Reflexive monitoring in action for a sustainable dairy chain

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Presentation - Sustainable Dairy Chain

Content presentation

- Dutch dairy sector
- Recent development dairy sector
- Sustainable Dairy Chain initiative
- Timeline Sustainable Dairy Chain
- My role Sustainable Dairy Chain
- Lessons learned



Dutch dairy sector

- Roughly 17.000 dairy farmers and 1.400.000 cows
- Dutch grasslands 50% of cultivated land
- Dairy cooperation's dairy famers own milk factories
- Friesland Campina processes 80% of milk. More then dozen small size corporation's
- Public appreciation of Dutch dairy sector





Developments Dutch dairy sector

- Decline of Dutch dairy farms that apply grazing
 - 90% of Dutch cows graze in 2001 70% of Dutch cows graze in 2012 (CBS, 2012)
- Dismantlement of EU milk quota by 2015
 - Expected growth more cows per farm
 - Increase of polluting emissions (e.g. manure)
 - Expected increase of closed farming systems
- Pressure groups and government voice concerns



Future of Dutch dairy sector

Meatrix II - (0.52 - 2.10)

Http://www.youtube.com/watch?v=VAN6G8sBNIE

Wednesday 20th November 2013, EenVandaag, Ned 1 "Dutch dairy sector will explosively grow"

The Dutch dairy sector responses by stimulating the sustainable development of the Dutch dairy sector



Sustainable Dairy Chain (2008-onward)

Initiated by private partners





Sustainable Dairy Chain (2008-onward)

Members of Sustainable Dairy Chain





Sustainable Dairy Chain (2008-onward)

Start-up:

- < 2008 dairy sector is confronted with unsustainability</p>
- SDC to collectively address and tackle unsustainability
 - Cooperation tradition
- Dairy factories take the lead
 - In addition to the threat there is an incentive
 - Dutch milk top quality milk -> USP
 - Experience with organising quality control



Organisation Sustainable Dairy Chain

- Steering committee
 - 9 members NZO, LTO, Friesland Campina, 2 small size cooperation's
- Contact group
 - 13 members including the sustainability managers of the 9 cooperation's
- Advice groups
 - 9 members government, NGOs, chain partners



Goals of Sustainable Dairy Chain

- Climate and Energy
- Animal welfare
- Grazing
- Biodiversity and environment





Theme	Issue	Formulated objective
Climate & Energy	Reduce GHG emissions	30% reduction of greenhouse gases in 2020 as compared to 1990, including climate-neutral growth
	Improve energy- efficiency	2% energy efficiency per year (1.5% factories and 0.5% chain), and a total of 30% energy efficiency in the 2005-2020 period, 2% energy conservation for cattle farmers each year
	Sustainable Energy	20% sustainable energy in 2020 and an energy- neutral dairy chain
Animal health & welfare	Reduce antibiotic resistance	Reduction of antibiotic resistance. By 2013, antibiotic use should be back to 1999 level.
	Improve cow longevity	Increasing average life expectancy of cows, particularly by the strong reduction of mastitis and lameness
	Sustainable cow housing	5% sustainable housing in 2011. By 2015, all new cowsheds will be fully sustainable.
Grazing	Maintain grazing	Maintain current level of outdoor grazing
Biodiversity & Environment	Sustainable feed sourcing	100% use of RTRS (Round Table on Responsible Soy) certified sustainable soya and sustainable palm kernel expeller by 2015
	Reduce phosphate volume and ammonia emissions	Actions and measures that directly and indirectly influence the phosphate volume and the emission of ammonia
	Improve biodiversity	Improving biodiversity

Programme Sustainable Dairy Chain

- Sustainable Dairy Chain has common goals but each cooperation is at liberty to choose focus & momentum regarding their sustainability programme
- From 2012 onward the dairy factories each implement their own sustainability programme (using the knowledge, tools and experience of each dairy factory) to support dairy farmers to produce milk in a more sustainable way



Research activities SDC

- Activities applied research (LEI)
 - Survey dairy farmers
 - Interview chain partners
 - Advice SDC board

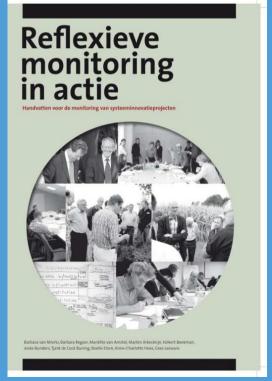
MVI-NWO Post-doc (Wageningen University. Social Scieces Group) Top-sector 2012-2016 - Applied research (DZK. Lifestock Research. Private innovation initiaitves 2008 - onward SDC

- Post-doc research (WU, KTI, 0,4 fte)
 - Improve understanding of these types of sector transformations – focus on social learning, communication patterns and boundary work
 - Support SDC by facilitating reflection
 - Further develop Reflexive Monitoring in Action



RMA Sustainable Dairy Chain

- Attended all steering committee & contact group meetings (8 total), a symposium for SDC partners and a public symposium organised by SDC
- Interviewed 9 participants of SDC
- Provide feedback to project manager on internal communication, relation with 'outsiders', etc.





Lessons learned so far

- Sector transformation initiatives by incumbents
 - Social learning process: interactions in multistakeholder settings to enable change
 - New perspectives and working routines are introduced cautiously

Conceptua

Relation

Action

 High commitment towards outcomes of learning process



Questions?

