

ON AGRICULTURAL GREENHOUSE GASES

Climate Smart Circular Food Systems

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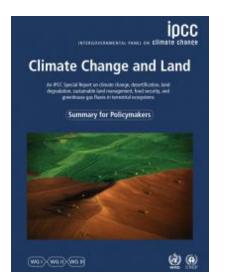


Does livestock fit in climate smart food production?

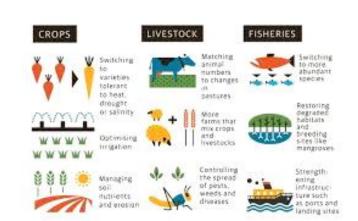
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The Intergovernmental Panel on Climate Change

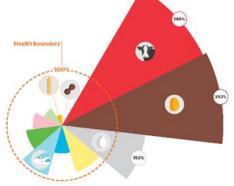


Avoiding meat and dairy is 'single biggest way' to reduce your impact on Earth



Current Diets vs Planetary Health Diet

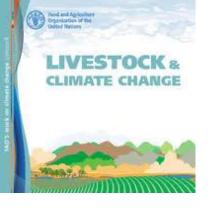




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Towards climate smart livestock management







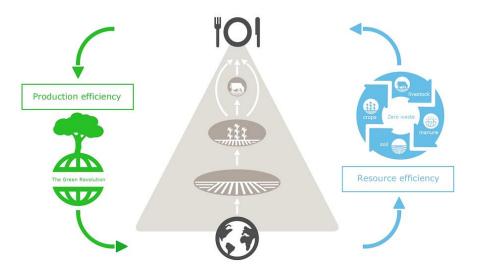
Food Security connected to Resource Security

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FOOD SECURITY





- Optimized use natural & renewable resource
- No waste of produced biomass
- Valorisation of residual biomass as coproducts
- Interconnected integration within foodsystem

RESOURCE SECURITY





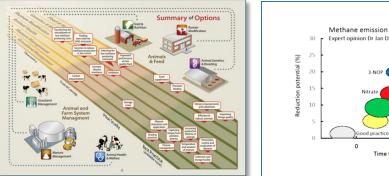


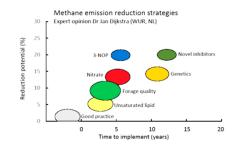


Direct Mitigation Options











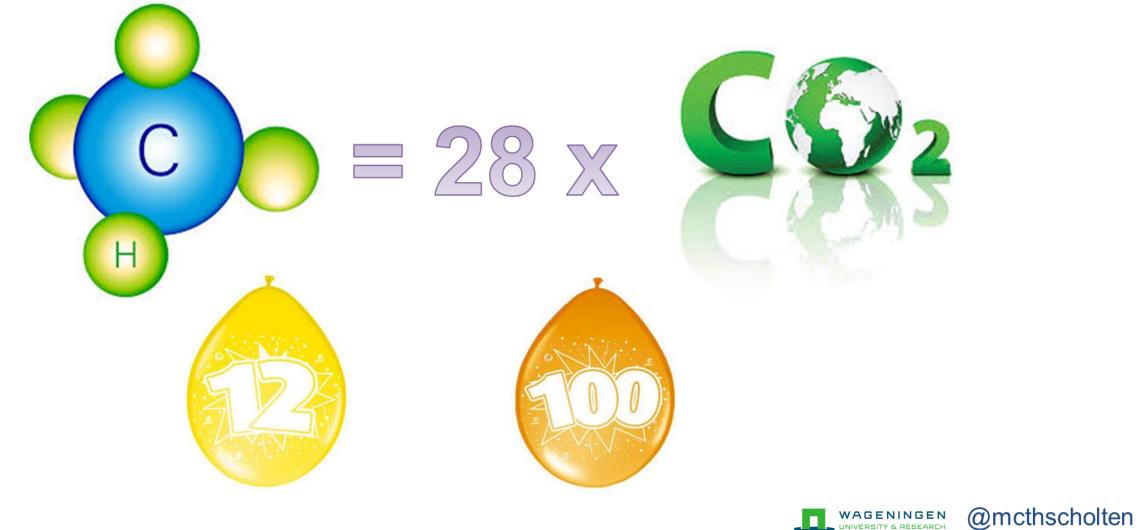
> 50% reduction

- Genotyping low methane production for selection
- Improving feed quality and digestibility, rumen microbes
- Improving animal health and husbandry conditions
- Manure management: collection, storage and utilisation
- Precision Livestock Farming



Methane focussed







Indirect Mitigation Options: carbon focussed

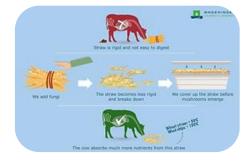
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- Better agricultural land use
- More efficient use of food crops (including residuals), grass and other marginal crops
- Less specific feed production
- Low emission husbandry management
- Smart use of manure for biobased organic fertilizing
- More carbon sequestration in soils and biomass



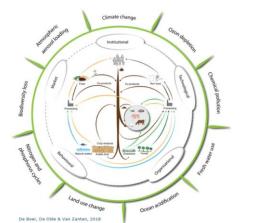






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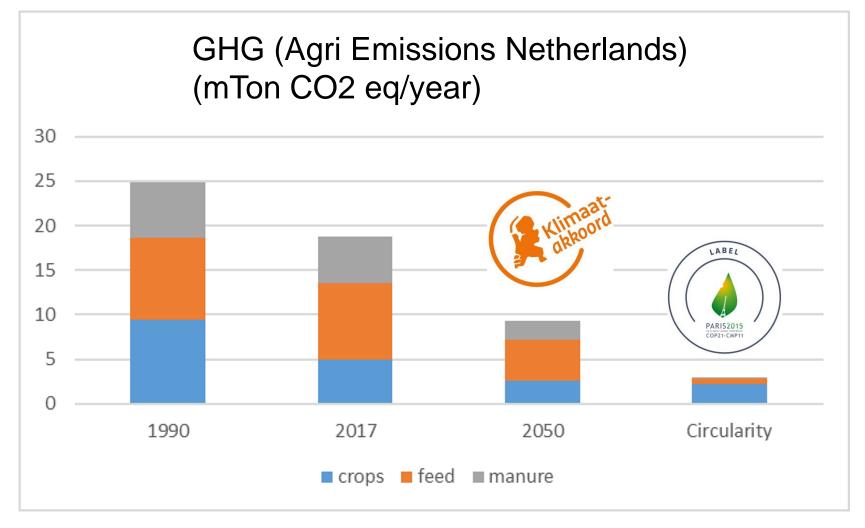






Climate Mitigation Perspectives







GRA Council Decision Berlin 2018





Task Force to Develop a Flagship Proposal on Circular Food Systems (CFS)

- Aim: to improve food security with lower GHG emissions by circularity across the entire agri-food system with an economy on by/co-products
 - Identify divers concepts, best practices and evidences for potential to reduce GHG at various scales
 - Identify R&D topics to transfer concepts to the practice in showcases
 - Developing a strategy to accelerate a transition towards circularity





Food and Agriculture Organization of the United Nations







Climate Smart Circular Food Systems

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We are open for all your support

