



**clean air farming**

Reducing Ammonia and Methane  
Emissions from Agriculture

LUNCH TALK

# How rural/agricultural emissions also effect urban citizens!

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Bratislava, 27 November 2019

A project by:



Deutsche Umwelthilfe



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## Paris in Spring

# HOW AGRICULTURAL EMISSIONS AFFECT OUR HEALTH

The agricultural sector is an important source of air pollution.

## AGRICULTURAL EMISSIONS

Agriculture is the main source of ammonia ( $\text{NH}_3$ ) and methane ( $\text{CH}_4$ ) in the EU (2017).



## AIR QUALITY & HEALTH

Ammonia ( $\text{NH}_3$ ) and methane ( $\text{CH}_4$ ) are major contributors to Particulate Matter (PM) and ozone ( $\text{O}_3$ ) – the most dangerous pollutants for human health.

## AIR POLLUTION CAUSE



**400,000+**  
premature deaths  
in EU



**300-900 BILLION €**  
in health-related costs every  
year in the EU





## Cost-effective measures to reduce both ammonia and methane emissions

- Feeding strategies > reduction of crude protein content
- Improved storage of manure and digestates
- Low-emission techniques for spreading farm manure
- Neutralizing of slurry
- Optimization of nitrogen management
- Grazing cattle
- Increasing of biogas production of manure





## Participation on the side of consumption and retail

- Meat and dairy from 230.000 cows is wasted in Germany every year<sup>\*)</sup>
- Less waste + less consumption + less production<sup>\*)</sup>  
=> NEC target + Paris Agreement



<sup>\*)</sup> Food needs to have a high value to sustain living for farmers



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## Political activities

### *Europe needs to act*

- NH<sub>3</sub> emissions have increased in the EU since 2013
- EC expects 13 member states to fail their NH<sub>3</sub> NERC in 2020
- Only 8 member states proposed additional measures to comply with NH<sub>3</sub> in 2020

### *Goal: Strengthening the role of civil society during legislative procedures*

- NAPCPs according NEC-Directive; 10 MS did not submit yet

List of NAPCPs: <https://ec.europa.eu/environment/air/reduction/NAPCP.htm>

- New Common Agricultural Policy
- Potential review process of Gothenburg Protocol





## Engagement of stakeholders

- **Food retailers** to promote the stop of food waste
- Round tables with **food standards**
- Round tables with German **farmers' associations**
- Expert talk with responsible actors of **agricultural education**
- Expert talks with **decision makers** on NAPCPs;  
e.g. Debunk the myth that animal welfare and emission reduction are conflicting objectives





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Thanks for your attention!