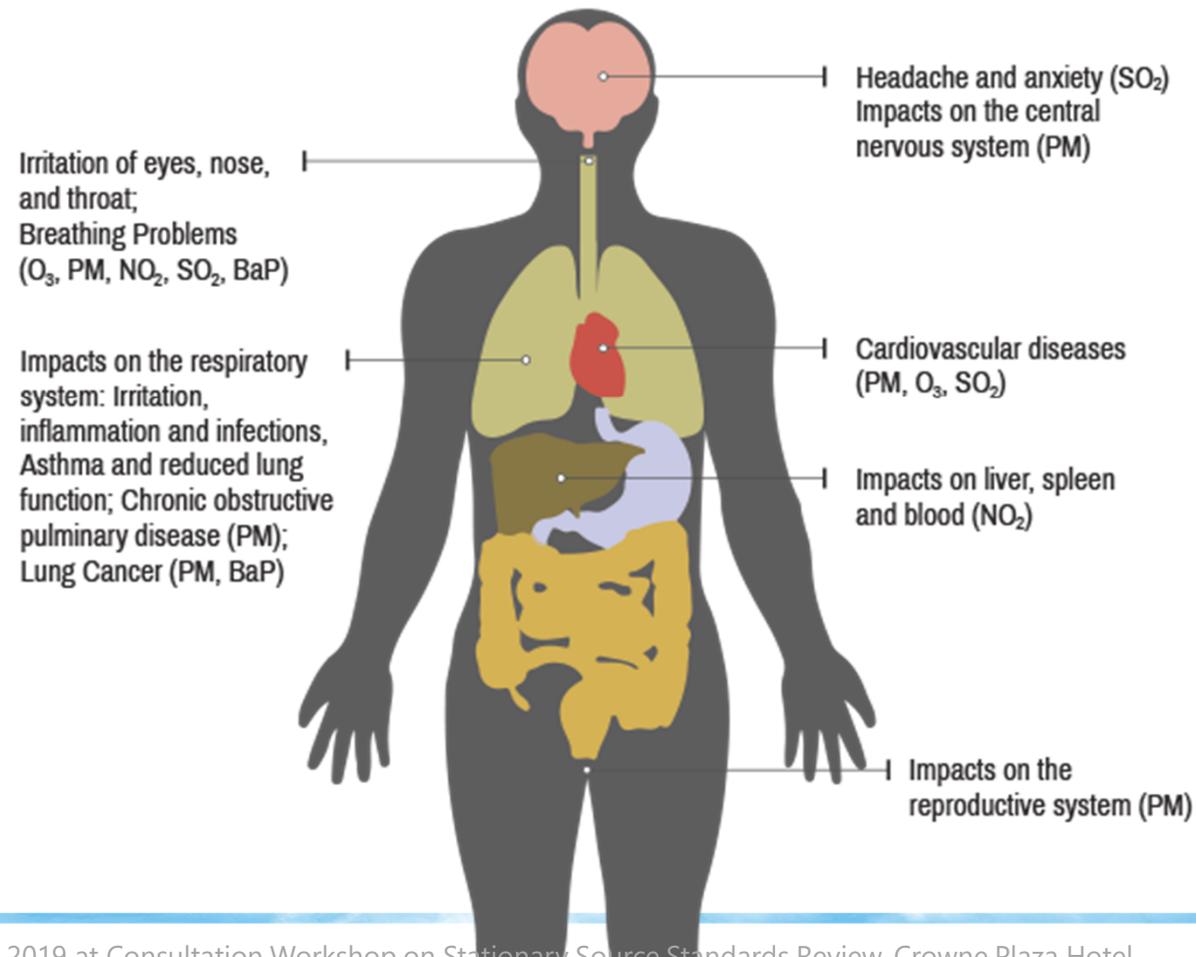
Breathing: exposing the nose, throat, and lungs

Ingestion: air pollutants can deposit on food or vegetation that will be eaten by humans or livestock

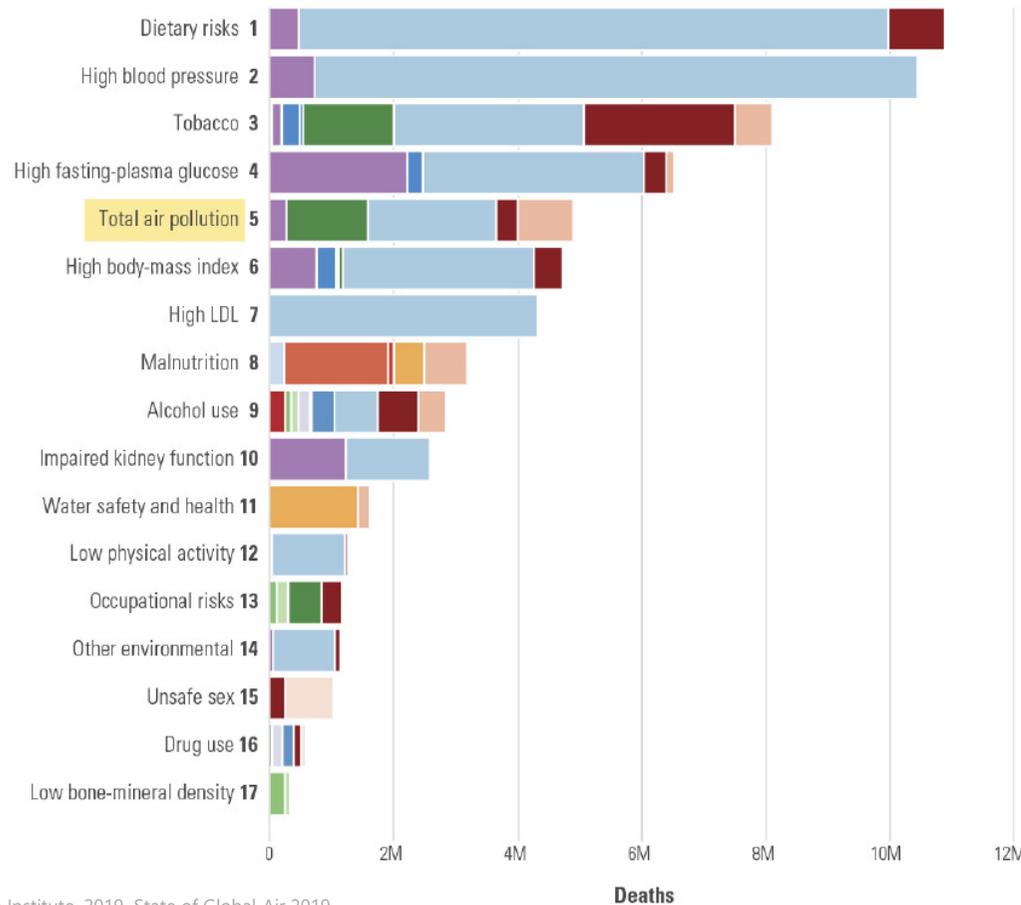
Absorption: through the skin.

...and **spread** their effects throughout the human body

HEALTH EFFECTS OF AIR POLLUTION



Air pollution is the 5th leading global risk factor for premature deaths



- Breathing polluted air increases chances of developing heart disease, chronic respiratory diseases, lung infections, and cancer
- Global air pollution is associated with **~5 million deaths** and 147 million years of healthy life lost
- Air pollution thus contributed **1 in every 10 deaths** in 2017; and **reduces life expectancy by 20 months**

Top 10 countries with highest deaths attributable to air pollution in 2017

1.	China	1.2 million
2.	India	1.2 million
3.	Pakistan	128,000
4.	Indonesia	124,000
5.	Bangladesh	123,000
6.	Nigeria	114,000
7.	United States	108,000
8.	Russia	99,000
9.	Brazil	66,000
10.	Philippines	64,000



THANK YOU!



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