



FrieslandCampina 



# Role of grass land and animal feed in high output dairy farming systems

From a dairy chain perspective



With the story of milk we tell our consumers and stakeholders about the natural aspect of milk

## Story Of Milk

# Our social purpose is aimed at three global challenges

Food and nutrient security for a fast growing world population

Helping small farmers in dairy worldwide (aging farmers is a major issue)

Building more efficient & sustainable food supply chains

# Managing sustainable dairy farming is one of the four pillars of our CSR policy

## Sustainable dairy farming

Energy and climate



Animal health and welfare



Biodiversity



Outdoor grazing



# Grass is valuable for the dairy sector and contributes to:

## Image

Iconic for The Netherlands and the Dutch dairy sector

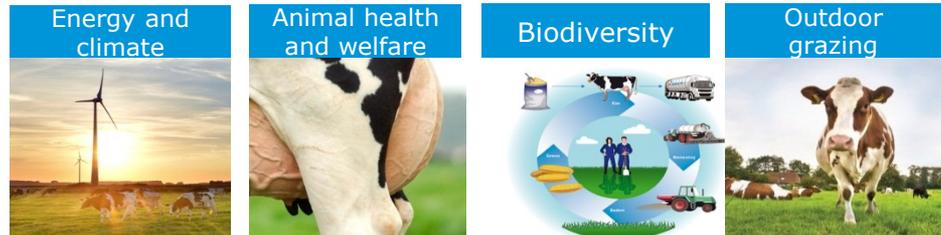


## Efficiency in milk production

Cost price is lowest in countries with grass land as a basis



## Our dairy farming goals on sustainability

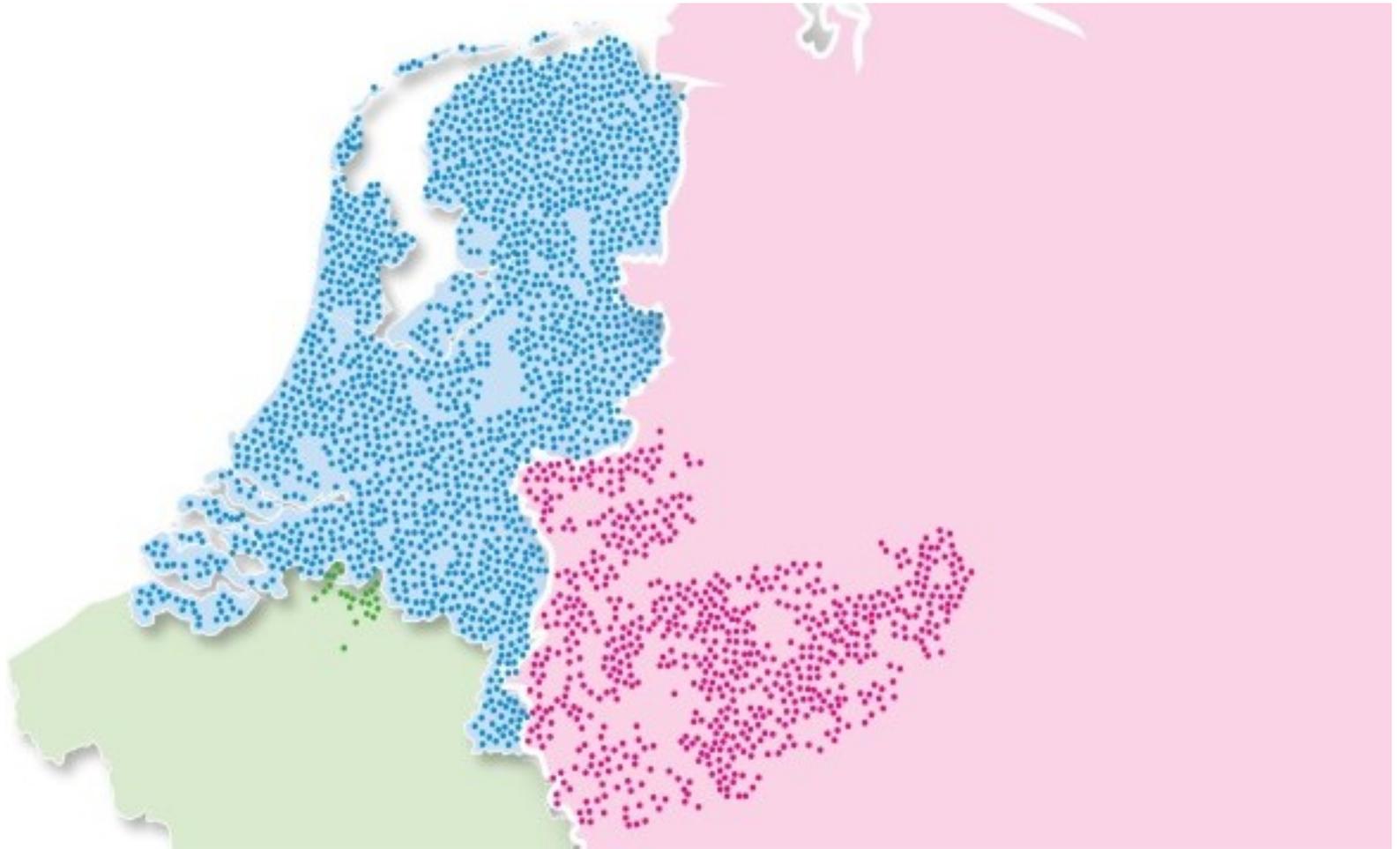


## The ability to grow

Within environmental footprint



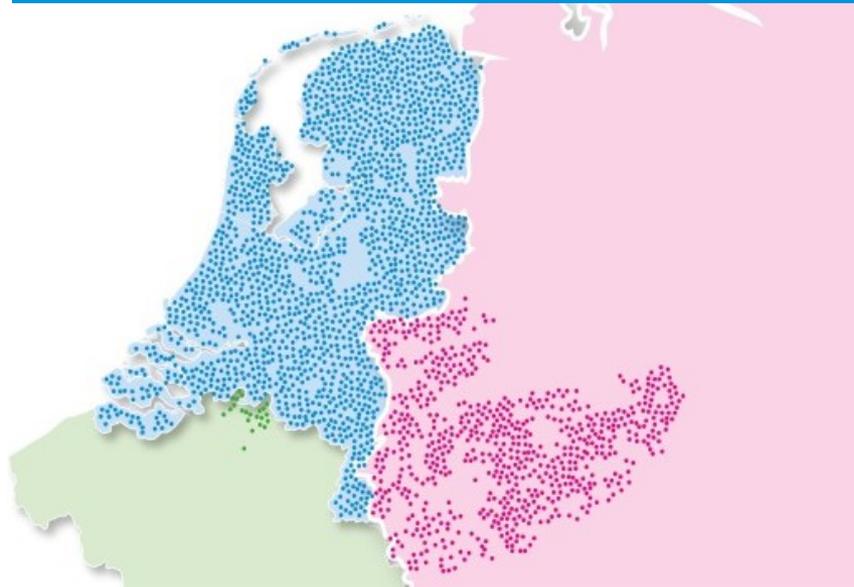
The Dutch dairy sector is based on holding and milking cows and cultivation of grass



# With innovations and craftsmanship of outdoor grazing we can increase grass output

## Current

- ✓ **700.000 hectare grass area**
- ✓ **6 million tons of grass**



## Possible scenario (+55%)

- ✓ **700.000 hectare grass area**
- ☐ **9,3 million tons of grass**



# The challenge is to optimize our usage of grass and use the benefits of outdoor grazing



- ✓ Cows graze their own feed
- ✓ Grazing losses and silage losses can be offset against each other
- ✓ Labor intensiveness with outdoor grazing and indoor feeding is practically the same
- ✓ Grazed grass saves around 50 to 100 euro per ton dry matter compared to grass silage

# Grass is an important factor that can help the dairy sector reduce carbon dioxide

The dairy sector is committed to carbon neutral growth



## Greenhouse gas emissions



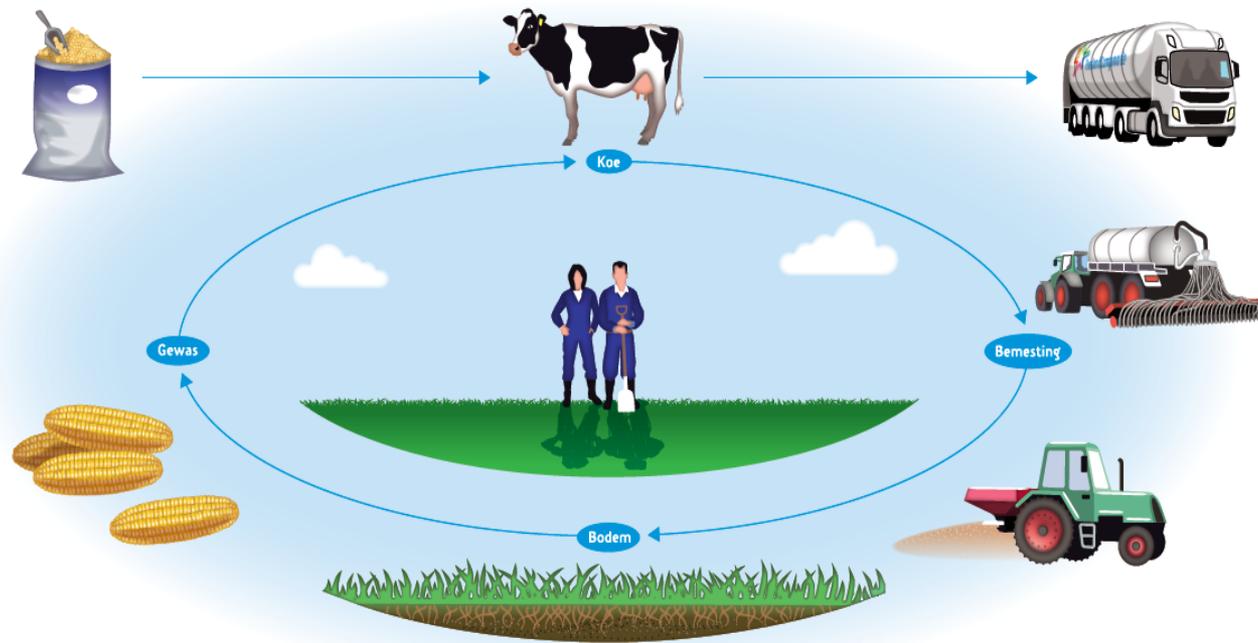
- Fossil fuel  
1x CO<sub>2</sub>
- Methane  
28 x CO<sub>2</sub>
- Nitrous oxide  
265 x CO<sub>2</sub>

# Grass can contribute to animal health and welfare



- ✓ A cow can exhibit her natural behaviour
- ✓ Space for movement
- ✓ Exposure to light

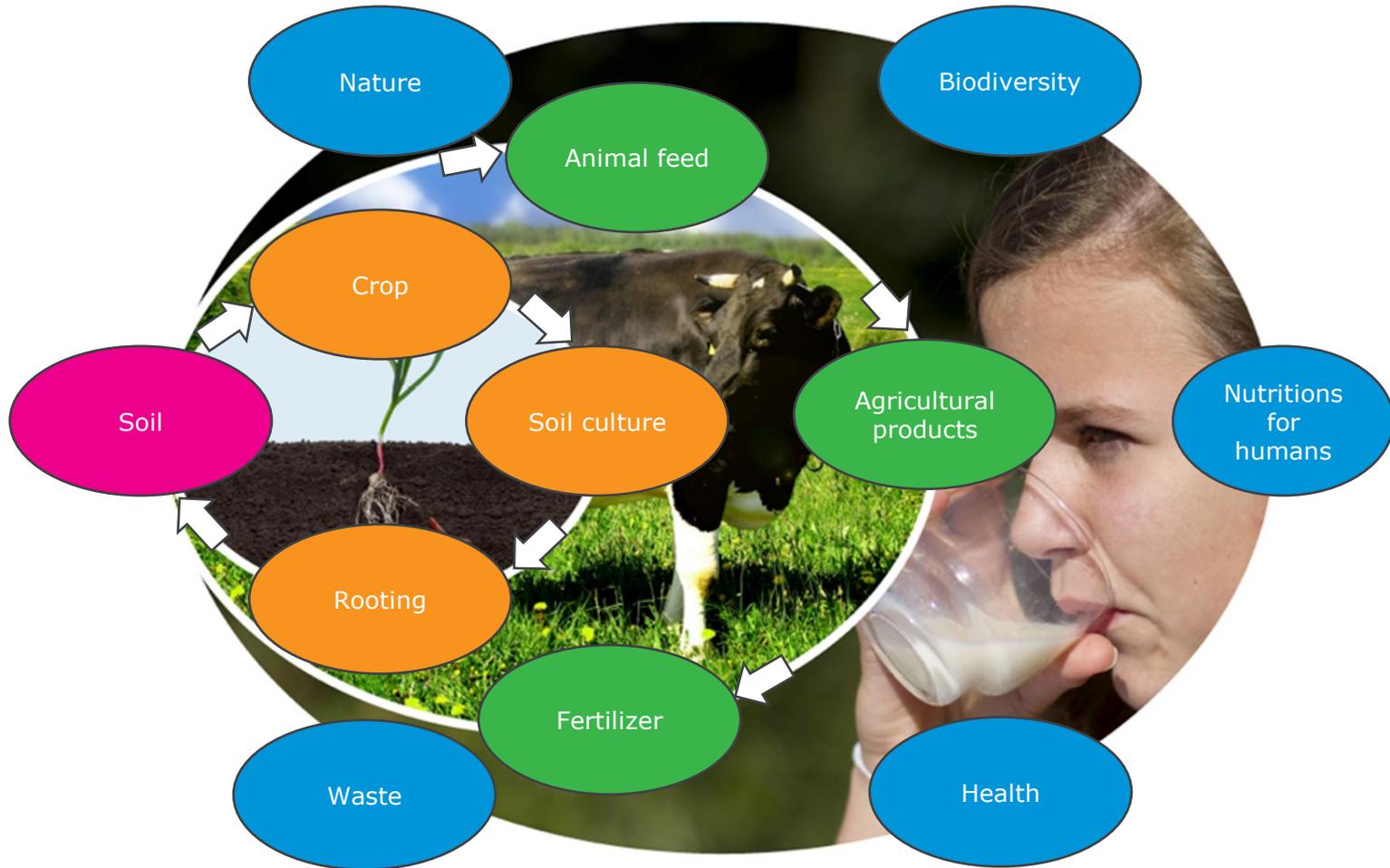
# With grass as animal feed we are able to decrease the environmental footprint



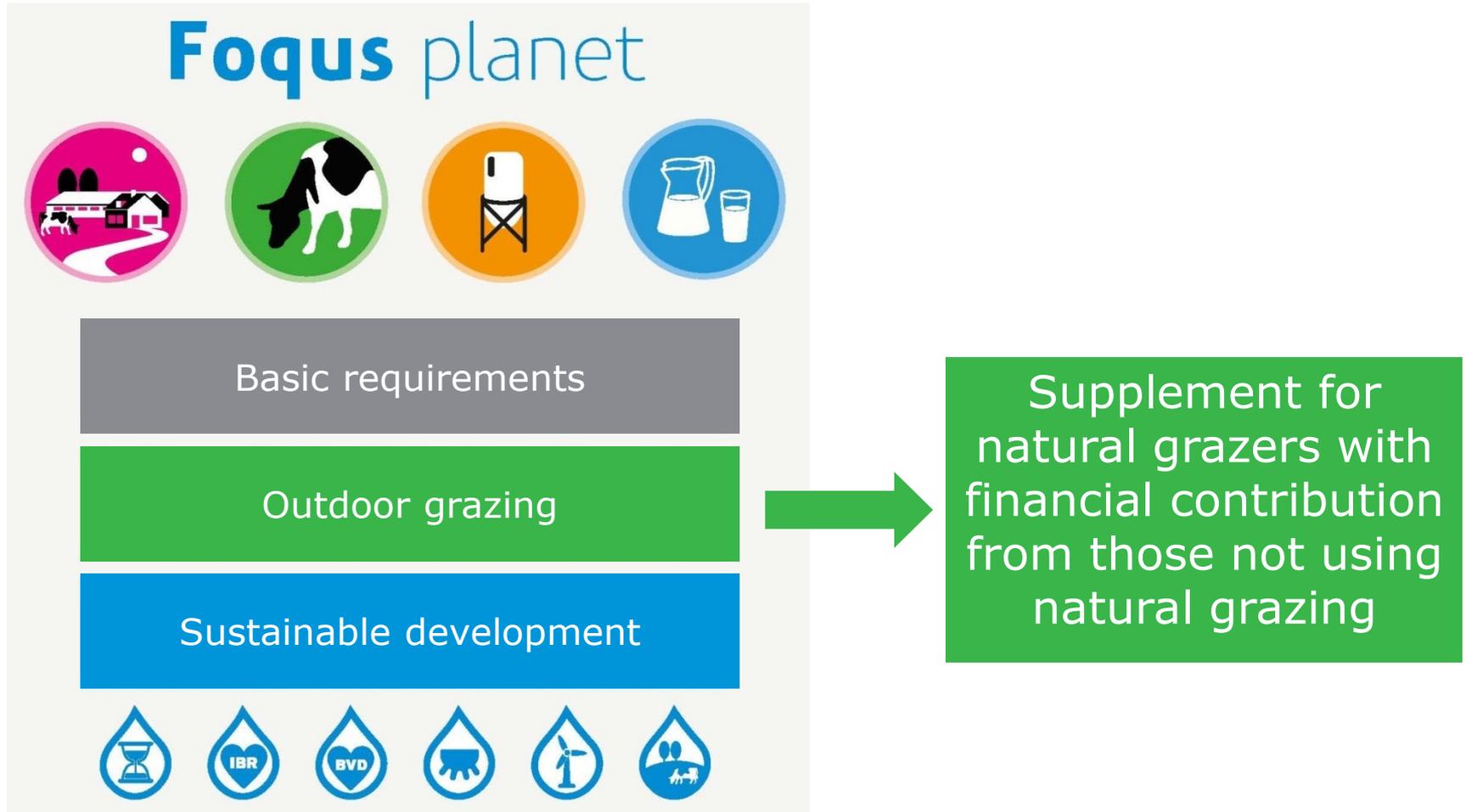
## More efficiency is needed:

Increase of production of grass and milk with equal usage of nitrogen and phosphate from animal feed and fertilizer

# Soil quality increases with long term grass cultivation, and grass output increases with healthy soil



# At FrieslandCampina we stimulate outdoor grazing within our sustainability programm



# Our dairy farmers work with six KPI's for sustainable development

## Life span



healthy cows  
live longer

## IBR



working towards a  
IBR-free status

## BVD



working towards a  
BVD-free status

## Cell count



low cell count equals  
good udder health

## Energy



reduce use of energy

## Nature & Landscape



conservation of  
biodiversity

# In the dairy sector more than fifty food chain players join forces to stimulate outdoor grazing

The dairy sector in The Netherlands strives to 81% farms that practise outdoor grazing



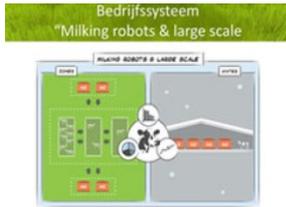
- Farmer Organizations
- Dairy companies
- Suppliers animal feeds
- Advisors of farmers
- Retail (supermarkets)
- Cheese producers
- CSR
- Environmental organizations
- Government
- Education and science



Government of the Netherlands



# With projects and sharing knowledge and experience we stimulate outdoor grazing with dairy sector wide approach



## Projects:

- combination of outdoor grazing and automatic milk system
- 'transfer to outdoor grazing'



Sharing knowledge by experts: farm walks



Innovation



## Science and education:

- Professor outdoor grazing since January 1st 2015
- Research to grass and outdoor grazing

# The Dutch dairy sector needs more knowledge about optimizing grass production and productivity with maintaining biodiversity

## Spearheads for grass cultivation and outdoor grazing

- Increase craftsmanship for grass cultivation and outdoor grazing
- Develop management information and tools
- Innovation in soil fertility and grass production
- Increase grass utilization with outdoor grazing with modern systems (AMS) and large heard of cows





FrieslandCampina [frieslandcampina.com](https://www.frieslandcampina.com)



Thank you