



How do the Nordic countries cope with the four key areas? – Higher Education Institutions

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Background

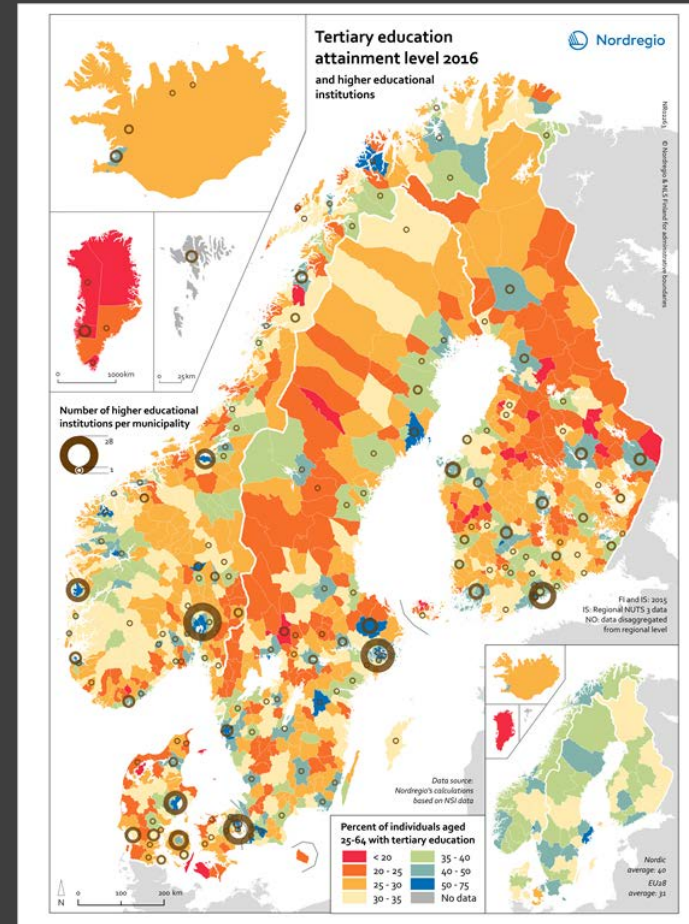
Total population: 27 million

Current students: 1,3 million

HEIs: 188

R&D spending (% of GDP):

- Sweden: 3,26 %
- Denmark: 3,01 %
- Finland: 2,90 %
- Iceland: 2,21 %
- Norway: 1,93 %



So how are we coping? (1)

Rank (2018)	Rank (2017)	Country	Score	Score (2017)
1	1	United States	100.0	100.0
2	2	Switzerland	88.0	86.9
3	3	United Kingdom	82.6	85.5
4	5	Sweden	82.4	83.4
5	4	Denmark	81.7	83.5
6	9	Finland	79.7	79.9
12	13	Norway	74.5	73.9

Overall U21 2018 Ranking
- University system

(U21 Ranking of National Higher Educational Systems, 2018)

So how are we coping? (2)

Rank	Country	Score
1	United States	100.0
2	United Kingdom	70.1
3	Australia	64.7
4	Switzerland	64.4
5	Denmark	62.9
6	Sweden	62.1
7	Canada	62.1
8	Netherlands	59.7
9	Finland	56.9
14	Norway	54.4

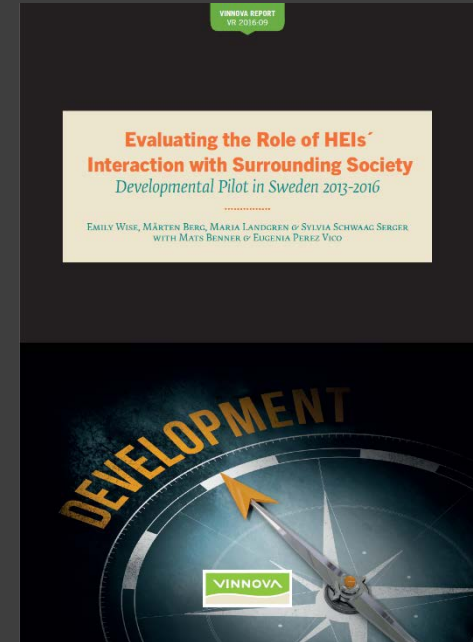
U21 2018 Output Ranking

(U21 Ranking of National Higher Educational Systems, 2018)

So how are we coping? (3)

“ The top seven countries for knowledge transfer in the IMD survey of business executives (C5) are, in rank order, Switzerland, the United States, the Netherlands, Denmark, Israel, Ireland and the United Kingdom.”

“ The six most highly ranked countries for the percentage of scientific articles written with industry are, in rank order, Austria, the Netherlands, Sweden, Denmark, Japan and Hungary.”



(U21 Ranking of National Higher Educational Systems, 2018)

But is this is it?

HEIs are growing in importance in the Nordics

- ~40-45 % percent of young people will attend a HEI

Sweden, percent of 24 year olds

- Very large public employer in the Nordics

Sweden, Largest state employment sector, ~60 600 employees

- Very high number of PhDs

(59,500 students are registered at the doctorate level in the Nordics – the majority with grants or staff positions – compared to 14,500 in the Netherlands)



Governments want higher impact
and more societal interaction!

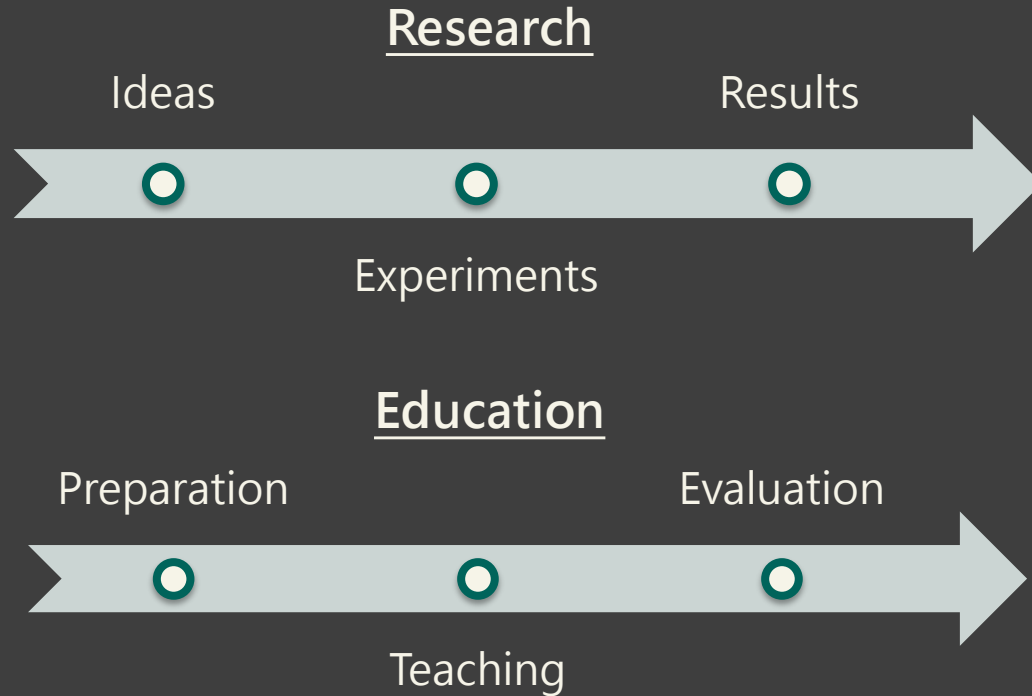
What are HEIs for?

Social change	Sponsor urgent desire	"Idea" of a university
Agricultural revolution	Reproducing religious administrators	Cloister (11th C Italy)
Emergence of nobility	Educating loyal administrators for courtly life	Free cloister (12th C France)
Urbanisation	Educated administrative elite to manage trade	Catholic University of Leuven (15th C)
Sustaining national communities	Validating the state by imagining the nation	Newman's idea (from 17th C onwards)
Creating technical elite	Creating a technical elite alongside the administrative elite	Humboldtian (19th C Germany)
Promoting progress	Creating economically useful knowledge	Land Grant University (19th-20th C USA)
Supporting democracy	Creating elite for non-traditional societal groups	Dutch Catholic Unis (20th C Netherlands)

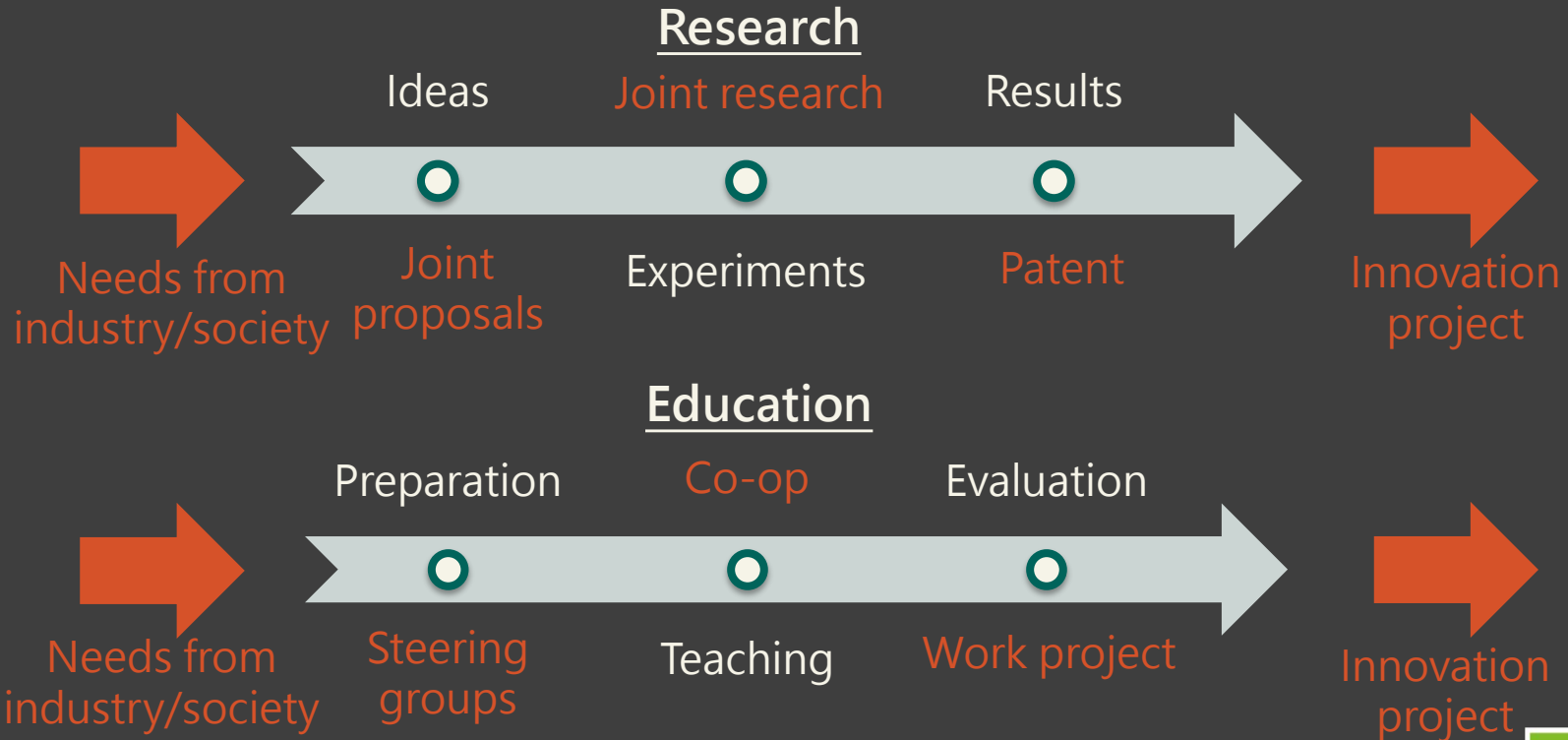
Research policy

Source: Pinheiro et al. (2012) (Paul Benneworth, CHEPS, the Netherlands)

What HEIs actually do



What HEIs actually do



New paradigm incoming?

What social changes are happening

- Knowledge society?
- Connected society?
- National or Global society?

What urgent desire do we see from sponsors

- Increased competitiveness?
- Individual opportunity throughout life?
- International mobility?

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Current trends

- "Vision" for the 2020s in Sweden
- Mergers in Norway, Finland & Denmark
- Rapid expansion of HEIs all around the world with internet institution growing very fast

Regeringens högskolepolitik

Förändringar för 2020-talets behov

- **Hela landet**
investeringar i utbildning och forskning i hela landet
- **Hela livet**
ökade möjligheter för livslångt lärande och omställning
- **Hela världen**
ökad internationalisering för stärkt kvalitet och konkurrenskraft

Kvalitet vägledande inom alla områden

Policy option

Organizational capacity of HEIs

- 17 projects
 - 120 MSEK
 - 31 HEIs

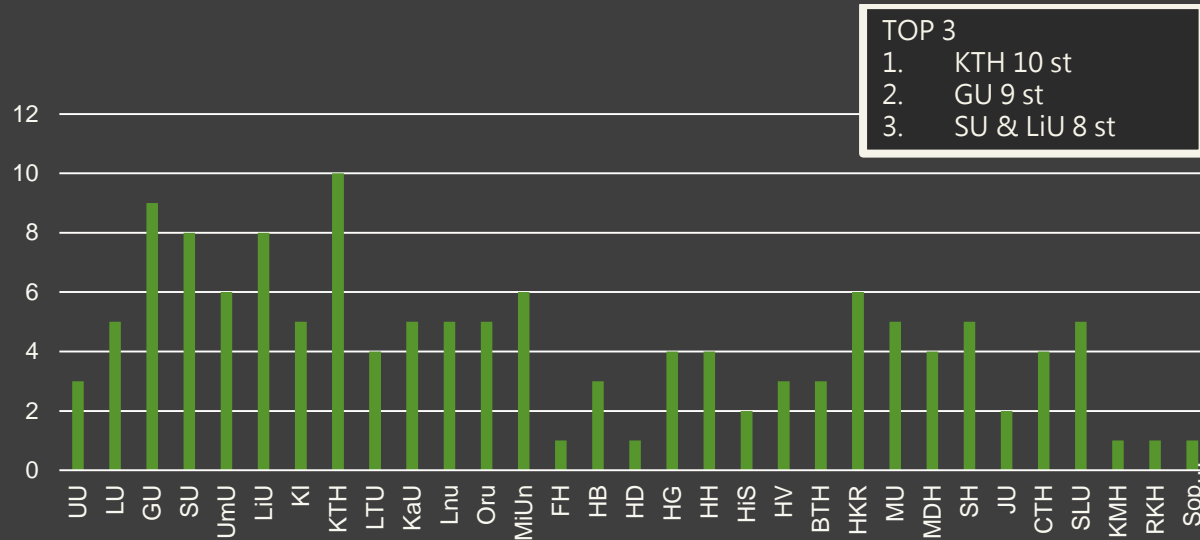
Projects

- Integrated Quality Systems for Enhanced Impact
- Flexibility in Higher Education - in All of Sweden
- Implementation of Methods and Knowledge on Intellectual Assets and Rights
- Development of Indicators for Societal Interaction
- Establishment of Work Projects in Music and Technology
- Common Language for HEIs Interaction with Society
- Internationalization of Societal Interaction through Strategic Partnerships
- Arenas for Co-Operation through Citizen Science
- Arenas in an Outside World Context
- Societal Interaction for Lifelong Learning - Contract Education
- Mobility for Researchers
- Agenda 2030 as Framework for Impact Assessment of Cooperation and Utilization
- Meritvalue of Cooperation Skills
- Strategic Partnerships for Efficient and Transparent Collaboration
- Methodologies for Relevance Assessments of Educational Programs
- Funding of Collaborative Projects - Recommendations and Model for Greater Impact
- Methods for Developing Collaboration Arenas

Policy option

Organizational capacity of HEIs

- 17 projects – 120 MSEK – 31 HEIs



Policy option

Integrated Quality Systems for Enhanced Impact

(Samverkansintegrerat Kvalitetssystem för Ökat Nyttiggörande)



From an operational development perspective , facilitate the work to build a coherent quality system for the complete mission of a university

End notes

- The Nordic countries university systems are doing fine in standard terms
- HEIs are very important for competitiveness going forward
- Possibility of paradigm shift in the near future
- As we ask more from HEIs, we also have to develop their capacity



Thank you

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