

Innovation Centre  
for Organic Farming

# Organic farming as promotor for AD of agricultural residues

Erik Fog, Senior Advisor



**Promilleafgiftsfonden** for landbrug

# Innovation Centre for Organic Farming

A centre for the development of  
organic farming in Denmark.

A more sustainable agriculture in  
accordance with the four organic  
principles.

Promoting research, trials and  
development within organic  
production.



Established in 2021 as an independent non-  
profit company by Organic Denmark and the  
Danish Agriculture & Food Council

# Synergy between biogas and organic farming

Biogas plants

Organic farmers

***Sustainable substrates***  
***Land for digestate***  
***utilization***

***Efficient organic***  
***fertilizer***  
***Recycling of nutrients***

# Increasing organic production in Denmark

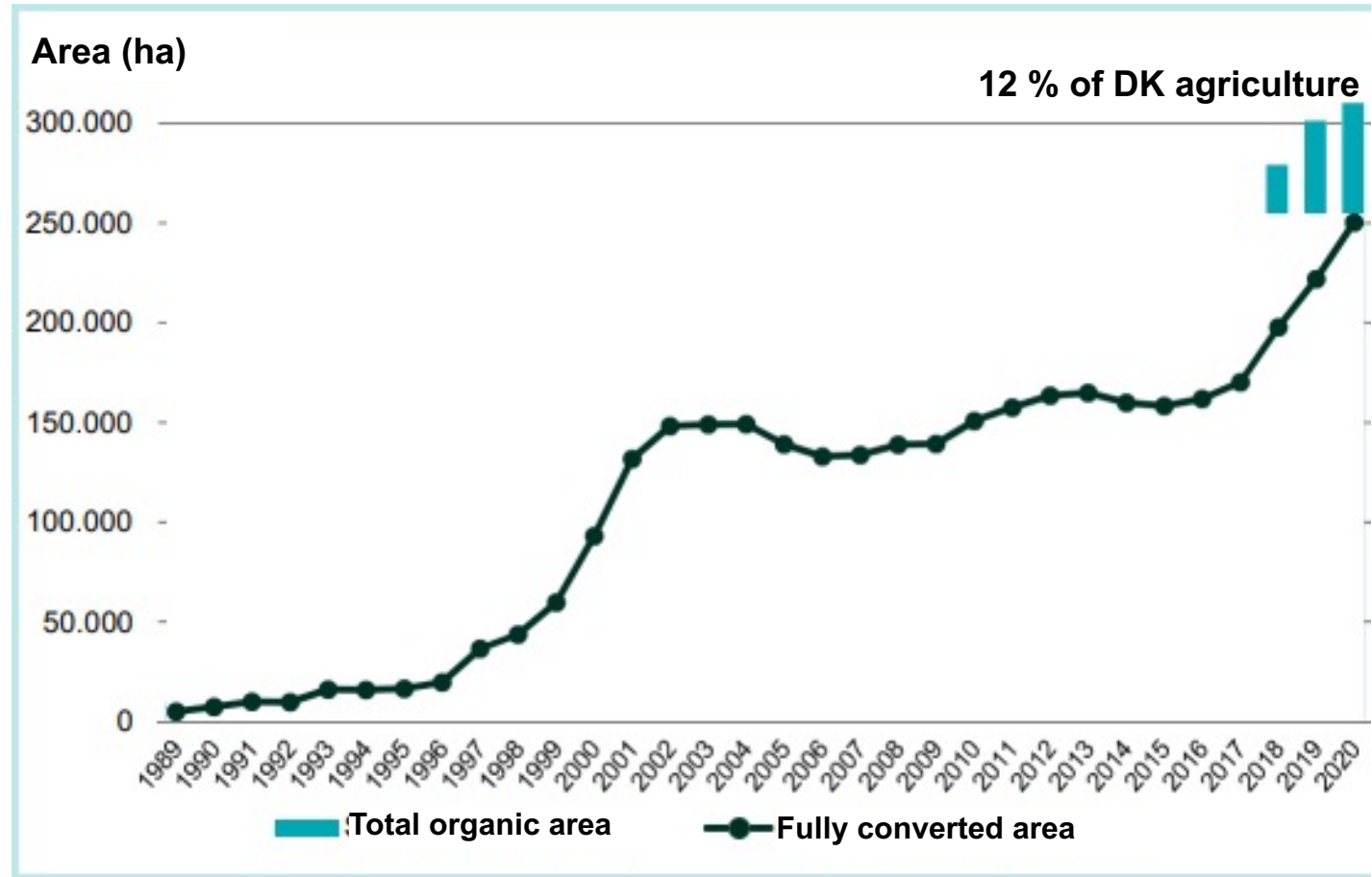
- Continuous growth for 30 years.
- Current fast increase.



EU logo



Danish logo



Source: Danish Agricultural Agency



# An attractive market for organic produce

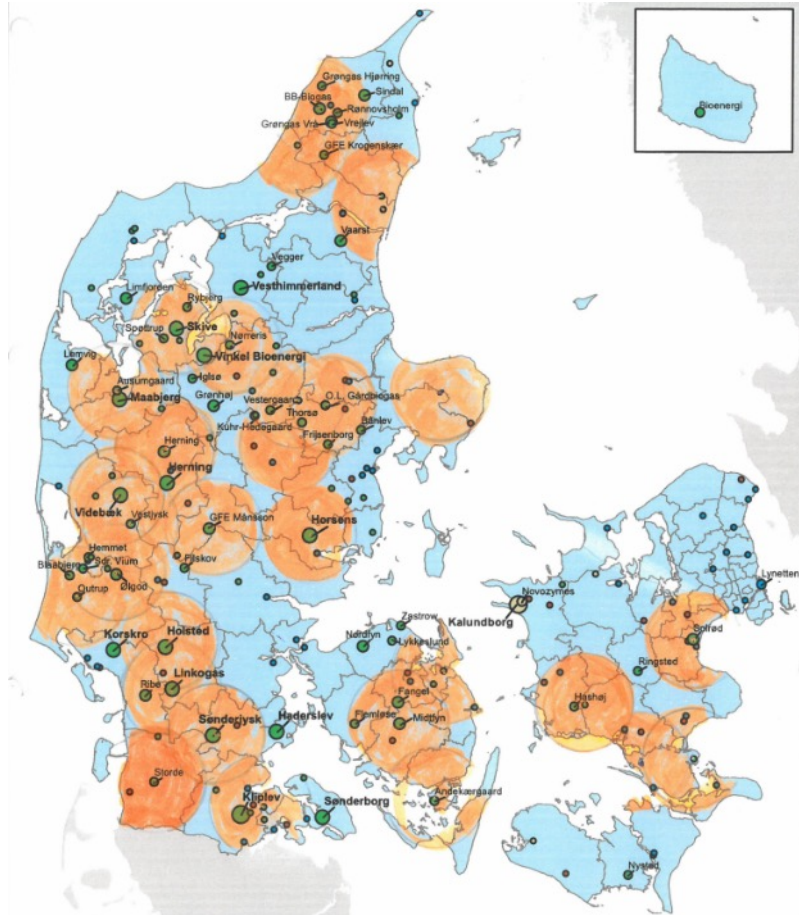
- Denmark world leading in organic consumption  
12,1 % of food retail sales

Source: The World of Organic Agriculture, 2021,  
FiBL / IFOAM Organics International

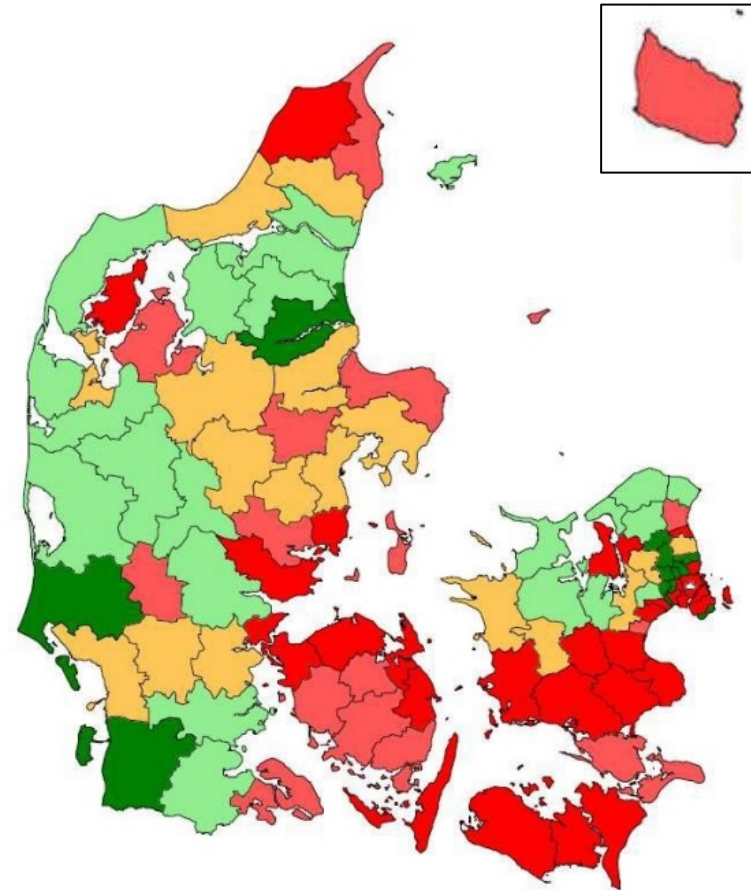


Photo: Jacob Brandt

## Promotion of “organic” biogas production



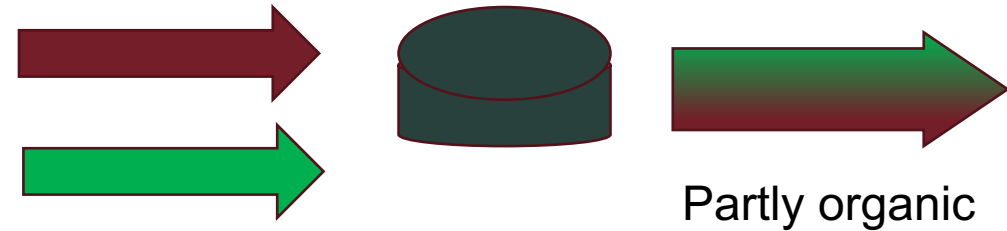
Source: Organic Advice Denmark



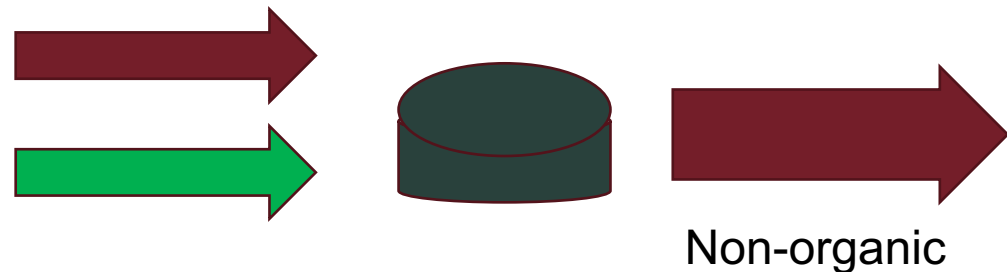
Source: Danish Agricultural Agency

# Two levels of “organic” biogas plants

A. Organic certified by Danish Agricultural Agency



B. Not certified but all biomasses in line with organic guidelines





# Requirements for the biogas plant

- **The digestate must be acceptable to be used on organic land**
- All biomasses used in the biogas plant must be covered by Annex II in the EU regulation on Organic Production.
- Annex II lists the allowed products for supplementary fertilizers in organic farming.
- Keep separation between organic and non-organic production lines.





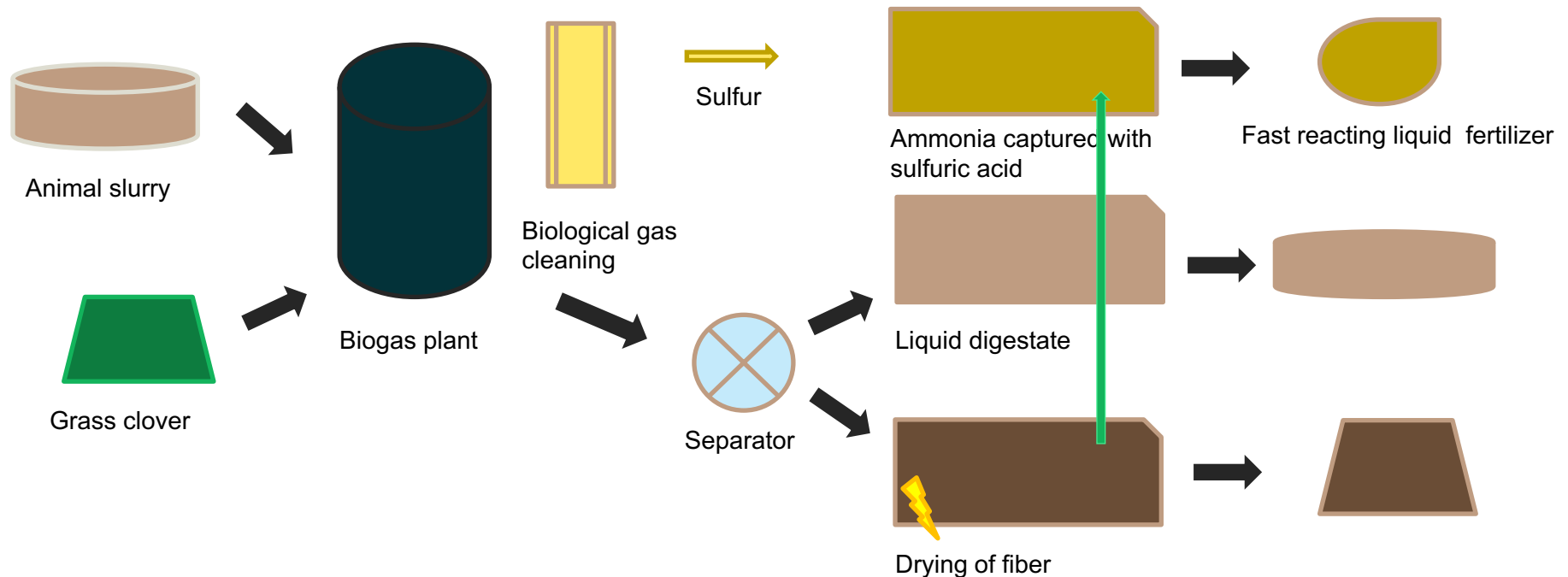
# Advisory service to the biogas plants

- To avoid confusion and economic losses advise is offered from the agricultural advisory service, Biogas Denmark and Danish Agricultural Agency.



# Developing more efficient digestate

- The ClimOpic project develops digestate fertilizers for organic farming.
- Next challenge: Concentrating the liquid fertilizers.



# NEW: Grass protein residues for biogas production

- Protein concentrate from grass clover and alfalfa - an important new and local feed source.
- Produce huge amounts of liquid and fiber suitable for biogas production.
- Organic feed for pigs and poultry is the driving market.



# Innovation Centre for Organic Farming

We are interested in international cooperation in improving the synergy between biogas production and organic farming.

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