



**MARKTPROGRAMMA
VERDUURZAMING
DIERLIJKE PRODUCTEN**



KETENKENNISDIALOOG
‘Welke dierlijke producten eten we nog in de toekomst?’



PROGRAMMA

- 16.00 uur Welkom en introductie op het programma door de dagvoorzitter **Marijn Frank**
- 16.05 uur Masterclass 'Redesign the global foodsystem' door dr.ir. **HHE (Hannah) van Zanten**
PhD MSc - Interim Chair and Associate professor bij Wageningen University & Research
- 16.55 uur Project Duurzaam Diervoeder 2030 door ir. **HWCM. (Henk) Flipsen** - directeur Nederlandse Vereniging Diervoederindustrie (Nevedi)
- 17.10 uur PAUZE
- 17.25 uur Europese beleidsontwikkelingen naar een duurzamer voedselsysteem door **Carla Boonstra**, Agricultural Counsellor voor de Landbouwrapad in Brussel
- 17.45 uur Panelgesprek met de sprekers, Dierenbescherming, Landbouwrapad en retail
- 18.15 uur Wrap-up door de dagvoorzitter
- 18.30 uur Einde en aansluitend een duurzamer en gezond buffet



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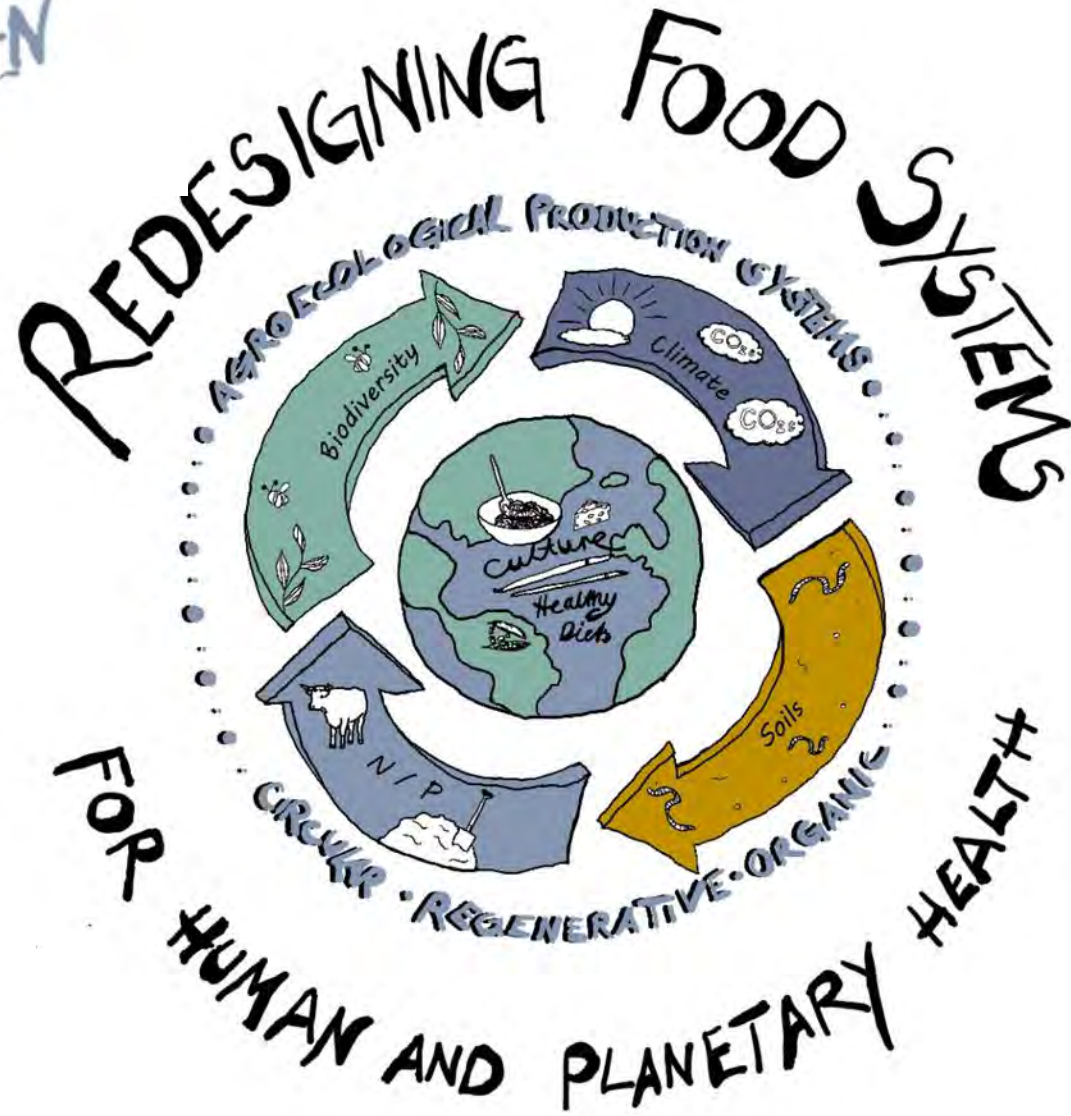
Wie het ziet, heeft de toekomst.



Wie het ziet, heeft de toekomst



HANNAH VAN ZANTEN



WAGENINGEN UNIVERSITY
WAGENINGEN UR

hannah.vanzanten@wur.nl
www.circularfoodsystems.org



Circular
Food
Systems

Planet Earth

10 Billion in 2050





HANNAHRITCHIE

**A good life for
everyone today**



**Opportunity for
future generations**

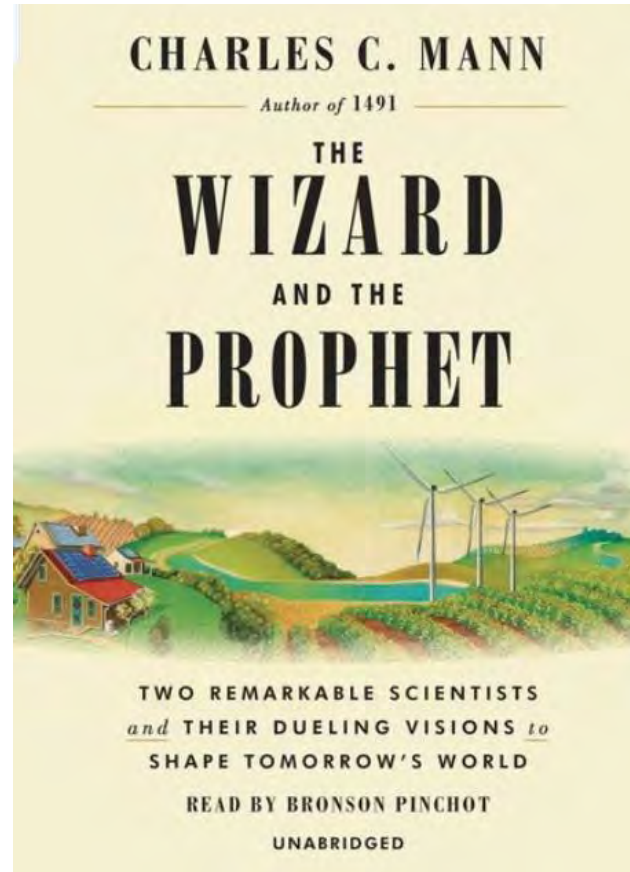
(and other species)



My carbon footprint is half that of my grandparents



Will technology indeed be the solution?



Assessing and facilitating the assessment of which combinations of solutions result in promising future food system designs which benefit all SDGs.

Circularity principles build on both nature and technology

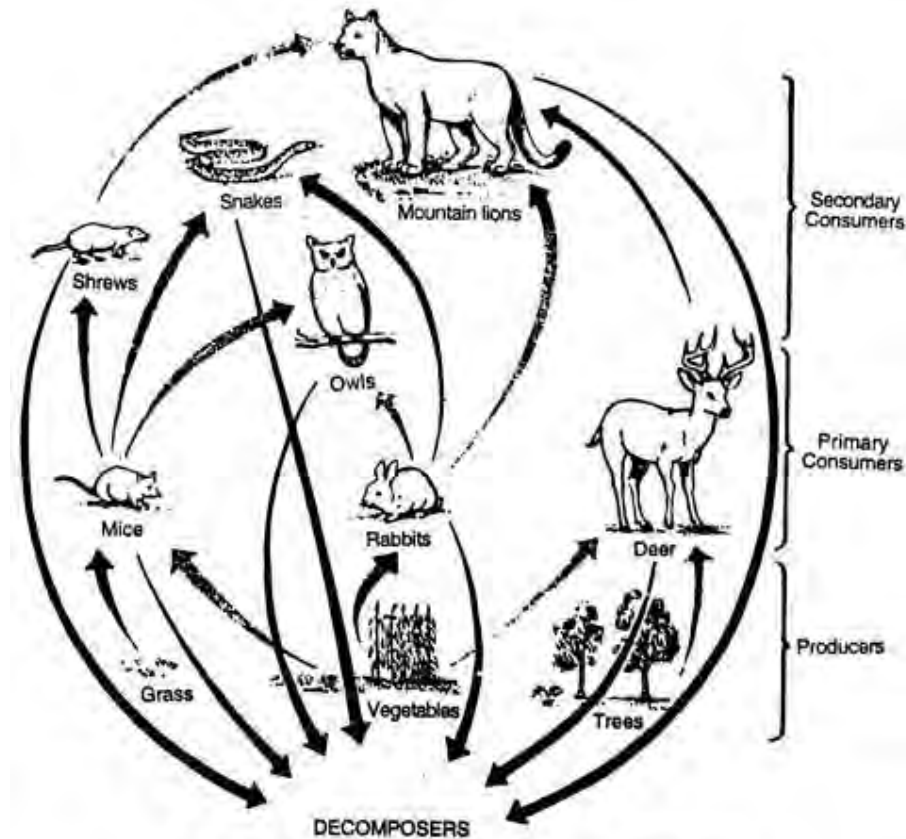
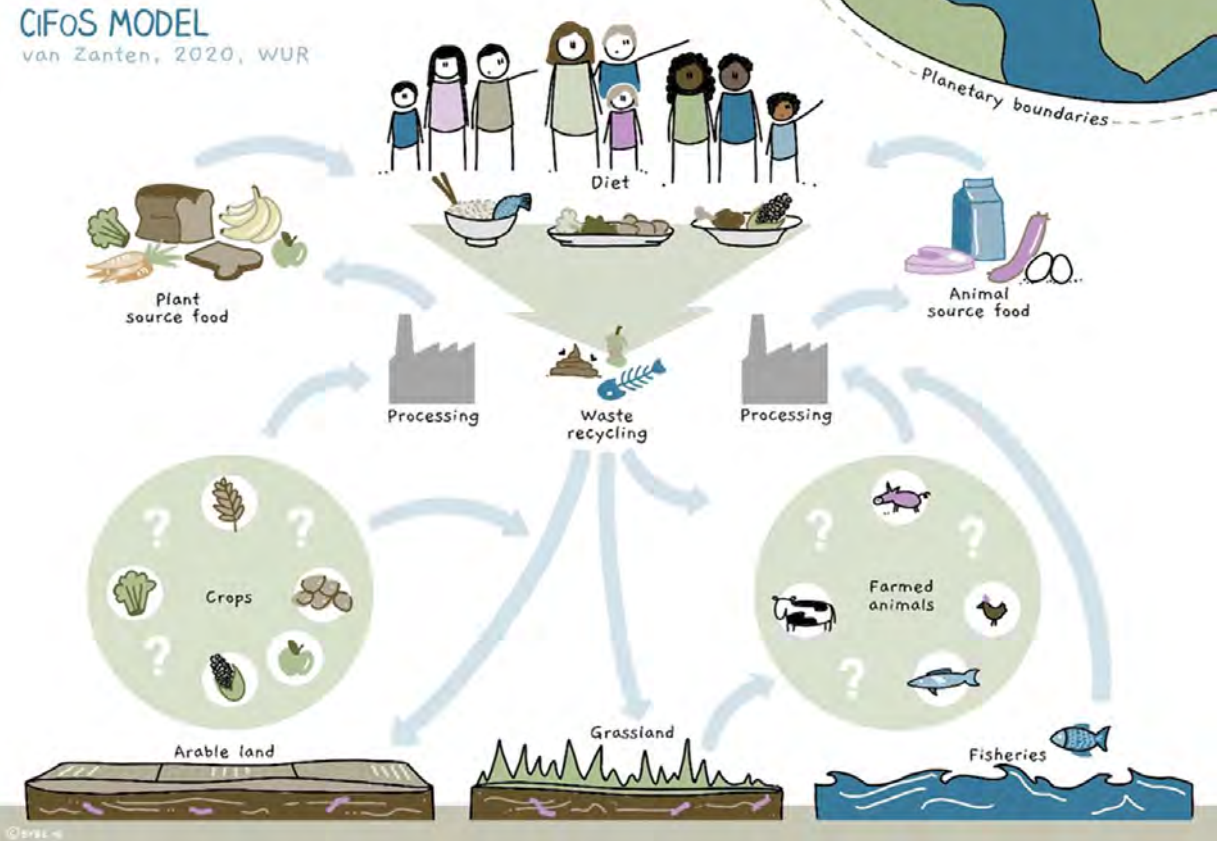
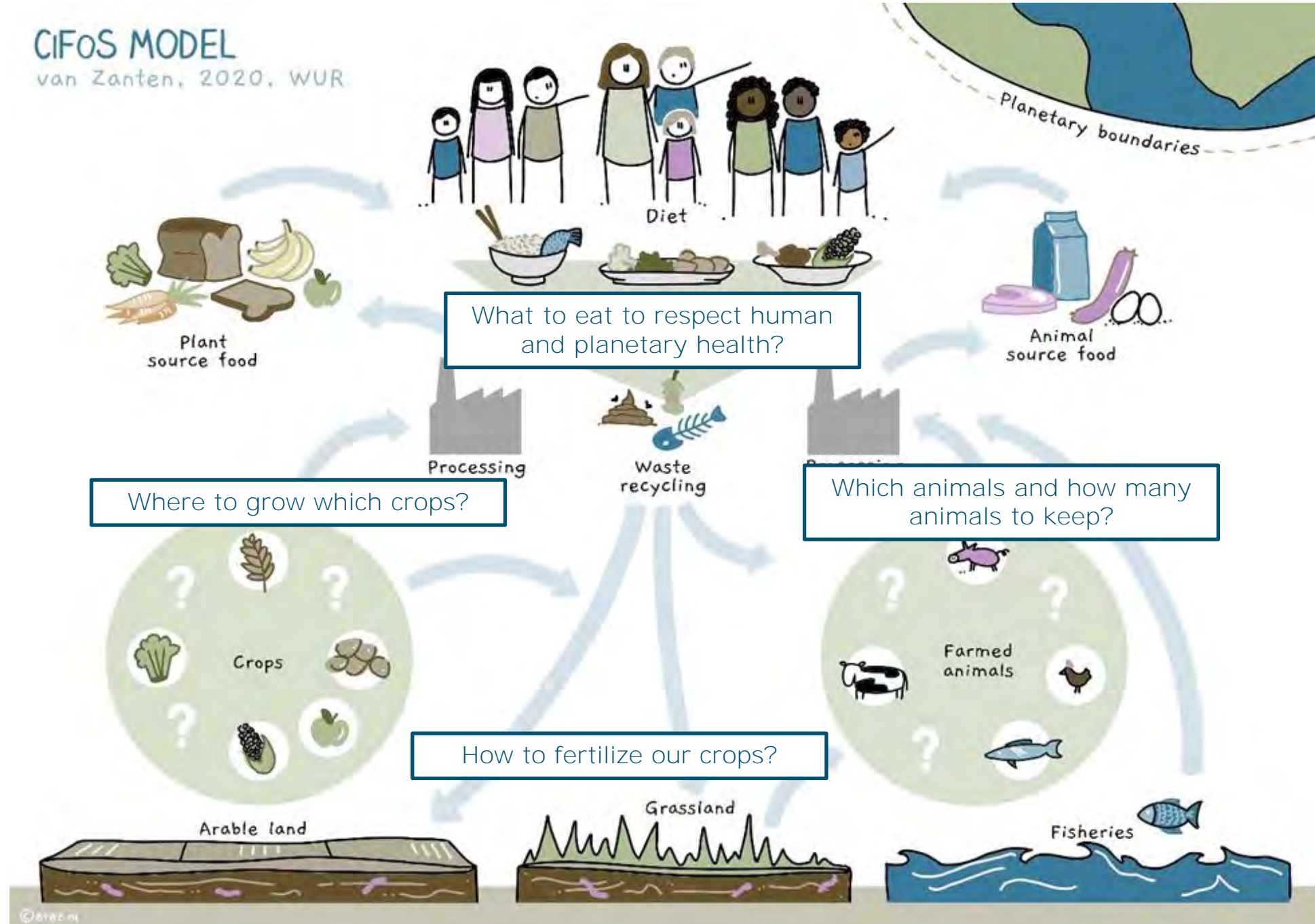


Fig. 48.2. Food Chain. Interrelationship of organisms on land



CiFoS MODEL

van Zanten, 2020, WUR



What to eat to respect human and planetary health?

Where to grow which crops?

Which animals and how many animals to keep?

How to fertilize our crops?

Scenario AgriBase

Scenario CirAgri

Scenario CirHealth

Scenario CirPop+

Scenario AgriBase

Scenario CirAgri

Scenario CirHealth

Scenario CirPop+







CO₂e
1,17 TON
p.p.p. year

172 million ha

Scenario AgriBase



CO₂e
0,91 TON
p.p.p. year

50 million ha

Scenario CirAgri



CO₂e
0,83 TON
p.p.p. year

50 million ha

Scenario CirHealth



CO₂e
0,72 TON
p.p.p. year

167 million ha

Scenario CirPop+

CO₂e
1,17 TON
p.p.p. year

172 million ha

Scenario AgriBase

CO₂e
0,91 TON
p.p.p. year

50 million ha

Scenario CirAgri

CO₂e
0,83 TON
p.p.p. year

50 million ha

Scenario CirHealth

CO₂e
0,72 TON
p.p.p. year

167 million ha
+ 767m extra people

Scenario CirPop+

CO₂e
1,17 TON
p.p.p. year



Scenario AgriBase

CO₂e
0,91 TON
p.p.p. year



Scenario CirAgri

CO₂e
0,83 TON
p.p.p. year



Scenario CirHealth

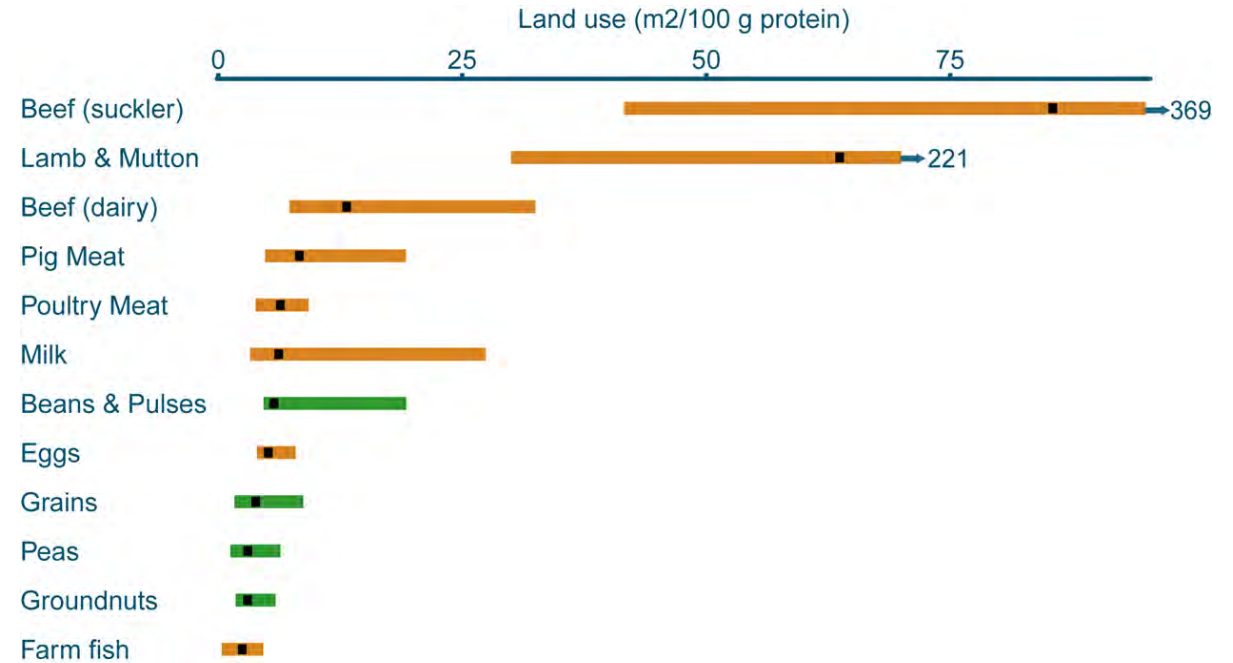
CO₂e
0,72 TON
p.p.p. year



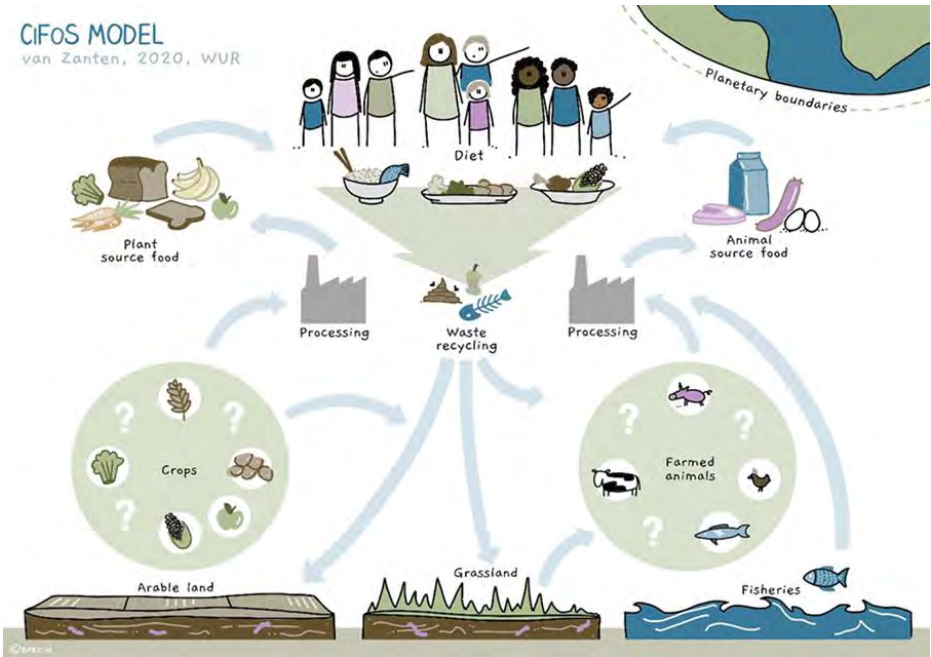
Scenario CirPop+



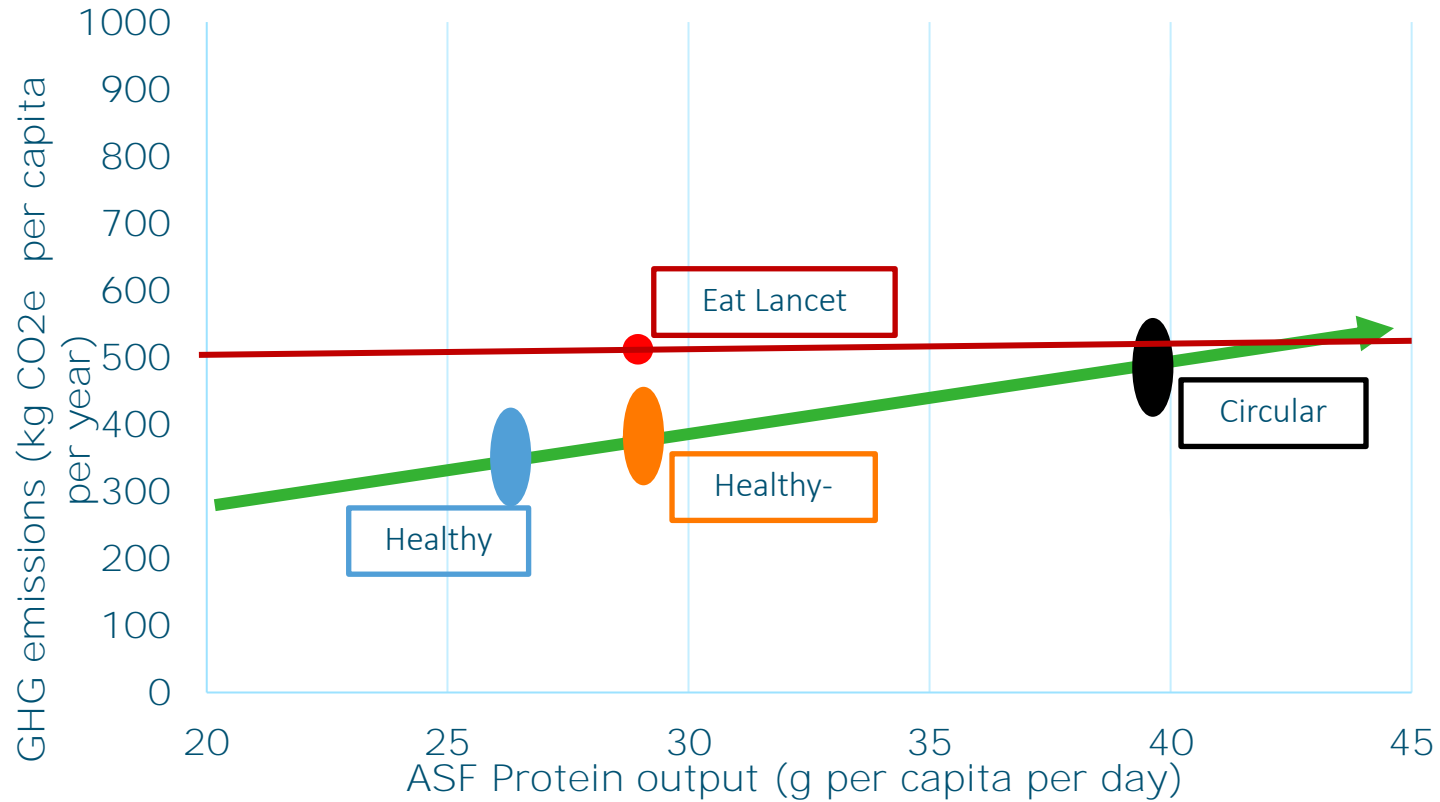
Animals yes or no???



Equip food system actors with the tools needed to redesign the system



Choice on future pathways determine the impact

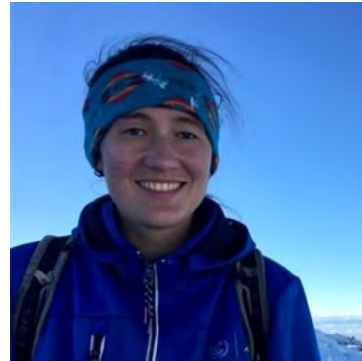
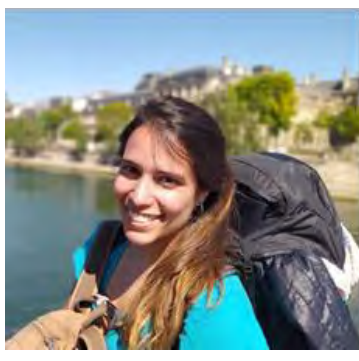
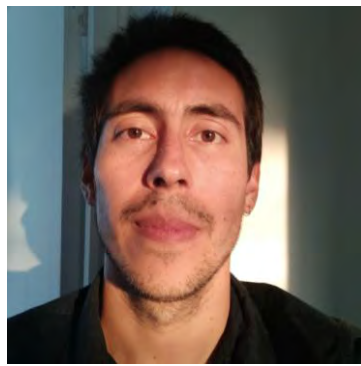


Take-home message

- Redesign of the food system is needed to respect human and planetary health
 - Circularity is a promising solution
- LCA studies are needed to identify solutions on the short-term
- Food system studies are needed to develop pathways towards respecting human and planetary health



Thank you



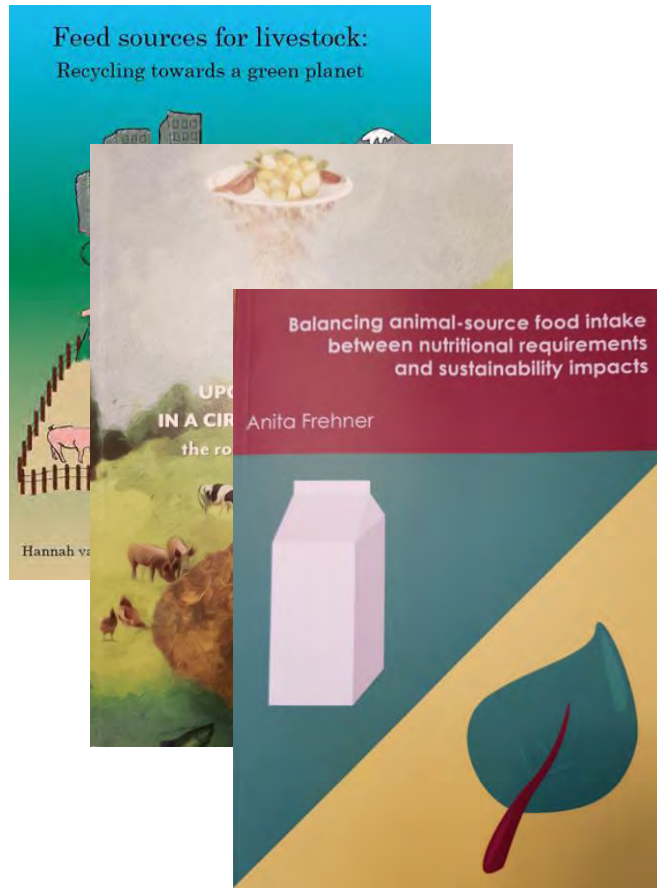
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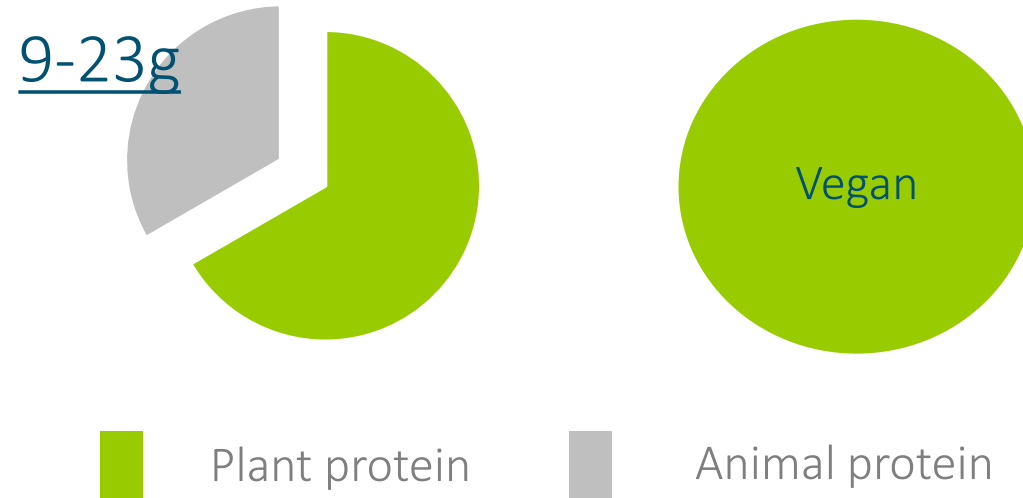
Animals in circular food systems



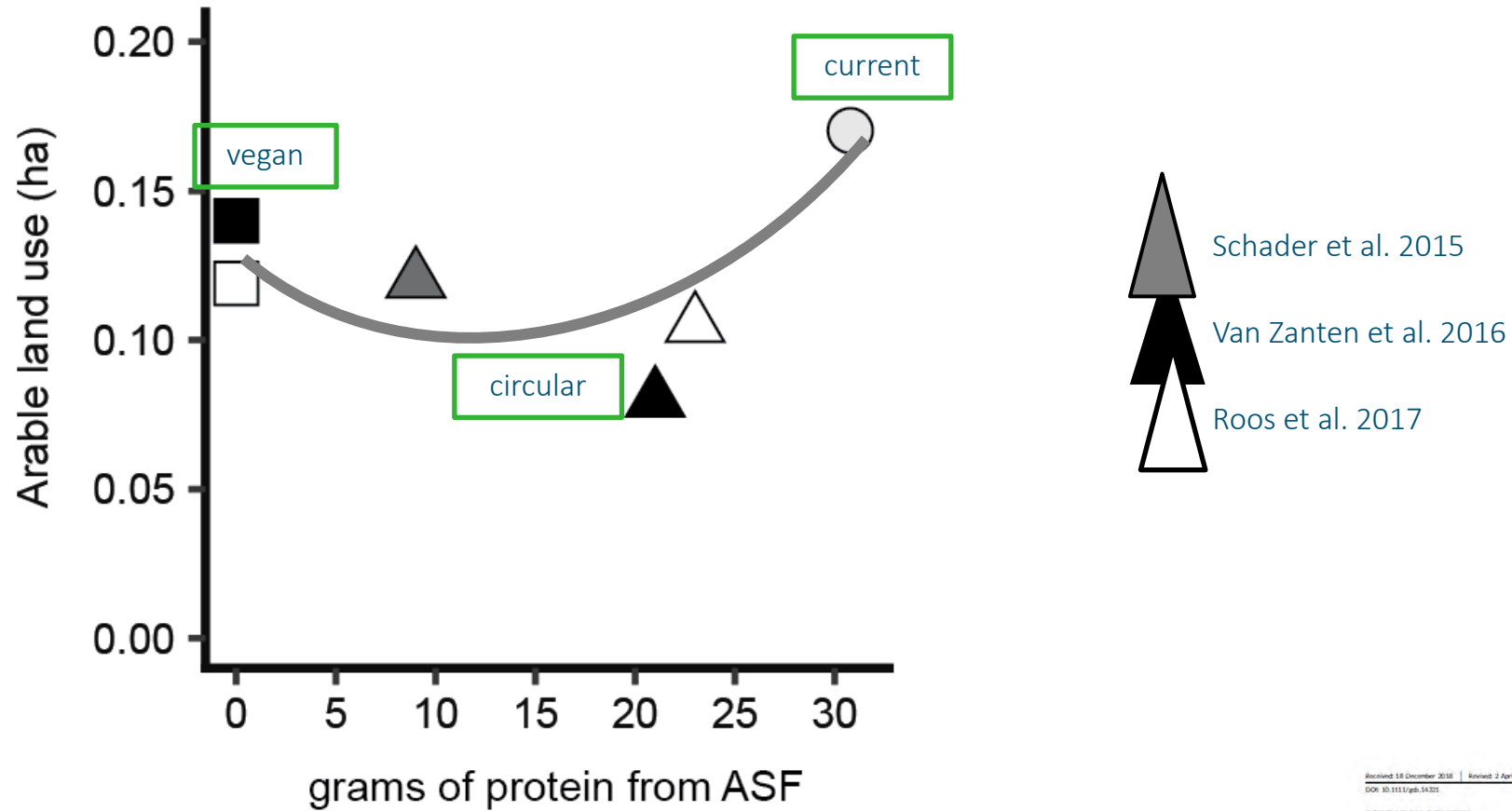
The screenshot shows a journal article page from *Global Food Security*. The article title is "Defining a land boundary for sustainable livestock consumption" by Hannah H. E. Van Zanten et al. The journal is published by Wiley Global Change Biology. The article is a research review. The authors listed are Hannah H. E. Van Zanten¹, Mario Herrero², Ollie Van Hal¹, Elin Rööös³, Adrian Muller^{4,5}, Tara Garnett⁶, Pierre J. Gerber^{1,7}, Christian Schader⁴, and Imke J. M. De Boer¹. The article was received on 18 December 2018, revised on 2 April 2018, and accepted on 30 April 2018. The DOI is 10.1111/gfb.14321.

Animals fed with the 'leftovers' from the food system

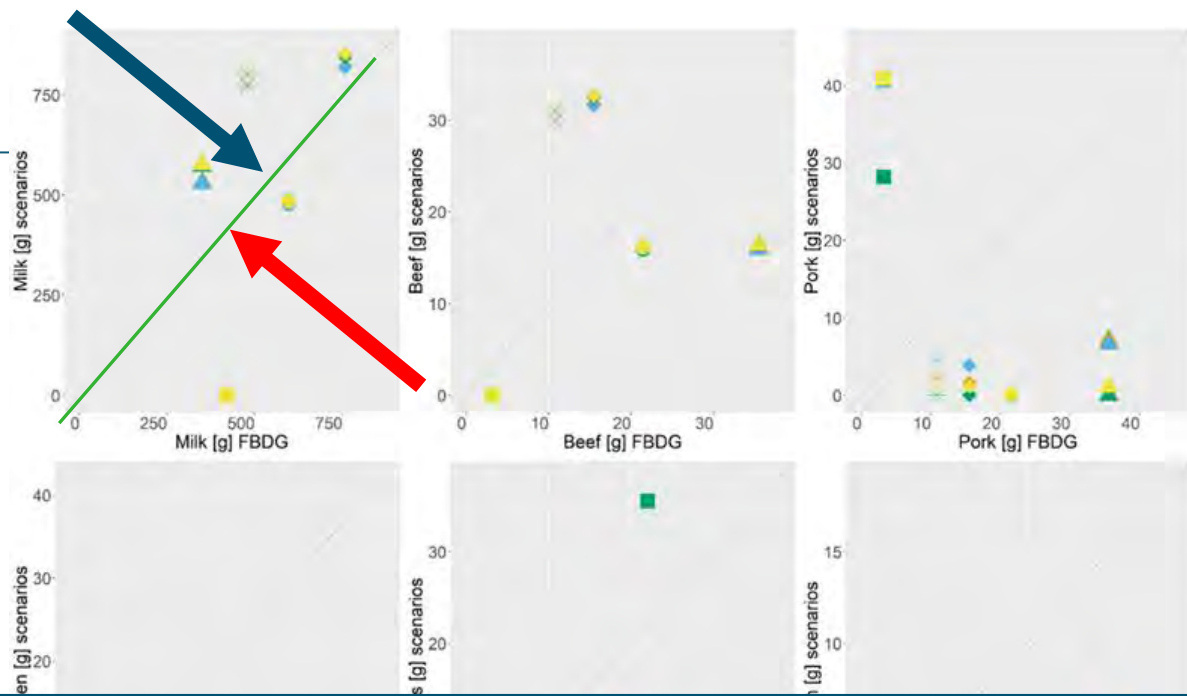
Daily protein requirement (60g)



Eating food from recyclers results in lowest land use



National dietary guidelines incompatible with circular food system principles



Guidelines based on health and environment

Recycling livestock no-regret solution



The screenshot shows a news article snippet. At the top, there is a yellow header bar with a "Check for updates" button and the text "news & views". Below the header, the word "CIRCULARITY" is written in a smaller font. The main title of the article is "Upcycled non-competing feedstuff" in a large, bold font. Below the title, there is a short paragraph: "Farm animals in circular food systems upcycle non-competing feedstuff and therefore reduce feed-food competition. This can increase global food supply while reducing pressure on the Earth's system." At the bottom of the snippet, the author's name "Hannah H. E. van Zanten" is listed.

But their role depends on how we redesign the food system





Project Duurzaam Diervoeder 2030

KetenKennisDialog 'Welke dieren eten
we nog in de toekomst?'

Henk Flipsen, directeur Nevedi

27 september 2023

Inhoud

- Aanleiding
- Doel en scope project
- Inhoud project
- Planning en vervolgstappen





Aanleiding, doel en scope

Aanleiding:

- Bijdrage aan kringlooplandbouw en verlaging milieu-impact dierlijke ketens via diervoeders
- Meetbaar via monitor duurzaam diervoeders
- **Doel:** inzichtelijk maken van bijdrage door concrete KPI's voor klimaat, biodiversiteit, circulariteit en Europese sourcing van diervoeder.
- **Scope:** voeders geleverd aan Nederlandse veehouders: droge- en natte voeders, meervoudig en enkelvoudige voeders. Buiten scope vallen: ruwvoer, voeders door boeren zelf geteeld en additieven.



Inhoud project: KPI's

- 1) Klimaat: klimaatmitigatie
- 2) Biodiversiteit: behoud biodiversiteit
- 3) Circulariteit: verbeteren en optimalisatie grondstoffengebruik
- 4) Regionale grondstoffen: Europese herkomst





Planning

- Najaar 2022: KPI's vastgesteld binnen diervoedersector
- Voorjaar 2023: afstemming ministerie LNV en ketenpartijen
- Zomer 2023: nulmeting referentiejaar 2018

- Najaar 2023: vaststellen KPI's
- Eind 2023: monitoringsysteem

Vragen?





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