From the global market to decisions on my dairy farm



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Dairy in The Netherlands 2013

	The Netherlands
Milk collection (mill. tons ECM)	11,8
Self-sufficiency %	168%
Number of farms	19.000
Average dairy cows per farm	79
Average milk production per farm	636.000
Average ha per farm	50
Milk per cow	7.800





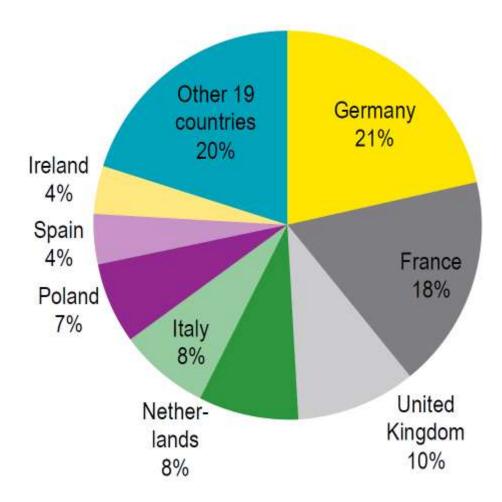






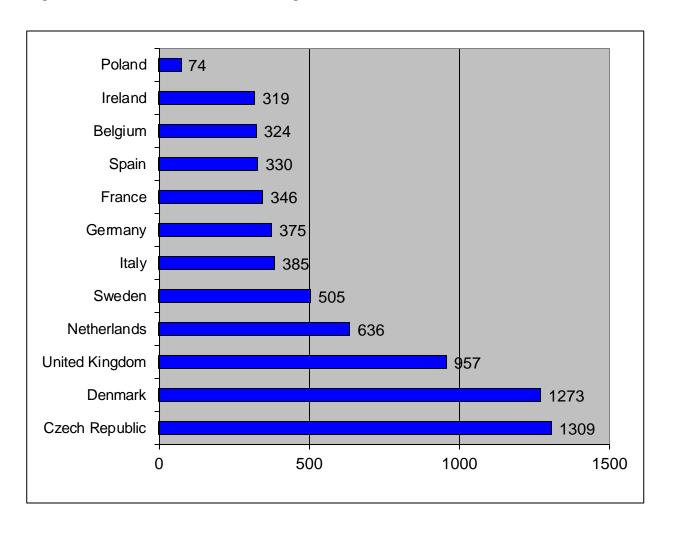


Share of EU Member States in cow milk collection





Milk production per farm 2012 (tons)

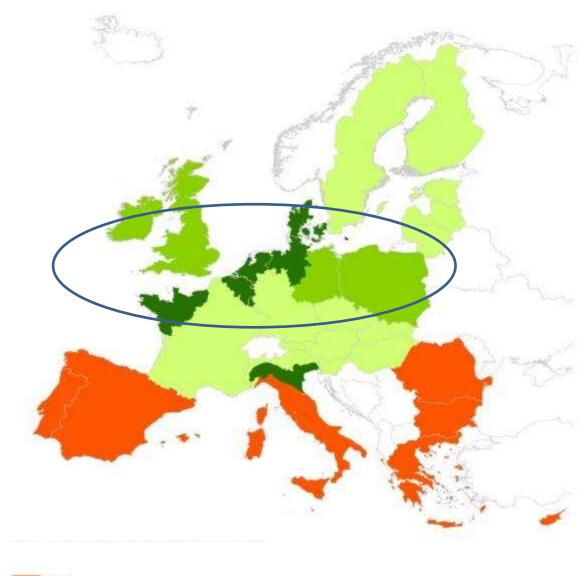




Source: PZ, 2013

Expected change in milk production

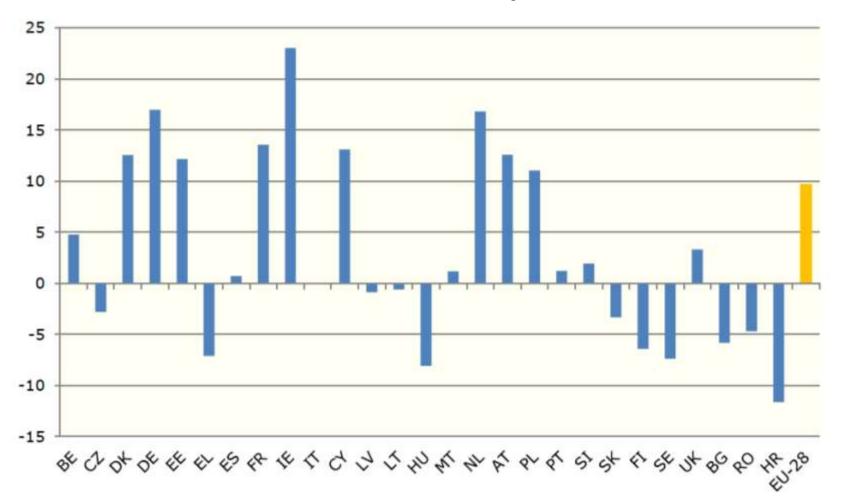
(2006-2020 in %)



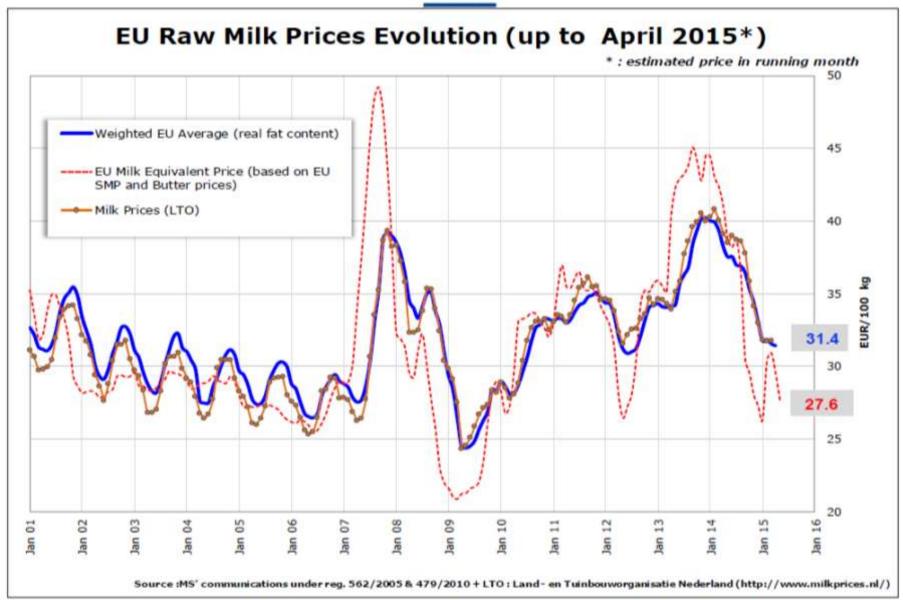




Expected % change in national milk deliveries 2023 compared to 2012



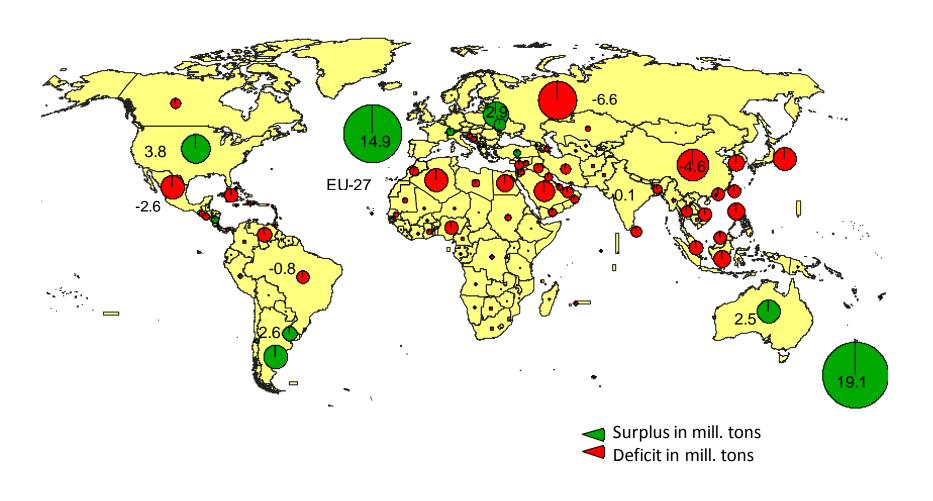






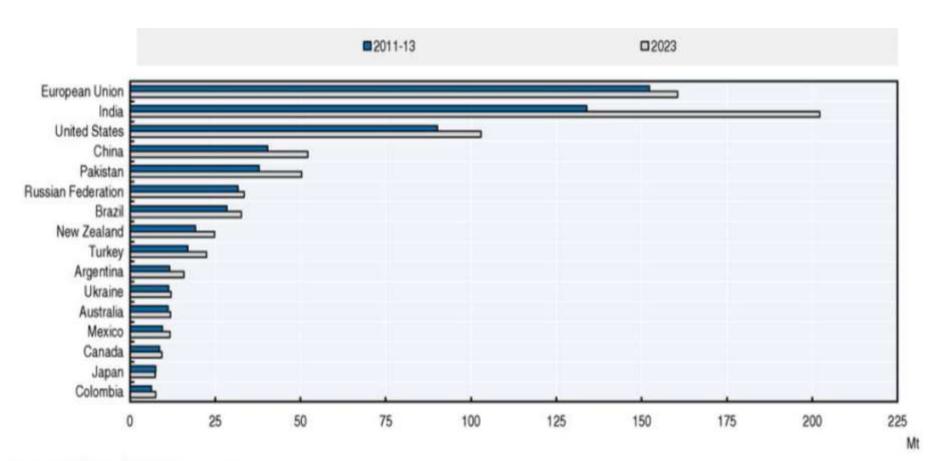
Country milk surplus or deficit in 2011

in mill. tons milk equivalents





Outlook milk production 2013-2023



Source: OECD and FAO Secretariats.



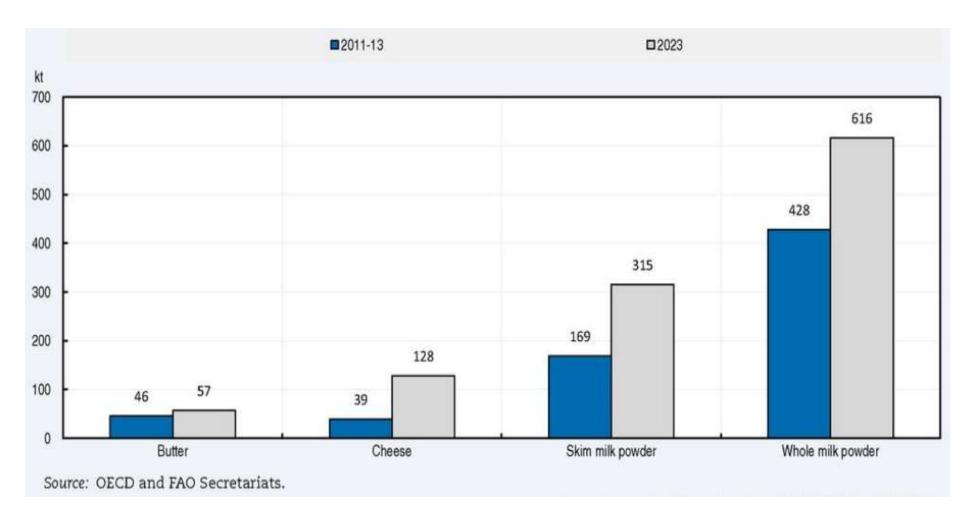
Asian milk in the rise



China's demand for dairy products

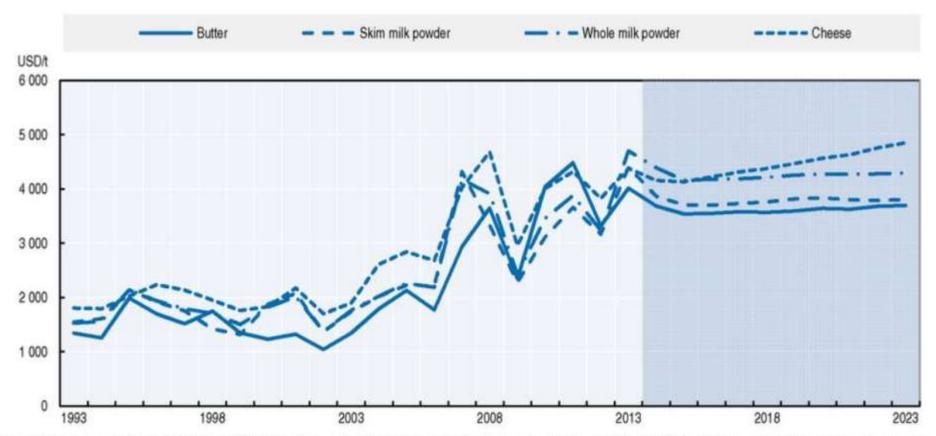


China's imports will increase 2013-2023





Outlook dairy prices 2013-2023

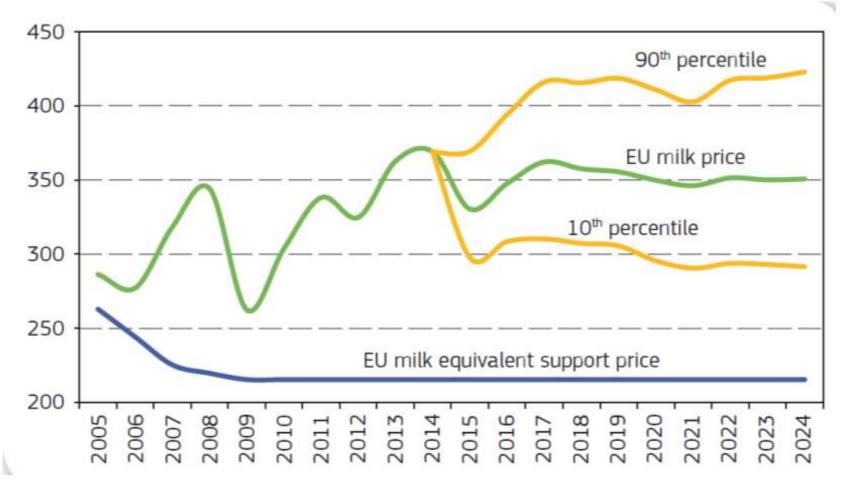


Notes: F.o.b. export price, butter, 82% butterfat, Oceania; F.o.b. export price, non-fat dry milk, 1.25% butterfat, Oceania; F.o.b. export price, WMP 26% butterfat, Oceania; F.o.b. export price, cheddar cheese, 39% moisture, Oceania.

Source: OECD and FAO Secretariats.

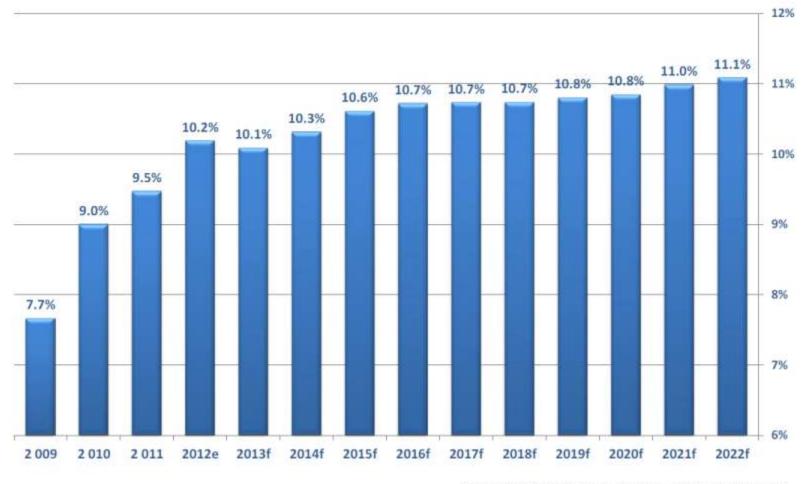


Outlook EU milk price and EU support price (real fat content, €/ton)





EU export in % of total dairy production







Strengths Challenges/Threats

Strategies

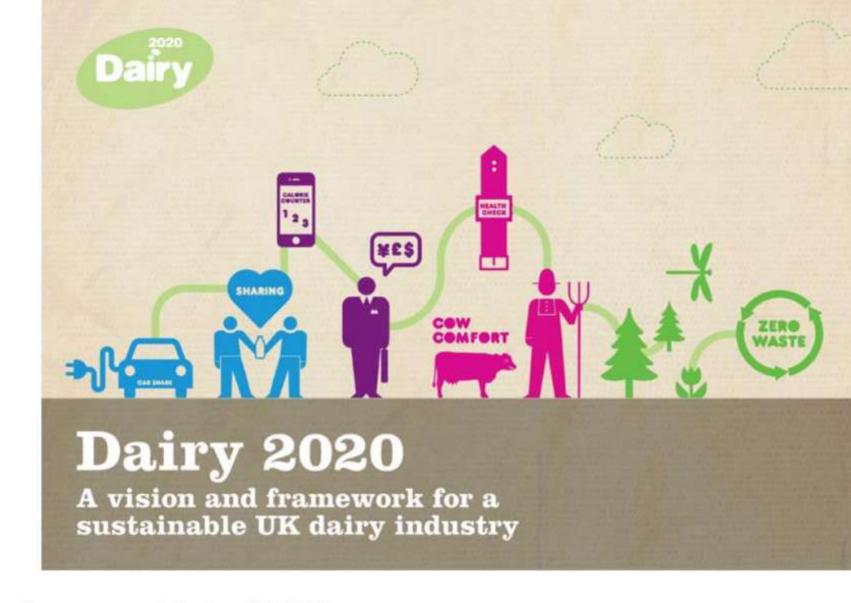
Animal welfare No mega farms 4 Less emissions (CO2, NH3, N, P) Regional products

Mediterenean traditional regional dairy products

PDO-regional-quality cheeses

Main dairy strategies Europe:

- Economies of scale in production, brands and markets
- Sustainable production programmes
- Added value products
- Collaboration with retail
- Exports outside EU
- Efficiency in production and logistics



So, why do we need Dairy 2020?





Care for the environment and animal welfare

From international climate summits to renewable energy and healthy cows. At Arla we address a wide range of environmental and agricultural issues. And our goal is always the same – to work consistently towards reducing our environmental and climate impact, and maintaining high animal welfare standards.





PRODUKTE VERANTWORTUNG KARRIERE INTERNEHMEN INNOVATION PRESSE

Nachhaltigkeit

Deutsch

Strategie

Landwirtschaft

Umwelt

Milch

Team

Gesellschaft

Fortschrittsüberblick

FAQ

Qualität & Sicherheit

Verhaltenskodex



Gesamtübersicht Ziele Landwirtschaft



"Wir verbessern die Lebensbedingungen unserer Kühe und verringern deren Umwelteinflüsse"

Bei DMK sind wir stets darauf bedacht, das Wohlbefinden unserer Kühe zu erhöhen. Gleichzeitig wollen wir deren Umwelteinwirkungen senken. Beides gelingt durch tiergerechte Haltungsbedingungen, konsequentes Gesundheitsmanagement, ressourcenschonenden Futteranbau und bedarfsgerechte Fütterung. Schlussendlich liefern nur gesunde und

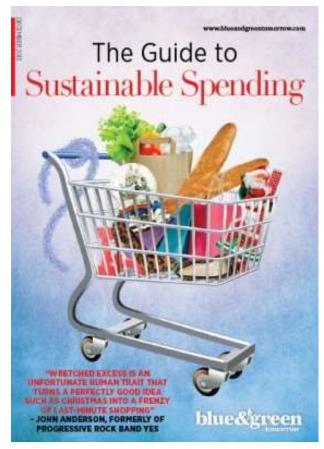
Fortschritt

- » DMK entwickelt Programm für verantwortungsvollere Milcherzeugung
- » Neues Nachhaltigkeitskonzept -DMK befragt seine Milcherzeuger nach dem Stand der Produktionsstandards

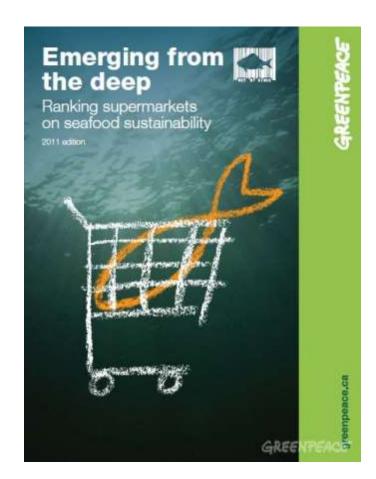


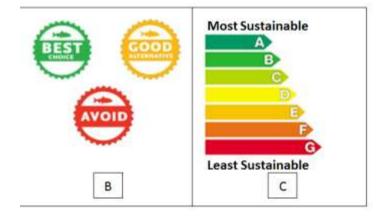












Growth in sustainable food consumption?

- Netherlands: increase of 10% per year
- UK: Increase fair trade sales in 10 years:

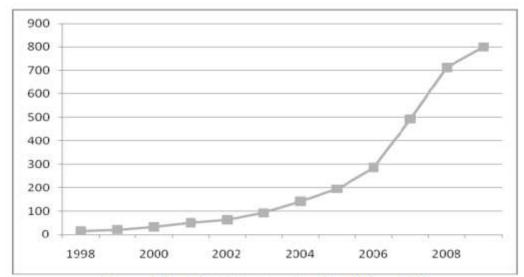


Figure 6.1. UK Fairtrade sales in million GBP

(http://www.fairtrade.org.uk/what_is_fairtrade/facts_and_figures.aspx)



SAI Platform Members

Active Members

Sustainable Agricultural Initiative Platform



60 food industry partners aiming at development of sustainable agriculture worldwide



Sustainability Criteria and Strategic Intents

The DSF is focused on eleven key, globallyapplicable sustainability Criteria and outlines the high level objective (Strategic Intents)



· Soil

Soil quality and retention is read enhanced to ensure

100

After the projects most un achieve prioritize

that the

The way milk is produced on the farm more and more becomes a unique selling point for dairy farmers



 Greent GHG em quantified viable me



· Soil No Nutrient



processor and retail are able to

market and communicate it



10

E

The main challenge





How to combine the needs of society with dairy craftmanship and entrepreneurship into a succesfull dairy farm?





Sustainable Dutch Dairy Chain is a joint initiative of Dutch dairy processors and farmers union

Development towards climate neutrality



Continuous improvements in livestock health and welfare



Preservation of grazing



Protecting biodiversity and the environment



Objectives of Sustainable Dutch Dairy Chain 2020

- 1. Energy reduction and production: e.g.
 - □ 30% CO2 compared to 1990
 - Climate neutral growth of dairy sector
- 2. Animal health and welfare: longevity + and antibiotics –
- 3. Maintain 75% of farms grazing
- 4. Biodiversity and environment
 - 100% sustainable soya and palm pit kernels in dairy cow rations
 - ☐ Decrease N- and P-leakage and NH4-emission
 - More biodiversity



Replace asbestos roof by solar energy roof

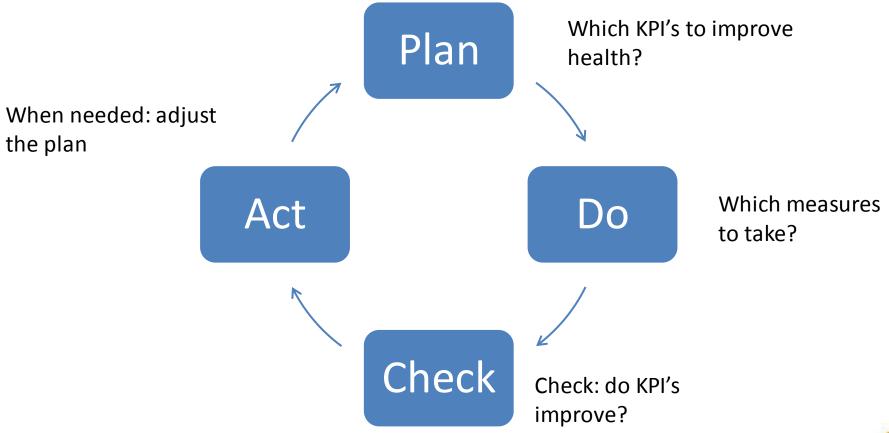








Improve health by more focused management













NL: Sustainability: society loves grazing



How to combine robotic milking and grazing?





NL: low emissions and high efficiency



Low NH3-emission technology:

- Modified slatted floors
- Storage of manure
- Application of manure

High efficiency of N and P fertilization:

- Restrictions for N and P per ha
- Disposal of excess manure



Since January 2015 the Dutch dairy sector buys only soy with the RTRS-certificate (300,000 tons annually)





Improve biodiversity: approach under construction



Opportunities for Dutch dairy

Dairy chain level:

- Faster reaction to market opportunities
- Sustainability as unique selling point
- Export of added value dairy products

Farm level:

- Improving technical, labour and economic efficiency
- Optimize: automation, hired labor and contract work
- Expansion of farms



Automation









Innovation in dairy products



Food services for catering Europe



Infant feeding Asia & Africa



Dairy beverages



Branded cheeses



Decisions on your farm about sustainability

- Do you consider sustainability as opportunity?
- Do you collaborate with processor and retailer who will and can market sustanability?
- 3. What do your consumers/processor consider as sustainablity?

4.	What is your sustainability plan for your fa	rm?
	☐ Animal welfare	

- □ Reducing emissions: CO2, CH4, NH3, N, P□ Reducing antibiotics
- Switch to organic production
- ☐ Biodiversity / nature consevation
- 5. What will be the economic impact of these decisions?



we can we've done it for 20 years already Faith of dairy farmers in NL future **FOR SALE** WAGENINGEN UR

How to create higher margins on the farm and excellent customer satisfaction in the store?





Future European dairy

- 1. The future is about adapting to markets. What is the market you focus on?
- 2. Sustainability is the key to improve the added value of dairy products in Western Europe





Working on both for a high and stable milk price

