Matthijs Janssen



ESIC European Service Innovation Centre

















Context

- 1. Rising attention for service innovation:
- Pure services do innovate (Gallouj & Djellal, 2010)
- Services as drivers of innovation (Muller & Zenker, 2001)
- Servitization (Howells, 2006; Vargo & Lusch, 2004)

Policy interest: service-friendly innovation policy

2. Attention for societal and region-specific issues Policy interest: meeting 'societal challenges' (Rodriguez, 2013)

How to develop service-sensitive innovation policy in accordance with socio-economic goals?



Service innovation policy

Different accounts of 'service innovation' (Coombs & Miles 2000)

Different types of (experimental) interventions (Den Hertog et al. 2010)

Existing literature focused on rationales (Rubalcaba 2006, 2010; Van Cruysen & Hollanders, 2008)

Scarce attention for how to formulate/align policy measures

Lack of structured approach for service innovation policy formulation!



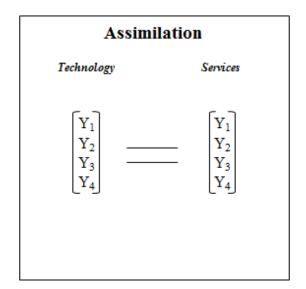
Designing policy mixes

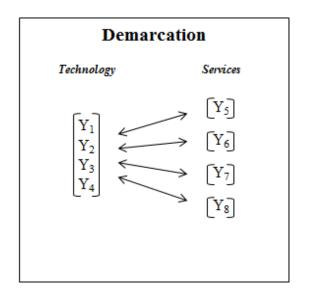
"The choice of innovation policy" (Borrás & Edquist, 2013)

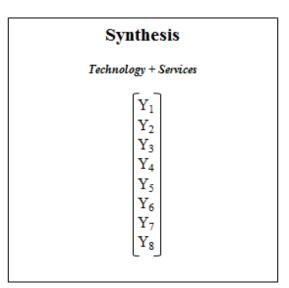
- Innovation systems / holistic perspective (Flanagan et al., 2011)
 - Policy mixes
- Functional perspective (Hekkert et al., 2007)
 - Identifying weaknesses



Schools of thought on service innovation

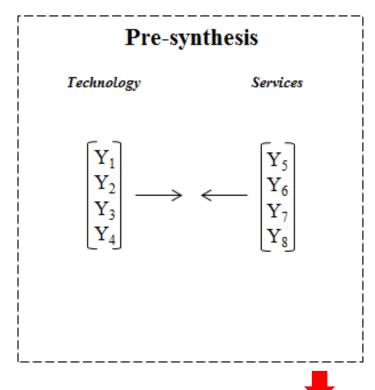


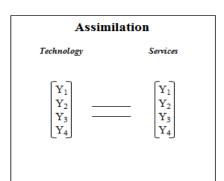


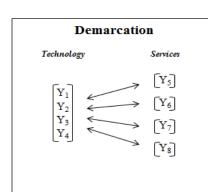


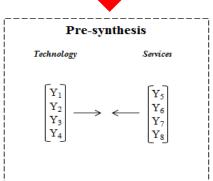


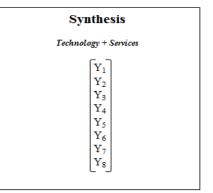
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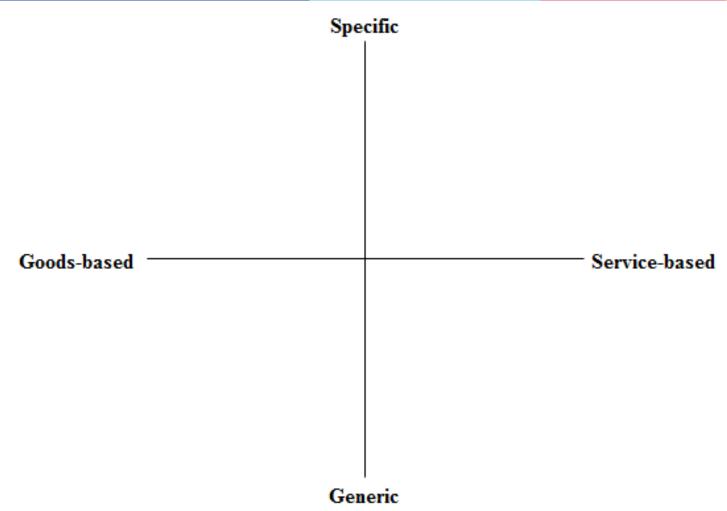




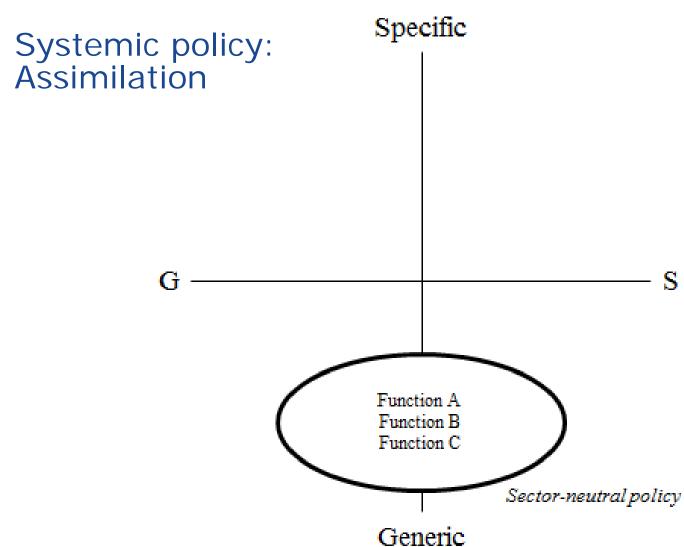




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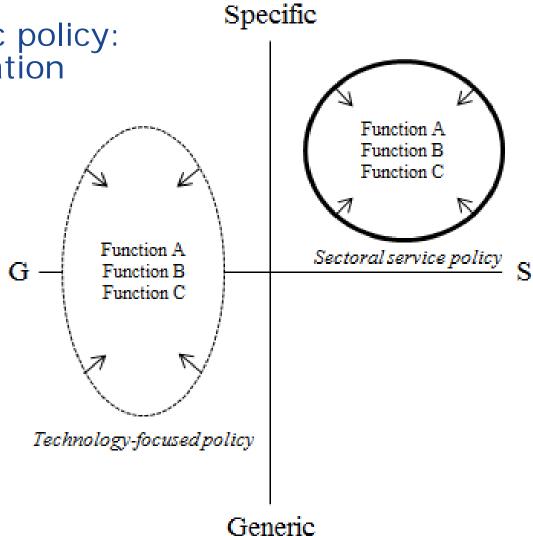








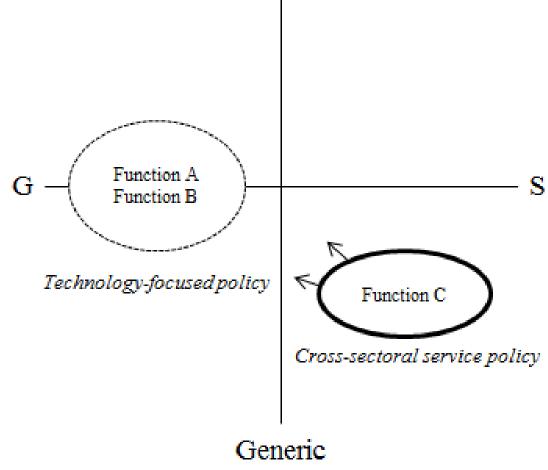
Systemic policy: Demarcation





Specific

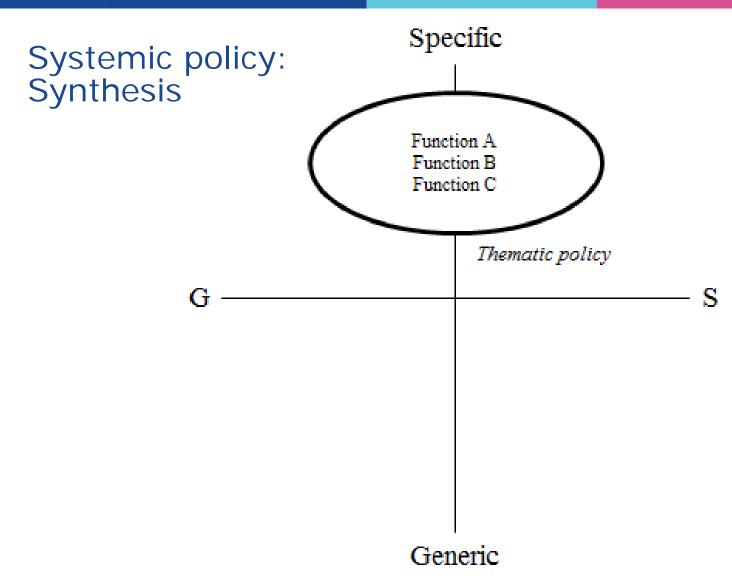
Systemic policy: Pre-synthesis



European

Commission

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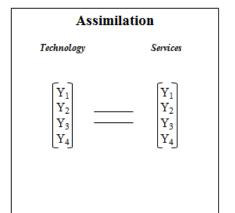


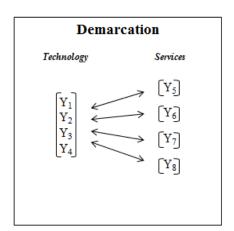


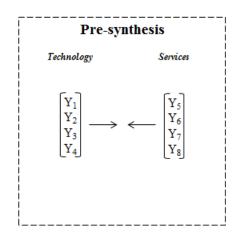
European

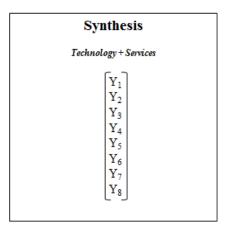
Commission

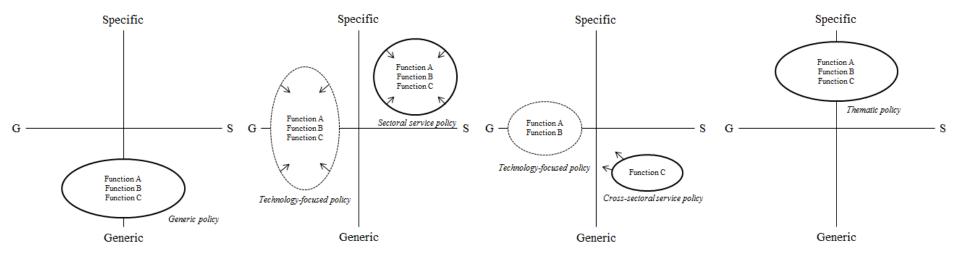
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Comparative case study

Context:

- European Service Innovation Centre (ESIC)
- Regional assessment and advise

Method:

- Desk research
- Scoreboard
- Site visit: 10 interviews
- Peer review



Upper Austria: background

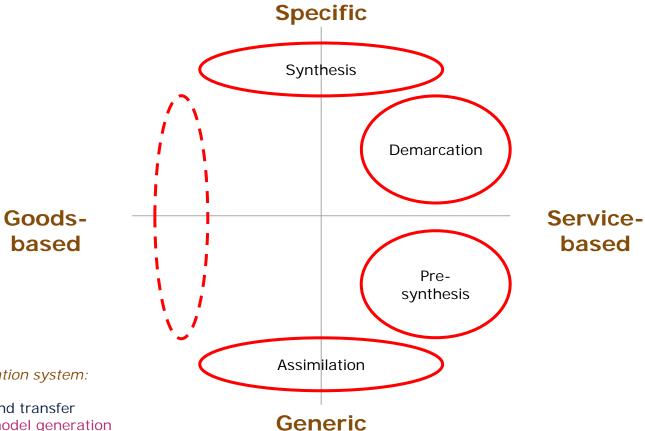
The nations' most competitive and exportoriented region: "The industrial motor of Austria"

Policy issues:

- New business models, labour market
- Meeting grand challenges in new strategic program



Policy mix (service-inclusiveness)



Affected function of innovation system: Entrepreneurial activities

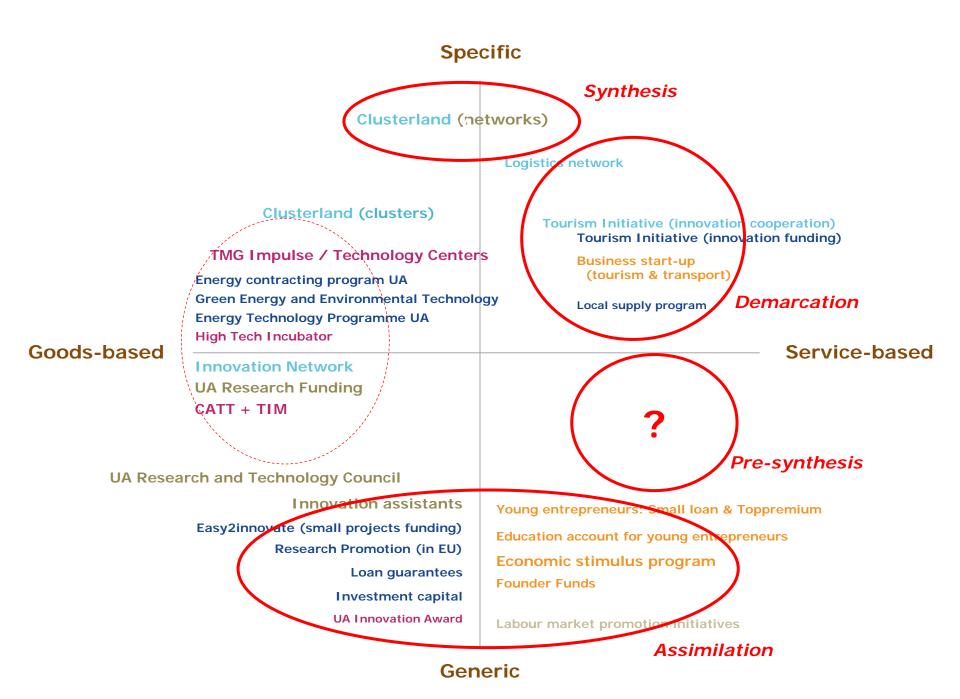
Knowledge development and transfer Innovation and business model generation Financing innovation and growth Collaboration and networking

Specific Clusterland (networks) **Logistics network Tourism Initiative (innovation cooperation)** Clusterland (clusters) **Tourism Initiative (innovation funding)** TMG Impulse / Technology Centers **Business start-up** (tourism & transport) **Energy contracting program UA Green Energy and Environmental Technology** Local supply program **Energy Technology Programme UA High Tech Incubator** Goods-Service-**Innovation Network** based based **UA Research Funding** CATT + TIM **UA Research and Technology Council Innovation assistants** Young entrepreneurs: Small loan & Toppremium Easy2innovate (small projects funding) **Education account for young entrepreneurs Research Promotion (in EU) Economic stimulus program** Loan guarantees **Founder Funds** Investment capital

Generic

Labour market promotion initiatives

UA Innovation Award



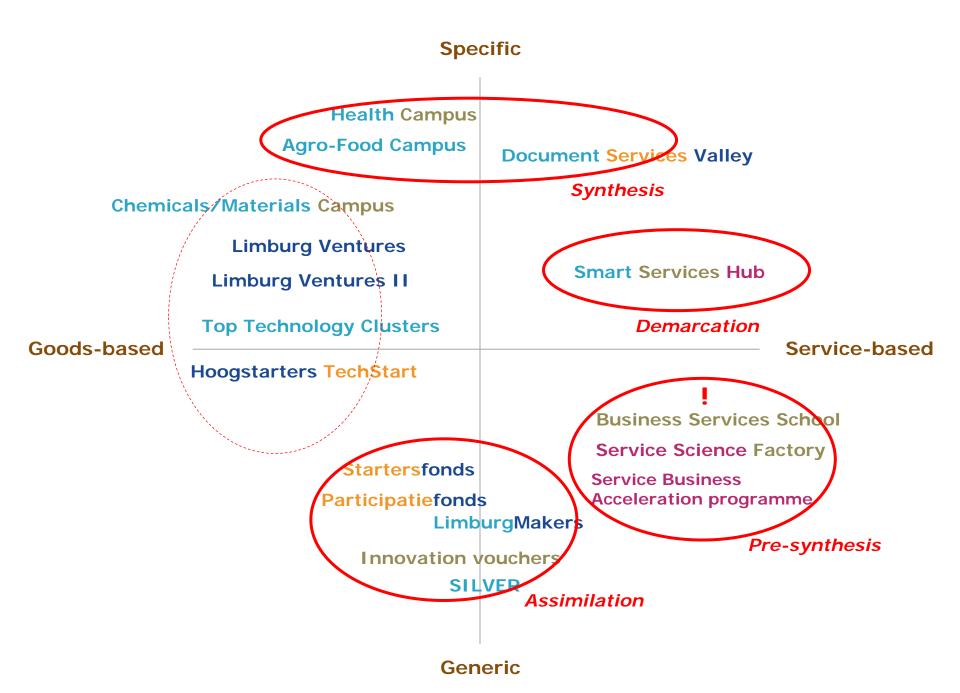


Limburg: background

Closure of mines → industrial orientation → services

Policy issues:

- Connecting service (innovation) initiatives
- Meeting societal challenges



Policy mix: Upper Austria

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Service innovation approach	Examples		System function			
		Е	K	I	F	С
1. Assimilation	Innovation assistants		Х			
Neutral measures that cover technological and	Research promotion				X	
service innovation on an equal basis	Loan guarantees				X	
	Investment capital				X	
	Innovation award			X		
	Education account for young entrepreneurs	X				
	Economic stimulus program	X				
	Founder Funds	X				
Technology-focused	Research and technology council		х			
	Innovation Network					X
	High Tech Incubator	X		X		
	Energy Technology Programme				X	
	Green Energy & Environ. Technology				X	
	Technology Centres			X		
2. Demarcation	Tourism initiative 1				X	
Sectoral (vertical) programmes for services	Business start-up (tourism & transport)	X				
	Local supply program				X	
3. Presynthesis						
4. Synthesis	Clusterland (networks)	х	Х	Х		Х
Thematic programs integrating opportunities						
from goods and services						

Policy mix: Limburg

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Service innovation approach	Examples	System function					
		Е	K	I	F	С	
1. Assimilation	Innovation vouchers		X				
Neutral measures that cover technological	Startersfonds	X			X		
and service innovation on an equal basis	Participatiefonds	X			X		
	SILVER					X	
Technology-focused	Hoogstarters TechStart	X			X		
	Top Technology Clusters					X	
	Limburg Ventures				X		
	Chemicals / Materials Campus	X				X	
2. Demarcation:	Smart Services Hub	x	X	X		Х	
Sectoral (vertical) programmes for services							
3. Pre-synthesis	LimburgMakers (Servitization part)	Х		X			
Cross-sectoral measures focused on the link	Service Science Factory		X	X			
between services and manufacturing	Service Business Acceleration Programme	X		X			
	Business Services School		X	X			
4. Synthesis	Document Services Valley	Х		X	X	Х	
Thematic programs integrating opportunities	Health Campus	X	X			X	
from goods and services	Agro-Food Campus					X	

Comparison and mutual policy learning

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Upper Austria:

- Innovation system lacks business model renewal. Policy support could take form of pre-synthesis; see measures in Limburg.
- Integrating service innovation in measures for societal challenges.
 E.g. Health-campus or Agro-food campus.
- Reducing complexity of policy mix

Limburg:

- Further on its way towards service-inclusive policy mix.
- Suggestion for assimilation: innovation awards (= meets lack of business model generation in generic innovation policy)
- Upper Austria is example for clusters that address variety of system functions and that are linked to each other

Both:

 From demarcation to (pre-) synthesis: both regions have vertical measures they want to develop further. Logistics (UA) and Smart Services (Limburg)



Conclusion

- 1. Set policy goals. Which problem: which kind of knowledge or activity is needed?
- 2. Understanding of opportunities of service innovation (incl. pre-synthesis)
- 3. Identifying appropriate modification of policy mix (by engaging in mutual policy learning)
 - Approaches as alternatives



Further research

Extend research on integrative approaches

- Cluster policy: Demarcation vs. (pre-)synthesis
 - Infusing: Chemelot (L), ClusterLand (UA)
 - Thematic: Health Campus (L), ClusterLand Networks (UA)
- Smart specialization:
 - "integrative and knowledge-based perspective on transforming economic structures"
 - "national or regional priorities and challenges, exploitation and further development of local strengths, and support for diverse forms of innovation"
 - Identifying and contextualizing synthesis measures