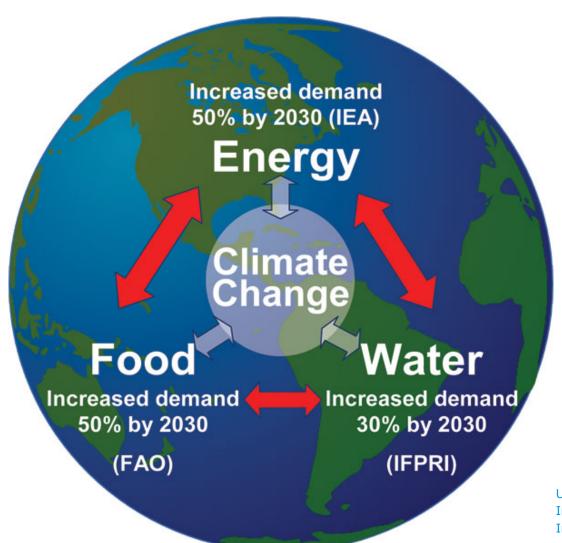




# Getting caught in the triangle of global constraints

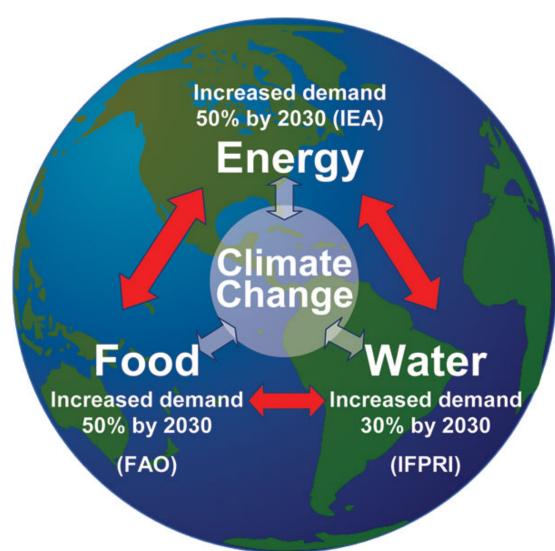




UN Food & Agriculture Organisation (FAO) Int Energy Agency (IEA) Int Food Policy Research Institute (IFPRI)



# Getting caught in the triangle of global constraints





Worldwide, 750-900 million people are dependent on dairy farming (FAO)

UN Food & Agriculture Organisation (FAO) Int Energy Agency (IEA) Int Food Policy Research Institute (IFPRI)



## Circle Economy and the change in the dairy supply chain



SUBMIT PROOF POINTS

- Land use for dairy & water availability in Netherlands
- Animal feed sources & feed conversion
- Re-use of minerals (phosphates)
- Manure processing to produce renewable energy & fuel



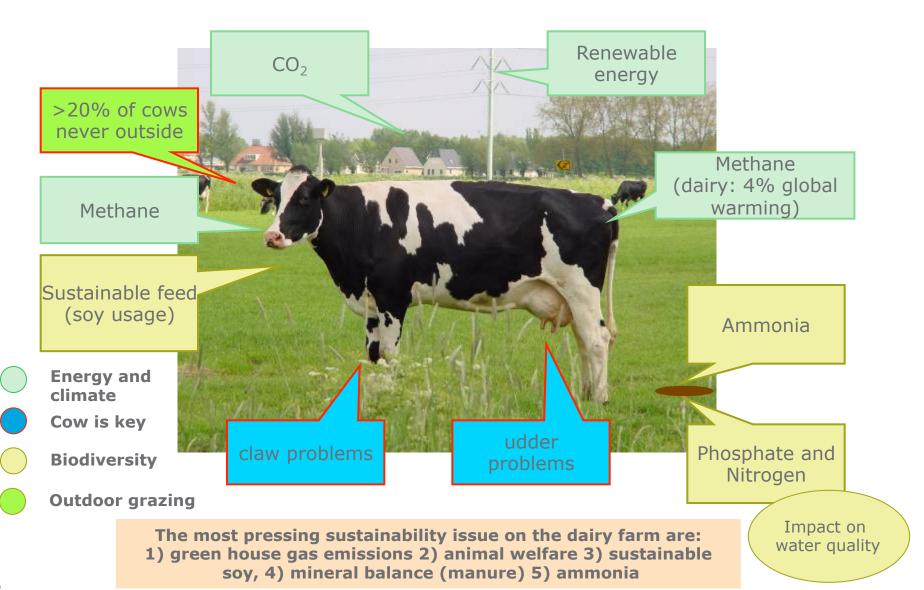
# Our member farmers from the cooperative



- The company is owned by Zuivelcoöperatie FrieslandCampina, which has 14,400 member dairy farms in the Netherlands, Germany and Belgium.
- Member farmers are the owners of the company AND suppliers of milk. For more than 140 years now. From one generation to the other.
- FrieslandCampina serves approx. 1 bn consumers daily in 100 countries around the world. Annual sales >EUR 10 bn



#### Key sustainability issues at the farm





#### Sustainability

- Fundamental global need for healthy foods
- Milk is one of the most nutrient-rich foods
- As one of the leading multinational dairy businesses, we aim to contribute to sustainable farming and processing
- We want to show leadership in the field of Corporate Social Responsibility:

Health & nutrition
Tackling nutrient
deficiency
& obesity



Chain

More efficient use of natural resources



**Dairy development** Asia, Africa



Responsible dairy farming

Sets the standard





### Key functions of micronutrients in milk

**Hair** Vit B2, A

**Blood clotting** 

Vit K

**Skin** Vit B2, B8

**Reproduction** Vit A, B1, Se

**Bones** Vit D, B12, B8 Ca, Mg, Zn, K

**Resilience, immunity** Vit A, B6, Zn, Se

Eye sight Vit A

**Teeth** Vit A, D

**Thyroid** I2 , Se

**Blood formation** Vit B12, B6, B11

**Hormone formation** Vit A,B6

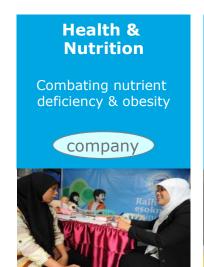
**Neuromuscular function** Vit A, B6, B12, B8, Ca, Mg

**Energy release** Vit B1,B2,B8, Mg



# Key elements of the sustainability policy of FrieslandCampina, theme responsible dairy farming

There is a fundamental need in the world for <u>nutritious foods</u>. Dairy is one of the most nutrient-dense foods. As an international dairy leader we aspire to demonstrate our commitment to responsible production and leadership in the CSR domain by providing:









# 4 pillars of the sustainable dairy farming approach

1. Energy and climate

Excluding offset

climate

Reduction of GHG with 30% between 1990 and 2020

2% energy reduction per year

2. Animal health and - wellness

Reduction antibiotics

Mastitis/claw problems: back to naturally occurring levels

Visible care for nature

3. Biodiversity

Responsible soy from 2015

Improved mineral balance





#### A remarkable transition...



Cows produce - very efficiently - <u>highly nutritious</u> foods from plant material that is **not digestable** by humans



#### A remarkable transition...

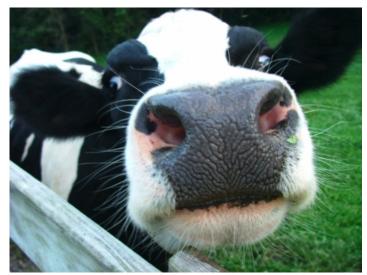


**Feed stock**: approx. 40% grass; 30% maize; 30% concentrates ("krachtvoer") from recycled <u>residue</u> from food industry (soy crushing; breweries, potato industry, sugar beet leaf, citrus juice producers, etc.)



# Are we moving into the next phase of added value creation by dairy cows?

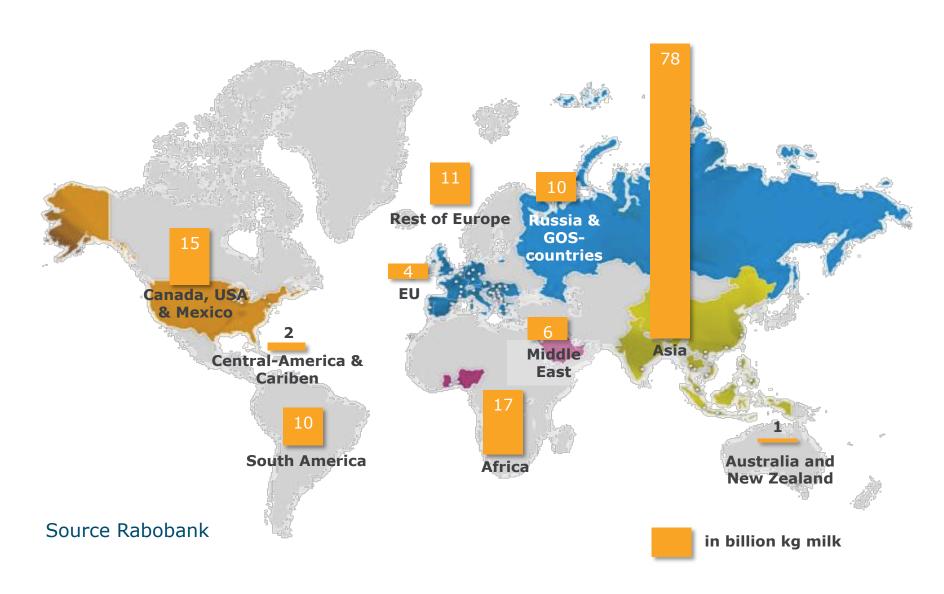








## Growth dairy demand 2010–2020 and the Royal FrieslandCampina countries







#### Our combined CSR promises:

Greening Our Farming



Cleaning Our Processing



"Bringing Essential Nutrients from Natural Dairy to People Everywhere"



Supporting 40,000 Small Dairy Farmers
Asia & Africa





#### The FrieslandCampina CSR policy

#### **CSR Mission and Vision**

FrieslandCampina CSR Business Case CSR Strategy, 4 priorities, KPIs

#### Health & Nutrition

Combating obesity & nutrient deficiency



#### Sustainable Value Chains

Improving resource utilisation



#### Dairy Development

Helping 40,000 small farmers Africa, Asia



#### Responsible Dairy Farming

Setting the standard



CSR Governance Board - 4 implementation teams

CSR Performance Measurement - Annual Reporting - Stakeholder dialogue - Partnerships

Employee & Dairy Farmer Engagement - CSR Training programs - Annual CSR Team Award

Business Practices for Suppliers - Code of Conduct - Fogus - Policies & Position Papers



**Our CSR Mission**: There is a fundamental need in the world for <u>nutritious</u> <u>foods</u>. Dairy is one of the most nutrient-dense food stuffs. As an international dairy leader we aspire to demonstrate our commitment to responsible production and leadership in the CSR domain by providing:

#### **Health & Nutrition**

Combating nutrient deficiency & obesity



#### Sustainable Value Chains

Improving resource utilisation



Energy, water,

waste in our supply

chain reduced by

#### **Dairy Development**

Helping 40,000 small farmers Asia, W-Africa



#### Responsible Dairy Farming

Setting the standard





and fats in our products. Set company standard on labelling

Reduce sugar, salt

Climate neutral
growth and 100%
use of renewable
energy in our supply
chain

20%

Soy, palm, cocoa, other agricultural commodities sustainably sourced Productivity per cow in SE Asia, Nigeria raised by 50% (compared with 2011) 30% reduction in greenhouse gas (1990 comparison)

Combat undernutrition in strategic partnership with Red Cross (relief aid)

1 mln children p.a. reached effectively with healthy eating/living education

To align small farmers with our company's global quality standard Fogus

To raise annual farmer income well above UN defined poverty line

Outdoor grazing maintained at 75-80% participation of our dairy farms

Improve overall performance in animal health & welfare on farms





#### The ultimate goal...

- Green energy from the farm
- Manure as source of energy
- To power processing plants
- And provide green gas as fuel
- Zero water dairy factories (re-use water from milk)
- Contributing to global food (nutrient) security











