



## Transitioning from an economic to a broader social impact: a case study of a Swedish university

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**27 October 2017** 





#### Case study aim

- Contribute to the literature on the roles of universities in regional development
  - Issue of transition from one model to another
- Questions leading this study:
  - o (i) How does the literature define the roles of universities?
  - o (ii) Which of these definitions is applicable to LiU?
  - o (iii) What disparities exist between the case and the theoretical models in the literature?



#### **Method**

#### **Data**

- Literature on the case (1996-2012)
- 3 additional interviews (2017)
- Secondary data from the web (municipalities' websites, etc.)

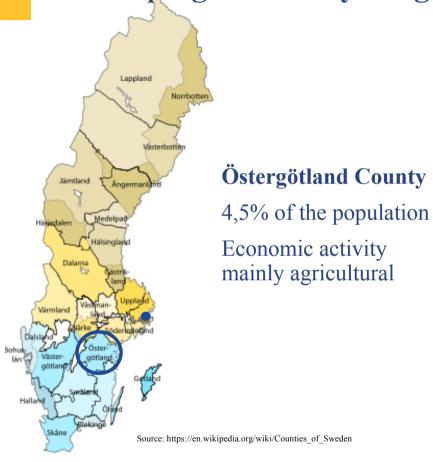
#### **Analysis**

- Using the theoretical framework of Uyarra (2010)
- Finding similarities and disparities

Uyarra, E. (2010). Conceptualizing the Regional Roles of Universities, Implications and Contradictions. *European Planning Studies*, *18*(8), 1227–1246.



Linköping University's region



#### Linköping

153,000 inhabitants
5th largest city in Sweden
Biggest employers:

- Municipality
- Region
- Saab
- University
- Ericsson

Science Park Mjärdevi

#### Norrköping

135,000 inhabitants

9th largest city in Sweden

Paper industry

Campus of LiU since 1990s

Science Park Norrköping





#### The University

1960s: branch of Stockholm University

1975: 6th public University in Sweden

#### **Today**:

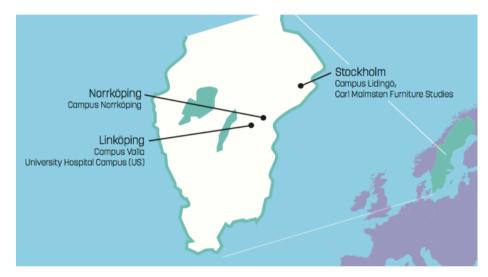
4,000 employees

27,000 students (2,000 from abroad)

4 campuses

#### 4 faculties:

- Faculty of Arts and Sciences
- Faculty of Medicine and Health Sciences
- Faculty of Science and Engineering (Institute of Technology)
- Faculty of Educational Sciences



Source: https://liu.se



#### How does the literature define the roles of universities?

Source: Uyarra, E. (2010). Conceptualizing the Regional Roles of Universities, Implications and Contradictions. European Planning Studies, 18(8), 1227–1246.

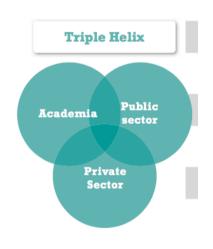
Table 1. Summary: roles, determinants and engagement modes of universities

Model	Knowledge "factory"	Relational university	Entrepreneurial university	Systemic university	Engaged university
Main role of universities	Production of scientific knowledge	Exchange of knowledge	Active commercialization role	Boundary-spanning role	Developmental role
Main unit of analysis	Innovation outputs	Linkages	Intermediaries (e.g. TTOs)	Systems/networks	Spaces of governance
Main partners/ beneficiaries	High-tech firms located in proximity to universities	Large manufacturing firms	Large manufacturing firms Spin-off firms	Regional clusters Regional SMEs	Regional stakeholders
Directionality of engagement	Unidirectional (implicit)	Bi-directional (implicit)	Bi-directional (explicit)	Triple-helix (universities, industry and government)	Responsive
Dominant methodology	Industrial surveys	Industrial surveys	Surveys of university TT managers	National and regional innovation surveys	Case studies
	Citation count Production function analysis	Case studies		Case studies	
Key factors influencing impact	Research intensity/ inputs	Structural factors (size of firm, age, sector, R&D intensity)	Organizational structures/ forms	Regional system configuration	Number and synergies between universities
•	Geographical proximity	Innovation strategy	Managerial practices Faculty behaviour/incentives	Regional policy Institutional capacity of universities	University leadership Joined up policies/ incentives
Policy implications	Co-location of firms and universities. Increased funding for research	Some links should be promoted vis-à-vis others	Intermediaries and organizational arrangements/incentives are needed to ensure links	Institutional arrangements are important to ensure linkages	Joining up of universities missions and other policies at different levels





# Which of the definitions is applicable to LiU? The Systemic University



### Examples of Triple Helix Collaboration

- Science Park Mjärdevi
- Creation of Campus Norrköping and Norrköping Science Park

Main role of universities
Main unit of

Model

Main unit of analysis
Main partners/
beneficiaries

Directionality of engagement

Dominant methodology

Key factors influencing impact

Policy implications

Systemic university

Boundary-spanning role Systems/networks

Regional clusters Regional SMEs

Triple-helix (universities, industry and

government)
National and regional innovation surveys
Case studies

Regional system configuration

Regional policy Institutional capacity of universities Institutional arrangements are important to ensure linkages

Source: Uyarra, E. (2010). Conceptualizing the Regional Roles of Universities, Implications and Contradictions. *European Planning Studies*, *18*(8), 1227–1246.

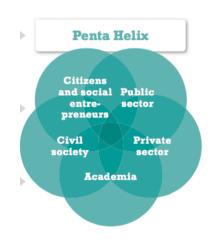
innovation agenda.

Source: Björk, F., Hansson, J., Lundborg, D., & Olofsson, L. E. (2014).

An Ecosystem for Social Innovation in Sweden: A strategic research and



# Which of the definitions is applicable to LiU? The Engaged University



#### Examples of Penta Helix Collaboration

- HELIX Competence Centre
- East Sweden Business Region

Source: Björk, F., Hansson, J., Lundborg, D., & Olofsson, L. E. (2014). An Ecosystem for Social Innovation in Sweden: A strategic research and innovation agenda.

Model	Engaged university		
Main role of universities	Developmental role		
Main unit of analysis	Spaces of governance		
Main partners/ beneficiaries	Regional stakeholders		
Directionality of engagement	Responsive		
Dominant methodology	Case studies		
Key factors influencing impact	Number and synergies between universities		
Policy implications	University leadership Joined up policies/ incentives Joining up of universities missions and other policies at different levels		





## What disparities exist between the case and the theoretical models in the literature?

Some elements seem uncovered by the models:

- An innovative mind-set (e.g. interdisciplinary approach)
- A historic strategic alignment with regional stakeholders

But seem to tend toward the Engaged model

Some elements of the Engaged model seem difficult to verify:

- LiU's strategic partners remain the public and private sectors (Triple Helix)
- "workforce development" (Breznitz & Feldman, 2012)
- > LiU seems in transition from the Systemic to the Engaged model





#### **Discussion**

#### Transition seems to be undertaken in response to external expectations:

- What is the real added value for the university when they implement such a change?
- Is it relevant for the university to meet the expectations of so many stakeholders?
- Does this detract from its core missions of education and research?
- Suggestions for future research:
  - Additional interviews from regional stakeholders, in particular the <u>civil</u> society, to complement the picture
  - Comparative studies with other European universities







Thanks for your attention

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