

GLOBAL HEALTH PROGRAM



Katy Walker



Transitions: Aaron Cohen



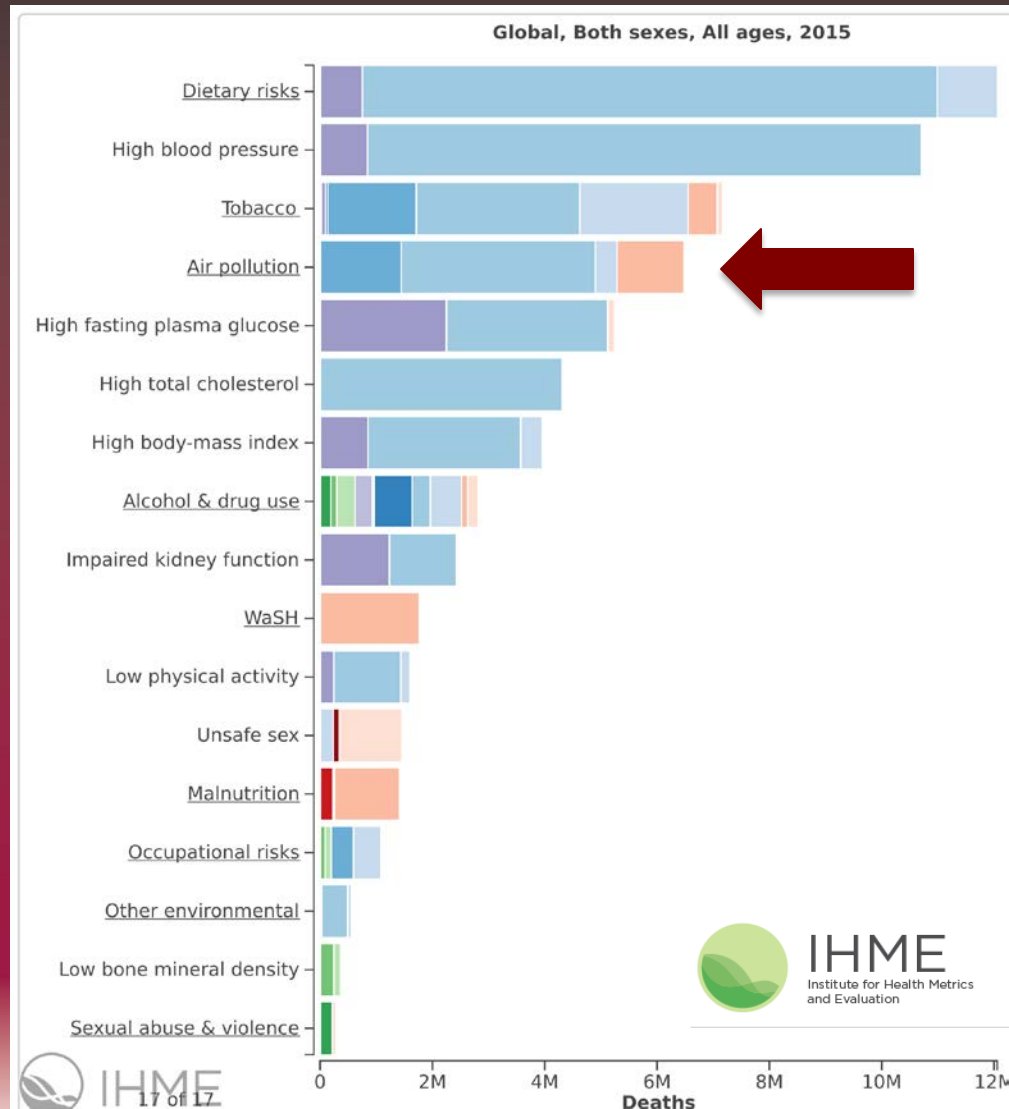
1990

2016



Global Burden of Disease (GBD) Project

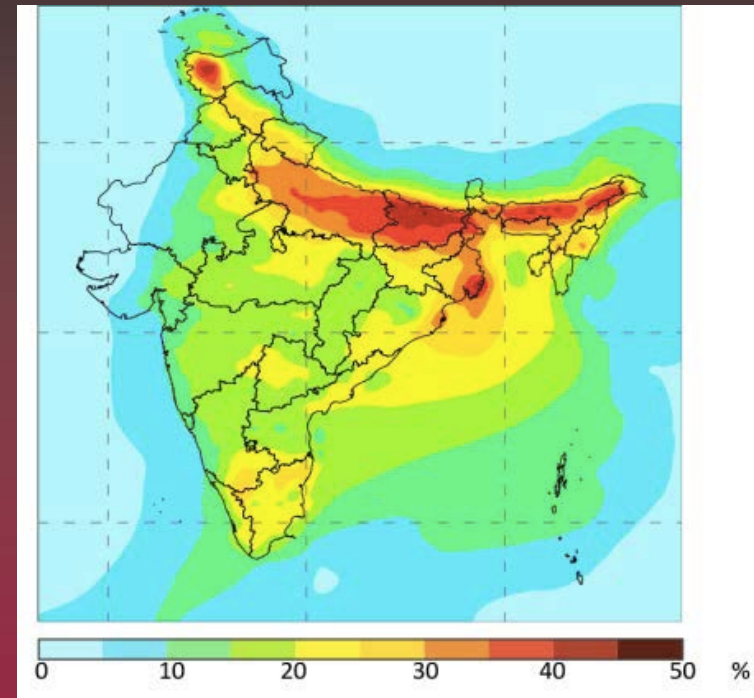
- Provide ongoing support for leadership of GBD outdoor air pollution workgroup
 - Refining and updating integrated exposure response functions
 - Updating global satellite measurements and estimates of PM_{2.5}



GBD MAPS: Global Burden of Disease from Major Air Pollution Sources

- Initiative to understand source-specific contributions to air pollution and burden
 - Current and future control scenarios
- Conducted in China and India
 - In partnership with leading Chinese, Indian investigators (Tsinghua, IIT-B, Others)
 - *China results were published August 2016*
 - *India to be published in Summer 2017*

Domestic Biomass Burning



The State of Global Air:

How Clean is the Air You Breathe?



- A new *Annual Report* and interactive Web Site
- Levels and trends in ambient air pollution and disease burden
- Assist government officials, NGOs, scientists, students and the public in understanding/using latest GBD results

Launched February 2017



Stateofglobalair.org

STATE OF
GLOBAL AIR

HOW CLEAN IS
YOUR AIR?

IMPACT ON YOUR
HEALTH

EXPLORE THE
DATA

READ THE
REPORT



STATE OF GLOBAL AIR/2016

Your source for the latest global, regional,
and country-specific data on air quality and health.

How clean is the air you breathe?

Over 90% of people globally live in areas where fine particle levels exceed global air quality guidelines.

What is the impact on your health?

Air pollution is linked to illness and early deaths, and is the fifth leading risk factor globally.

Explore the interactive data.

Explore your country's air and health using this unique site. View trends, compare, and download data.



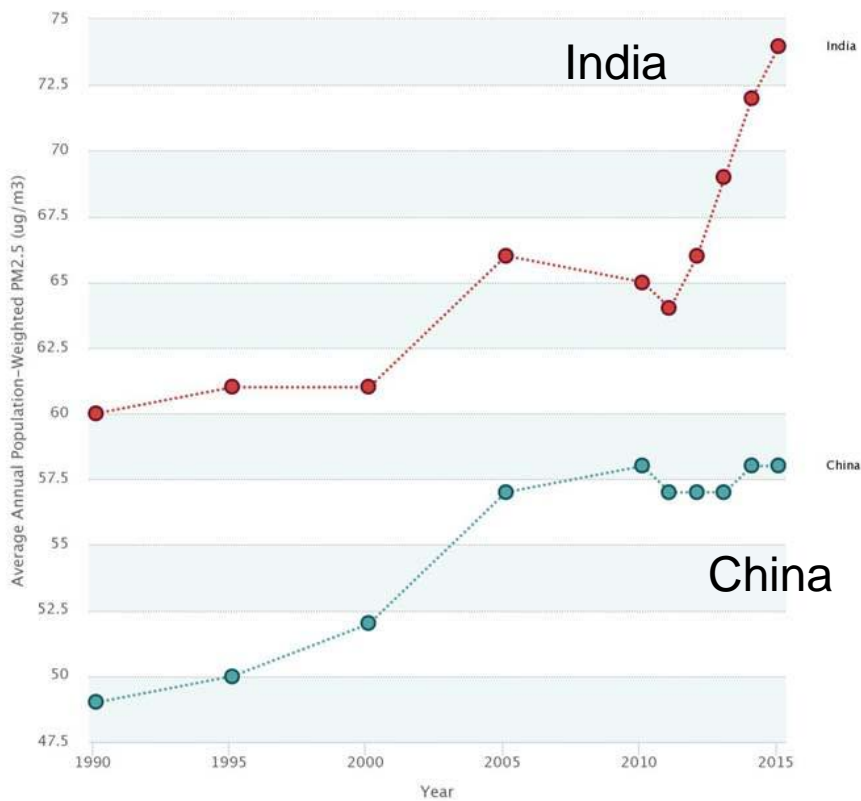
Read the report.

Analysis of the latest air quality and health findings for citizens, policy makers, and scientists.



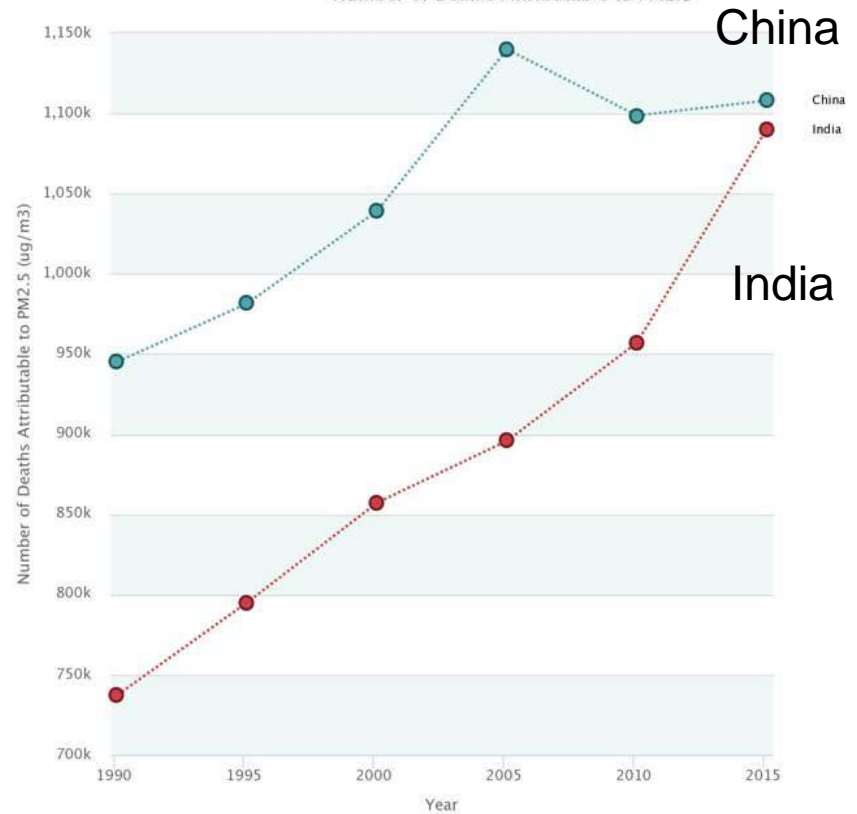
State of Global Air: Display, download the data

Average Annual Population-Weighted PM2.5



Exposure

Number of Deaths Attributable to PM2.5



Mortality



State of Global Air

Extensive Global, Indian and Chinese Coverage

The collage features three newspaper clippings. The top-left clipping is from **The Telegraph**, dated Wednesday, February 15, 2017. The headline reads "India's dirty air deadliest" and "Country tops pollution". The top-right clipping is from **THE HINDU**, dated February 16, 2017. The headline is "The foul air we breathe". The bottom clipping is from **The New York Times**, dated February 14, 2017. The headline is "India's Air Pollution Rivals China's as World's Deadliest".

The Telegraph
calcutta, india | Wednesday, February 15, 2017 |
Today's Edition
Front Page > Story
India's dirty air deadliest
Country tops pollution
A new international report has drawn attention to the deadly pollutants that pervade the air that people breathe in India, causing terrible illness and premature deaths. The State of Global Air 2017 study, conducted jointly by the Health Effects Institute and the Institute of Environmental and Evaluation, quantifies further what has been reported for some time now: that the concentration of fine particulate matter with a diameter of 2.5 micrometres or less (PM2.5) in Delhi, India, is now consistently above WHO levels. The study also indicates that the concentration of PM2.5 in Delhi is now consistently above WHO levels. Prakash, P. (2017) State of Global Air 2017. Health Effects Institute and the Institute of Environmental and Evaluation. Available at: <https://www.who.int/pollution/briefings/20170214>

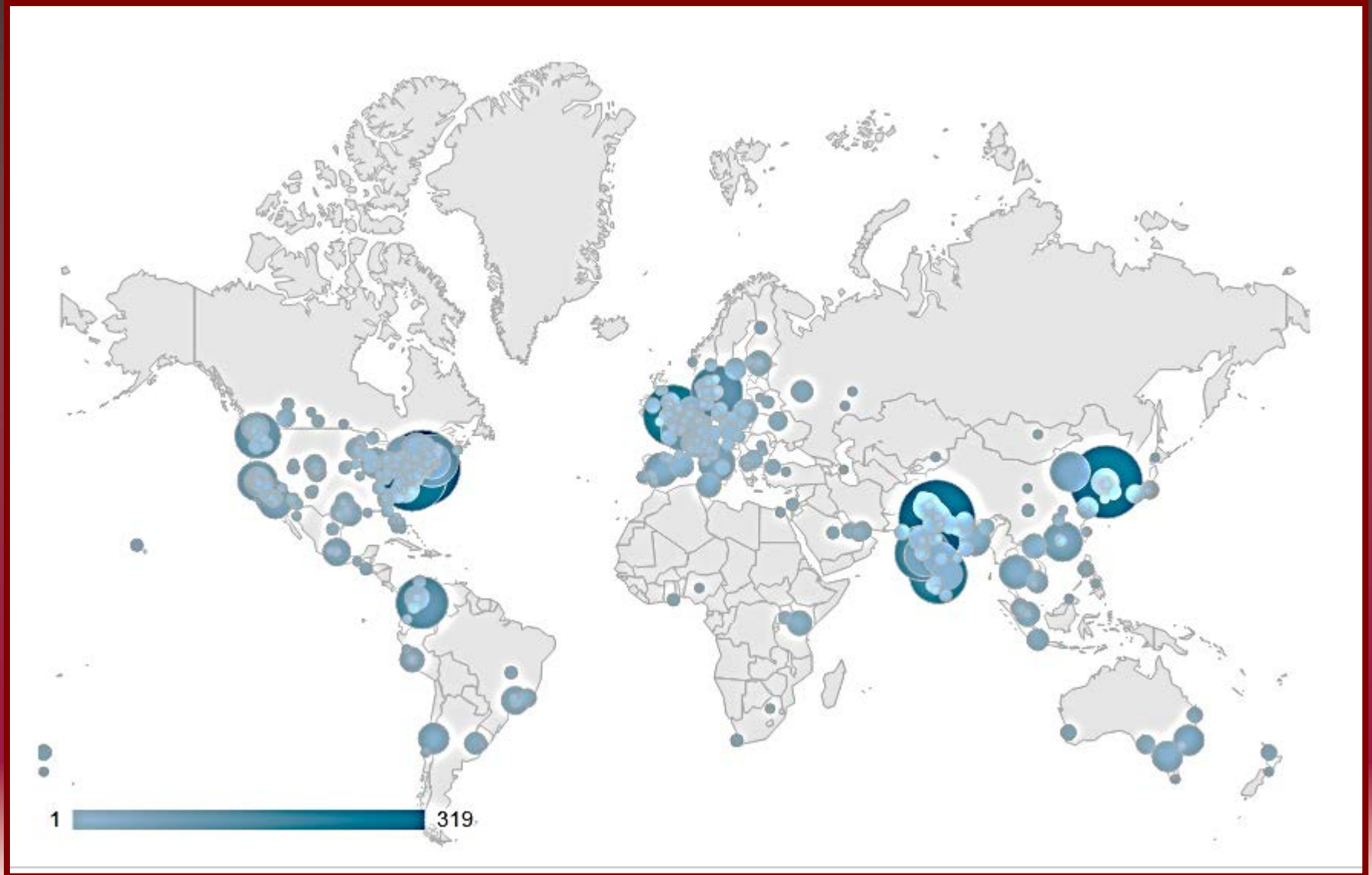
THE HINDU
FEBRUARY 16, 2017 00:02 IST
UPDATED: FEBRUARY 16, 2017 00:08 IST
The foul air we breathe
A new international report has drawn attention to the deadly pollutants that pervade the air that people breathe in India, causing terrible illness and premature deaths. The State of Global Air 2017 study, conducted jointly by the Health Effects Institute and the Institute of Environmental and Evaluation, quantifies further what has been reported for some time now: that the concentration of fine particulate matter with a diameter of 2.5 micrometres or less (PM2.5) in Delhi, India, is now consistently above WHO levels. The study also indicates that the concentration of PM2.5 in Delhi is now consistently above WHO levels. Prakash, P. (2017) State of Global Air 2017. Health Effects Institute and the Institute of Environmental and Evaluation. Available at: <https://www.who.int/pollution/briefings/20170214>

FINANCIAL TIMES
<https://www.ft.com/content/dbcb8502-f1d8-11e6-8758-687615182>
India air pollution deaths poised to exceed China's
Blamed for 1.1m premature deaths a year in each country
14 February 2017 by: Kiran Stacey in New Delhi
India is on the verge of overtaking China as the country with the most air pollution, the world's biggest environmental killer, according to a new study. In 2015 both countries suffered about 1.1m premature deaths from air pollution, the US-based research firm said. India just 18,000 behind China, the US-based research firm said. Air pollution the fifth-highest cause of death in the world. The study also blames burning solid fuels for household heating and vehicle fumes for air pollution.

The New York Times
India's Air Pollution Rivals China's as World's Deadliest
By GEETA ANAND FEB. 14, 2017
NEW DELHI — India's rapidly worsening air pollution is causing about 1.1 million people to die prematurely each year and is now surpassing China's as the deadliest in the world, a new study of global air pollution shows.
The number of premature deaths in China caused by dangerous air particles, known as PM2.5, has stabilized globally in recent years but has risen sharply in India, according to a study issued jointly on Tuesday by the Health Effects Institute, a Boston-based research center, and the Institute of Environmental and Evaluation, a Seattle-based population health research center in Seattle.
India has registered an alarmingly high level of PM2.5, the study says. The study also blames burning solid fuels for household heating and vehicle fumes for air pollution.

HEI State of Global Air

-- Active Online Engagement on Six Continents--



China Ports Initiative

- Health impact assessment
 - Yangtze River Delta
 - Ocean going vessels, river ships, land transport
 - Current/Future policies for emissions controls
- Collaborators:
 - Fudan University, Shanghai Environmental Monitoring Center (SEMC), Shanghai Academy of Environmental Sciences (SAES)
 - Other NGOs



ECA = emissions control area

Non-communicable disease (NCD) burden from household air pollution

- Develop a communication on health burden and costs of NCD
- Convene an expert panel to explore opportunities for reducing exposure



Thanks to many!

- GBD Air Pollution Working Group
- Collaborators in China and India
- HEI State of Global Air Project Team
- Sponsors
 - Hewlett Foundation
 - Oak Foundation
 - Bloomberg Philanthropies

