The Danish research and innovation system

Hans Müller Pedersen, Director General
The Danish Agency for Science, Technology and Innovation
Headlines

• Brief presentation of the set up of the Ministry and of DASTI

• What has happened during the last decade?

• Recent trends

• New steps in Danish Innovation Policy
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Ministry of Science, Innovation and Higher Education

The Minister
Morten Østergaard
The Social Liberal Party
September 2011

Ministeriel Department

The Danish Agency for Higher Education & Educational Support

The Danish Agency for Science, Technology & Innovation

The Danish Agency for Universities & Internationalisation

Hans Müller Pedersen
DASTI – Danish Agency for Science, Technology and Innovation

Employ apx 220 staff

Overall budget apx 600 M€uro

Two main tasks
Headlines

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- What has happened during the last decade?

- Recent trends

- New steps in Danish Innovation Policy
Organisational development and current setting (the silent revolution)

- Ministry of Science, Technology and Innovation established in 2002 as the first of its kind in the World
- Governance Reform 2003 in Danish universities
- The Globalization Strategy launched 2005/06
- Mergers (Universities and National research Institutions) 2007-08
- Change of set up of research allocation bodies 2003 and 2008
University structure 2007

- Universities (12 → 8)
- Research institutions (17 → 3)
The Danish R&D allocation bodies

<table>
<thead>
<tr>
<th>Basic research</th>
<th>Applied research and knowledge-dissemination</th>
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<tr>
<td>Danish National research foundation</td>
<td>Danish council for technology and innovation</td>
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<td>Danish council for independent research</td>
<td>Danish foundation for advanced technology</td>
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<td>49 M€</td>
<td>80 M€</td>
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<td><strong>Center grants.</strong> Typically 40 – 50 MDKK 5 – 10 year grants</td>
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<td></td>
<td><strong>Individual grants and minor projects</strong> Typically 2-5 MDKK 2-3 year grants</td>
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<td>Heavily co financed from Uni.</td>
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The National budget for research (fixed 2010 prices)

% is on the state budget. 62 % is “core grants”; 38 % is competition grants

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Educational goals

Where are we now?

90%  →  95%
53%  →  60%
23%  →  25%

By 2020

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A strong basis for innovation
ERAC – European Research Area Committee

Peer-Review of the Danish education, research and innovation system

Paul Cunningham
Kimmo Halme
Arie van der Zwan
Wolfgang Crasemann
Petri Lehto
Otto Starzer

Hans Müller Pedersen
A strong basis for innovation...

“We have found Denmark offers an excellent example of a well-performing R&I system.”

• A strong international standing in terms of comparative international performance in most RD&I indicators.

• A strong education base with excellent higher education and research systems.

• A strong public and private sector commitment to continue to maintain the necessary levels of investment into education, research and innovation.

• A timely response to the prevailing economic conditions and identified challenges in the development of a new national innovation strategy by the Danish government which demonstrates a number of appropriate courses of policy action.

• A unique Danish approach and culture for innovation and innovation policy, which strongly reflects the country’s open and dynamic welfare society.
...but also a call for action:

• A large and heavy Danish public sector, which tends to dominate the R&I system.

• Concerns around insufficient growth of productivity levels and a slowing down of economic growth.

• A need for well-performing Danish companies to raise their game from the European level to the global arena in particular for Danish SMEs to exploit their niche market opportunities.

• A need to increase the visibility, both in performance and policy attention, of sectors of the Danish economy outside multinational companies in the pharmaceutical, biotechnology and energy sectors

• The existence of policy instruments in a limited number of policy areas which need further development in order for the RDI system to achieve its full potential.
New steps in research and innovation policy

• Focus more on societal challenges

• Include education in innovation policy making

• Keep focus on internationalization

• Lean the system
Thank you for your attention!

Find more info on:

http://en.fivu.dk/

http://en.fi.dk/publications/2012/research2020/