

# UNIVERSITÄT HOHENHEIM

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20.06.2008

## DIES ACADEMICUS

### Vortragsunterlagen zum Festvortrag

**Prof. Per Holten-Andersen (PhD),**

**Dekan der Life Sciences Fakultät  
der Universität Kopenhagen**

**Vormals Rektor der Königlichen Veterinär- und  
Landwirtschaftsuniversität Kopenhagen**


*- Es gilt das gesprochene Wort -*

UNIVERSITY OF COPENHAGEN

Faculty of Life Sciences

**University Reforms to Meet the Future - The Danish Case**


Per Holten-Andersen



The Danish Case  
Dias 1

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**Heraclites, 500 BC**  
*'The only thing constant in this world is the phenomenon of CHANGE'*



The Danish Case  
Dias 2

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**PER HOLTEN-ANDERSEN**

**The ROYAL VETERINARY and AGRICULTURAL UNIVERSITY - KVL  
FACULTY OF LIFE SCIENCES, UNIVERSITY OF COPENHAGEN - LIFE**

Students	3.500
Staff	1.800
Budget	180 mio. €

**EDUCATION**

*Bachelor of Forestry  
Master of Forestry  
Master of Economics (micro-)  
Doctor in Economics*

**RECENT POSITIONS**

2002-2003	<b>LAST</b>	<i>Elected Rector of KVL</i>
2003-2006	<b>FIRST/LAST</b>	<i>Appointed Rector of KVL</i>
2007-	<b>FIRST</b>	<i>Appointed Dean of LIFE</i>

The Danish Case  
Dias 3

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**Changing the Landscape**

**I The political level**

**II Changing the University Landscape**

1	Innovation Act	1999
2	University Act	2003
3	University mergers	2007
4	Globalisation strategy	2007-2012
5	Competitive basic funding	

**III The new University of Copenhagen**

**IV Curriculum change since 1773:  
From Veterinary Medicine and Agriculture to Life Sciences**

**V Creating a new University**

The Danish Case  
Dias 4

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**Changing the Landscape – the Political Level**

**I Danish Governments – minority governments since 1968...**

1950	Liberals, Conservatives
1953	Social Democrats
1957	Social Democrats, Social-Liberals, Justice-Liberals
1960	Social Democrats, Social-Liberals
1964	Social Democrats
1968	Social-Liberals, Conservatives, Liberals
1971	Social Democrats
1973	Liberals
1975	Social Democrats
1978	Social Democrats, Liberals
1979	Social Democrats
1982	Conservatives, Liberals, Centre Democrats, Christian Democrats
1988	Conservatives, Liberals, Social-Liberals
1990	Conservatives, Liberals
1993	Social Democrats, Social-Liberals, Centre Democrats, Christian Democrats
1994	Social Democrats, Social-Liberals, Centre Democrats
1996	Social Democrats, Social-Liberals
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2001	Liberals, Conservatives
2005	Liberals, Conservatives

The Danish Case  
Dias 5

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Dias 6

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## Changing the University Landscape

II-1 1999: Act on inventions at public research institutions

Disclosed inventions at the university/faculty

Year	Number of disclosures
2000	2
2001	2
2002	3
2003	10
2004	18
2005	22
2006	40

The Danish Case  
Dias 7

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## Changing the University Landscape

II-1 Increased interaction with industry and society

Danish Agricultural Council  
Danish Association of the Pharmaceutical Industry (Lif)  
Confederation of Danish Industries (DI)

The Danish Case  
Dias 8

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## Changing the University Landscape

II-2 2003: New University Act: Self-governing universities

- Strengthening management structure
  - Board with a majority of external members
  - Chairman of board external
  - Management team is appointed, not elected
  - Responsibility linked to persons, not collective bodies (except Academic Council and Study Boards)
- Deregulation of state control of curriculum content
- Deregulation of state rules in general (!)

The Danish Case  
Dias 9

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## Changing the University Landscape

II-2 Quotations from The University Act 2003:

- The Rector** shall be an acknowledged researcher within one of the university's academic fields and have knowledge of the educational sector.  
The Rector shall be an experienced manager and organiser of research environments and have knowledge of a university's activities and relationship with society."
- The Dean** shall be an acknowledged researcher with experience and knowledge of teaching, management and the interaction of a university with society."
- The Head of Department** shall be an acknowledged researcher and have teaching experience."

The Danish Case  
Dias 10

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## II-2 THE ROLE of UNIVERSITIES acc. Danish University Act

**I:** Research at the 'highest international level'

**II:** Research based teaching at the 'highest international level'

**III:** Dissemination of knowledge  
To the "Market" ( $\Delta$ GDP)  
- Innovation  
To Society  
- Life Long Learning  
- Research based policy recommendations (new)

**IV:** Participate in public debate  
- active role in social development  
- active role in political development  
- active role in creating a culturally enlightened society

The Danish Case  
Dias 11

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## Changing the University Landscape

II-3 2007  
University and Sector Research mergers:  
27 (12+15)  $\rightarrow$  11 (8+3)

II-4 2007-2012  
Globalisation strategy (Barcelona):  
+ 50 % government funding annually from 2012

II-5 2009-  
Competitive basic funding for Universities  
Competitive basic funding for Sector Research

The Danish Case  
Dias 12

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### II-3 Danish Universities

- University of Aarhus**
  - Aarhus School of Business
  - Danish Institute for Agricultural Sciences
  - Danmarks Miljøundersøgelser
  - Danish School of Education
- University of Copenhagen**
  - The Royal Veterinary and Agricultural University
  - The Danish University of Pharmaceutical Sciences
- Technical University of Denmark**
  - Research Center Risø
  - Danish Institute for Food and Veterinary Research
  - Danish Institute For Fisheries Research
  - Danish National Space Center
  - Danish Transport Research Institute
- Aalborg University**
  - Danish Building Research Institute
- Copenhagen School of Business**
- IT University of Copenhagen**
- University of Southern Denmark**
  - National Institute of Public Health
- Roskilde University**

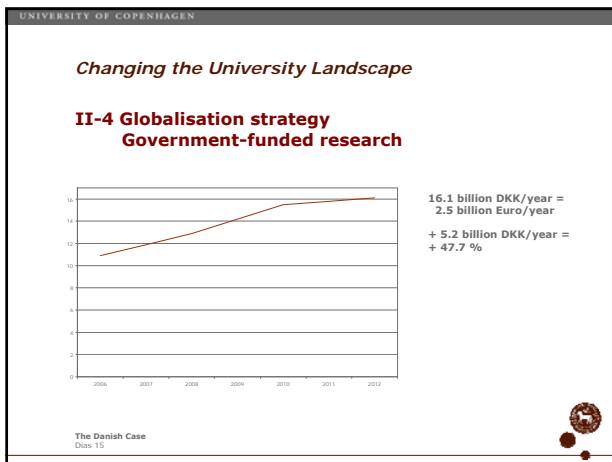
The Danish Case  
Dias 14

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### II-3 Danish Universities (2006 figures)

Universities	Merger Partners	Turnover (mln. kr.)	Employees		Number of students	
			Total	Of this Ac Staff	Bach. and Master	Ph.d.
1 University of Copenhagen	University of Copenhagen Pharmaceutical University Royal Veterinary and Agr. Univ.	5 056 (1.170)	7 462 (1.700)	3 584 (760)	36 769 (2.900)	1 771 (400)
2 University of Aarhus	University of Aarhus Aarhus Business School DK Institut of Agricultural Sci National Envir. Research Inst. University of Education	3 699	6 014	3 317	28 426	1 079
3 Technical University of DK	Technical University of DK Research Center Risø DK Inst. for Food and Vet. Research DK Nat. Space Center DK Inst. for Fisheries Research DK Transport Research Inst.	2 881	4 153	2 439	6 274	670
4 University of Southern DK	University of Southern DK National Inst. of Public Health	1 472	2 312	1 240	12 534	452
5 University of Aalborg	University of Aalborg DK Building Research Institute	1 446	2 225	1 371	10 816	504
6 Roskilde University	Roskilde University	554	858	524	7 954	205
7 Copenhagen Business School	Copenhagen Business School	807	1 245	704	12 080	201
8 IT University of Copenhagen	IT University of Copenhagen	112	166	93	1 041	38

The Danish Case  
Dias 14



- UNIVERSITY OF COPENHAGEN
- ### Changing the University Landscape
- #### II-4 Investing in Danish Universities
- 1479 University of Copenhagen
  - 1829 Technical University of Denmark
  - 1858 Royal Veterinary and Agricultural University
  - 1892 Danish Pharmaceutical University
  - 1917 Copenhagen Business School
  - 1928 University of Aarhus
  - 1939 Aarhus School of Business
  - 1966 University of Southern Denmark
  - 1972 Roskilde University
  - 1974 Aalborg University
  - 1999 IT University of Copenhagen
  - 2000 Danish University of Education
- The Danish Case  
Dias 16

- UNIVERSITY OF COPENHAGEN
- ### Changing the Landscape
- I The political level
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    - 4 Globalisation strategy 2007-2012
    - 5 Competitive basic funding
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  - V Creating a new University
- The Danish Case  
Dias 17

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### BEFORE

The Royal Veterinary and Agricultural University  
The Pharmaceutical University  
The University of Copenhagen

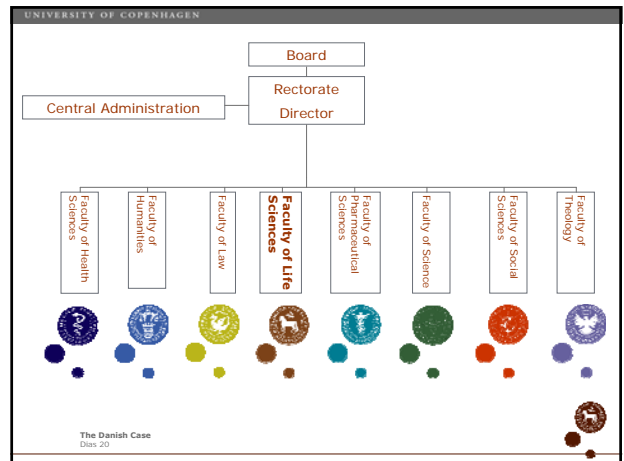
### THE NEW UNIVERSITY OF COPENHAGEN

8 faculties

The largest university in Scandinavia in number of researchers with app. 5,500 researchers (incl. PhD) and 37,000 students.

One of Europe's largest university clusters within Health and Life Sciences.

The Danish Case  
Dias 18



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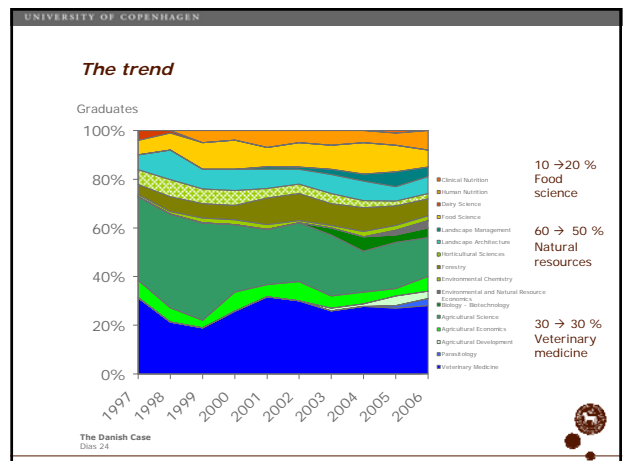
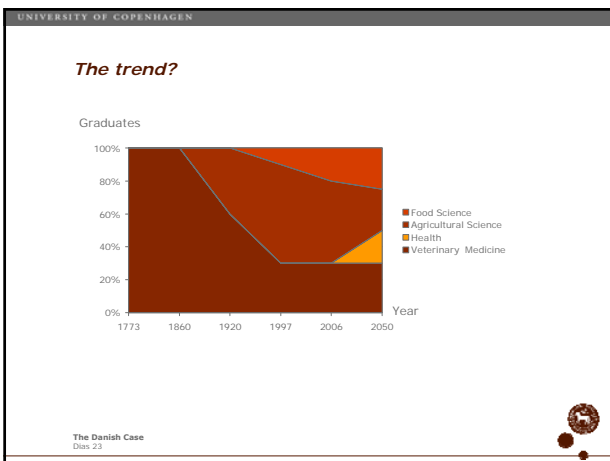
The Danish Case  
Dias 21

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### LIFE M.Sc. programmes – spot the trend?

Veterinary medicine	1773
Agricultural sciences	1858
Horticultural Sciences	1863
Forestry	1863
Dairy science	1921
Landscape Architecture	1960
Food Science	1971
Food Economics	1992
Environmental Chemistry	1995
Human Nutrition	1996
Landscape Management	2000
Biology – Biotechnology	2002
Parasitology	2002
Agricultural Development	2002
Envir. and Natural Resource Economics	2003
Clinical Nutrition	2004
Process Analytical Technology (PAT)	2006
Sustainable Development in Agriculture (EM)	2006
Sustainable Tropical Forestry (EM)	2006
Sustainable Forest and Nature Management (EM)	2006
Gastronomy and Health	2007
Soil, Water and Biodiversity	2007

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Dias 22



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**The trend**

**Food science**  
Production efficiency → food safety  
human nutrition and health  
gastronomy

**Natural resources**  
Focused primary production → multifunctional land use  
biosystems services  
recreation and lifestyle

**Veterinary medicine**  
Production animal health → pet animal health  
animal models  
human health and medicine

The Danish Case  
Dias 25





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**Thank you for YOUR ATTENTION**

Per Holten-Andersen

The Danish Case  
Dias 26

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Dias 27




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**Implementing the new University Act (2003)  
at LIFE**

- organisational efficiency
- leadership at all levels
  - dean
  - department heads
  - research groups
  - study programmes
- management training programme
- performance contracts department/dean
- strategy for internationalisation
- enthusiasm & job satisfaction

The Danish Case  
Dias 28


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**Thematic packages**  
**Scientific potentials 2007**

Biggest brainstorm ever?  
→ 12 thematic packages

1. Improving livelihood, environment and health conditions in developing countries
2. E- in science
3. Natural resources and the environment
4. Science - ethics and communication
5. The universe of the cell
6. Identities
7. Modern medicine, food and health
8. Creation of societies through demographic movements
9. Future technologies
10. Global challenges
11. Welfare and democracy
12. Pharma, brain, mind



The Danish Case  
Dias 29




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**W.S. Churchill, Harvard 1943**  
*'The empires of the future are the empires of the mind'*

The Danish Case  
Dias 30

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*Thank you for YOUR ATTENTION*

Per Holten-Andersen

The Danish Case  
Dios 31

