

MEGACITIES PARTNERSHIP

Globally Available Data Sources

March 2023

Air Quality Data

[**WHO Data Integration Model for Air Quality (DIMAQ)**](https://www.who.int/airpollution/data/modelled-estimates/en/)**:** Global satellite dataset of PM2.5 ­concentrations at the 0.1 degree resolution.

[**van Donkelaar et al. 2019:**](http://fizz.phys.dal.ca/~atmos/martin/?page_id=140)Global dataset of PM2.5 concentration at the 0.01 degree resolution. Methods paper available [**online.**](https://pubs.acs.org/doi/10.1021/acs.est.8b06392)

[**U.S. EPA AirNow Monitors:**](https://airnow.gov/index.cfm?action=airnow.global_summary)Air quality monitors located at U.S. embassies and consulates around the world. Data publicly available for download.

[**Open AQ:**](https://openaq.org/#/?_k=jnduh9) Open source air quality data collected from users all around the world.

Health Data

[**IHME Global Burden of Disease (GBD) Results Tool:**](http://ghdx.healthdata.org/gbd-results-tool) Incidence rates available for countries worldwide for various years, endpoints, ages, and gender.

[**IHME Country Profile:**](http://www.healthdata.org/results/country-profiles)Provides a snapshot of disease burden in countries over time.

[**U.S. Census Bureau:**](https://www.census.gov/data-tools/demo/idb/informationGateway.php) Country mortality rates for specific years, ages, and sex.

Population Data

[**U.S. Census Bureau:**](https://www.census.gov/data-tools/demo/idb/informationGateway.php) Country population for specific years and ages.

[**CIESIN Gridded Population of the World:**](https://sedac.ciesin.columbia.edu/data/collection/gpw-v4) Raster dataset with population estimates at the ~1 km scale for the years 2000, 2005, 2010, 2015, and 2020.

Valuation Data

[**Robinson, Hammitt, O’Keeffe (2018)**](https://cdn2.sph.harvard.edu/wp-content/uploads/sites/94/2017/01/Robinson-Hammitt-OKeeffe-VSL.2018.03.23.pdf)**:** Provides country-specific value of a statistical life (VSL) estimates.

[**OECD Meta-analysis of Value of Statistical Life estimates**](https://www.oecd.org/env/tools-evaluation/env-value-statistical-life.htm)**:** Identifies and synthesizes VSL estimates in the peer-reviewed and grey literature.

BenMAP-CE Specific Datasets

Country-level shapefiles, gridded air quality data, population estimates, and incidence rates derived from the 2015 GBD Study are available at the EPA website, **(**[**https://www.epa.gov/benmap/benmap-ce-regional-datasets**](https://www.epa.gov/benmap/benmap-ce-regional-datasets))