Socio-cultural sustainability of pig production: farm visits with citizen panels in the Netherlands and Denmark









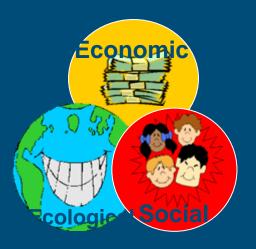
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Socio-cultural sustainability and values



All dimensions of sustainability are value-loaded Whether something is sustainable or not from your point of view, depends on which values you find most important

- Values are the core of a culture (Hofstede, Schwartz)
- Members of a society (citizens) are bearer of societal values and culture
- Sustainability as a socio-cultural concept:
 "Socio" refers to members of society, i.e. citizens
 "Cultural" refers to values of society
 - -> reflects various values and concerns of citizens

Trends

Agri-culture

Shared values

Shared values?

Curban society

Research question

How well does pig production fit in Dutch and Danish cultures?

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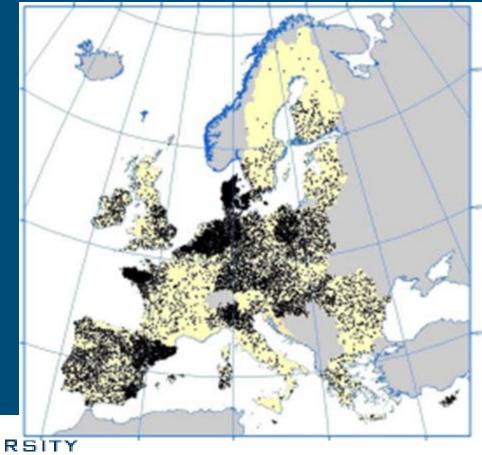
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Danish cultures?

2008 DK 13.6 million pigs NL 11.2 million pigs

DK 127 people/km² NL 401 people/km²

DK 79 kg/person/year NL 41 kg/person/year



Methods: citizen panels

Panel composition in the Netherlands and Denmark.

Selection criteria	The Netherlands	Denmark
Number of citizens		
(divided over two panels)	18	8
Gender (# female)	10	5
Urbanisation degree (# url	ban) 13	7
Age distribution (#)		
<20 years	3	0
20-40 years	7	2
40-65 years	6	3
65 years>	2	3
Education level		
(#higher education)	16	4



Methods: farms

Farm characteristics

Sows (#)
Fattening pigs (#)
Pigs delivered (# per year)
Size of farm (ha)
Labour on the farm (FTE)

Conventional farm

NL DK

500 170

8000 2200

18,000 5000

49 90

4 2

Methods: farm visit

- Individual panel members
- See hear smell & feel
- 6 photographs each of positive and negative aspects per farm
- Write motivation

Qualitative clustering in themes and aspects

Results: themes, aspects and issues

Table 3 Socio-cultural themes (SCT), aspects (SCA) and issues (SCI) of pig production according to Dutch and Danish respondents.

Socio-cultural themes (SCT)	Socio-cultural aspects (SCA) (including 29 SCI's a)	
1. Meat production	1.1 Production system*	
	1.2 Consumer awareness*	
	1.3 Pigs for production*	
2. Farming practices	2.1 Working conditions*	
	2.2 Automation and mechanisation*	
	2.3 Hygiene and cleanness*	
	2.4 Farm management*	
	2.5 Care for the animals*	
	2.6 The farmer*	
3. Farm income	3.1 Financial profitability*	
	3.2 Efficiency*	
	3.3 Economic conditions*	
4. Farm animals	4.1 Animal nutrition*	
	4.2 Animal health*	
	4.3 Animal wellbeing*	
	4.4 Animal behaviour*	
	4.5 Animal handling*	
	4.6 Animal transport*	
5. Housing system	5.1 Stocking density*	
	5.2 Freedom to move*	
	5.3 Outside access*	
	5.4 Distraction material*	
	5.5 Straw*	
	5.6 Climate*	
	5.7 Ventilation*	
	5.8 Daylight*	
	5.9 Atmosphere in the sheds	
6. Environment and nature	6.1 Environmental load*	
	6.2 Nature (only in Denmark)	
7. Culture and landscape	7.1 Farm characteristics	
	7.2 Countryside	
	7.3 Nostalgia (only in Denmark)	
	7.4 Landscape*	

^a Socio-cultural aspects marked with * were identified as socio-cultural issues (SCI).

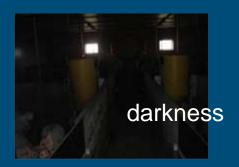


Results: themes, aspects and issues

Themes	Over-exploitation of animals	Dynamism of farm enterprise
Meat	Pork consumption?	food
Farming practice		efficiency, technology, hygiene
Farm income		entrepreneurship
Animals	injured pigs, castration, tail docking, natural behaviour,	
Housing	space, outside access, playing elements, day light, fresh air	
Environment and Nature		
Culture and landscape		

Photo's







Results: expectation vs. reality

- Conventional: many were shocked (reality < expectation)
- Organic: more care for animals than expected (reality >/= expectation)

Discussion

- Similar study of dairy farming: trade-off's between naturalitymodernity and tradition
 - Modernity: food, innovation, entrepreneurship
 - Tradition: pork as food not the production system
 - Naturality: major concern in conventional
- Emotional impact of pigs > of dairy
 - Worse than expected
 - Reconsider consumption
- NL and DK quite similar

Discussion

- Dilemma: economics/innovation vs. welfare/naturality
 - What should science do?
 - Win-win?
 - Good vs. bad?
 - Accept complexity/battlefield/human component

Thanks for your attention