BETTER DATA FOR CLEAN AIR

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THE SILENT EMERGENCY

93% of children are exposed to levels of air pollution which are unsafe.

300mill Children live in areas where the air is toxic – exceeding international limits by at least six times.

>500,000 of children under 5 years old died from air pollution related causes in 2016, and millions more suffer from respiratory diseases that affect their development.
Children are uniquely vulnerable to air pollution – due both to their physiology, and to the type and degree of their exposure.
We do not know the actual health impact of air pollution in all places. This is due to:

- A lack of ground level air quality monitoring coverage and
- A lack of quality data in child population exposure linked to air pollution related health effects.

**UNICEF is exploring the feasibility of:**

- Establishing a model to conduct ground level air quality monitoring at UNICEF premises,
- At locations where there are none
- To compliment satellite data and support low cost sensor network establishment, and
- To inform appropriate paths for effective programme intervention to reduce exposure impacts of air pollution for...
94% of children that live >50km from ground level monitors live in Asia, Africa, and South America.
UNICEF OFFICES IN THESE LOCATIONS

CO: COUNTRY OFFICE
ZO: ZONE OFFICE

41 Offices
59% CO: 39% ZO
SOUTH AMERICA

160 Offices
34% CO: 65% ZO
AFRICA

82 Offices
24% CO: 73% ZO
ASIA

The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations. Map was compiled from various data sources and its accuracy cannot be guaranteed.
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Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community
UNICEF POTENTIAL VALUE ADD TO THIS SECTOR

- Large local trusted presence across the globe (190+ countries) & Large network of offices (and supported Child Centric Facilities) in locations where ground level measurements are lacking
- Leadership role in monitoring programmes (Joint Monitoring Programme)
- Experience in large-scale geospatial platforms (HCFs, Schools, DRR, Climate change)
- Part of established global coalitions related to child respiratory health (e.g. EBC)
- Advocacy and multi-sectoral action to address air pollution (Indonesia, India, Mongolia, UK)
- Ability to collaborate with partners and leverage global resources and technology
UNICEF EXPLORING PARTNERSHIPS FOR COLLABORATION IN ORDER TO...

• Reduce air pollution

• Improve children’s health so that when they are exposed, they are more resilient

• Prevent children’s exposure to air pollution

• Increase ground level air quality monitoring
THANK YOU

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