



### *New interactive map highlights areas within countries that exceed WHO air quality limits*

27 September 2016 | GENEVA – A new World Health Organization (WHO) air quality model confirms that 92% of the world's population lives in places where air quality levels exceed WHO limits\*. Information is presented via interactive maps, highlighting areas within countries that exceed WHO limits.

“The new WHO model shows countries where the air pollution danger spots are, and provides a baseline for monitoring progress in combatting it,” says Dr Flavia Bustreo, Assistant Director General at WHO.

It also represents the most detailed outdoor (or ambient) air pollution-related health data, by country, ever reported by WHO. The model is based on data derived from satellite measurements, air transport models and ground station monitors for more than 3000 locations, both rural and urban. It was developed by WHO in collaboration with the University of Bath, United Kingdom.

### **Air pollution's toll on human health**

Some 3 million deaths a year are linked to exposure to outdoor air pollution. Indoor air pollution can be just as deadly. In 2012, an estimated 6.5 million deaths (11.6% of all global deaths) were associated with indoor and outdoor air pollution together.

Nearly 90% of air-pollution-related deaths occur in low- and middle-income countries, with nearly two out of three occurring in WHO's South-East Asia and Western Pacific Regions.

Ninety-four per cent are due to noncommunicable diseases – notably cardiovascular diseases, stroke, chronic obstructive pulmonary disease and lung cancer. Air pollution also increases the risks for acute respiratory infections.

“Air pollution continues take a toll on the health of the most vulnerable populations - women, children and the older adults,” adds Dr Bustreo. “For people to be healthy, they must breathe clean air from their first breath to their last.”

Major sources of air pollution include inefficient modes of transport, household fuel and waste burning, coal-fired power plants, and industrial activities. However, not all air pollution originates from human activity. For example, air quality can also be influenced by dust storms, particularly in regions close to deserts.

### **Improved air pollution data**

The model has carefully calibrated data from satellite and ground stations to maximize reliability. National air pollution exposures were analysed against population and air pollution levels at a grid resolution of about 10 km x 10 km.

Écrit par WHO

Mardi, 27 Septembre 2016 10:12 - Mis à jour Mardi, 27 Septembre 2016 10:14

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“This new model is a big step forward towards even more confident estimates of the huge global burden of more than 6 million deaths - one in nine of total global deaths - from exposure to indoor and outdoor air pollution,” said Dr Maria Neira, WHO Director, Department of Public Health, Environmental and Social Determinants of Health. “More and more cities are monitoring air pollution now, satellite data is more comprehensive, and we are getting better at refining the related health estimates.”

### Interactive map

The interactive map provides information on population-weighted exposure to particulate matter of an aerodynamic diameter of less than 2.5 micrometres (PM<sub>2.5</sub>) for all countries. The map also indicates data on monitoring stations for PM

10  
and PM

2.5  
values for about 3000 cities and towns.

“Fast action to tackle air pollution can’t come soon enough,” adds Dr Neira. “Solutions exist with sustainable transport in cities, solid waste management, access to clean household fuels and cook-stoves, as well as renewable energies and industrial emissions reductions.”

### Notes for editors:

In September 2015, world leaders set a target within the Sustainable Development Goals of substantially reducing the number of deaths and illnesses from air pollution by 2030.

In May 2016, WHO approved a new “road map” for accelerated action on air pollution and its causes. The roadmap calls upon the health sector to increase monitoring of air pollution locally, assess the health impacts and to assume a greater leadership role in national policies that affect air pollution.

### \* WHO Ambient Air Quality Guidelines

World Health Organization (WHO) air quality model confirms that 92% of the world’s population lives in places where air quality levels exceed *WHO’s Ambient Air quality guidelines* for annual mean of particulate matter with a diameter of less than 2.5 micrometres (PM

2.5  
) . WHO guideline limits for annual mean of PM<sub>2.5</sub> are 10 µg/m<sup>3</sup>

annual mean.

PM<sub>2.5</sub> includes pollutants such as sulfate, nitrates and black carbon, which penetrate deep into the lungs and in the cardiovascular system, posing the greatest risks to human health.

### BreatheLife air pollution campaign

## WHO releases country estimates on air pollution exposure and health impact

Écrit par WHO

Mardi, 27 Septembre 2016 10:12 - Mis à jour Mardi, 27 Septembre 2016 10:14

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This fall WHO is rolling out BreatheLife, a global communications campaign to increase public awareness of air pollution as a major health and climate risk. BreatheLife is led by WHO in partnership with the UNEP-hosted Climate and Clean Air Coalition to Reduce Short-lived Climate pollutants. The campaign stresses both the practical policy measures that cities can implement (e.g. better housing, transport, waste and energy systems) and measures people can take as communities or individuals (e.g. stop waste burning, promote green spaces and walking/cycling) to improve our air. Learn more at [www.breathelife2030.org](http://www.breathelife2030.org).

### Links:

Ambient Air pollution: A global assessment of exposure and burden of disease and the interactive map will be available at [http://www.who.int/phe/health\\_topics/outdoorair/databases/en/](http://www.who.int/phe/health_topics/outdoorair/databases/en/)