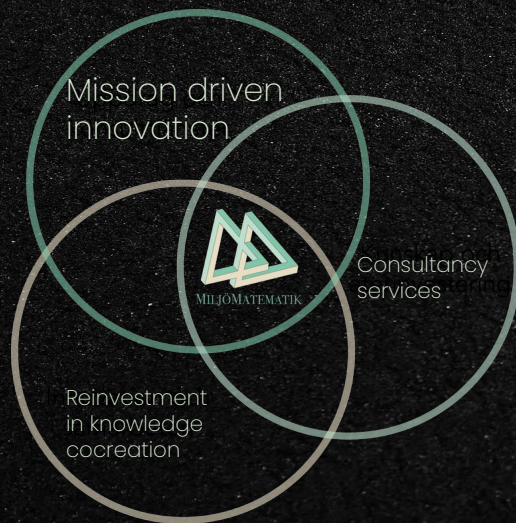




Unlocking the potential of carbon farming

9 dec 2021

Who?



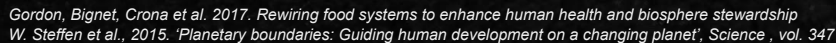
MISSION MMM: Transform the food system and contribute to food being a solution for achieving thriving societies within the planetary boundaries

MISSION SK: Design a win-win-win solution to reverse climate change, increase soil carbon content and fertility, conserve and create ecosystem services, and thereby improve profits for Swedish farmers



Food production is a major driver of global environmental change:

- # Address complexity - communicate carbon




Pilot 2020 – learning by doing

- 14 pilot farm covering 300 ha
- 3 companies paying 1000 SEK per hectare
- 5 research institutes
- tech companies, farm advisors, financial institutions, research communicators, other carbon farming initiatives etc

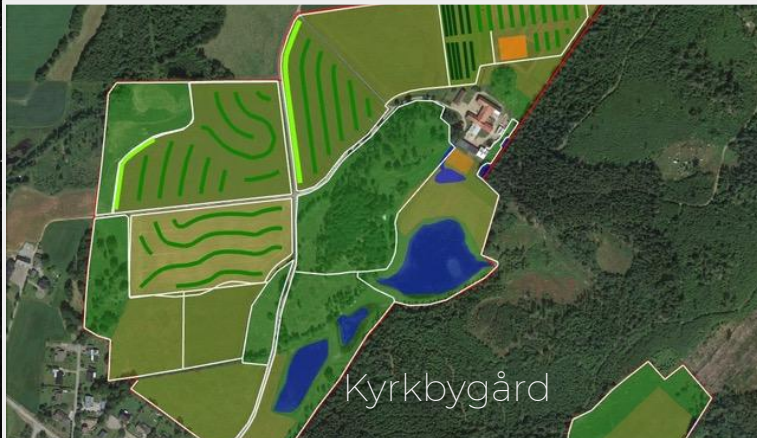
Goal:

Build an ecosystem of collaboration partners, bridging knowledge and information gaps, launching a digital platform (dec 2020)





mer kol i svensk jordbruksmark
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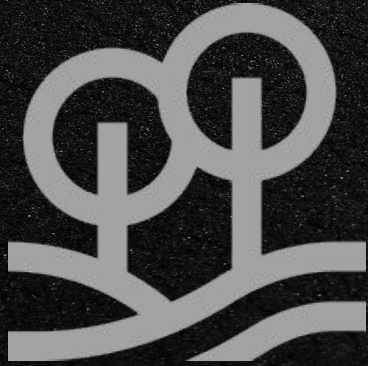


Pilot program 2021 – 2022

Develop platform and facilitate transition

- 40 pilot farms, 900 ha
- 11 development partners paying 1300 SEK/ha; ARLA, WASA, Paulig, Lantmännen, Bertegruppen, Lindengruppen, Axfoundation, 2050, Grant Thornton, Oatly & MAX Burgers
- Carbon Club, Kolklubben
- Cocreate future scenarios for the food system
- Nordic framework for MRV and certification
- Launch next step winter 22/23

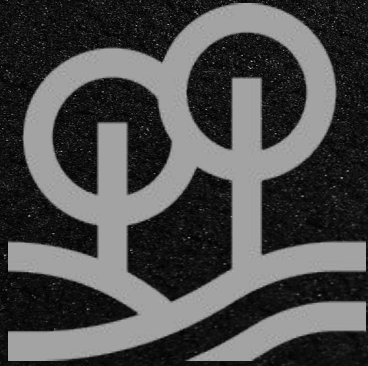
How?



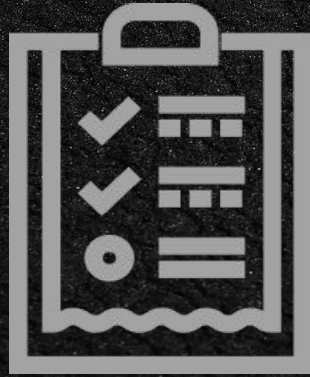
Knowledge
co-creation



How?

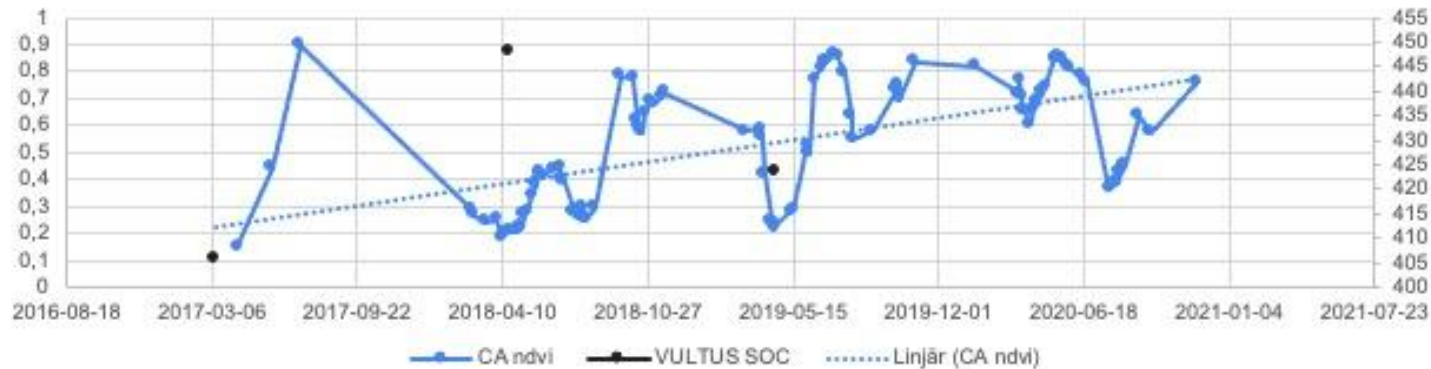


Knowledge
co-creation

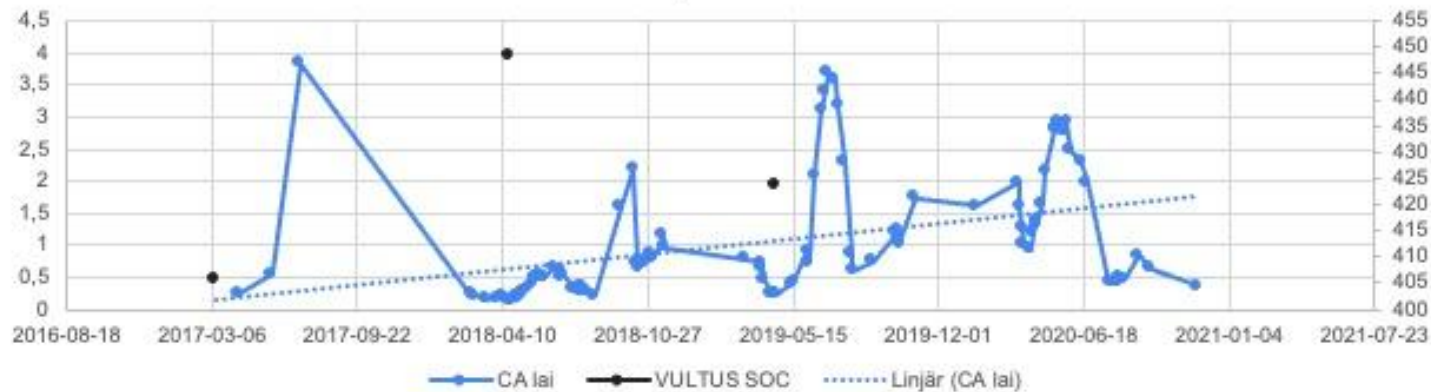


Measurements &
validation of
carbon

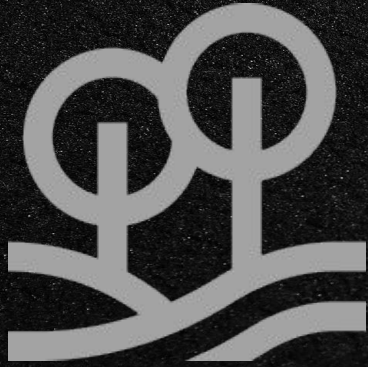
CA NDVI, Vultus SOC



CA LAI, Vultus SOC



How?



Knowledge
co-creation

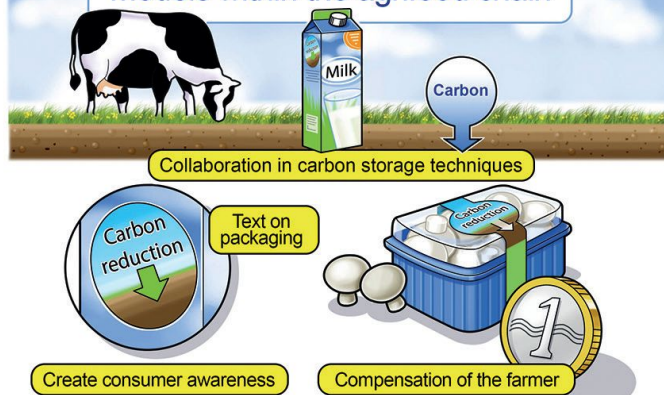


Measurements &
validation of
carbon



Business models

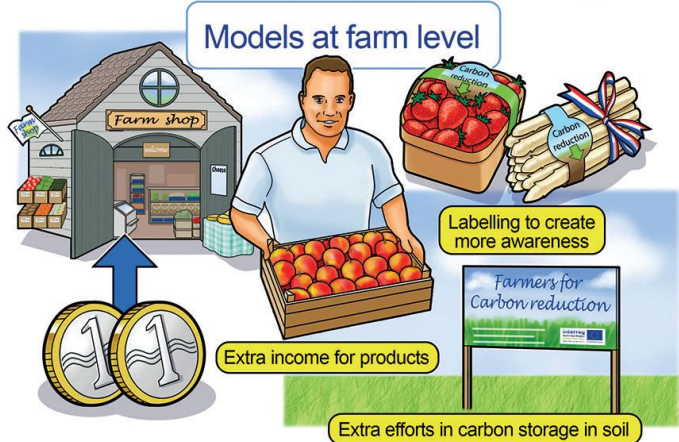
Models within the agrifood chain



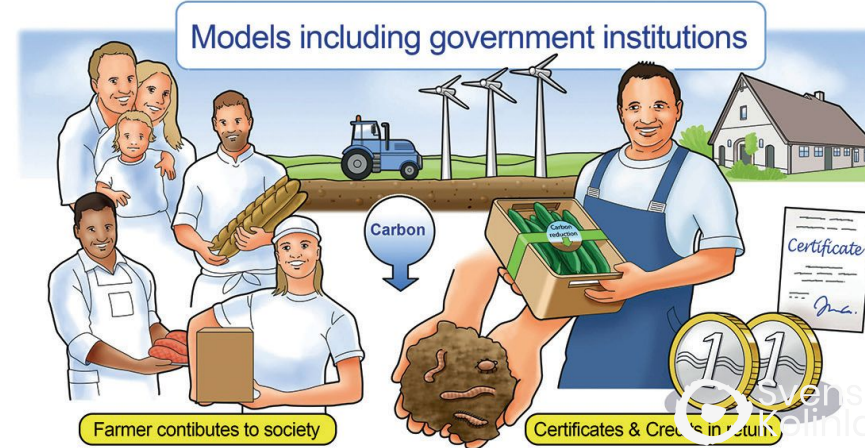
Models outside the agri-food chain



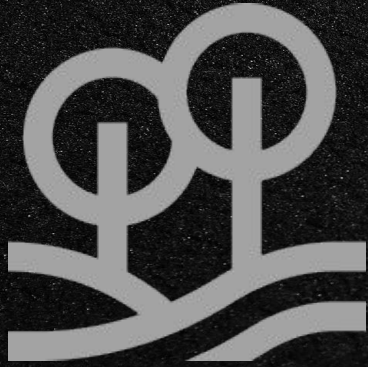
Models at farm level



Models including government institutions



Next steps?



Knowledge
co-creation



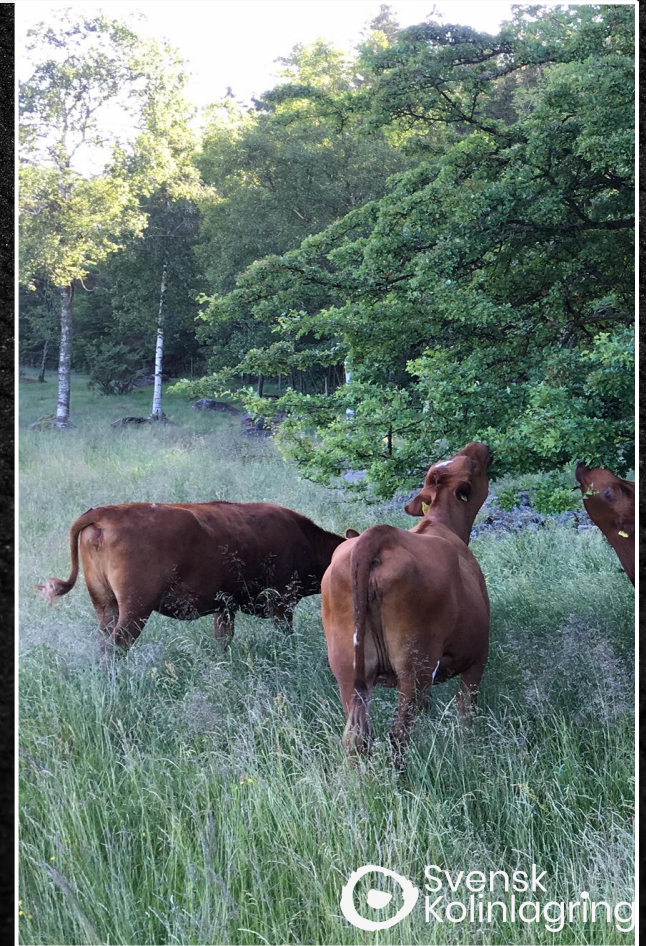
Measurements &
validation of
carbon



Business models

Principles to transform a system

- Information Flows – The structure of who does and does not have access to information.
- Self-organisation – The power to add, change or evolve system structure
- Goals – The purpose or function of the system.
- Paradigms – The mind-set out of which the system – its goals, structure, rules, delays, parameters – arises.





Johansson, Brogaard
& Brodin (in review)
for Environmental
Science and Policy)





Foto: Jan Åberg

"You never change things by fighting the existing reality. To change something, build a new model that makes the existing model obsolete." Buckminster Fuller

THANKS FOR LISTENING!

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