

# OPPORTUNITIES IN WASTE SECTOR AND AGRICULTURE: ANIMAL FEED FROM ORGANIC WASTE, THE CLIMATE-FRIENDLY WAY - BLACK SOLDIER FLY

16 May 2022



# AGENDA

- Opening Remarks:
  - CCAC context: *Sandra Mazo-Nix, CCAC Secretariat*
  - UN-Habitat context: *Nao Takeuchi, UN-Habitat*
- Presentations:
  - BSF facilities in tropical and warm climates, the climate friendly alternative in waste management – *Chris Zurbrügg (EAWAG)*
  - BSF facilities in temperate and cold climate: important factors to be a climate friendly alternative in waste management – *Dr. Ing. Winfried Bulach (German Oeko-Institut)*
- Q and A
- Closing Remarks: *Anja Schwetje, German Environment Agency*

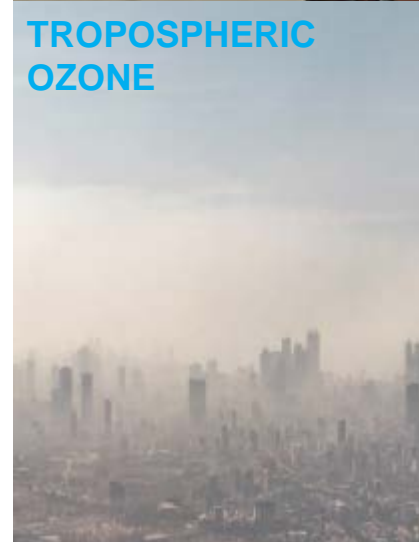
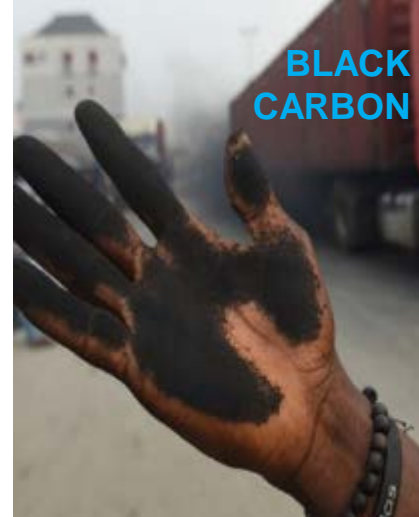


# CLIMATE & CLEAN AIR COALITION

TO REDUCE SHORT-LIVED  
CLIMATE POLLUTANTS

Hosted by  **UN**  
environment

- The Climate & Clean Air Coalition is a global, voluntary partnership dedicated to addressing short-lived climate pollutants
- Network of 400+ members: governments, IGOs, financial institutions & civil society organisations



**Fast Action => Quick Results & Multiple Benefits**

**Science-based solutions**

**Leadership & awareness**

# METHANE (CH<sub>4</sub>)

Methane emissions caused by human activities are one of the most significant drivers of climate change. Methane is also the main precursor of tropospheric ozone, a powerful greenhouse gas and air pollutant.

## SOURCES

Methane is one of the fastest growing greenhouse gases in the atmosphere. Human activity causes 2/3 of emissions.



% = global emissions

## IMPACTS

### CLIMATE

Responsible for 40% of warming since the industrial revolution

86x

times more powerful than carbon dioxide over a 20-year period

### HEALTH

Increasing emissions are driving a rise in tropospheric ozone air pollution, which causes 1+ million premature deaths annually. Methane is responsible for roughly 1/2 of these deaths.



- Respiratory diseases
- Heart disease
- Damaged airways and lung tissue

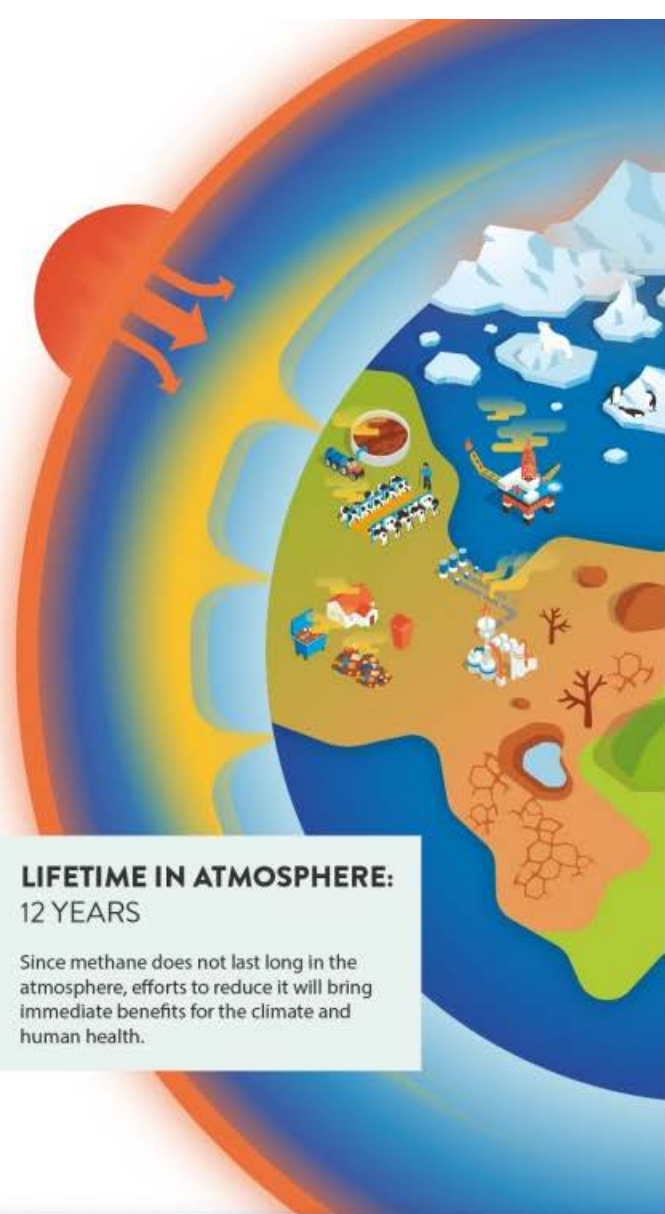
### AGRICULTURE & ECOSYSTEMS



Up to 15% annual yield losses of soy, wheat, rice and maize

## LIFETIME IN ATMOSPHERE: 12 YEARS

Since methane does not last long in the atmosphere, efforts to reduce it will bring immediate benefits for the climate and human health.

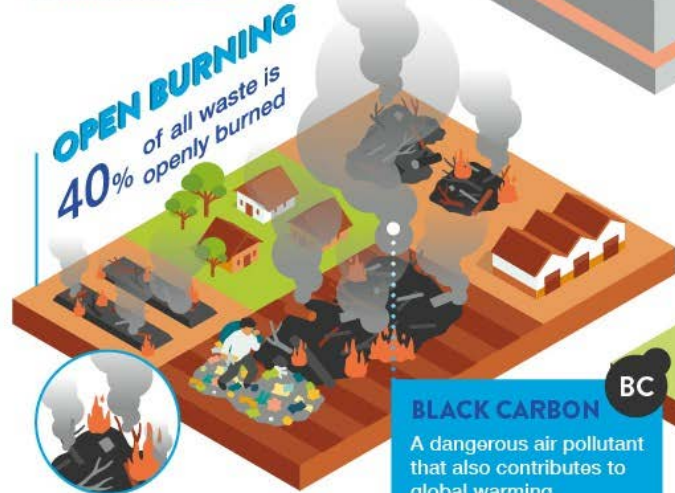




# REDUCING SHORT-LIVED CLIMATE POLLUTANT EMISSIONS FROM WASTE

Many common waste disposal methods generate short-lived climate pollutants like methane and black carbon - powerful climate forcers that damage our environment and health. Changing our consumption habits and managing waste differently are important steps in the fight against climate change and air pollution.

Without action, global waste could grow by **70%** by 2050



**BURNING WASTE** produces multiple air pollutants, including black carbon



## CCAC Waste Hub

The Coalition works closely with relevant communities, industry representatives, NGOs and policy makers to support targeted improvements to technology, best practices, and policies.



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TO REDUCE SHORT-LIVED CLIMATE POLLUTANTS

# THE COALITION AROUND THE WORLD



Leaflet | Terms & Feedback

Contact: [secretariat@ccacoalition.org](mailto:secretariat@ccacoalition.org)

# Questions and Answers



# THANK YOU

## THE COALITION AROUND THE WORLD



Contact: [secretariat@ccacoalition.org](mailto:secretariat@ccacoalition.org)