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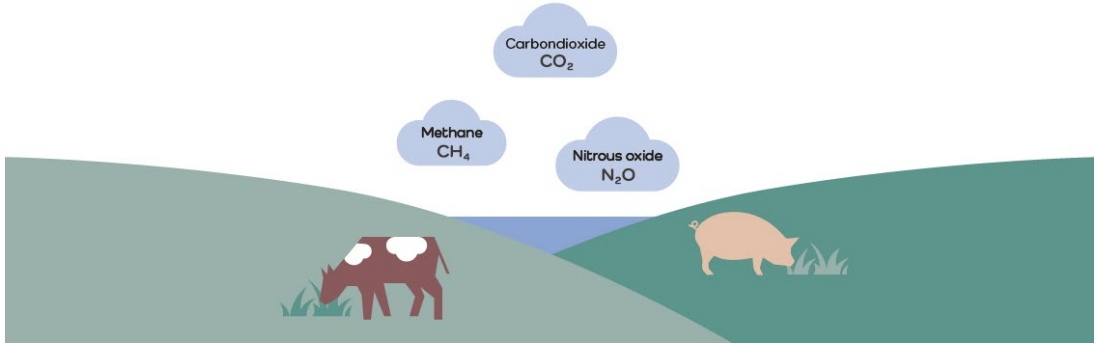
for Organic Farming

Optimizing the data foundation for calculating carbon footprint of organic productions

Julie Henriksen, Chief advisor
Marie Trydeman Knudsen, Senior researcher, Institut for Agroecology
Lisbeth Mogensen, Lektor, Institut for Agroecology

Agenda



13:00 – 13:10: Welcome and short presentation of participants

13:10 – 13:30: Motivation and introduction to the workshop /Julie Henriksen, ICOEL

13:30 – 13:50: IFOAM's position on the PEF and the Directive on Green Claims

by Laura Sauques, Food Policy Assistant, IFOAM Organics Europe

13:50 – 14:45: Individual assignment and group discussion

What main factors describe the differences between organic and conventional productions?

Where do you see the main problems concerning knowledge gaps, relevant data and modelling?

Do you see some solutions?

14.45 – 15:00: What did we learn?

There is a need for… In relation to organic production

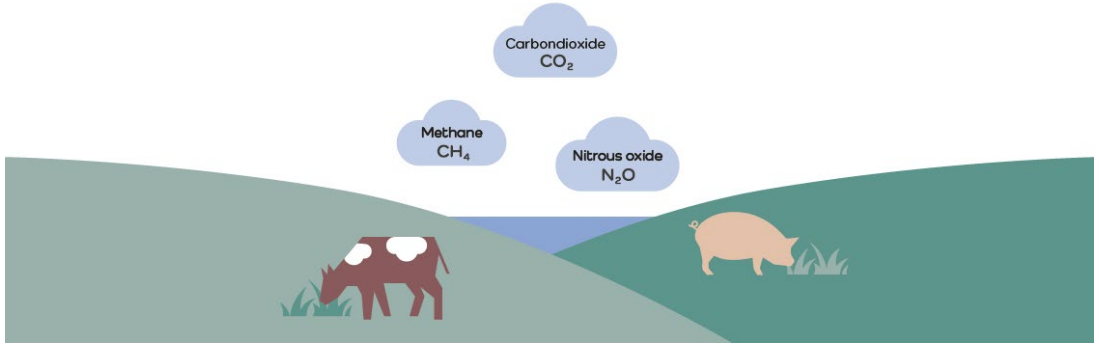
Conclusions from a Danish scientific synthesis

- Development of international recognized calculation methods
- Expansion of international databases
- Methods to handle complex, cirkular systems
- Improve moddeling af climate impact at farm level
- Clear guidelines for LCA-calculations (eks. PEF)
- Research describing main variation between different production systems

Ref: VIDENSYNTESE OM LIVSCYKLUSVURDERINGER OG KLIMAEFFEKTIVITET I LANDBRUGSSEKTOREN

LISBETH MOGENSEN, MARIE TRYDEMAN KNUDSEN, FATEMEH HASHEMI, ANDREAS JENSEN OG TROELS KRISTENSEN DCA RAPPORT NR. 200 • FEBRUAR 2022 • RÅDGIVNING

The burning platform

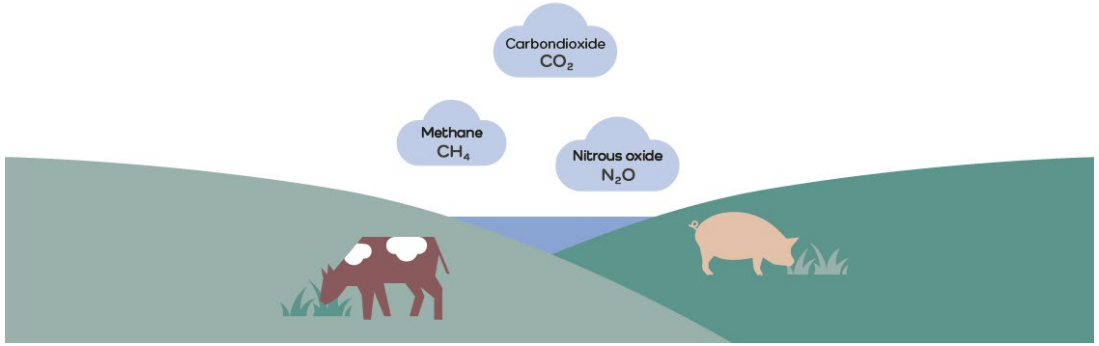


Motivation and ”state of the art”

Challenges:

1. Knowledge and research methods assessing emissions from the agricultural sector often are based on the framework of conventionel production systems
2. Emission factors, standard numbers and activity data often are based on the framework of conventional barn systems and intensive production
3. Concerning crop production, the impact of the inputs to the system often are calculated similar to conventional crop production

The burning platform



Motivation and ”state of the art”

Where do you see the most problematic lack of data or research?

How do we manage to optimize this data and the modelling behind?

Building af roadmap

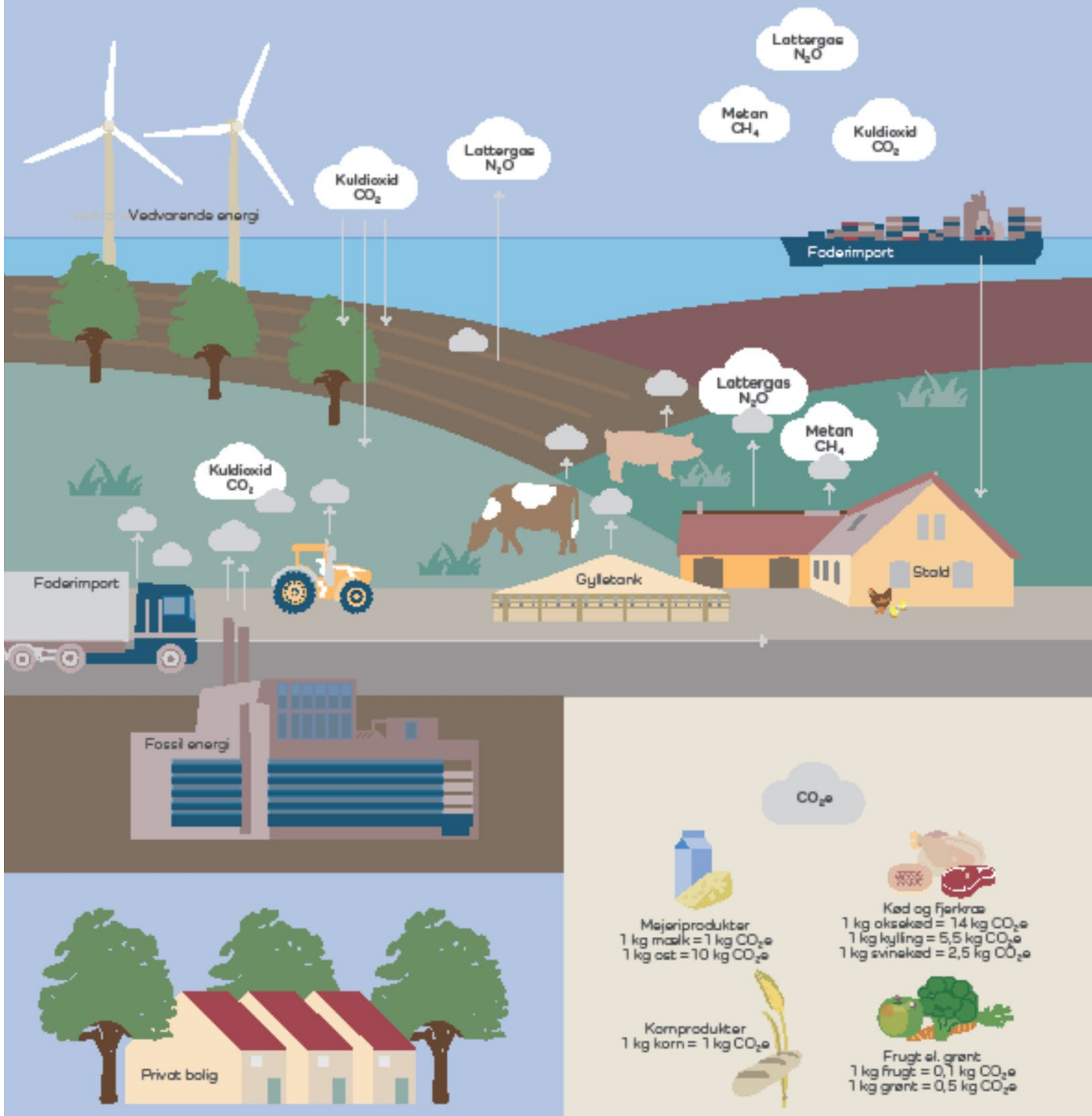
1) Point out the most important factors for calculation climate impact
2) Categorize the actions
3) Prioritize the actions

Emissions at farm level

Total emissions

Territorial emissions

Product level



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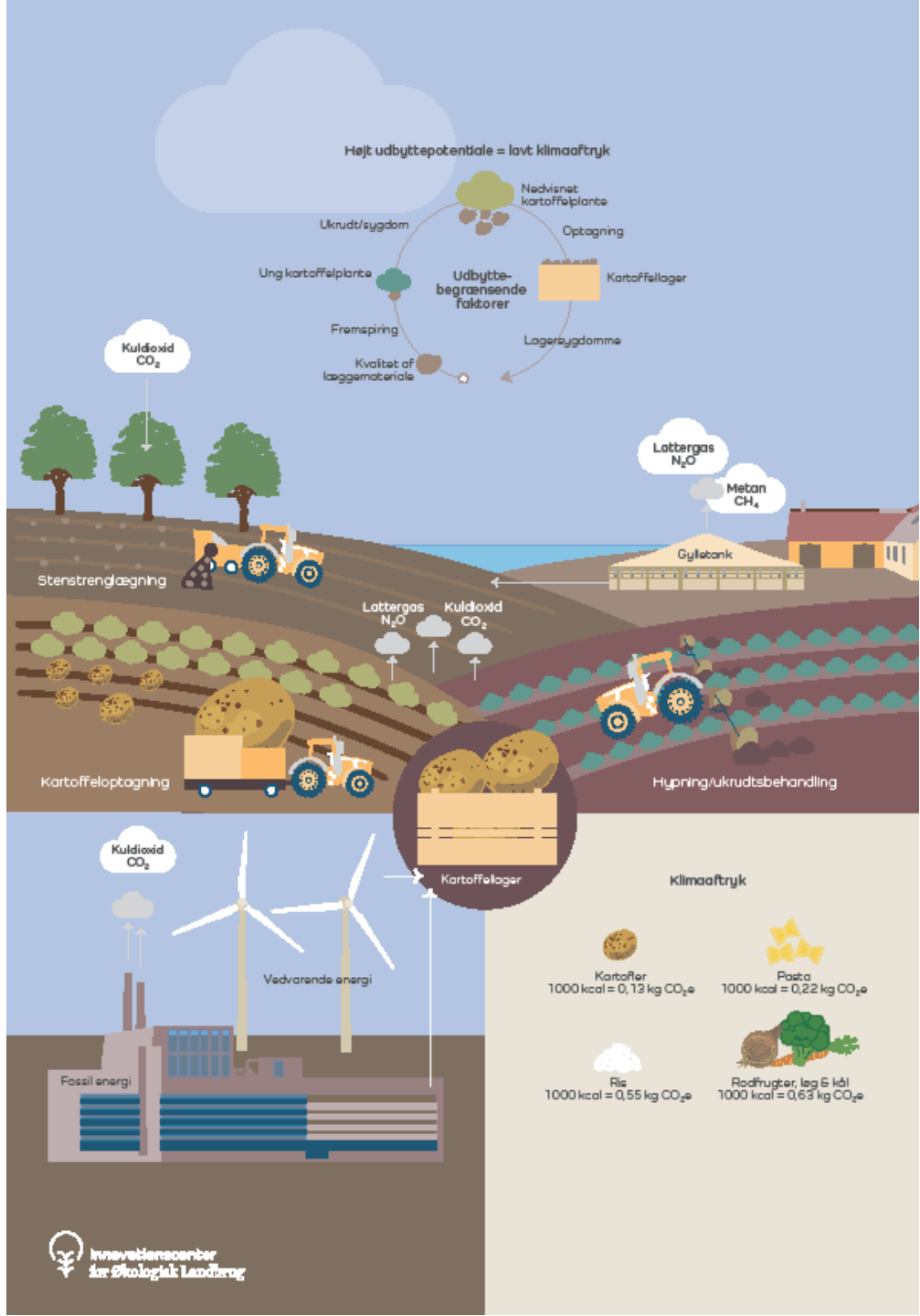
Emissions at farm level

Total emissions

Territorial emissions

Product level



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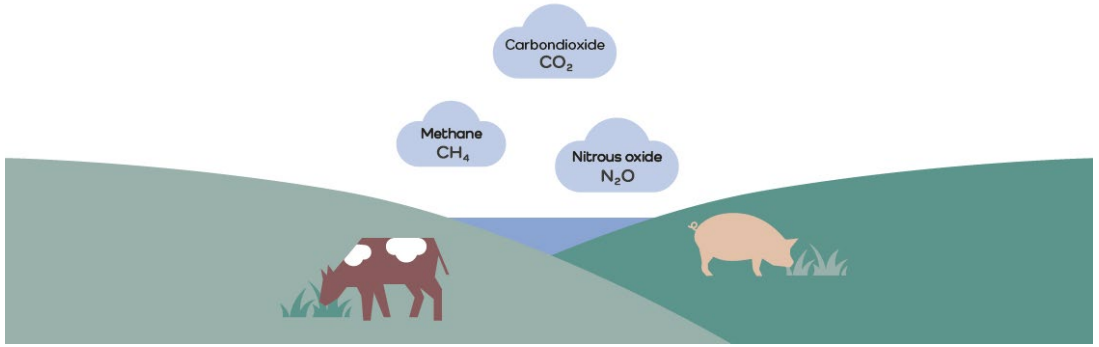
Aim of the workshop

To improve the knowledge and data foundation for calculating climate impact of organic productions



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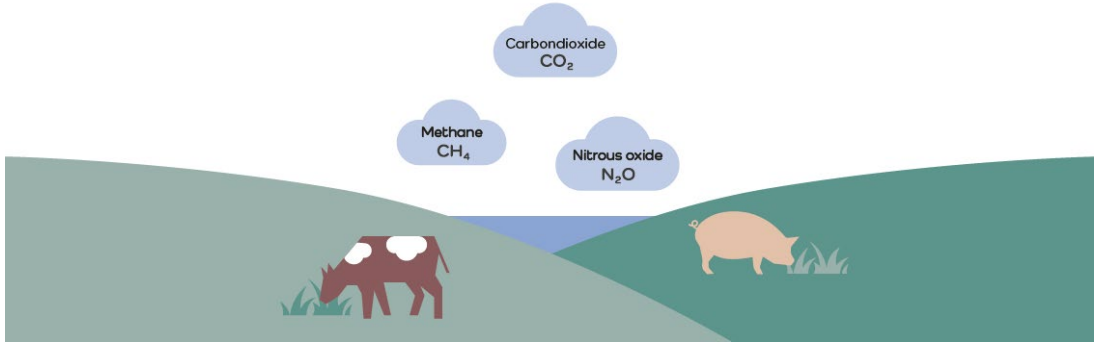
Aim of the workshop

What should we try to answer today?

What actions should have the highest priority to improve calculation models?

In which areas do we need more research?

And who should we cooperate with to achieve improvement?



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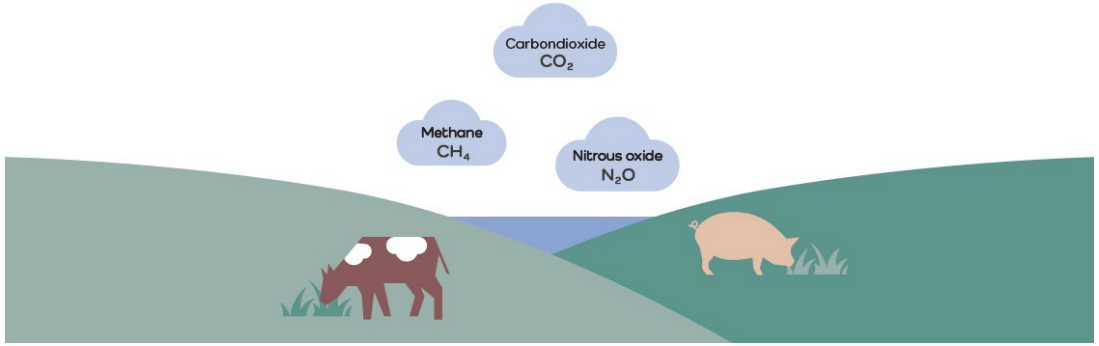

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Do you see some solutions?

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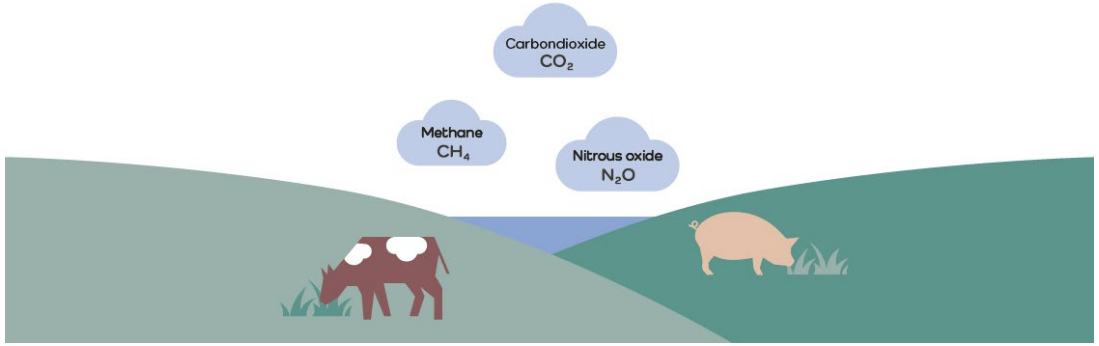

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Group discussion

1) *Spend 10 minutes individually to list the main factors that differs between organic and conventional production*

Where do you in your daily work see the biggest challenges?

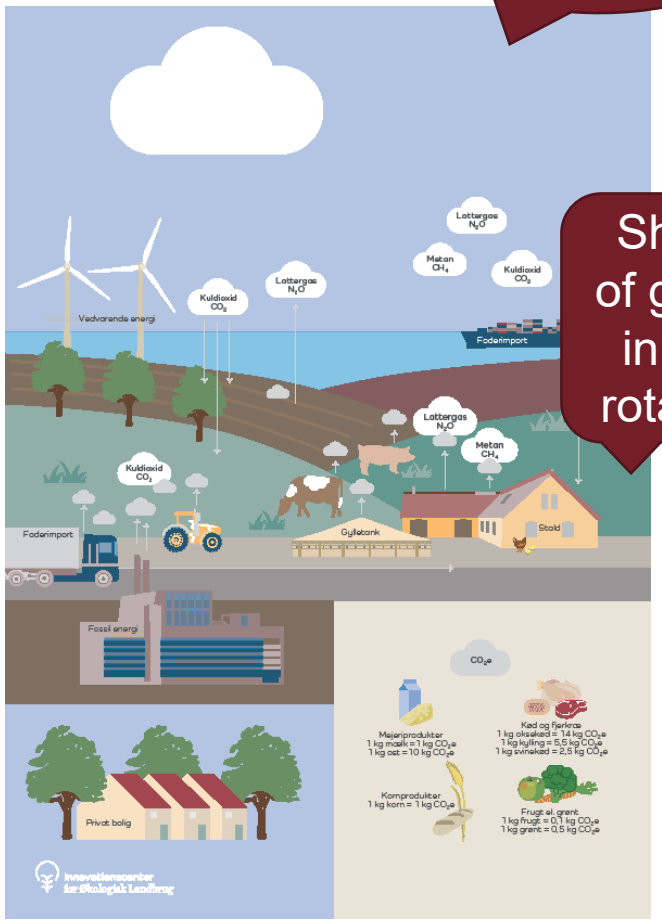
2) Group discussion where you share your list with the group

Which factors have you chosen?

What are the main issues in relation to calculating climate impact?

Do you se some solutions?

Free-ranged animals



Share of grass in the rotation

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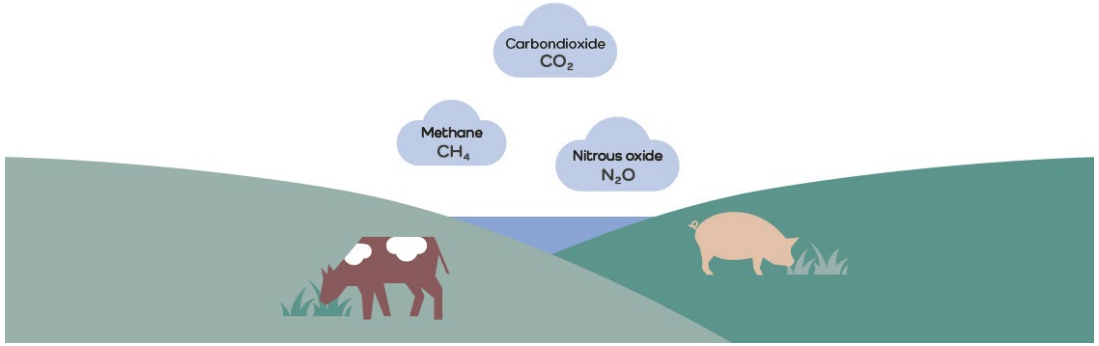
Categories of actions/solutions



1) Research:

- Scientific reviews
- New research projects

2) Development:

- Improved data collection
- Opdating national/international databases
- Opdating calculation models

3) Implementation:

- Network and dialogue with relevant stakeholders
- Political actions
- Cooperation with relevant companies
- Cooperation with international organisations

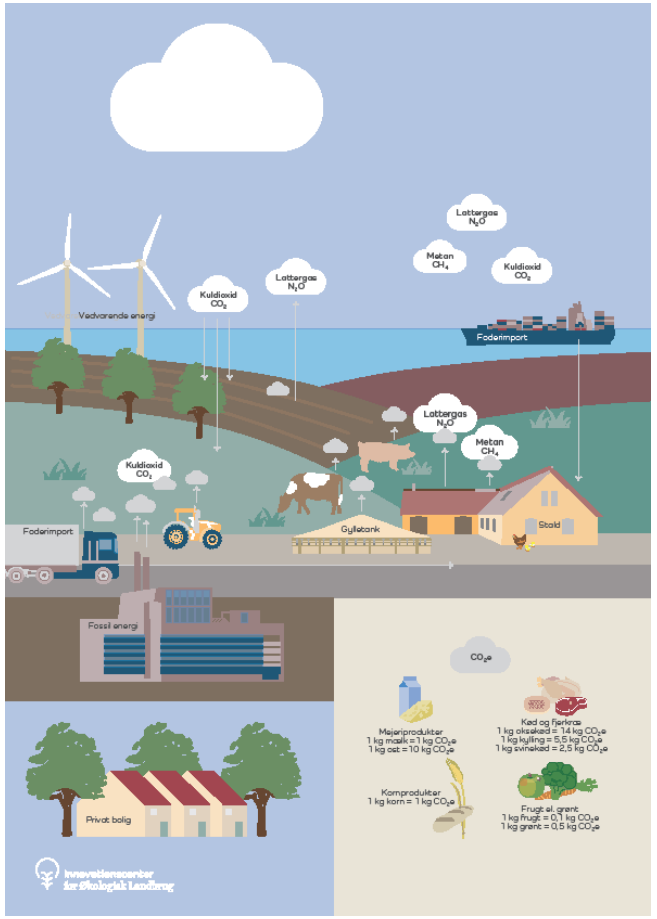
Group discussion

1) *Spend 10 minutes individually to list of the main factors that differs between organic and conventional production*

Where to you in your daily work see the biggest challenges?

Production system (dairy, pig, poultry, crops)

Farm level, product level, national level…



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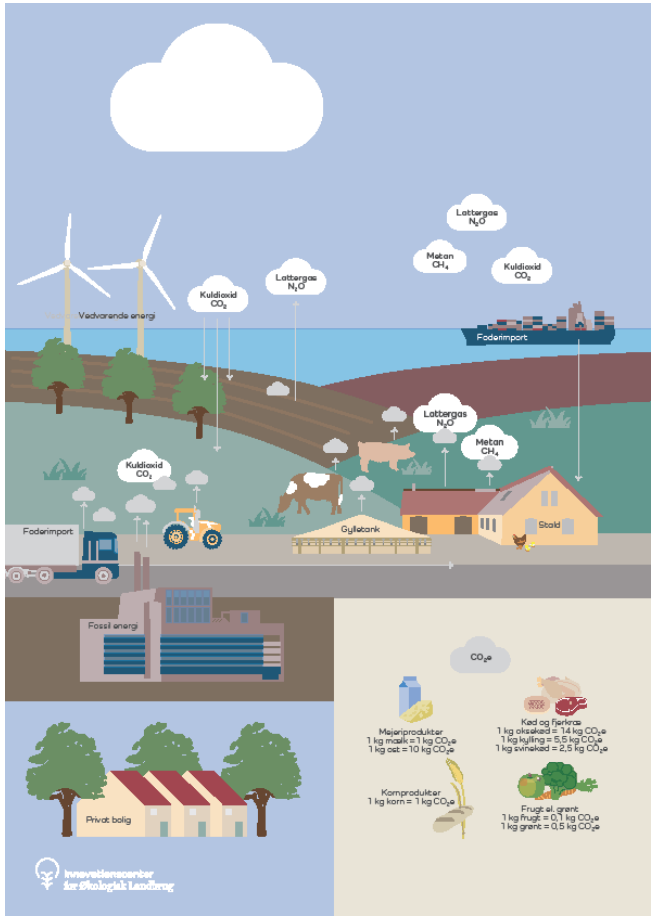
Group discussion

2) Group discussion where you share your list with the group

Which factors have you chosen?

What are the main issues in relation to calculating climate impact?

Do you see any solutions or relevant actions to improve this?



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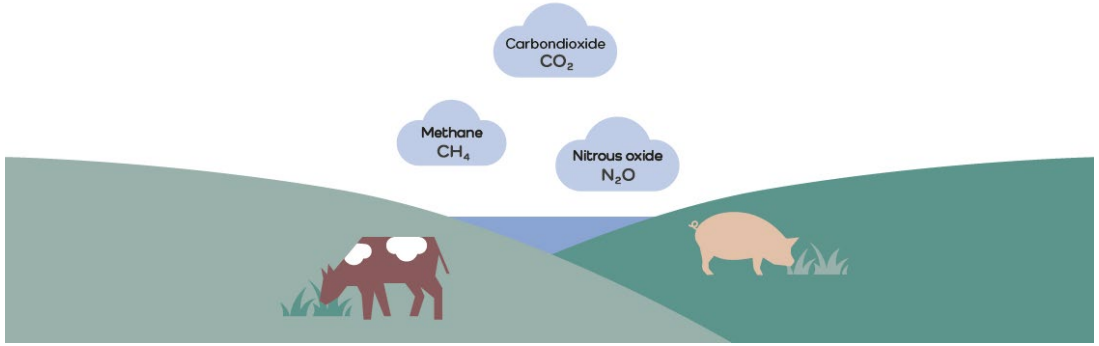

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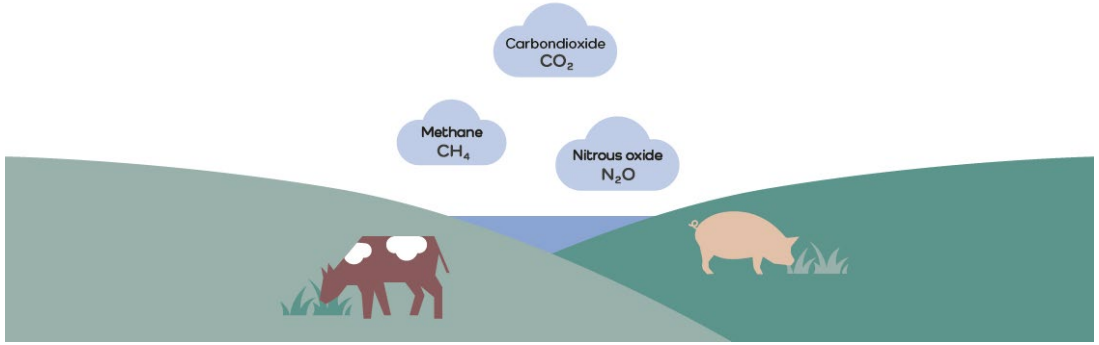

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