Networks of Individuals in University-Industry Relationships

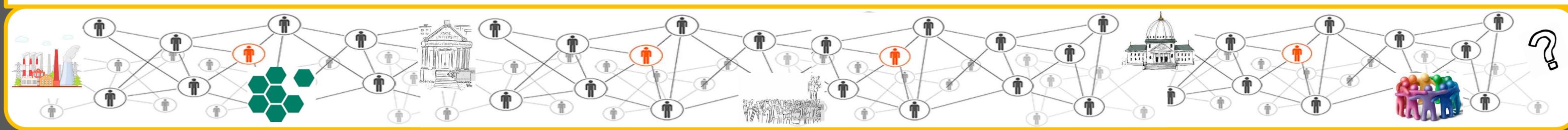


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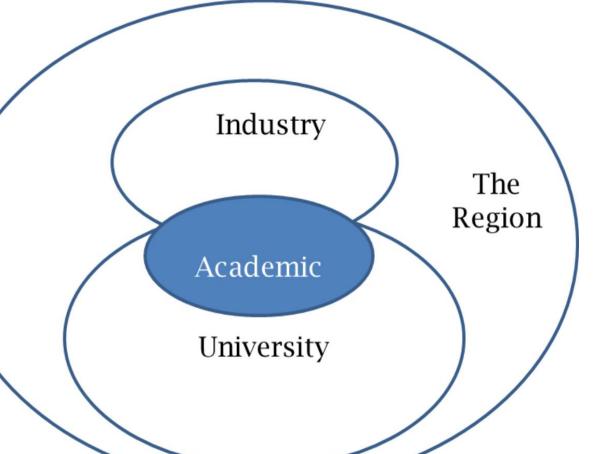
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Introduction

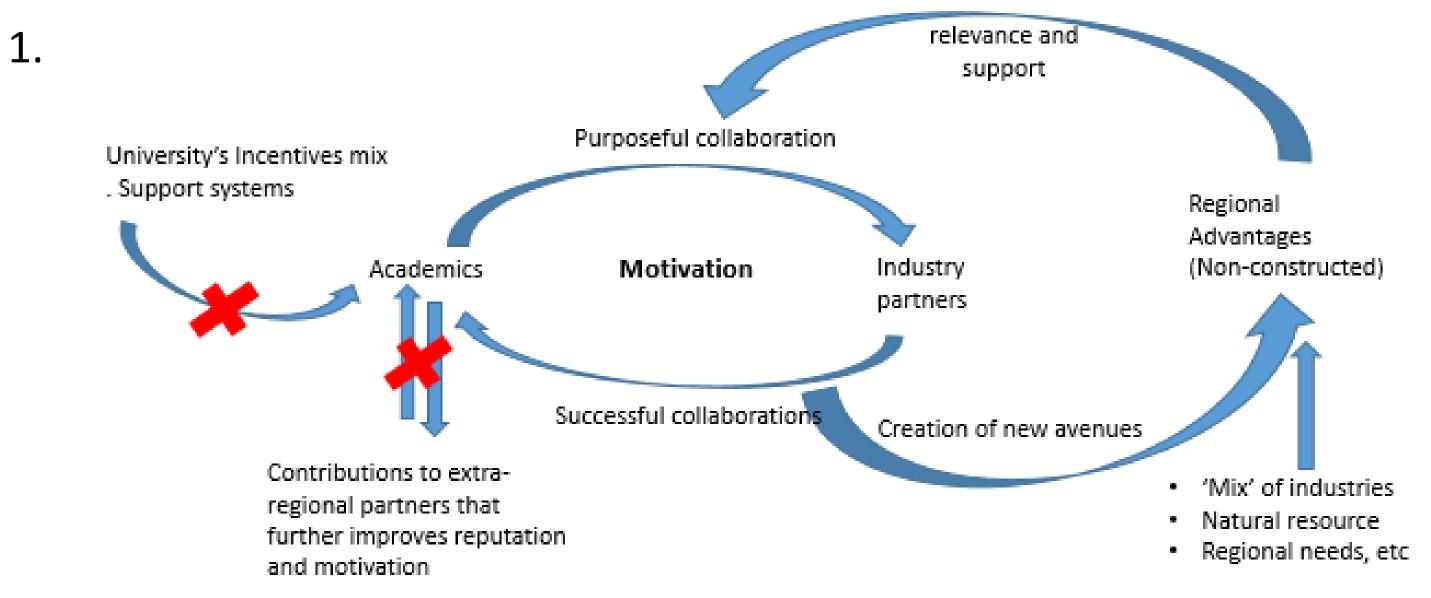
— Universities play an important role in their regions and in the development of a knowledge-based economy

• delivering on their third mission

— Research on knowledge exchange tends



Preliminary Results



linkages emphasise the between to organisations

* Focus on actions of individuals.

Fig. 1: *The place of the individual*

academic in regional innovation

Research Question: How

do individual contacts (of

Academics) shape the

geography *of* knowledge

exchange networks?

Objectives

What is the nature and geography of academics' personal networks?

Development of networks and influence on patterns of University-Industry linkages (UILs) • Motivations to collaborate regionally or outside Measures required to foster more localised networks

How do personal and institutional factors affect the development of networks?

• The effect of university-level factors on academics' networks • Influence of individual-level factors • How do individual contacts get institutionalised?

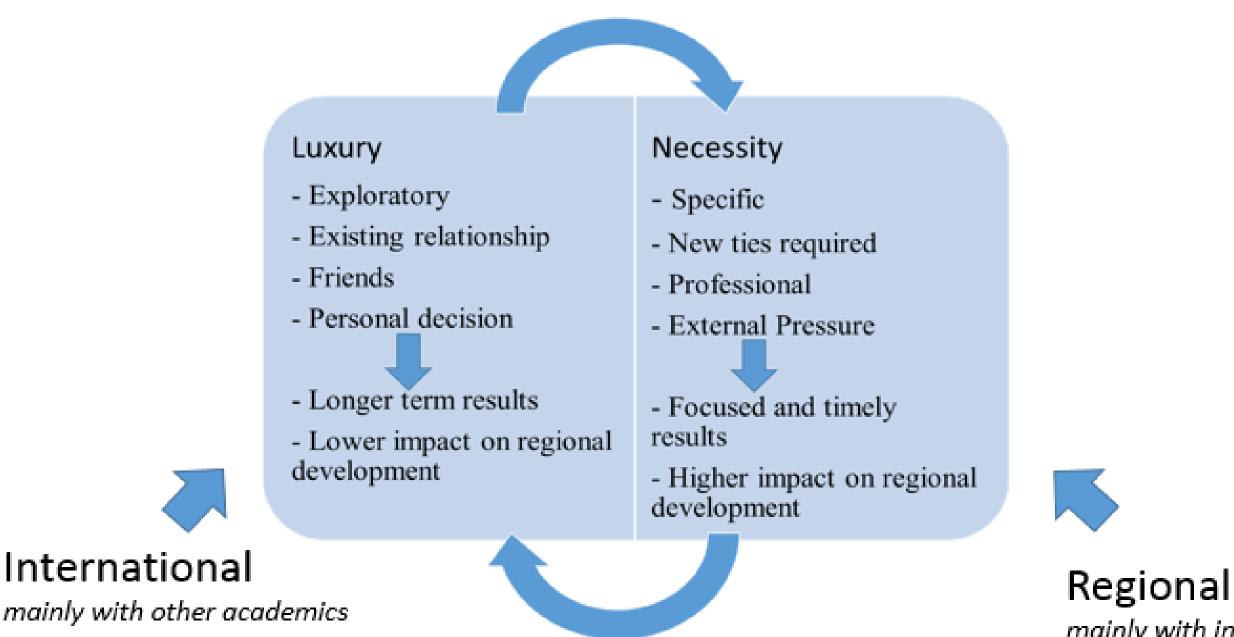
What is the role of academic mobility in the development of networks?

• The effect of mobility on networks • industry links move with academic partners factors that promote academic mobility and how these influence the resulting networks or collaborations

Fig. 2: *Research Objectives*

Fig 5: A motivation cycle for academic engagement

regionally 'constructed' and 'non-constructed' advantages influence Both academics' motivations to engage locally. The value from third mission activities for instance, lends well with constructed advantages, whereas the presence of a 'natural resource' is an example of a non-constructed advantage...



Theoretical Framework

- Focused on the intersection between the Regional Innovation Systems (RIS) theory and the Network theory: 'inter-relatedness, interconnections,....'

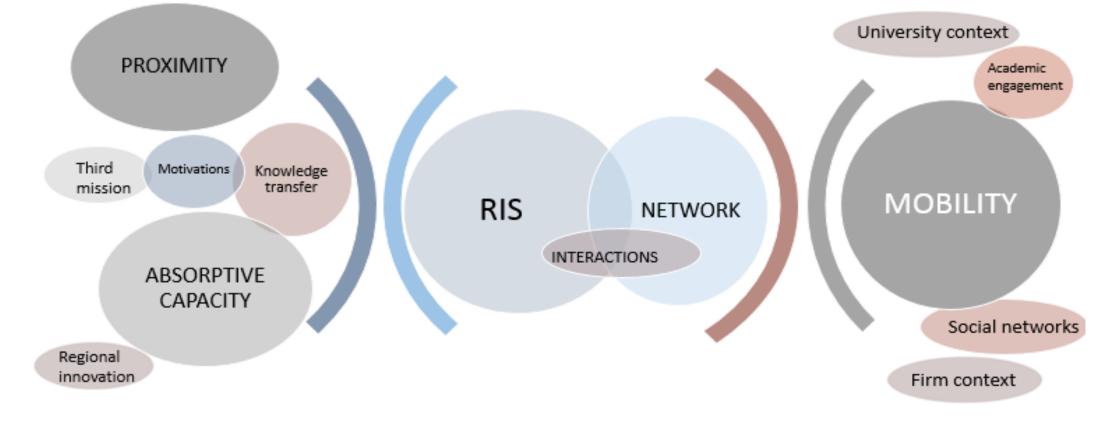


Fig. 3: Theoretical Framework

Methodology & Scope

Qualitative

- Multiple case study

embedded units (Yin 1984)

Semi-structured interviews

Social Network Analysis (Borgatti et al., 2013) - Generation of Names (alters) - Interpretation of Names

<u>UK</u> – University of Lincoln, Loughborough University, Imperial College

<u>Sweden</u>- Linkoping University, Chalmers Technology University mainly with other academics

mainly with industry

Fig 6: University-Industry collaborations: A question of luxury or necessity?

University-industry collaborations may be a question of luxury or necessity from the perspective of certain academics. These are also explained by the theories on 'weakstrong ties' and entrepreneurial decision-making; effectuation & causality...

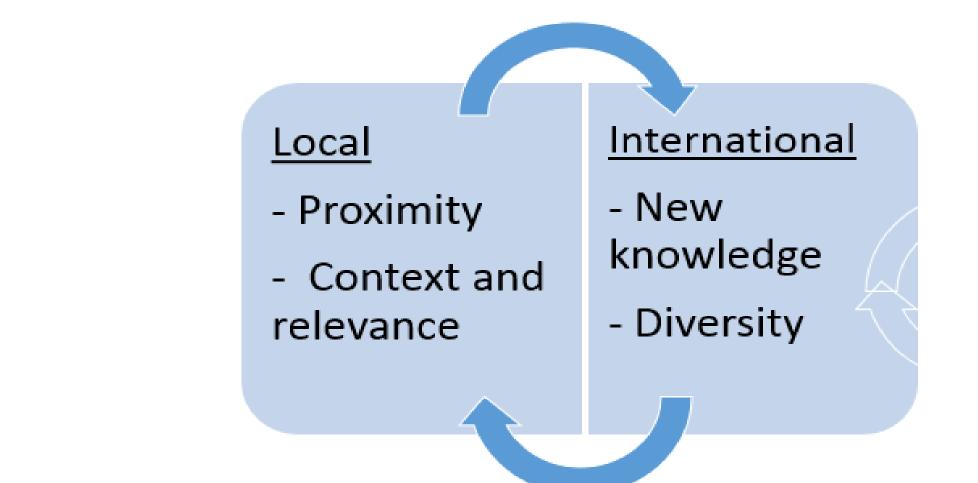


Fig 7: On sustaining regional innovation: local versus international networks?

International networks of academics are usually for the purpose of acquiring knowledge whereas the localized are usually for the dissemination of knowledge. These network types are inter-dependent...

References

- Individual Academics

- Industry contacts

(definition of relationships)

- Interrelation of names (linkages)

Norway- University of Stavanger

Fig. 4: *Research Design*

Project Relevance

- Add to the wealth of knowledge on regional innovation: renewed perspective
- Better understanding of individual academics' attitudes and underlying personal ties is key to boosting university –industry collaborations
- Universities stand to benefit

•*new policy* initiatives (as impacts different subsets of researchers) •effect on university governance

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