OpenAQ

Fighting air inequality with open data and community.

Air Quality vs GDP Per Capita By Country Across the World

- Africa
- Asia-Pacific
- Eastern Europe
- Latin America and Caribbean
- Western Europe and Others

PM2.5 Annual Avg Concentration (ug/m^3)

GDP Per Capita (USD)

WHO 2016 OAP Database + World Bank Data
Global AQ data inequality

# of papers retrieved in Web of Science search for "air pollution" + [city name]

'Top 10' Polluted Cities
1. Ahwaz, Iran
2. Ulaanbaatar, Mongolia
3. Sanadaj, Iran
4. Ludhiana, India
5. Quetta, Pakistan
6. Kermanshah, Iran
7. Peshawar, Pakistan
8. Gaborone, Botswana
9. Yasouj, Iran
10. Kanpur, India

Hasenkopf, et al. (2016)
OpenAQ

An **open data community** and platform providing **programmatic, transparent**, access to **historical** and **real-time** air quality measurements in a **universal format**:

- PM10, PM2.5, BC, O3, CO, NO2, SO2
- government sources, research-grade sources
- **28,782,250** total measurements, ~**130,000** added daily
- **4,201** monitored stations in **33** countries
- All open-source! ([github.com/openaq](http://github.com/openaq))
OpenAQ Platform Usage

Platform accessed by 1526 cities in 122 countries

- 700,000+ API Requests in past 30 days
- 700+ Research orgs have visited
- 100+ Slack Channel Members

as of November 21, 2016
Future

• Expand geo coverage
• New source types: low cost sensors + satellite data
• More workshops

Long term: Act as a convener of open air quality efforts in the scientific, policy and citizen science communities
Thank-you to:

• You, for your attention!
• Open Science Prize Sponsors for Phase I
• The entire OpenAQ Team and Community

Want to get involved?

openaq.org | github.com/openaq.org | @open_aq

The OpenAQ Team
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