



The role of mineral fertilizers & targeted fertilisation

Tiffanie STEPHANI – Fertilizers Europe 16 May 2019 – Brussels

@StphaniT
@FertilizersEuro







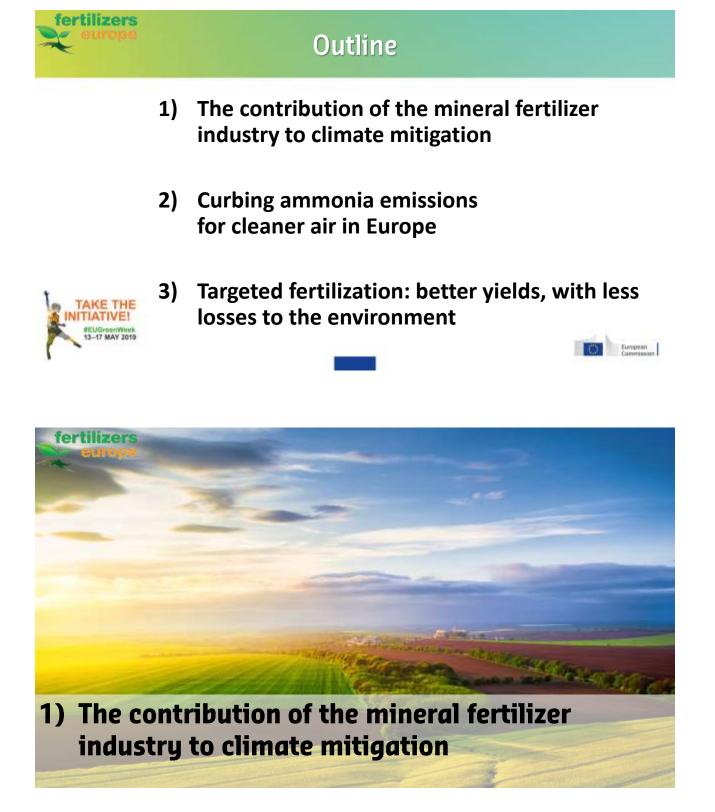


TAKE THE Source: Fertilizera Europe, 2018

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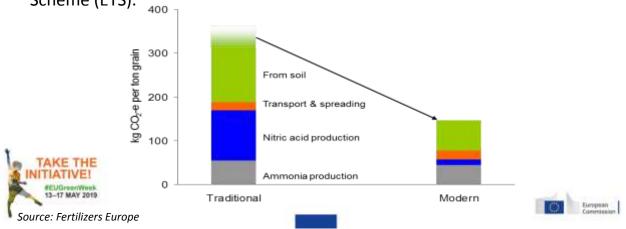
* Average last 5 years

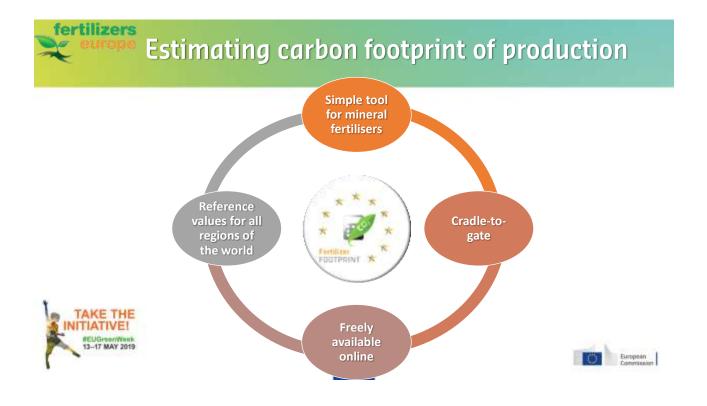


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Deep CO₂ emissions' cuts from production

The EU mineral fertilizer industry has reduced significantly CO₂ Emissions since 1990, beyond being covered by the European Emission Trading Scheme (ETS).





Estimating carbon footprint of farming



Fertilizers Europe is a founding member of the Cool Farm Alliance, whose aim is to develop sustainability metrics



The Cool Farm Tool is a sustainable agriculture assessment tool, with an online calculator for GHG, water and biodiversity



fertilizers



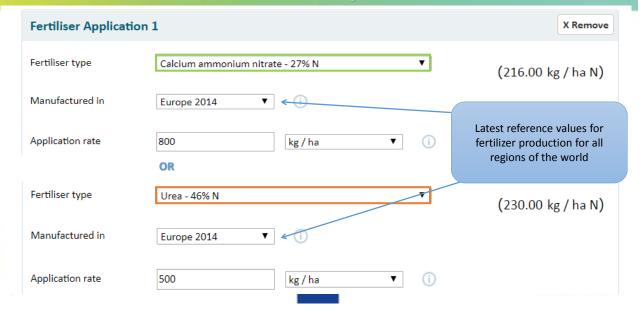
More & more products covered: rice, potato, maize, wheat, beef, dairy, pig...

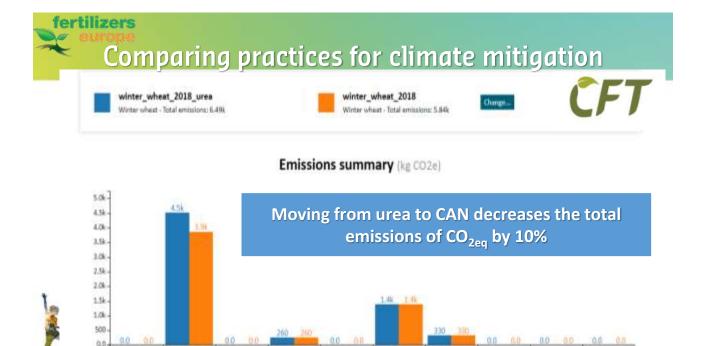




Farmers have different options for fertilizer use

fertilizers





Forest

biomass

Residue

nanagement

Energy use

(Held)

Energy side

(processing)

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Carbon stock

changes

Pesticide

Seed

production

OH-farm

transport

Waste water

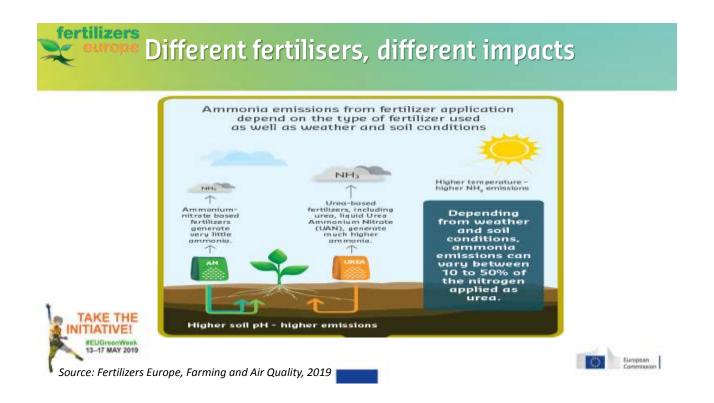






TAKE THE Source: Fertilizers Europe from EEA 2018- EU emission inventory report 1990-2016 under the UNECE LRTAP





Settilizers Optimal use of mineral fertilizers 1/2

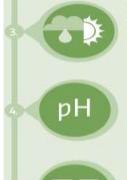




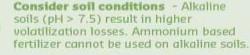
Source: Fertilizers Europe, Farming and Air Quality, 2019

European

Optimal use of mineral fertilizers 2/2



Consider weather conditions - humid soils improve diffusion, while cool weather conditions (< 15 °C) curb the formation of ammonia in the soil and subsequent volatilization losses from urea.





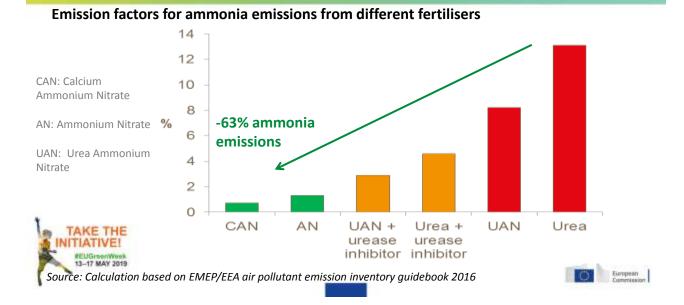
Split application - spreading mineral fertilizers 2 or 3 times instead of 1 time only during the season reduces ammonia concentrations and volatilizations risks.

Source: Fertilizers Europe, Farming and Air Quality, 2019

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What can be achieved?





Awareness-raising campaign

Reconciling farming and air quality

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Source: Fertilizer Focus, May/June 2019

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3) Targeted fertilization: better yields with less losses to the environment

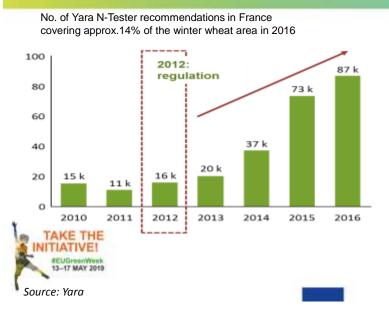






fertilizers

Yara N-tester in France





- Legal framework can help implementation of precision farming practices.
- Environment and productivity can meet through policy.



Benefits of Borealis N-Pilot®

A precise assessment of the nutritional status of the crops leading to a relevant recommendation of spreading or not spreading.

