

# Agriculture is part of the solution

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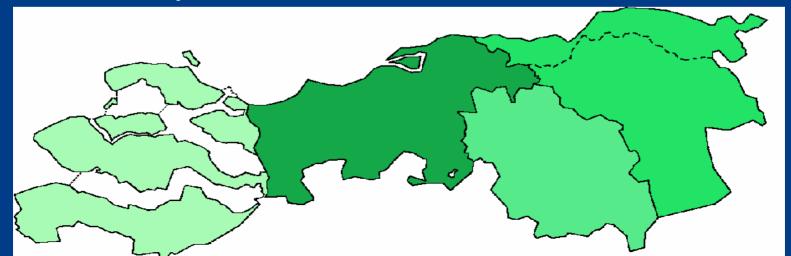
chairman of the ZLTO

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#### **ZLTO founded in 1891**

- 10,000 members from the profession
- provinces Brabant, Zeeland & Zuid Gelderland
- 65 local departments, 700 active board members





#### **ZLTO Mission Statement**

 ZLTO supports its members that operate in the green space in realising a sustainable perspective



## Supporting members ZLTO

- Collective promotion of interests
- Individual member service
- Projects
- Investment and participation



**ZLTO** vision

## Link in the agri food complex

- of interest to the province of Brabant:
  - o 110,000 jobs (70,000 FTEs)
  - o 13,000 businesses in the primary sector
  - o 1,000 business within the agri food complex
  - o 22% of Dutch exports
  - o 75% of the agri food production for export



Working towards

## Sustainability is a process

- Demanding an integrated approach
- Addressing the following aspects of cattle-breeding:
  - o Environment
  - o Health
  - o Animal well-being
  - o Completing cycles
  - o Market and economy



Working towards sustainability in cattle-breeding

#### **Ambitions of the ZLTO**

- Overall sustainability in cattle-breeding with closed cycles at the lowest possible levels of scale
  - Reduction of greenhouse emissions
  - Upgrading the value of manure and minerals
  - Further regionalisation of feed, food, energy



Figures and Facts

## What's the question?

- 175 million kilos of phosphate produced
- 125 million kilos of phosphate can be accommodated (2015)
- 50 million kilos of phosphate in excess
  - o Feed
  - o Export
  - o Processing



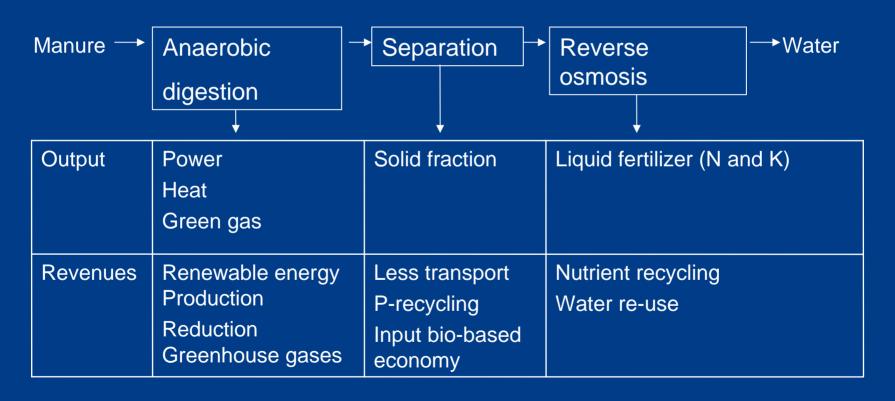
ZLTO opts for upgrading value

## About upgrading value

- Minerals for plant-growing
- Recycling, upgrading residual currents
- Renewable minerals are raw materials
- Regional production of green energy
- Transition towards a bio-based economy
- Utilisating innovation



## the approach of ZLTO





Upgrading manure and minerals

## A step in sustainability

- Linking up agriculture with society
- Decreasing dependence on raw and ancillary materials
- Creating a local regional economy



Upgrading manure and minerals

## What opportunities are implied?

Annual manure production 70 mln. tonnes (slurry)

- 175 mln. kgs phosphate, 500 mln. kgs nitrogen
- 1,750 mln cbm bio gas, equivalent to 1,172 mln cbm natural gas
- 2 megatonnes (mln) less CO<sub>2</sub> emission
- Considerable decrease in fertilizer use



#### What is required for this?

- Robust intervention in chain
- Breakthrough in upgrading
- Financial support
- Policy room in fertiliser legislation: better implementation of the Nitrate Directive
- Access to the energy grid



#### What are the bottlenecks?

- Concretization of the Nitrate Guideline or/and Fertiliser Guideline
- Manure surplus, decrease of fertility of the soil
- Legislation regarding the use of liquid fertilizers made out of manure
- National subsidies (SDE-scheme for the promotion of sustainable energy)
- Processing of thick/solid manure components



#### In summary

- We would like (and would be able) to play an important role creating a sustainable society
- We have the experience and the resources
- Anaerobic digestion is part of the solution towards sustainable agriculture
- Government: you are holding the key
  - o Room in mineral (fertilizer) legislation and financial support



## Thank you