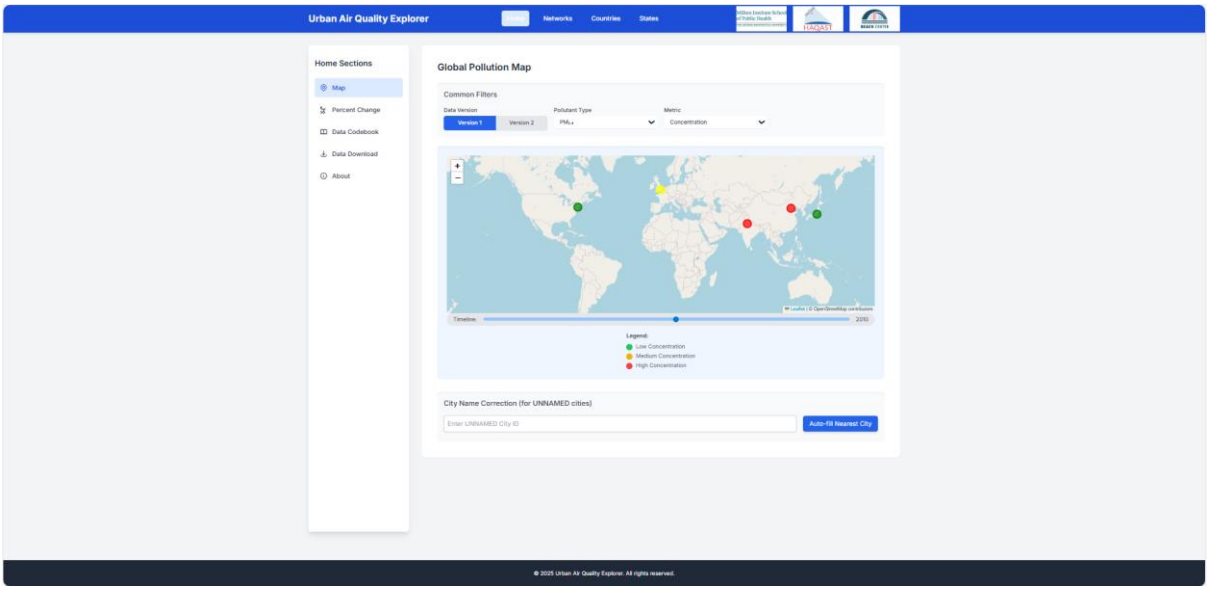
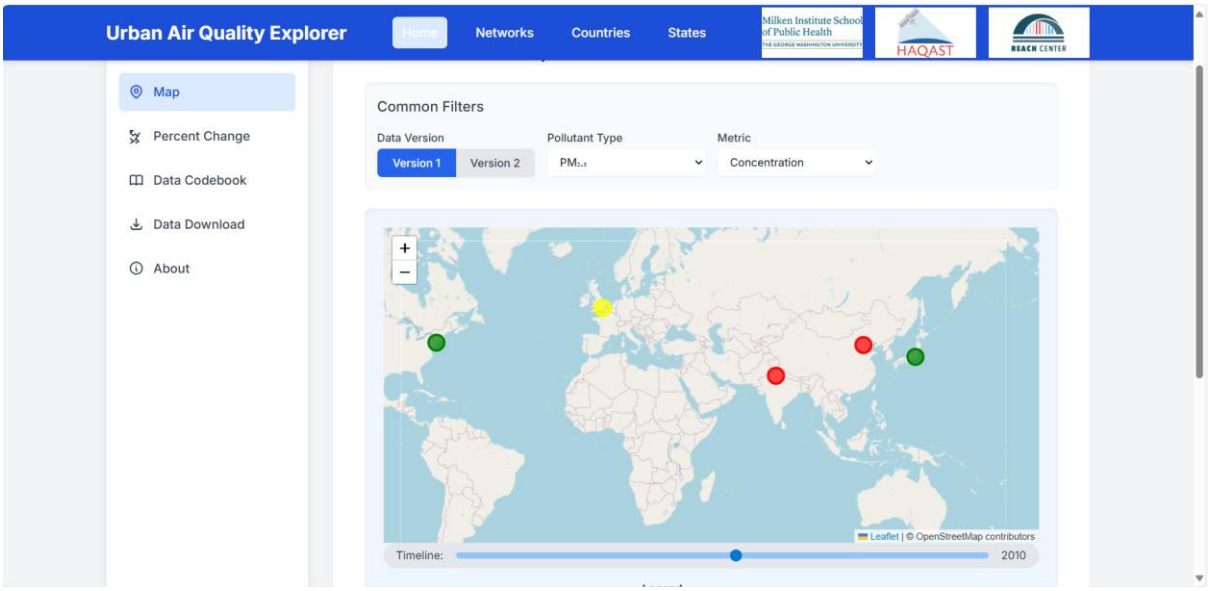
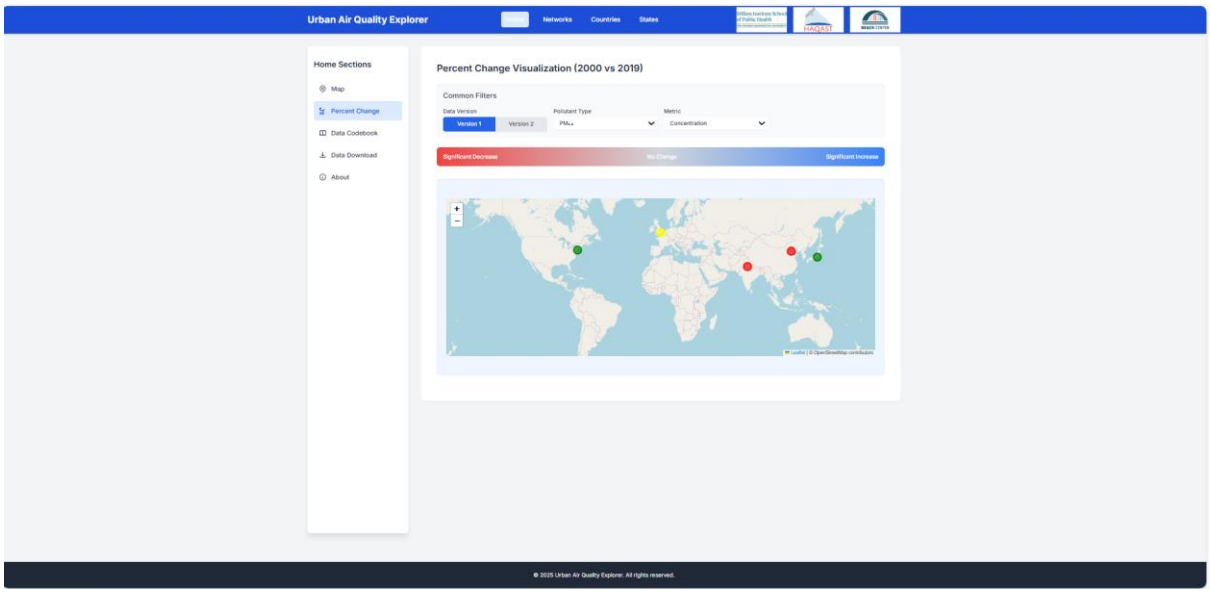
Wireframes/mockups for the redesigned site

Home Page



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Percent Change Visualization (2000 vs 2019)
Common Filters
Data Version
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Version 2
Pollutant Type
PM2.5
Metric
Concentration
Significant Decrease
No Change
Significant Increase
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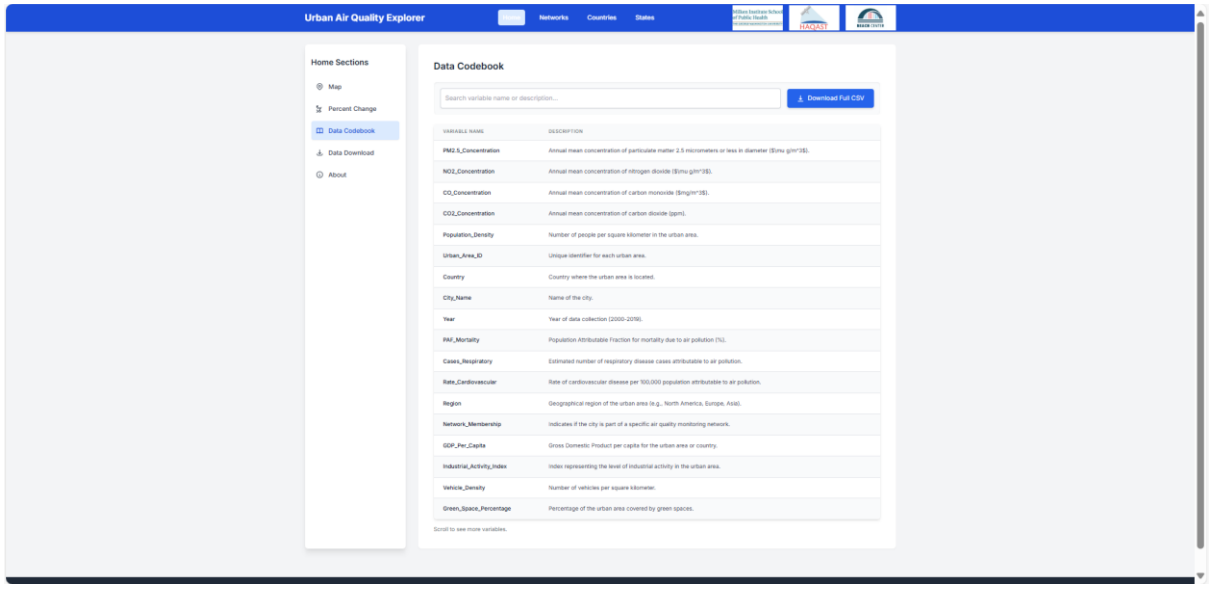
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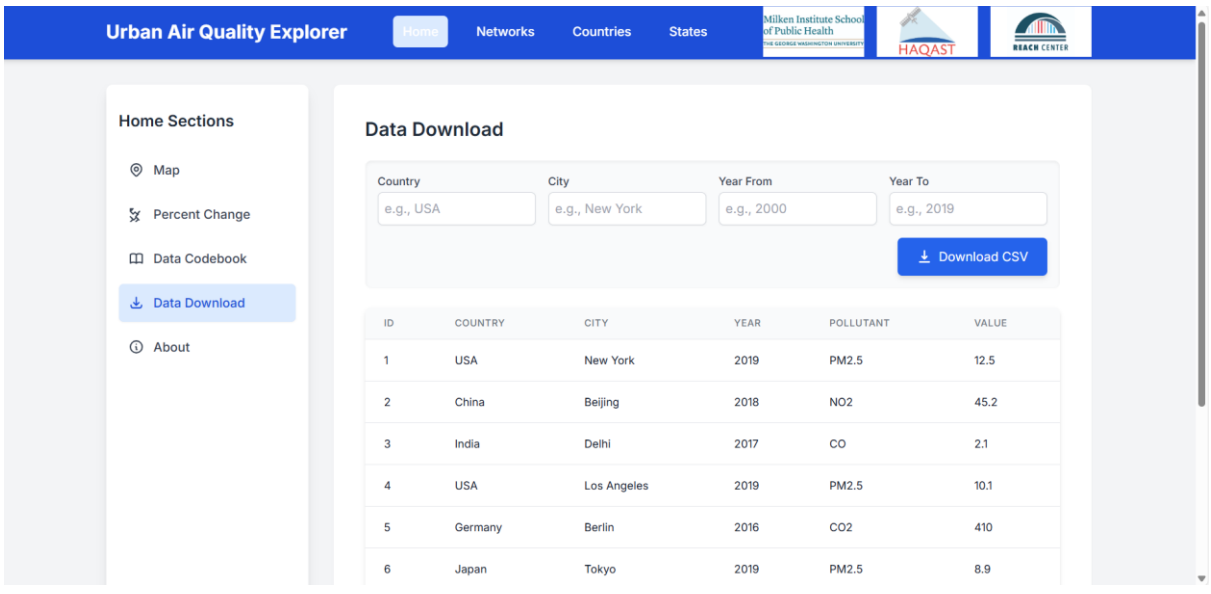
Data Codebook
Search variable name or description...
Download Full CSV
VARIABLE NAME
DESCRIPTION
PM2.5_Concentration
Annual mean concentration of particulate matter 2.5 micrometers or less in diameter ($\mu g/m^3$).
NO2_Concentration
Annual mean concentration of nitrogen dioxide ($\mu g/m^3$).
CO_Concentration
Annual mean concentration of carbon monoxide (mg/m^3).
CO2_Concentration
Annual mean concentration of carbon dioxide (ppm).
Population_Density
Number of people per square kilometer in the urban area.
Urban_Area_ID
Unique identifier for each urban area.
Country
Country where the urban area is located.
City_Name
Name of the city.
Year
Year of data collection (2000-2019).
PAF_Mortality
Population Attributable Fraction for mortality due to air pollution (%).
Cases_Respiratory
Estimated number of respiratory disease cases attributable to air pollution.
Rate_Cardiovascular
Rate of cardiovascular disease per 100,000 population attributable to air pollution.
Region
Geographical region of the urban area (e.g., North America, Europe, Asia).
Network_Membership
Indicates if the city is part of a specific air quality monitoring network.
GDP_Per_Capita
Gross Domestic Product per capita for the urban area or country.
Industrial_Activity_Index
Index representing the level of industrial activity in the urban area.
Vehicle_Density
Number of vehicles per square kilometer.
Green_Space_Percentage
Percentage of the urban area covered by green spaces.
Scroll to see more variables.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e.g., USA
City
e.g., New York
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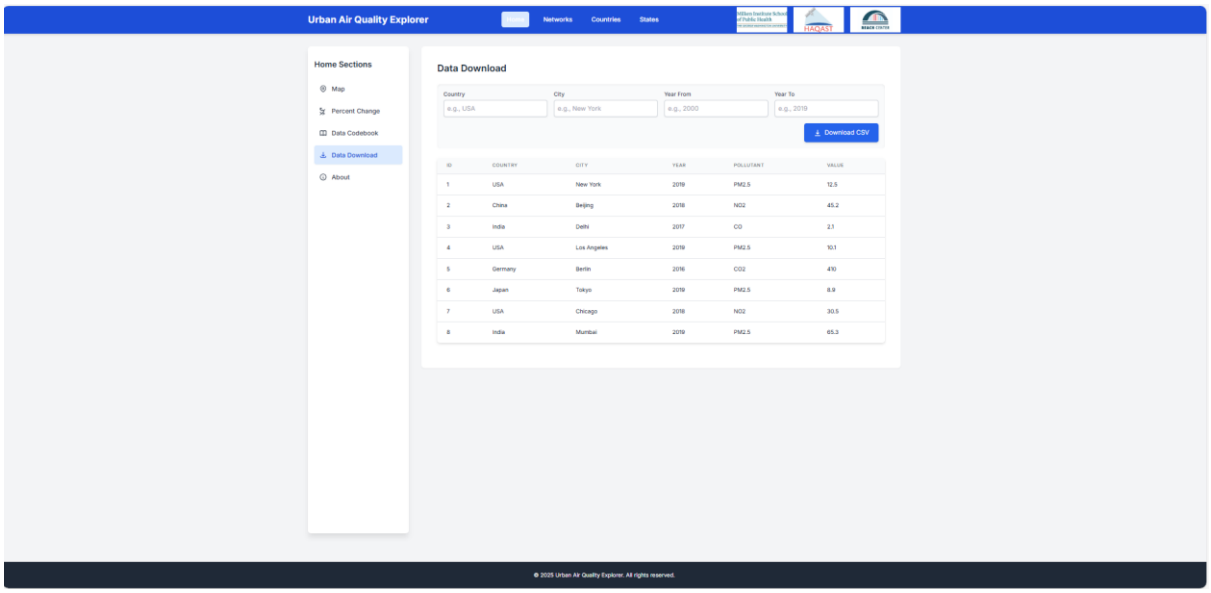
e.g., 2000
Year To
e.g., 2019
Download CSV
ID
COUNTRY
CITY
YEAR
POLLUTANT
VALUE
1
USA
New York
2019
PM2.5
12.5
2
China
Beijing
2018
NO2
45.2
3
India
Delhi
2017
CO
2.1
4
USA
Los Angeles
2019
PM2.5
10.1
5
Germany
Berlin
2016
CO2
410
6
Japan
Tokyo
2019
PM2.5
8.9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e.g., USA
City
e.g., New York
Year From
e.g., 2000
Year To
e.g., 2019
Download CSV
ID
COUNTRY
CITY
YEAR
POLLUTANT
VALUE
1 USA New York 2019 PM2.5 12.5
2 China Beijing 2018 NO2 45.2
3 India Delhi 2017 CO 2.1
4 USA Los Angeles 2019 PM2.5 10.1
5 Germany Berlin 2016 CO2 410
6 Japan Tokyo 2019 PM2.5 8.9
7 USA Chicago 2018 NO2 30.5
8 India Mumbai 2019 PM2.5 65.3
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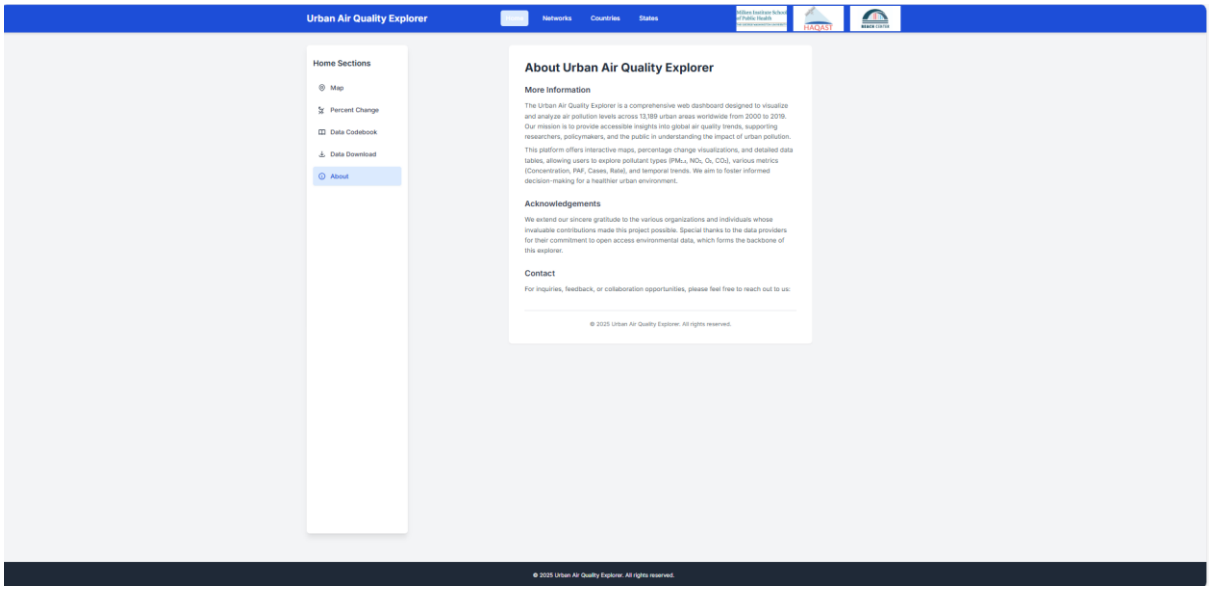
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About Urban Air Quality Explorer
More Information
The Urban Air Quality Explorer is a comprehensive web dashboard designed to visualize and analyze air pollution levels across 13,189 urban areas worldwide from 2000 to 2019. Our mission is to provide accessible insights into global air quality trends, supporting researchers, policymakers, and the public in understanding the impact of urban pollution.
This platform offers interactive maps, percentage change visualizations, and detailed data tables, allowing users to explore pollutant types (PM2.5, NO2, O3, CO2), various metrics (Concentration, PAF, Cases, Rate), and temporal trends. We aim to foster informed decision-making for a healthier urban environment.
Acknowledgements
We extend our sincere gratitude to the various organizations and individuals whose invaluable contributions made this project possible. Special thanks to the data providers for their commitment to open access environmental data, which forms the backbone of this explorer.
Contact
For inquiries, feedback, or collaboration opportunities, please feel free to reach out to us:
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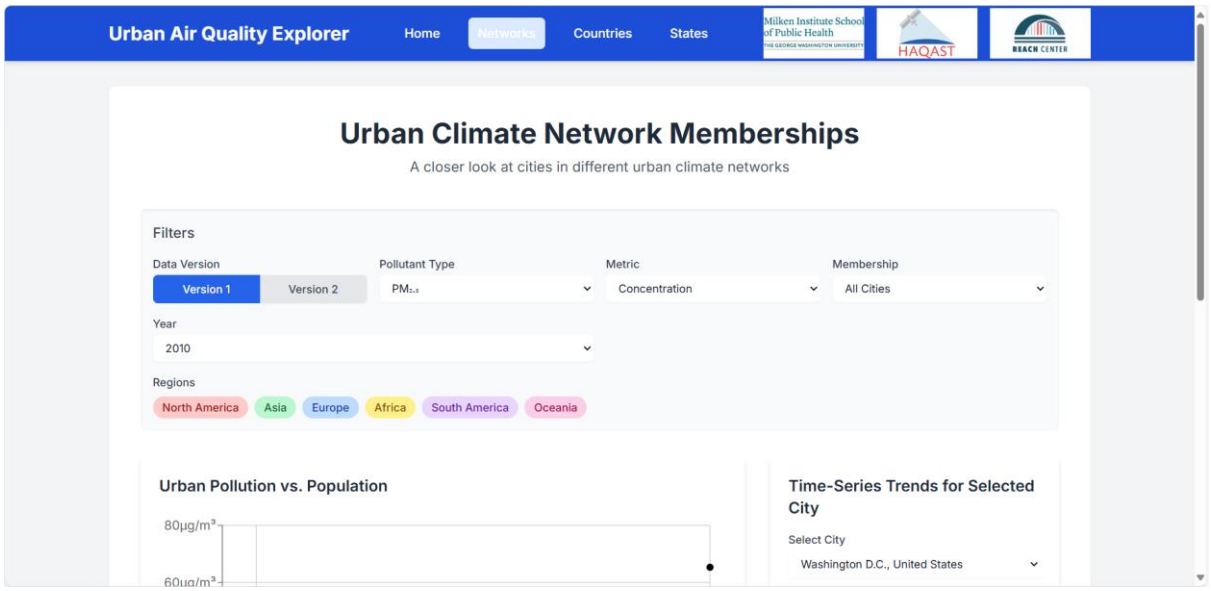
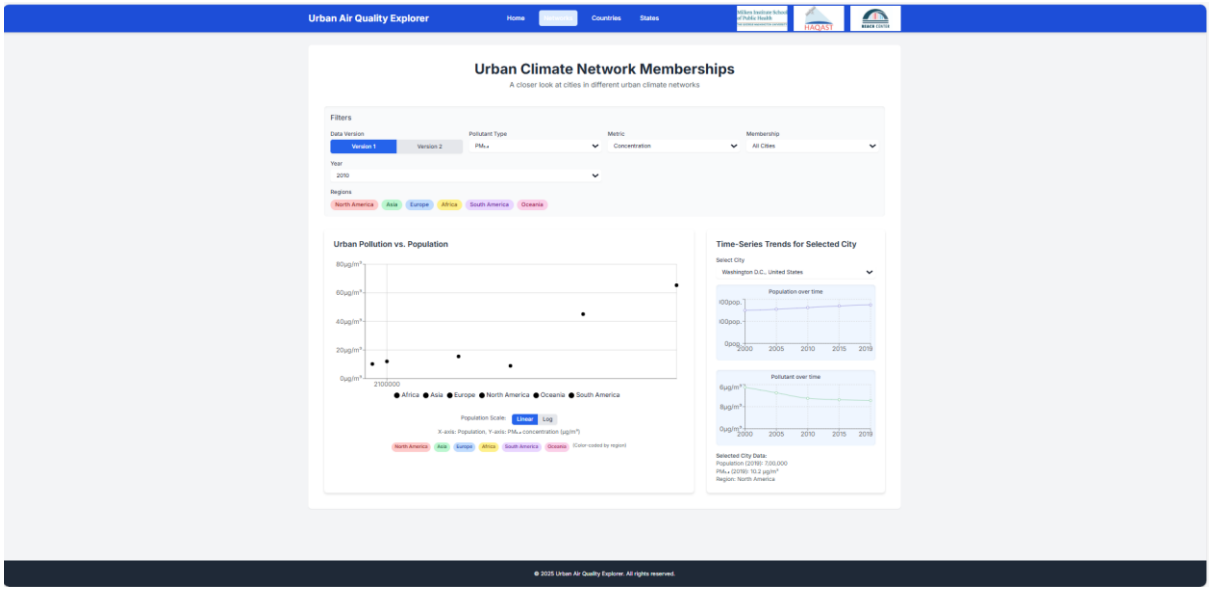
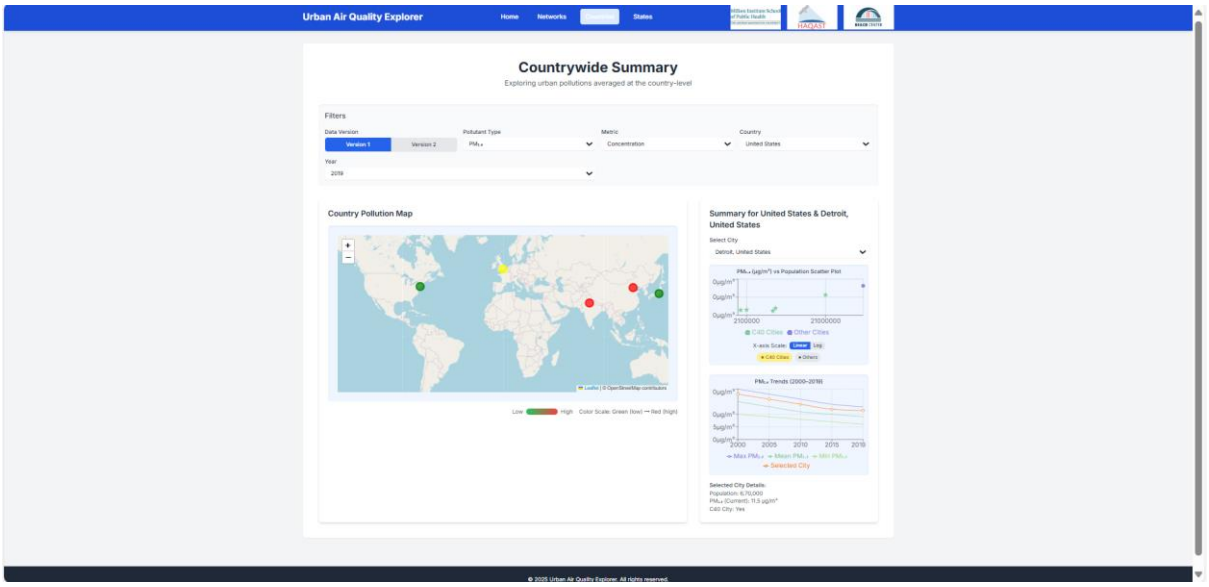
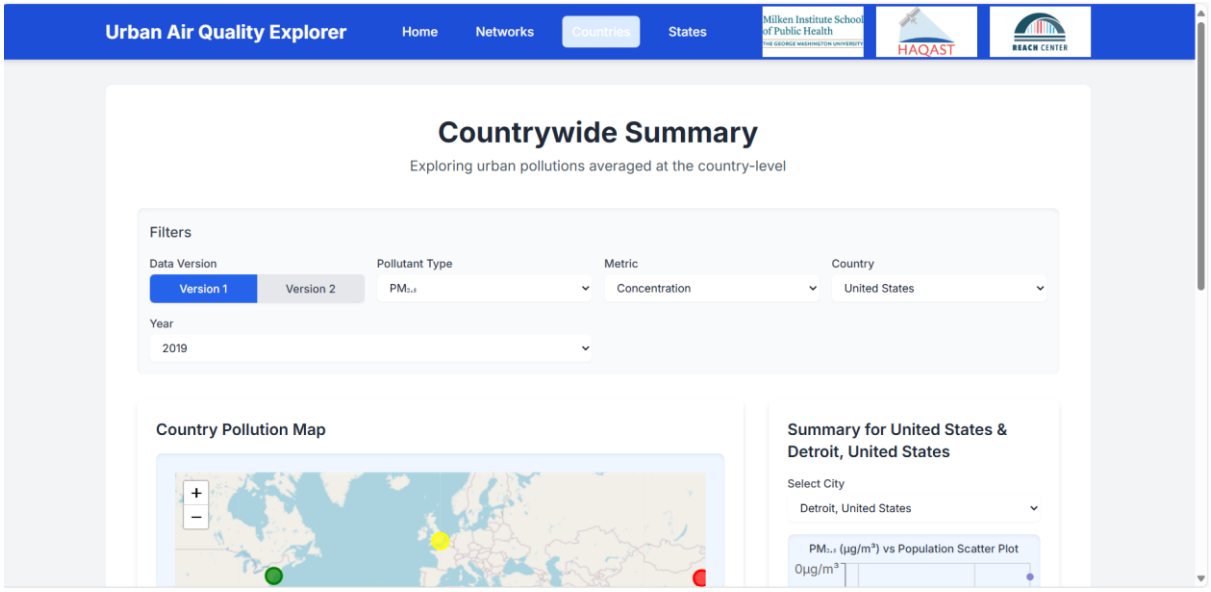
Networks Page



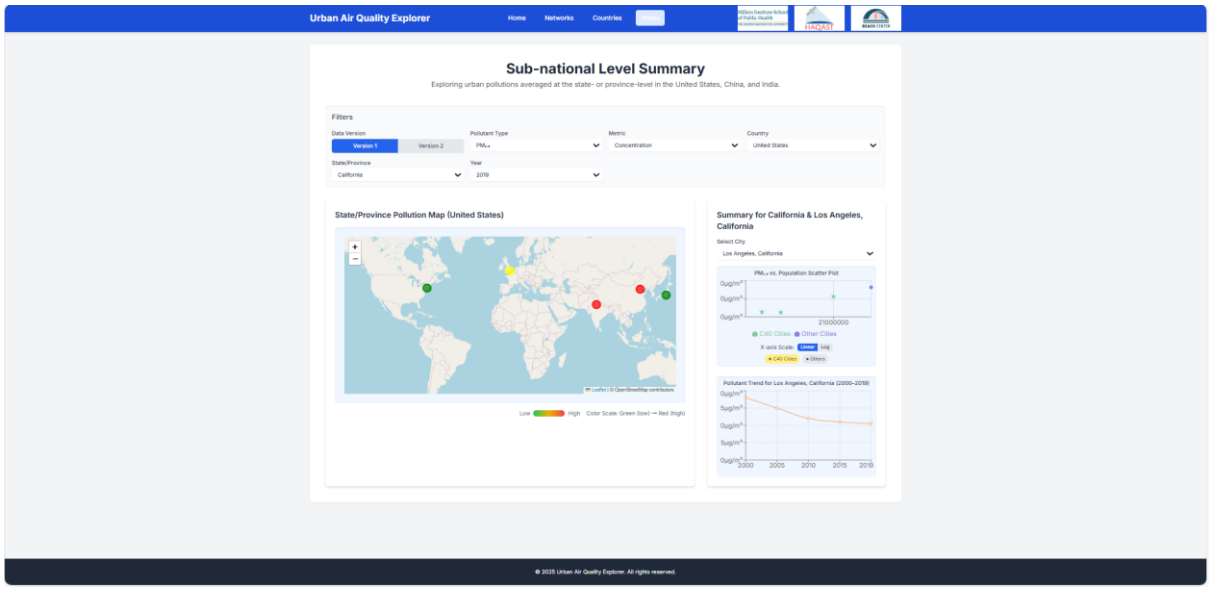


Countries Page





StatesPage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Sub-national Level Summary
Exploring urban pollutions averaged at the state- or province-level in the United States, China, and India.
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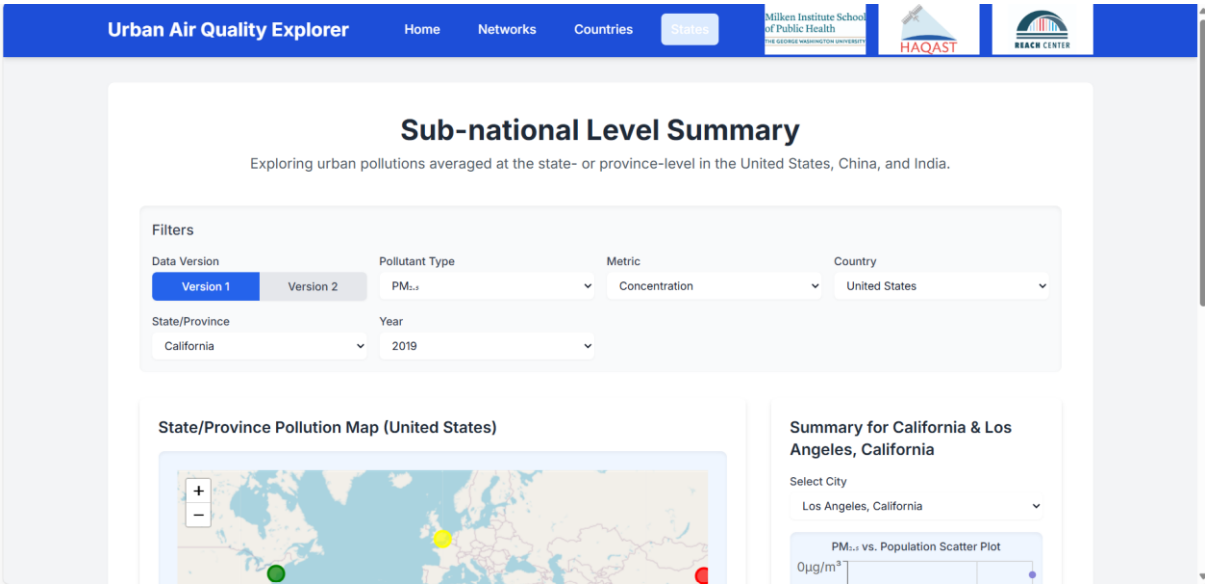
State/Province Pollution Map (United States)
Summary for California & Los Angeles, California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HAQAST
REACH CENTER
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Exploring urban pollutions averaged at the state- or province-level in the United States, China, and India.
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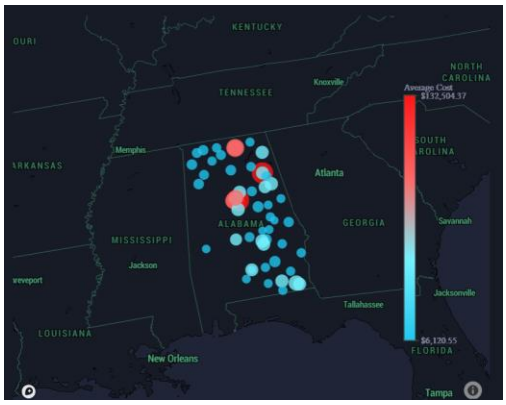
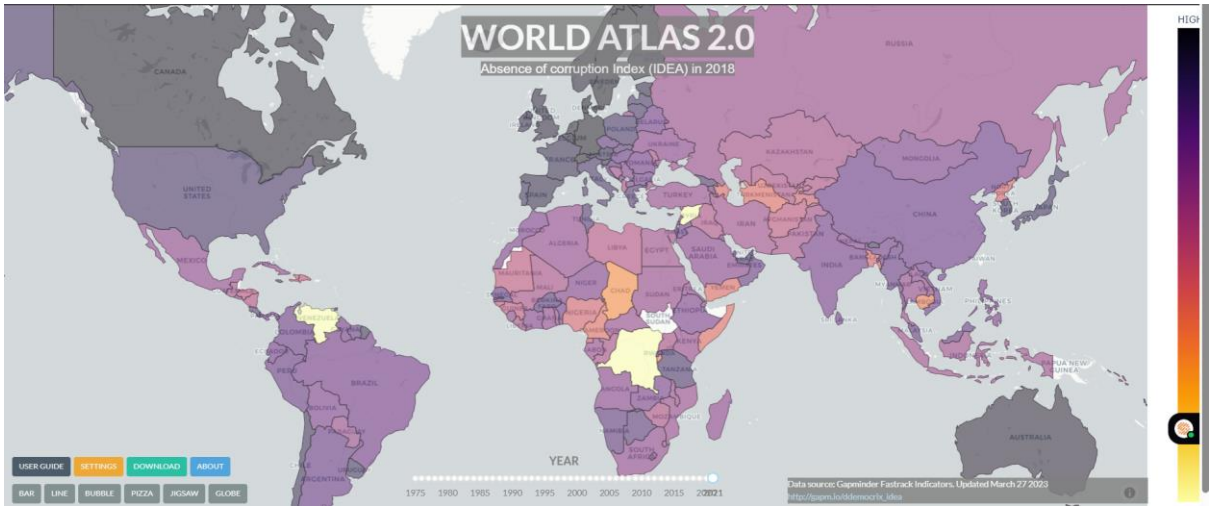
Pollutant Type
Metric
Concentration
Country
United States
State/Province
California
Year
2019
State/Province Pollution Map (United States)
Summary for California & Los Angeles, California
Select City
Los Angeles, California
Scatter Plot
0µg/m³

Map and Graph options:




WORLD ATLAS 2.0
Absence of corruption Index (IDEA) in 2018
HIGH
USER GUIDE
SETTINGS
DOWNLOAD
ABOUT
BAR
LINE
BUBBLE
PIZZA
JIGSAW
GLOBE
YEAR
1975 1980 1985 1990 1995 2000 2005 2010 2015 2021
Data source: Gapminder Fastrack Indicators, Updated March 27 2023
http://gapm.io/idemocrix_idea