



AIR POLLUTION

AFRICAN CENTRE FOR ENVIRONMENTAL
PROTECTION.

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WHAT IS AIR POLLUTION

- ▶ **Air pollution** occurs when harmful or excessive quantities of substances including gases, particles, and biological molecules are introduced into Earth's atmosphere. Both human activity and natural processes can generate air pollution . (Wikipedia)
- ▶ We have both indoor and outdoor Air Pollution.
- ▶ Three basic pollutants . Black carbon, Ground level ozone and Methane.



CAUSES OF AIR POLLUTION

- ▶ Transportation
- ▶ Waste Management
- ▶ Household Air Pollution
- ▶ Energy Supply
- ▶ Industry
- ▶ Food and Agriculture

Transportation

- ▶ Soot-free” vehicles reduce tailpipe particulate/black carbon emissions by 85% or more, as compared to uncontrolled diesel exhaust.



WASTE MANAGEMENT

- ▶ Landfills account for 11% of the world's methane emissions, and municipal waste is expected to nearly double by 2025. Furthermore, an estimated 90% of wastewater in developing countries is discharged untreated or partially treated. Better waste management programs are integral to ensuring our communities don't suffer as a result, both on a local and global level. (breathelife network)



Household Air Pollution

- ▶ In our households we generate black carbon through the use of cooking stoves, kerosene lamps and firewood. We need to replace with better , healthy options.



ENERGY SUPPLY

- ▶ It is estimated that oil and gas produce about 25% of the world's methane emissions. Also when the gas is flared there is emission of harmful black carbon. Illegal oil activities in our communities generate Air pollution.



INDUSTRY

- ▶ With Industrialization and more people living in cities, cement, fertilizer production and other heavy industry continue to contribute to air pollution.



FOOD AND AGRICULTURE

- ▶ The agricultural growth over the years globally and specifically in Rivers State has increased food supplies. Our livestock production is also a major contributor to climate change due to methane emissions .





EFFECT OF AIR POLLUTION

- ▶ AIR POLLUTION affects our Health and it affects the Environment.

Health effects of air pollution

short-term effects

exacerbation of asthma

cough, wheezing and shortness of breath

episodes of high air pollution increase respiratory and cardiovascular hospital admissions and mortality

long-term effects

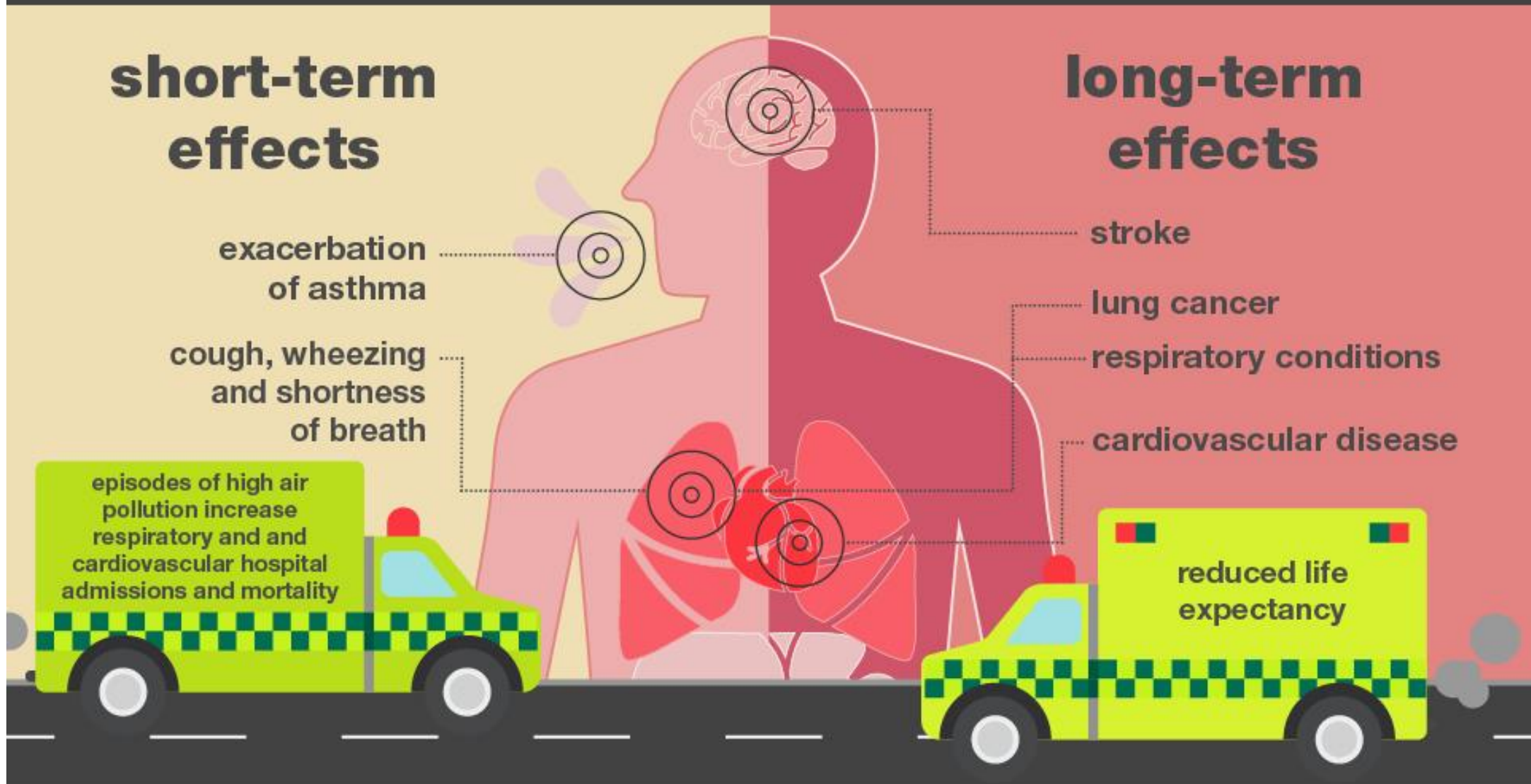
stroke

lung cancer

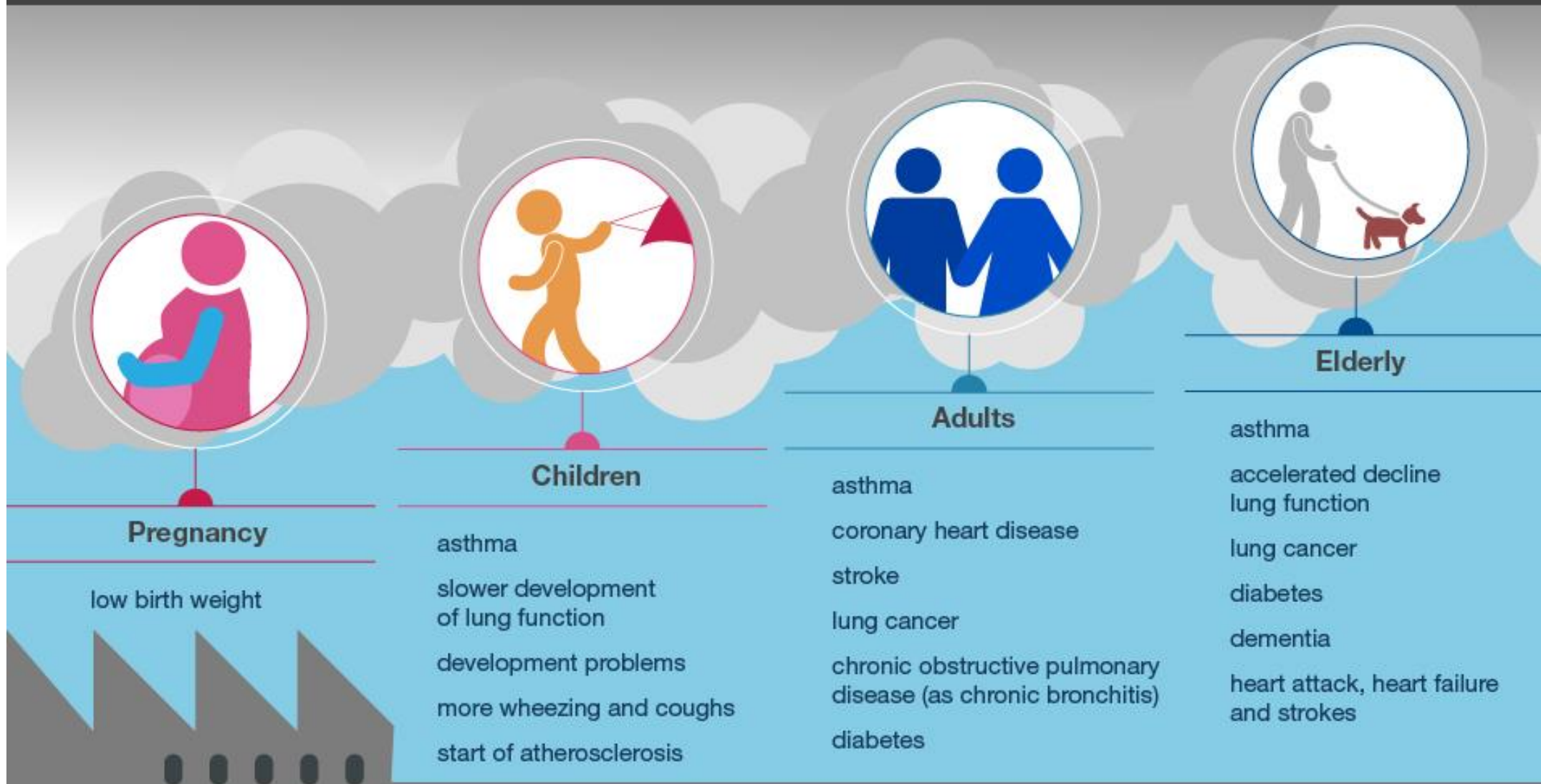
respiratory conditions

cardiovascular disease

reduced life expectancy



Air pollution affects people throughout their lifetime



HEALTH IMPACT

- ▶ Tiny, invisible particles of pollution penetrate deep into our lungs, bloodstream and bodies. These pollutants are responsible for about one-third of deaths from stroke, chronic respiratory disease, and lung cancer as well as one quarter of deaths from heart attack. Ground-level ozone, produced from the interaction of many different pollutants in sunlight, is also a cause of asthma and chronic respiratory illness. (WHO)

AIR POLLUTION A COMMON KILLER

- ▶ 7% lung cancer deaths
- ▶ 18% of COPD (Pulmonary disease)
- ▶ 20% of Stroke deaths
- ▶ 34% of heart disease.

ENVIRONMENT IMPACT

- ▶ Many sources of air pollution also are heavy emitters of CO₂, contributing to a vicious cycle that threatens our climate.
- ▶ Rising Temperatures
- ▶ Damaging of our Crops
- ▶ Melting of snow and ice lands.

WHAT CAN BE DONE?

- ▶ **AWARENEESS
CREATION.**
- ▶ **TAKE ACTION**

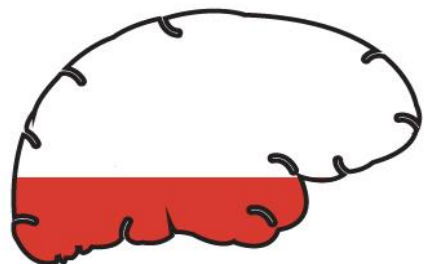
AWARENESS CREATION / EDUCATION

- ▶ The theme of this years world Environment day celebration is “Air Pollution” ...we cant stop breathing but we can do something about the quality of the air we breathe.
- ▶ WED is celebrated globally on the 5th of June since it began in 1974. It is a UN-Environment -led global event to encourage everyone to preserve the Environment. This year the Official host is China.
- ▶ Air pollution is real, according to the UN-Environment, each year about 6.5 million people die prematurely because of poor air quality.

AIR POLLUTION STATISTICS -PICTURE 1

THE **INVISIBLE KILLER**

Air pollution may not always be visible, but it can be deadly.



24%
OF DEATHS FROM
STROKE

BREATHELIFE.
Clean Air. Healthy Future.



World Health
Organization



UN
environment



CLIMATE &
CLEAN AIR
COALITION
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS

AIR POLLUTION STATISTICS -PIC 2

Air pollution was responsible for
7 million
premature deaths in 2016,
of these almost
600,000
were children under 5 years old.

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COALITION
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS

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AIR POLLUTION STATISTICS -PIC 3



GLOBAL AIR POLLUTION ISSUE

**9 out of 10 people
worldwide do not
breathe safe air**

Join us in breathing life back into our cities at
BreatheLife2030.com

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 World Health Organization

 UN environment

 CLIMATE & CLEAN AIR COALITION
TO REDUCE SHORT-LIVED CLIMATE POLLUTANTS

AIR POLLUTION STATISTICS -PIC 4

AIR POLLUTION'S
YEARLY HIT LIST:

**2.4 million
deaths due to
heart disease.**

**Let's stop
this invisible
killer.**



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AIR POLLUTION STATISTICS -PIC 5


AIR POLLUTION'S YEARLY HIT LIST:

1.4 million deaths due to stroke.
Let's stop this invisible killer.



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AIR POLLUTION STATISTICS -PIC 6



9 out of 10
children worldwide do not breathe safe air.

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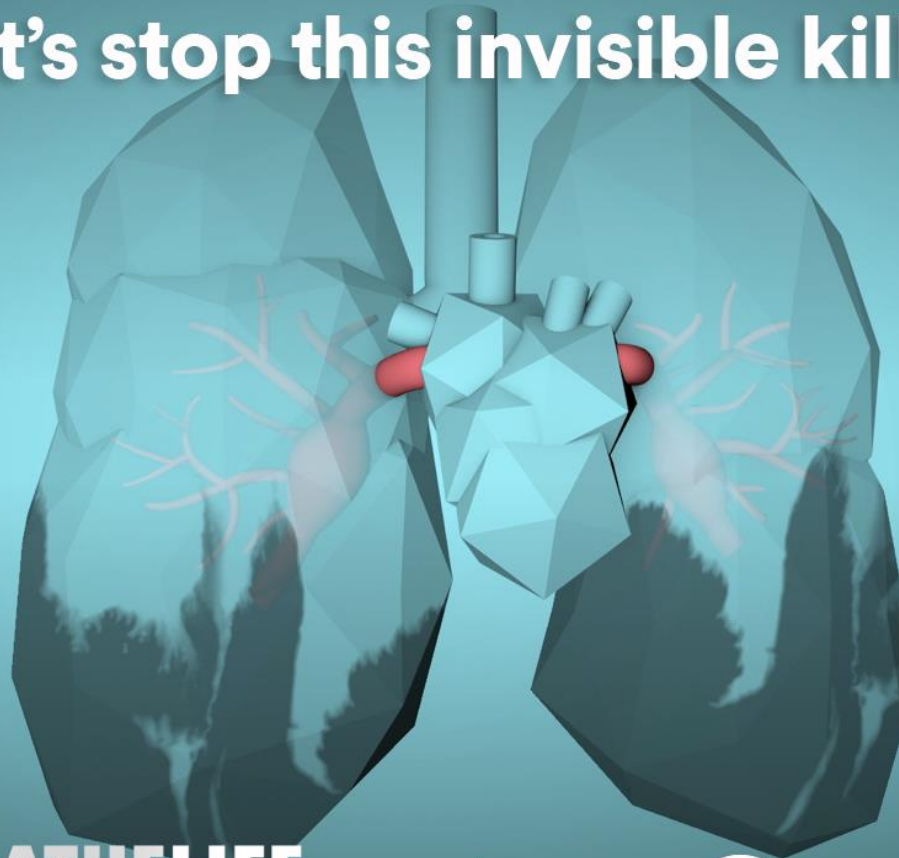
CLIMATE &
CLEAN AIR
COALITION
TO REDUCE BURNING FOSSIL
FUELS AND CLIMATE POLLUTANTS



UN
environment

AIR POLLUTION STATISTICS -PIC 7

**1.8 million deaths due to
lung disease and cancer.
Let's stop this invisible killer.**



BREATHELIFE



World Health



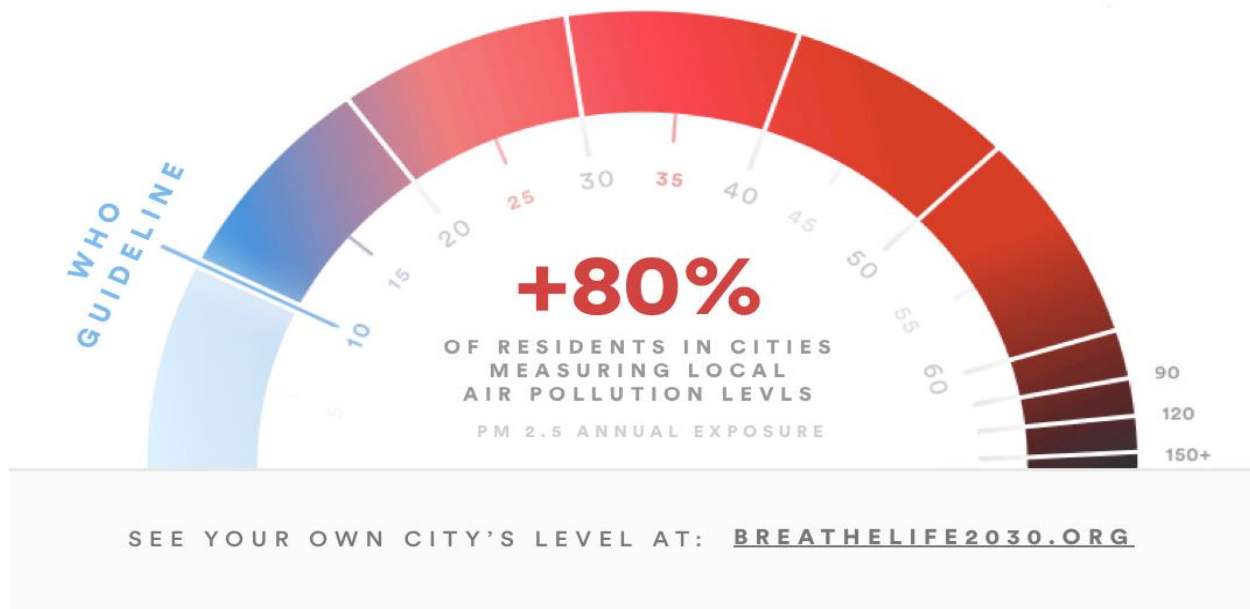
CLIMATE &
CLEAN AIR



AIR POLLUTION STATISTICS -PIC 8

AIR POLLUTION ISSUE GLOBALLY

Over 80% of urban residents are exposed to air pollution levels that exceed WHO limits



AIR POLLUTION STATISTICS -PIC 9




3.8 million
people a year die from the exposure
to household air pollution.

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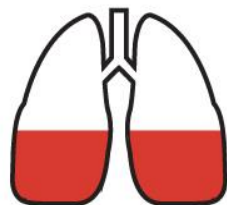
 CLIMATE & CLEAN AIR COALITION
TO REDUCE SHORT-LIVED CLIMATE POLLUTANTS

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AIR POLLUTION STATISTICS -PIC 10

THE **INVISIBLE KILLER**

Air pollution may not always be visible, but it can be deadly.



29%
OF DEATHS FROM
LUNG CANCER



24%
OF DEATHS FROM
STROKE



25%
OF DEATHS FROM
HEART DISEASE

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CLIMATE &
CLEAN AIR
COALITION
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS

ACTION

- ▶ Do not burn any form of Waste. Garden, paper or other waste.
- ▶ Instead of using vehicles, walk when possible, WALK more often.
- ▶ Switch from kerosene lamps , cooling stoves to more environmental friendly home appliances.
- ▶ Avoid using vehicles when they are past due for servicing.
- ▶ Get our **State Government** to join the **breathelife network**.
- ▶ **PLANT TREES** .

CONCLUSION

- ▶ Be a change Agent. Advocate for better Air Quality. Join ACEP-ECO CLUB today. There is so much you can do.
- ▶ Visit us today . www.acepnigeria.org and JOIN IN.