# About the essential role of livestock



## in climate-smart circular food

## Martin Scholten EURAGRI Webinar on the new CAP 31 May 2022



## **LIVESTOCK: FADING AWAY OR ESSENTIAL ?** Footprint versus role in circularity, finding the balance







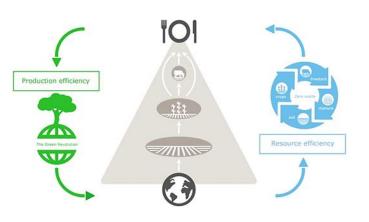
## FOOD WITHIN PLANETARY BOUNDARIES: How to achieve?



- Standard Top Resources
- Footprint Reduction
- Segregated
- Commodoties
- Secured and Safety



#### Food Security



#### Resource Sufficiency



- Circular Resources
- Zero waste (emissions)
- Connected
- Healthy
- Profitable





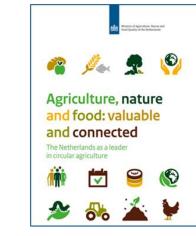


## **CIRCULARITY IN THE AGRISYSTEM:** Animals are essential

#### Livestock connects!







#### Soil is the base!





## **CIRCULARITY IN FEED SUFFICIENCY:** the power of broader thinking



## **CIRCULARITY IN MANURE BASED FERTILZATION:** the power of reversed thinking











## **ROLE OF LIVESTOCK IN CIRCULAR FOOD SECURITY:** Integrated, Inclusive, Interdisciplinary research











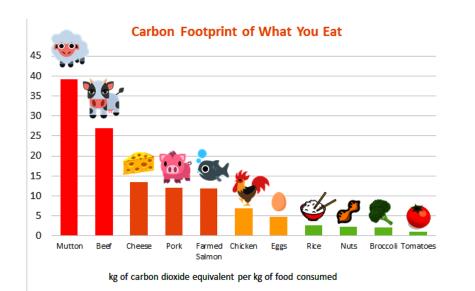




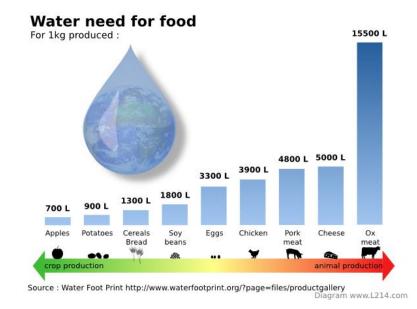




## **CLASSICAL Life Cycle Analysis:** is not the whole story to direct a food transition



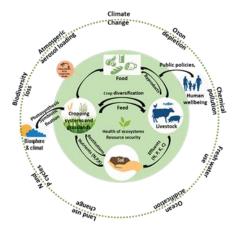
Avoiding meat and dairy is 'single biggest way' to reduce your impact on Earth

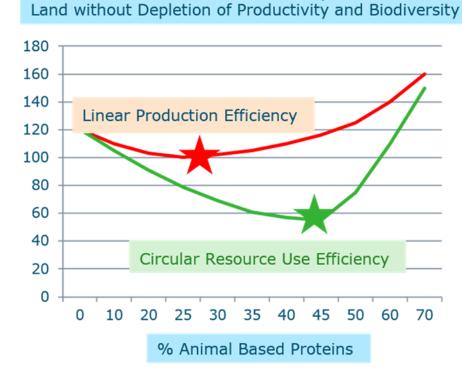






## **CIRCULARITY LEADS TO REAL SUSTAINABILITY:** A balanced optimization of the food system





Production of Human Edible Proteins per Hectare of



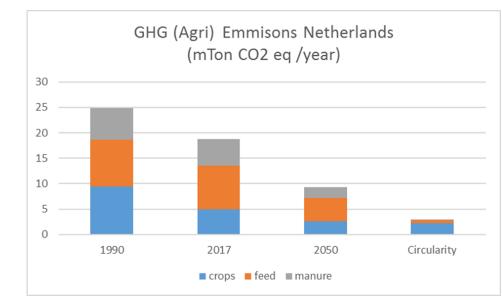






@mcthscholten

## **CIRCULARITY IS THE PATHWAY TO NET ZERO:** climate smart food production

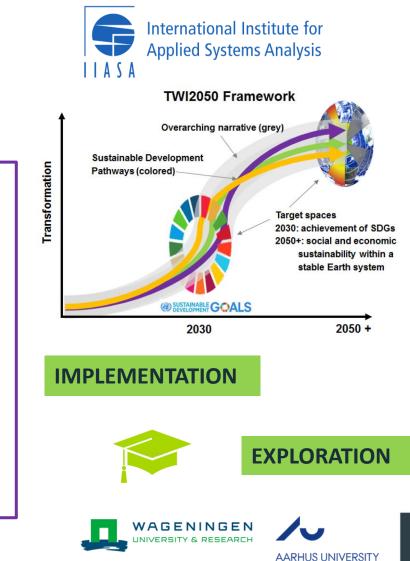




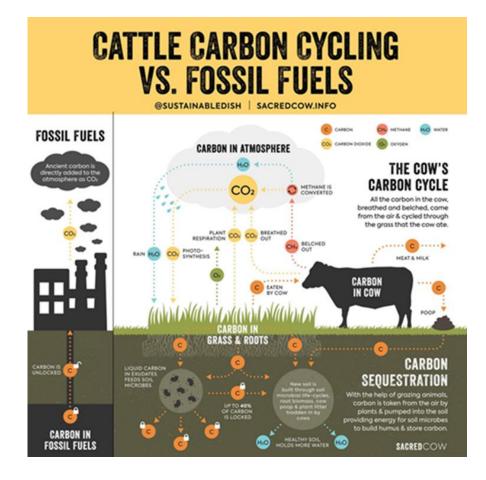
Manure: valorisation as compost (feces fraction) and mineral concentrates (urine fraction) saving use of artificial fertilizers

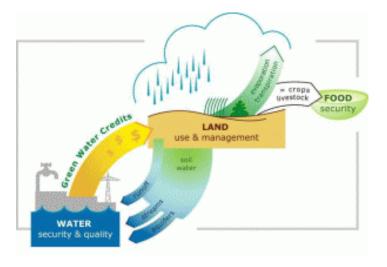
**Feed**: using 100% forage and coproducts from crop residues and food in animal feed instead of producing and importing specific **feed** crops;

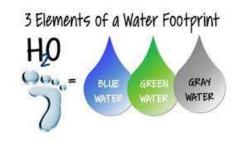
**Crops**: changing land use with a focus on mixed food with feed production instead of separate one-culture food and feed crop production land.



## **CIRCULARITY IS A SYSTEMIC SOLUTION:** for climate change and water scarcity













## **THANKS!**





