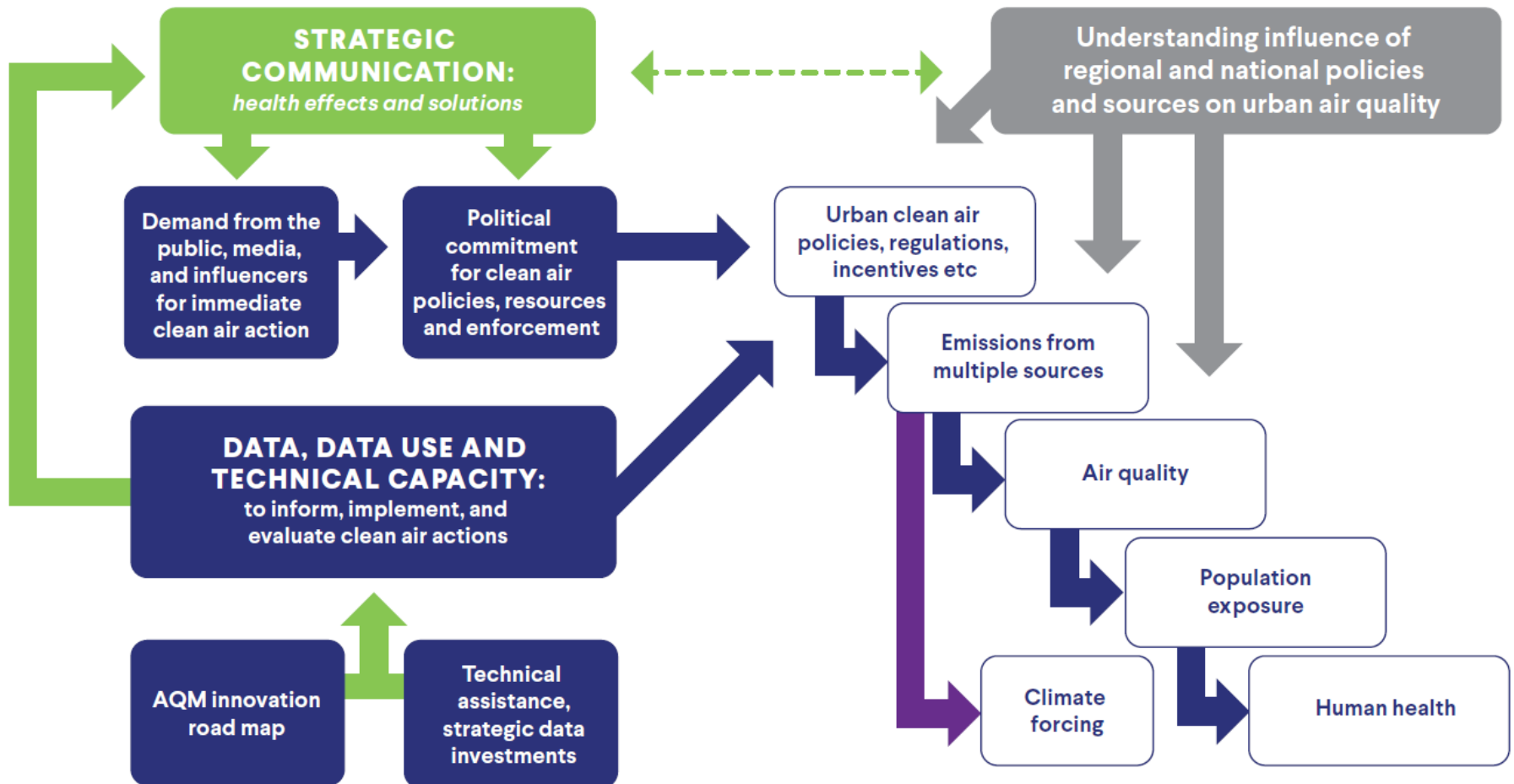


# AIR POLLUTION AND HEALTH:

**Innovations to accelerate progress on  
clean air and climate action**

# Increasing demand for clean air with data and strategic communication



# Air Pollution and Health

## Part 1. Evidence to catalyse local action

- showcase new global and local evidence and approaches being used to make the public health case for actions to improve air quality.

## Part 2. Innovations to accelerate progress on clean air and climate action

- highlight innovative tools and approaches to strengthen the public health case to control emissions and improve air quality.

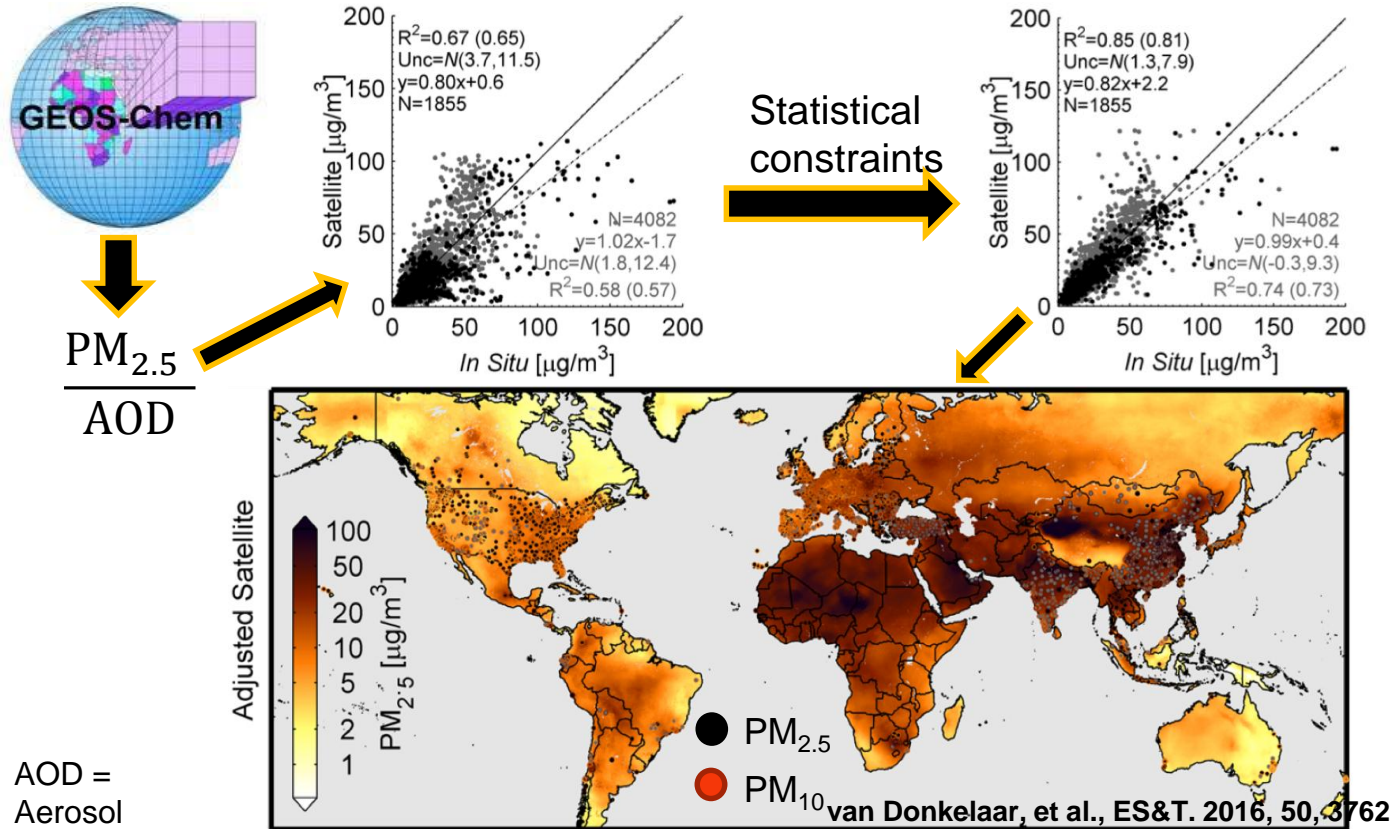
# Goal: Support faster progress on clean air and climate change mitigation

- How can we harness the power of innovations to mobilize civil society around clean air benefits for health?
  - Combining innovations in air pollution monitoring, modelling, and data transparency with proven air quality management approaches
  - Methods to assess air quality to enable robust health impact assessment
  - Innovations in strategic communication to increase societal support and political will for action

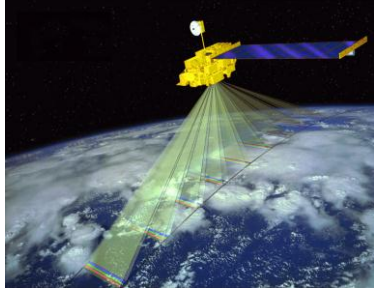
# Overview

- Building a global open-air quality ecosystem **Christa Hasenkopf, openaq**
- Surface PARTiculate mAtter Network (SPARTAN): benchmarking remote sensing with ground-based measurements **Puji Lestari, Institute of Technology, Bandung**
- APNA City: city-specific data on sources and impacts to spur action **Sarath Guttikunda, urbanemissions.info**
- Innovations and current trends in assessing air quality **Jacqueline Lam, C40**
- Strategic communication to increase demand for stronger air quality management **Aanchal Mehta, Vital Strategies**
- General Discussion and Concluding Remarks

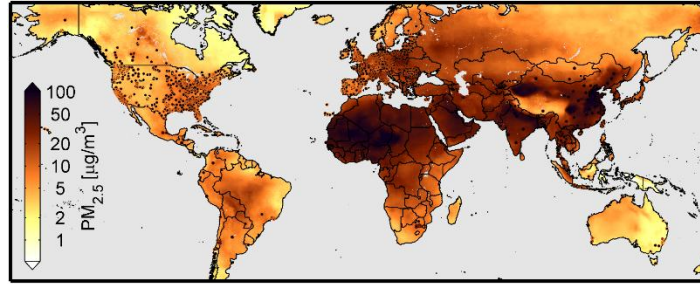
# Satellite-based PM<sub>2.5</sub> estimates help fill in the gaps where monitors do not exist



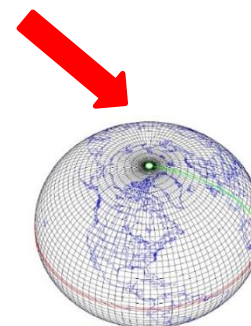
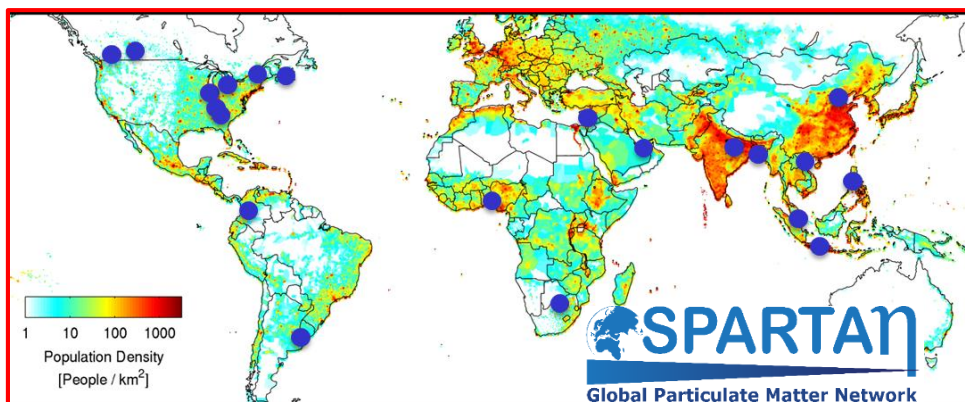
AOD =  
 Aerosol  
 Optical  
 Depth



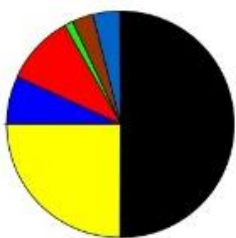
Global satellite-based pollution estimates



Global health/environment assessments (GBD, WHO, OECD, World Bank)



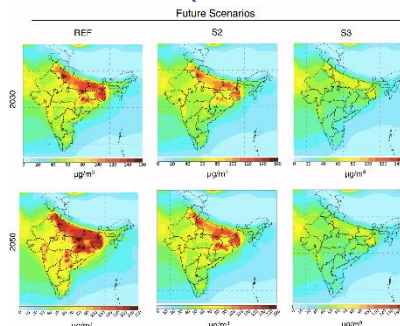
Simulation models for national/regional policy evaluation (GBD-MAPS)



Local pollution source information

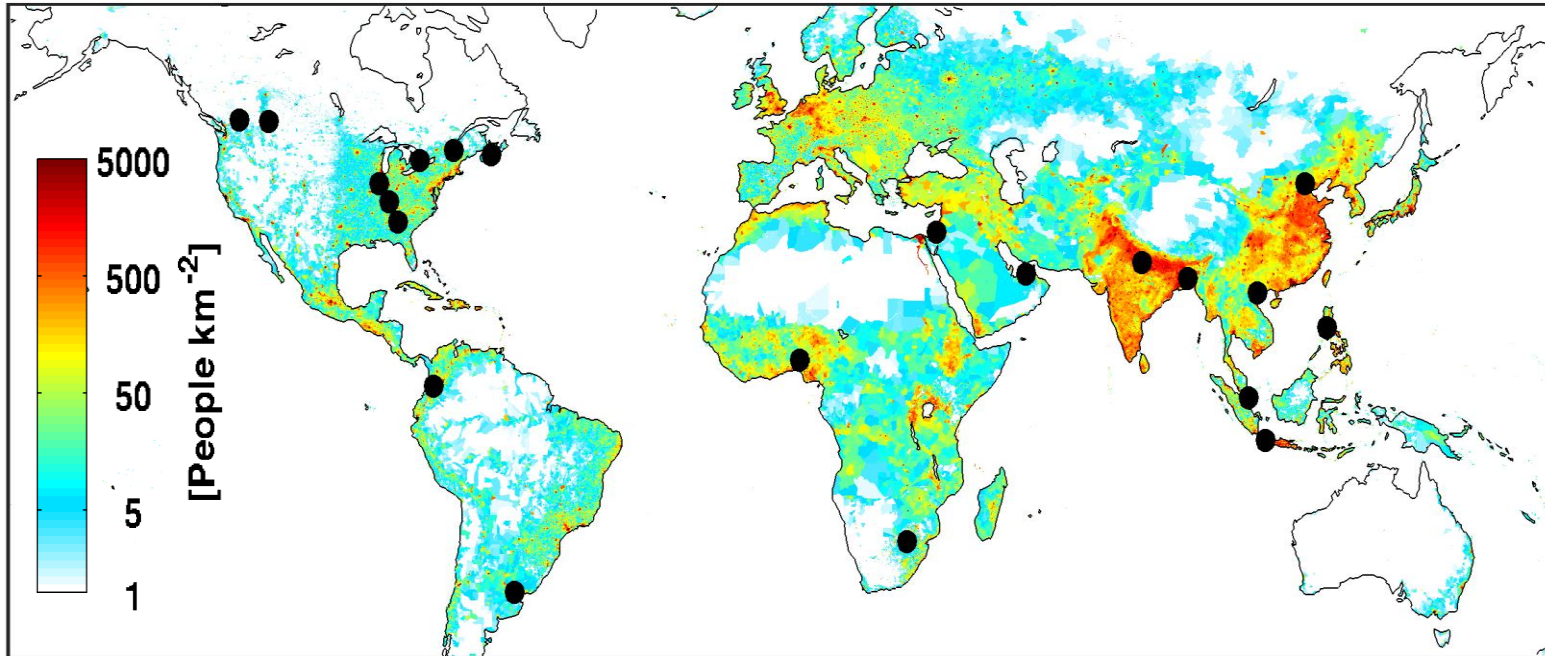


Local sensor networks





# SPARTAN Monitoring Locations



- SPARTAN triples the number of sites with collocated PM<sub>2.5</sub> and AOD
- SPARTAN is the only globally-consistent network that measures ambient PM<sub>2.5</sub> mass and chemical composition



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