Smart Specialisation in the Lahti Region



Smart Specialisation with three priority areas

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Research and development input

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	Population	In	In	Degrees in	R&D	€	R&D
	in the	Polytechnics	Universities,	polytechnics	Million	resident	index
	region	share of	share of	or	euros		(whole
		people over	people over	universities,			country =
		15 years	15 years	share of			100)
				people over			
				15 years			
Urban	people	%	%	%			
Regions							
Greater	1 224 257	3,2	6,1	33,3	2 212,1	1 806,9	181,7
Helsinki							
Jyväskylä	163 390	4,7	10,3	27,4	180,8	1 106,6	124,0
Kuopio	118 050	5,6	6,2	27,3	101,2	875,3	82,6
Lahti	169 386	3,5	0,1	21,5	43,3	255,6	23,2
Imatra-	109 791	3,1	6,0	21,2	77,8	708,6	
Lappeenranta							
Oulu	202 898	3,9	9,2	29,7	663,0	3 267,7	226,4
Tampere	313 748	2,9	9,9	28,2	793,8	2 530,1	248,1
Turku	290 524	3,3	8,8	26,8	315,0	1 084,2	107,1
Vaasa	88 798	6,9	9,3	27,4	88,3	994,4	94,3
Source:							
Statistics							
Finland							
10/19/2005							

Early ideas leading to related varitety

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Regional Development Platform Method used already in year 2002-2003



- analysis of the changing techno-socio-economic paradigm and benchmarking through the assessment of regional innovation system theories and conventions
- background study of the industries and areas of expertise in the region
- expert panels
- assessment of future scenarios
- definition of potential regional development platforms
- conceptualisation of the regional innovation system
- search of core processes of the regional innovation system and
- definition of the knowledge creation and management system.

Harmaakorpi, V. (2006). The Regional Development Platform Method as a Tool for Regional Innovation Policy. *European Planning Studies*. Vol. 14, No. 8, September 2006. PF 2. **European Planning Studies Best Paper Award 2006**.

Innovation modes



- Science-based
 - Science, technology, innovation (STI)
- Practice-based
 - Doing, using, interacting (DUI)

Berg Jensen et al. 2007

Types of knowledge production



- Mode 1 knowledge production is traditional knowledge production based on single disciplines. It is homogeneous and primarily cognitive (STI).
- Mode 2 knowledge knowledge production, by contrast, is created in broader, heterogeneous interdisciplinary social and economic contexts within an applied setting (DUI).

Gibbons et al. 1994

Modes of innovation activities



Point of view	Science-based innovation (STI, Mode	Practice-based innovation (DUI, Mode	Practice-based	
	1)	2a)	innovation (DUI, Mode 2b)	
Most typical logics	Agglomeration – Clusters –	Related variety – Innovation platforms	Developing innovation capability –	
	economies of scale		breaking 'shes' and preventing bottleneck	
Most typical capital	Intellectual capital –financial capital	Social capital – institutional capital	Social capital – structural capital	
Most typical innovation types	Radical technological innovations and	Radical concept innovations –	Organisational innovations – social	
	related concepts	technological system innovations	innovations – service innovations	
Most typical innovation	Analytical	Interpretative	Interpretative	
processes				
Most typical innovation methods	Scientific methods	Methods of intellectual cross- fertilisation (also virtual)	Problem-based learning (e.g., culture- based methods)	
Most typical origins of	Science and related expertise	Networks – serendipity - customers	'Normal' staff – customers	
innovations				
Most typical fields of expertise	Scientific expertise	Brokering – general ability to build	Brokering – general ability to build	
		possible worlds	possible worlds	
Most typical types of knowledge	Explicit knowledge	Self-transcending knowledge	Tacit knowledge	
Most typical knowledge bases	Analytical	Synthelic	Symbolic	
Most typical innovation	World class scientific expertise in	Arenas of intellectual cross-fertilisation	Arenas of developing organisation al	
environments	narrow fields	in value networks	innovation capability	
Most typical knowledge transfer	Technology diffusion for the firms of	Scanning and absorbing technology and	Organisational learning	
mechanisms	cluster	market signals		
Most typical fuels of innovation	Proximity	Distance	'Near distance'	
Most typical logics of knowledge	Homogeneous knowledge production	Heteregeneous knowledge production	Heteregeneous knowledge production	
production				
Most typical target organisations	Big companies – technology gaselles	SMEs, big companies	Big companies – SMEs – public and third	
			sector	
Most typical educational	Universities	Universities – polytechnics	Polytechnics – colleges – vocational	
organisations			education	



Environment as a priority area

1980's	1990' s	19	95			
1987-1994 Vesijärvi I Ex (funded by To the city of Lahti) Biomanipul innovation	-91 HY: pertise Dept of Lahti Environment al Sciences ation	-93 Forum of Environmenta Affairs Min of Env.: also 9 ERDF I Y	Development Of environmenta Councelling Growth of Environmental consciousness 04-95 Yritys- ympäris- öseminaari	2002-20 I Vesijärv Life/ERI Start up o ERDF Developme responsibili	206 Living vi II environment DF Living LSB of Rio process nt of Environmental ty	-10 Energon Green City - Project
The depression had an impact on focusing on the environment (business opportunities)		had cusing lent	95-96 Profilation o Neopoli as and environmental Centre oNeopo	f Devel Scien li	lopment into a ce and business pałk ir Cleantech	า 2004
		nities) - g E: Si	95 Environmental xpertise – booklet tart ip of business ollaboration	[Significant role of the media	

Priority area of Environment

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Environmental projects			
	On-going projects	Completed projects	
	(1.10.2011 -)	(1.1.2000 – 30.09.2011)	
Nr of projects	9	31	
Budget/Realized total			
volume in €	11 569 529 / 1 008 370	13 222 263 / 11 699 118	
New companies nr			
- planned	14	11	
- In reality	0	4	
New jobs nr			
- planned	84	147	
- in reality	4	41	
Biggest project leaders	 Lahti Science and Business Park Culminatum Innovation Oy, The city of Lahti 	 1.Neopoli/Lahti Science and Business Park, 2. Technical and environmental services in Lahti, 3. University of Helsinki 	



Priority area of Innovation

Innovation projects					
	On-going projects (1.10.2011 -)	Completed projects (1.1.2000 – 30.09.2011)			
Projects nr	4	19			
Planned total volume in €	8 274 800	7 301 398			
New companies nr					
- planned	32	34			
- in reality	5	3			
New jobs nr					
- planned	91	193			
- in reality	14	91			
Biggest project leaders	1. Lahti Science and Business park	1. LUT,			
	2. LUT,	2. Lahti Science and Business Park,			
	3. Univ. of Helsinki, Palmenia	3. Helsinki univ. of Technology			

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Priority area of Design

Design projects				
	On-going projects (1.10.2011 -)	Completed projects (1.1.2000 – 30.09.2011)		
Projects nr	8	3		
Planned total volume in €	7 966 765	189 455		
New companies nr				
- planned	32	0		
- in reality	0	0		
New jobs nr				
- planned	62	0		
- In reality	9	2		
Biggest project leaders	 Lahti Science and Business Park Finnish Design Foundation, City of Lahti 	1. Lahti Univ. of applied sciences/ Dept of Design		

Smart Specialization by three prority areas







Smart specialisation





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Smart specialisation



Finnish Innovation Landscape





Innovations / Regional Value Added 1997-2007

Lahti Region

Lahti Region



- This development is an interesting example of the novel innovation policy that can be the named the Road of Smart Specialisation.
- Establishment of the innovation policy is based on Europe level strategies and exploitation of financing instruments deriving from the strategies
- Its role as part of the national innovation system is clear.

It is highly recommendable...



 To integrate cohesion policy together with the philosophies of Smart Specialisation and practice-based innovation and thus enhance European competitiveness.