

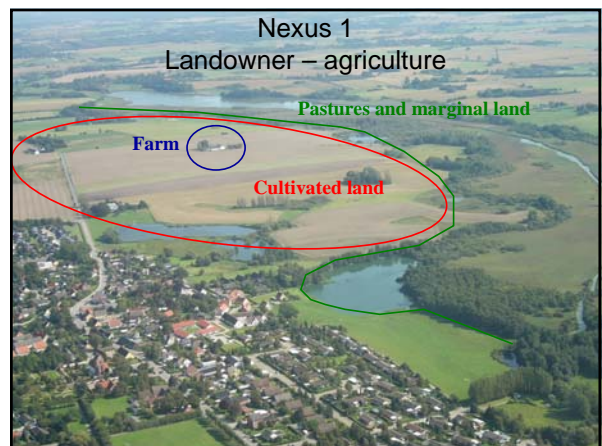
- ### Outline
- Data from ongoing studies in Greater Copenhagen
 - The nexus of the landowner: Five functions
 - Agriculture
 - Other Gainful Activities and on-farm business diversification
 - Settlement – farm as a home
 - Landscape
 - Recreational use
 - The results in the framework of land system science

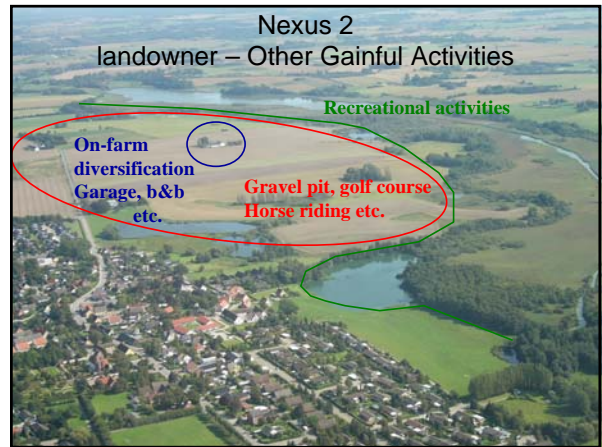
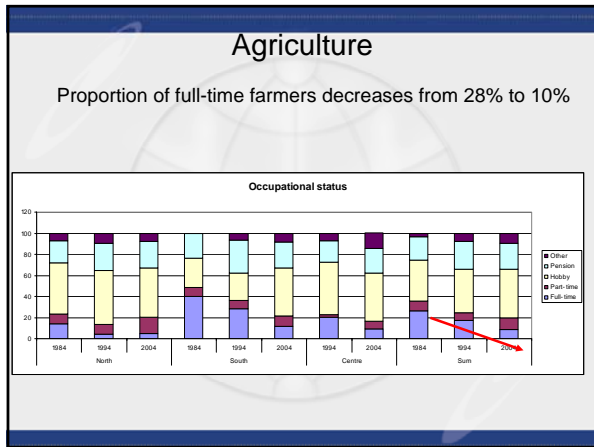
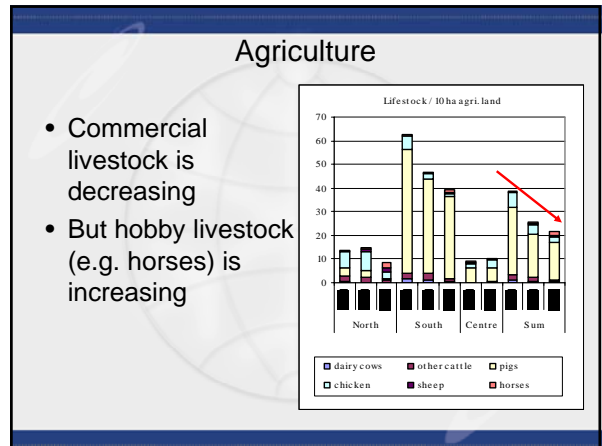
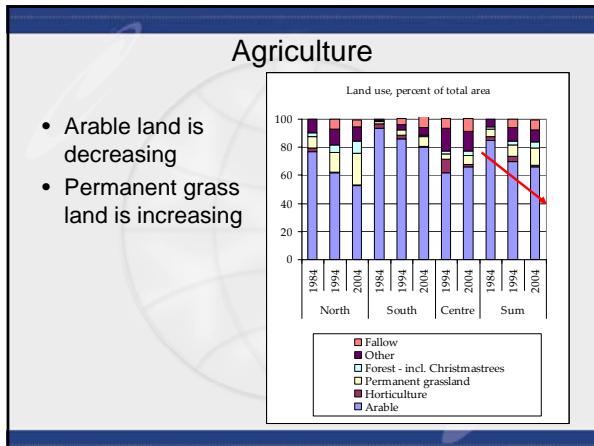
Longitudinal studies in 8 agricultural areas in urban fringe

- structured face-to-face interviews
- 3 North and 3 South (1984, 1994, 2004)
- 2 in 'inner fingers' (1994, 2004)
- 150 / 180 properties

In-depth studies in Gundsø Municipality located between two major urban "fingers"

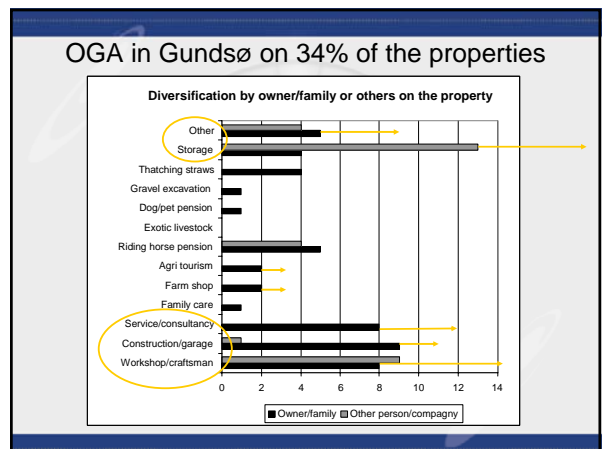
- Statistical data (GLR, DST and CVR)
- Postal questionnaire survey 2003/2004 with 125 farm households (74% of all)
- Qualitative interviews with 15 landowners 2003-2005
- Interview with planners from the municipality

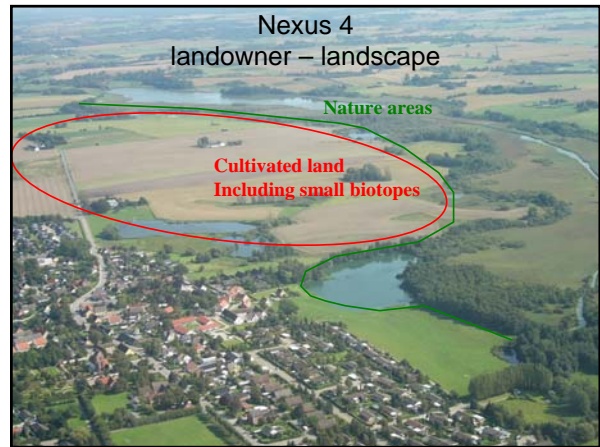
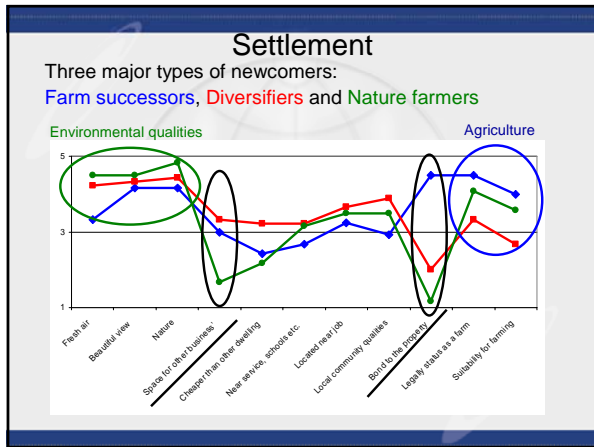
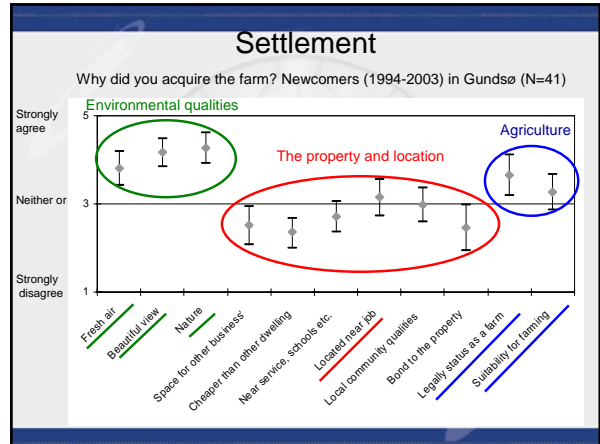
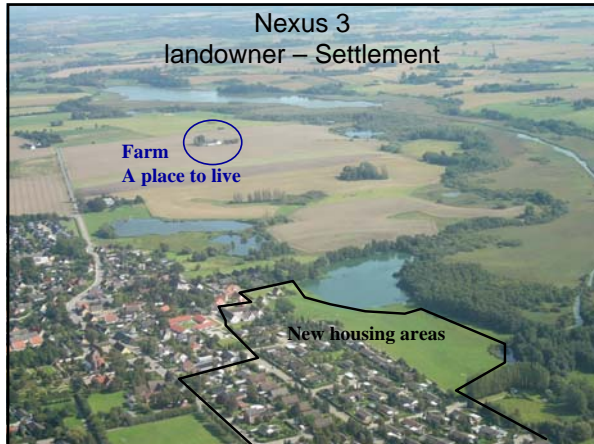




Other Gainful activities Increased from 17% to 38%

	North			South			Centre			Total		
	1984	1994	2004	1984	1994	2004	1984	1994	2004	1984	1994	2004
Has empty buildings		32	18		37	20		31	21		34	20
One or more buildings used for non-agri	16	27	26	18	31	30	57	55	17	36	38	
non-agri, m2	4.690	6.360		7.101	11.549		5.187	16.931		17.368	34.839	
N-properties	75	59	61	67	59	61	42	42	42	142	160	164





Landscape and nature

	Total no. of owners	Total area/number
Replanted forest (ha)	2	2.50 ha
Planted new forest (ha)	4	4.90 ha
Planted Christmas tree (ha)	10	15.00 ha
Planted small woodlands (no.)	22	36
Small ponds (no.)	11	21
Cleaned small pond (no.)	14	19
Removed small ponds (no)	1	1
Planted hedgerow (m)	25	16,180 m
Total	50 owners of 125 (40%)	owned area 3,088 ha

40% of the landowners in Gundsø has undertaken landscape changes: Planting of hedgerows and small woodlands most frequent

Landscape and nature changes pr. 100 ha

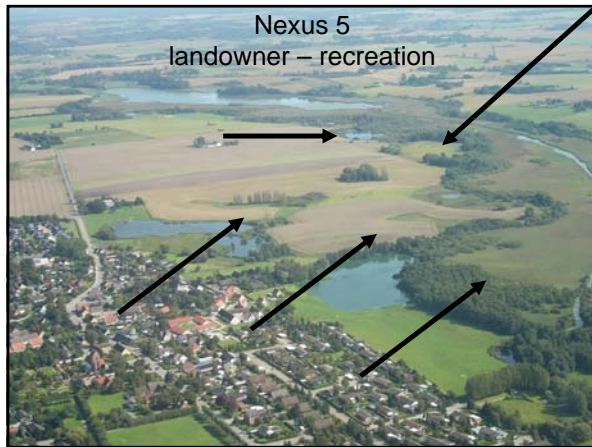
	1994	2004
Arable to pasture (ha)	4	4
Pasture to arable (ha)	0,3	0,0
Grazing reintroduced on pasture(ha)	-----	0,1
Grazing stopped on pasture (ha)	-----	0,2
Hedgerows planted (m)	444	584
Hedgerow removed (m)	33	54
Forest planted (ha)	0,2	0,7
Forest removed (ha)	0,1	0,0
Dike / bank removed (m)	-----	6
Greenery planted (ha)	1,0	0,7
Greenery removed (ha)	-----	0,1
Pond made (no.)	0,8	0,4
Pond dredged (no.)	-----	0,4
Pond removed (no.)	0,13	0,00
Ditch made (m)	-----	12
Ditch removed (m)	-----	0
Footpath or dirt road made (m)	-----	137
Footpath or dirt road removed (m)	-----	27
Total area owned	3800	3329

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Recreation

	Percent who undertake this activity on their own land	N
Go for a walk	92 %	106
Study the nature	72 %	92
Collecting berries etc.	65 %	73
Go a walk with the dog	62 %	84
Having picnic	42 %	74
Horse riding	30 %	70
Biking	22 %	73
Jogging	19 %	70

Landowners in Gundsø use the landscape for recreation

Recreation

Public accessing the property, percent % of properties

	North			South			Central			Sum	
	1984	1994	2004	1984	1994	2004	1984	1994	2004		
Yes	85	74	70	61	53	39	68	59	73	65	55
- Of these problematic	52	60	52	56	49	50	70	67	53	59	56
N	73	65	60	74	82	82	44	41	147	171	163

Decrease in public use of the land for recreation

Important problems regard dogs on the fields and disturbance of the wildlife/game

- ### Conclusion 1
- A part of the agricultural land is being extensified. More permanent grass land, more forest, more small ponds and more alternative land uses
 - Management control of the remaining intensively used arable land has been concentrated on fewer hands -> Though fewer in numbers, the full-time farmers still very important regarding the **land system**.

Conclusion 2

- Other Gainful Activities have increased -> frequent on more farms and occupies in more square meters
- But very few of the activities are related to the **land system** -> construction, storage, workshops etc.

Conclusion 3

Land system important for settlement:

- The environmental qualities important motive to all newcomers
- Different importance of and attachment to agriculture - land system on some farms has little to do with agriculture

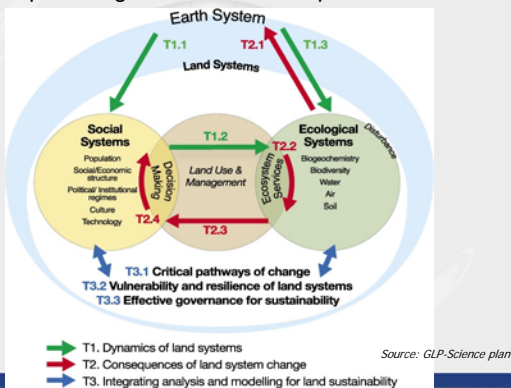
Conclusion 4

- **Land system** is an important arena for the landowners' own recreation (not only a motive for settlement).
- Trend is decline in other peoples recreational use: problems between the use/values of the landowner and visitors

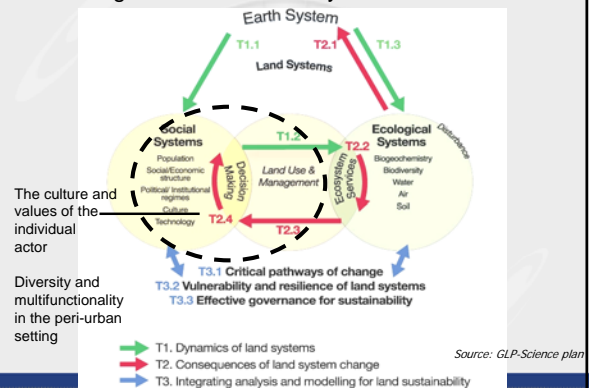
The situation in the peri-urban landscape

- Ambiguous trends of the land system
- Land system is important to the landowners but in different ways
- Farm property is much more than "a land system". Activities without linkages to the land system is increasing

Conceptualizing the results for the peri-urban area



Linkages between social system and land use



Explanations versus data

Important issues for further analysis

- Structures-----agents
(or drivers-----dicisions)
- Analysis of different types of agents: types of newcomers, full-time – hobby, background within agriculture etc. and their impact on the land system

