

Minimizing Air Pollution in Eastern China Henry Livingston (ECE), Emmanuel Ola (CS), Angelo Ruggeri (ECE) Advisors: Professor Katherine Foo (HUA & Arts), Professor Bethel Eddy (IGSD)



Overview

- World's manufacturing hub
- Unsafe levels of pollution
- Pollution from industry, cars, and everyday burning of coal

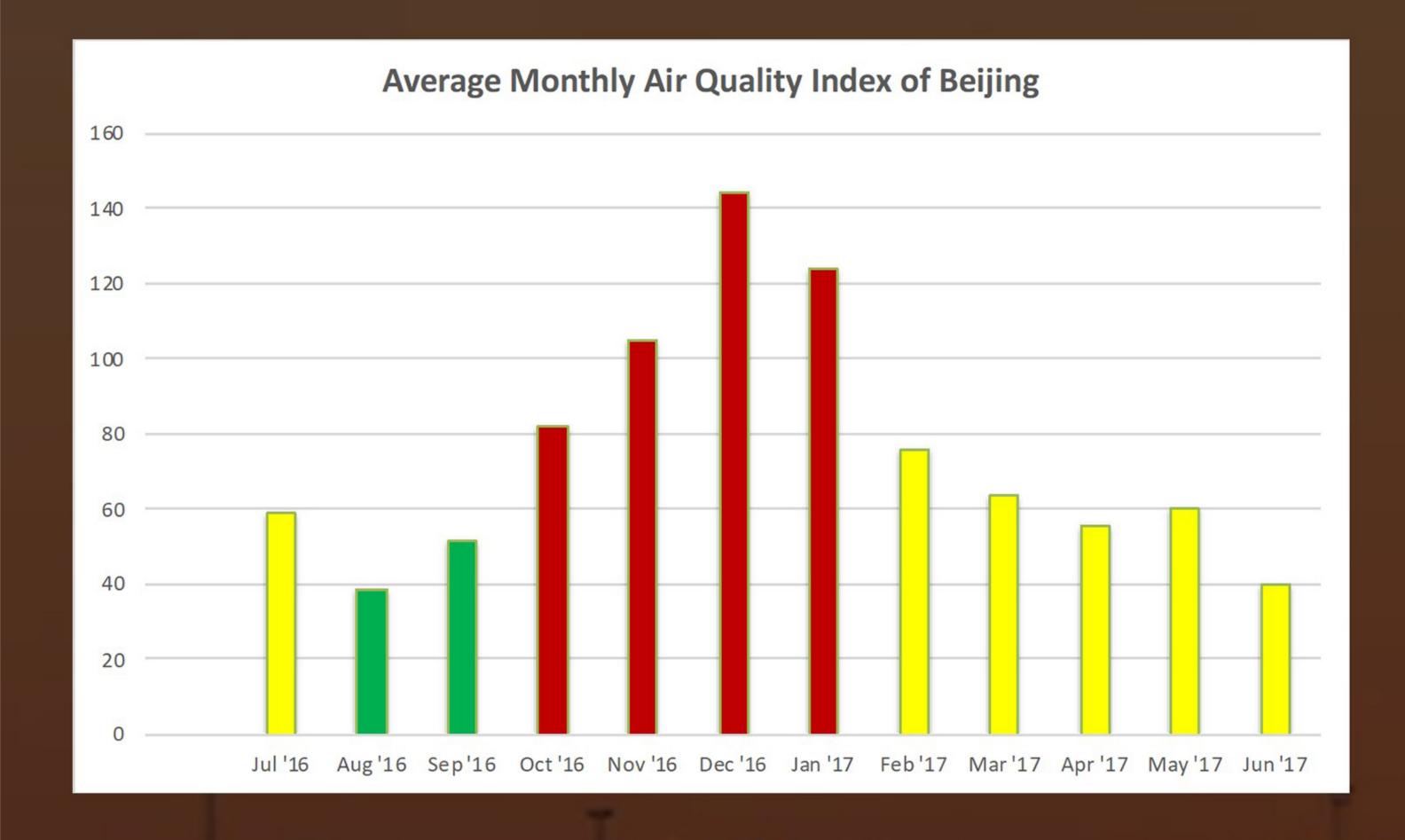
Air Pollution in China

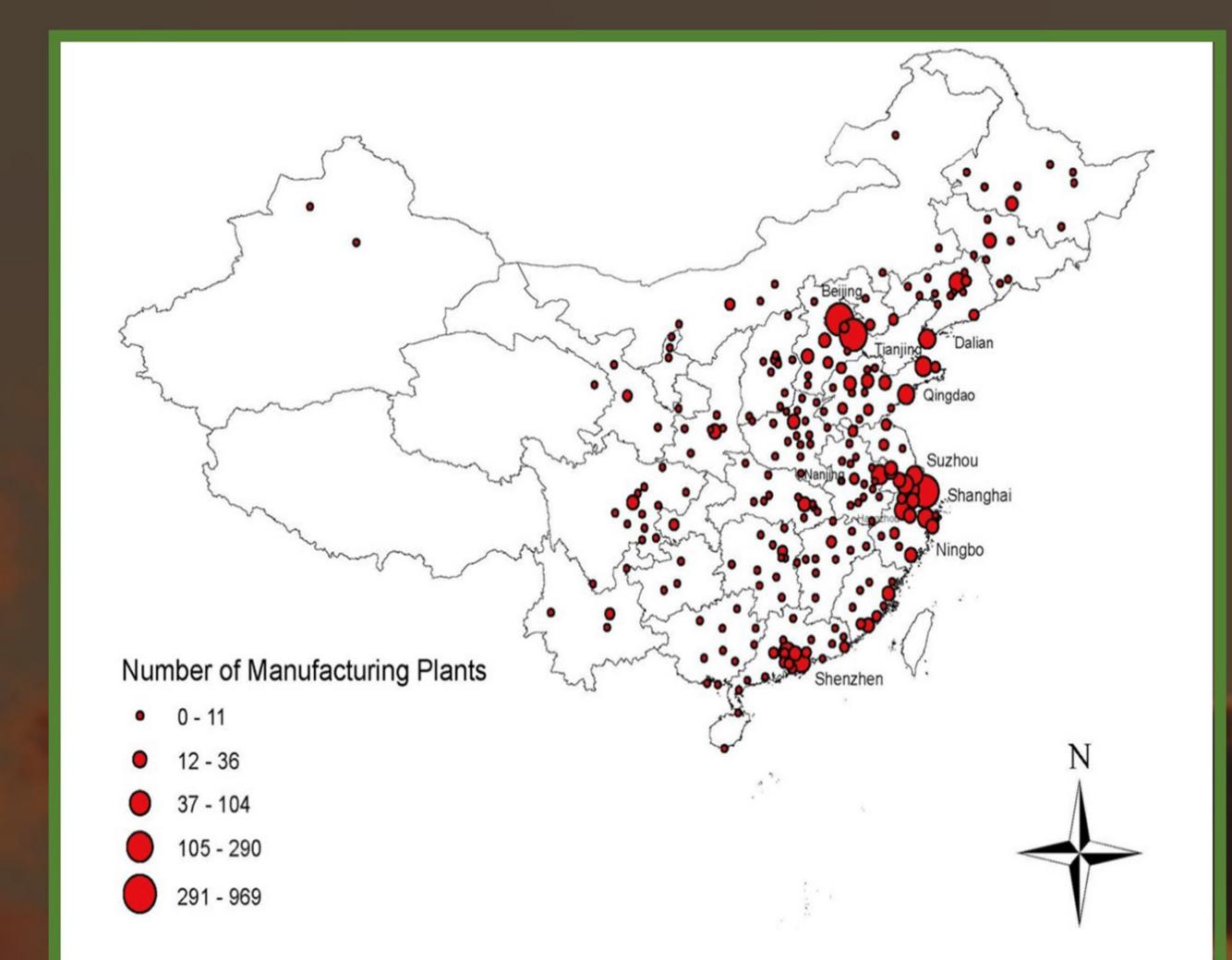
Causes 1.1 million

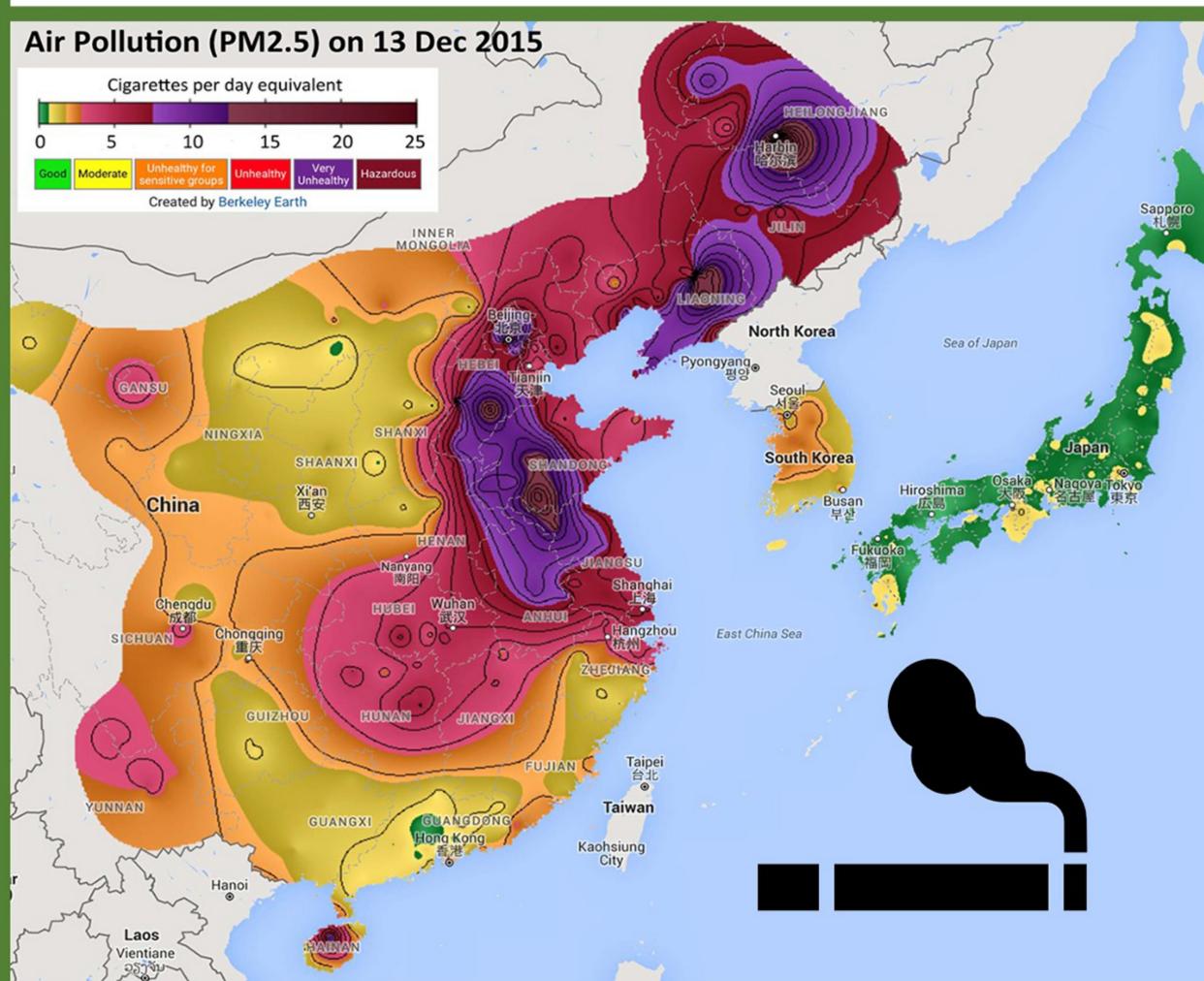
premature deaths

Costs 267 billion yuan

annually¹







Map of Air Pollution / Manufacturing Clusters in Eastern China

"Until recently, people heated up their homes using heat from coal, even now it is still used for energy production." (Jennifer Rudolph, Director China Hub)

Goal

Educate the next generation of Chinese citizens about the dangers of air pollution and better practices to minimize its effects and improve future conditions.

Policy Changes

- War on Pollution- 2014
- Air Pollution Plan- 2013
- Water Pollution Plan- 2015
- Soil Pollution Plan- 2016
- Environmental Protection Plan

Solution

Create an education module at the early levels of education to increase awareness for the general populous and discourage future harmful practices.

"I love cross country here in America. I tried [to run] during my winter visit to China, but my throat was filled with dust. I now suffer from asthma from the [polluted] air." (Steven Yu, Tianjin).

"There's no sincerity or determination in their conduct to solve or even relieve the issue of air pollution." (Pinhan Zhao, Beijing)