Mats Williams





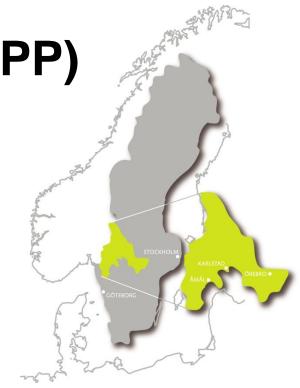


Smart Specialisation

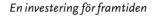
To encouraging national and regional authorities to design "smart specialisation strategies". Each region should identify it's best assets and R&I potential in order to concentrate its efforts and resources on a limited number of priorities where it can really develop excellence and compete in the global economy. The platform brings together expertise from universities, research centres, regional authorities and businesses.

= Cluster strategy and Cluster organisation work!

The Paper Province (TPP)
From white spot to a
World Class Cluster



Mats Williams









Threats







The Pulp and Paper industry 1999

- Old fashion industry
- The old economy
- Outsourcing, down sizing
- Un attractive
- Globalisation as a major threat
- Not "sexy" at all
- -"A sun set industry"







Opportunities







A cluster in pulp and paper since 150 years...

- 230 companies, The University of Karlstad and Region Värmland
- Global giants and local suppliers
- Representing the whole value-chain
 - R&D, consultants, equipment & process suppliers, machinery manufacturers, pulp and paper mills
- Represented in >100 countries worldwide
- (Great importance for regional and national economy)
- 7 of the big companies wanted a change



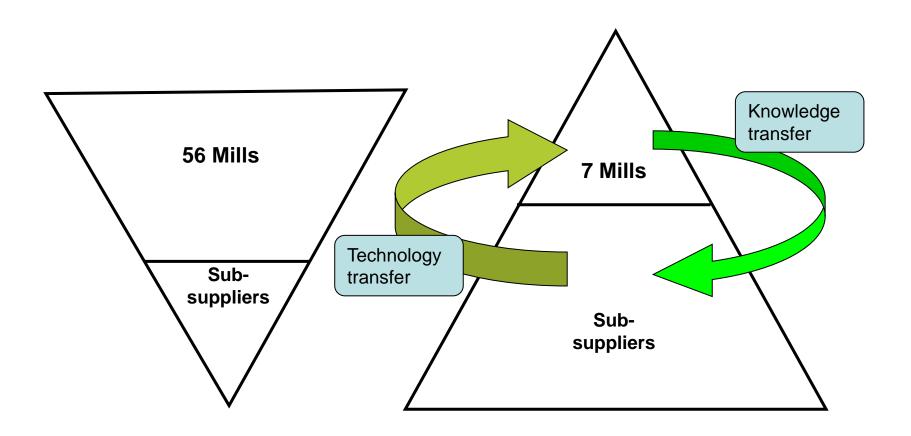




A urgent need for a change!



Reconstruction of a mature cluster

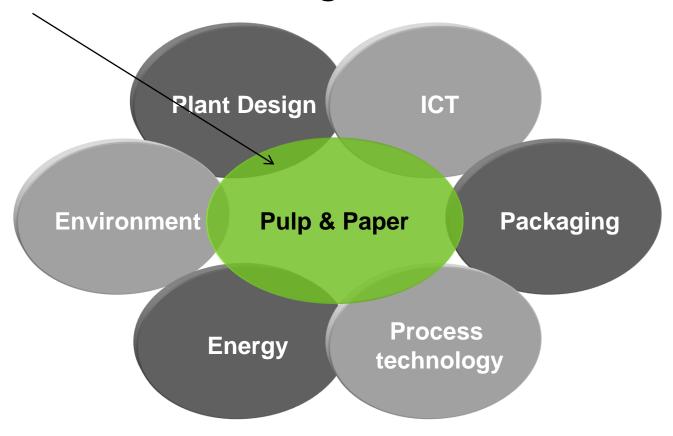








Identified growth areas









From 7 to 92 Global Giants and local suppliers

















www.karistad.se



Region

Värmland



























SOGETI















































































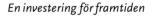






Pulp & Paper



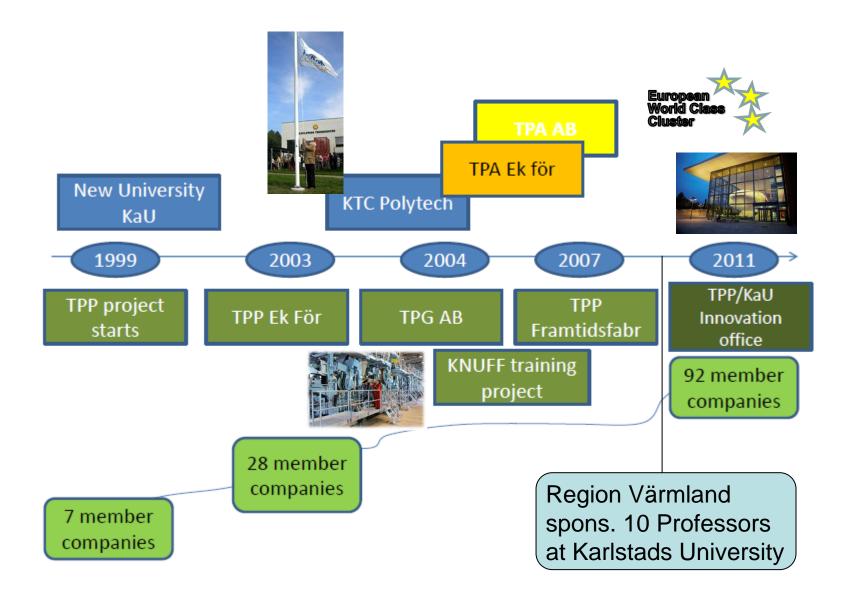


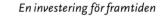
















Cooperation with KaU

Contact Person at KAU	Department at KAU	Nature of (Cooperation Brid	ef Description of Coop	peration			
Magnus Lestelius	Faculty of technical	Pro Retrospect		Department at KA	Nature of Cooperatio	n Brief Description of Co	ooperation	
and natural science			The Packaging Arena		ber Project	2003-2005 A start up of th		
				of scientific and	Contact Person at	Department at KAU	Nature of Cooperation	Brief Description of Cooperation
				education board	KAU			
				faculties and department	Magnus Lestelius	Faculty of technical and natural science	Project	2011 The start of GOP2 – Growth Office of
			The B2 process	Rector office, Mem				Paper Province, an innovation office that open
			The DZ process	of scientific and				up the university to become a service provider
				education board a				for innovation projects in cooperation with
Bengt Månsson	Department of Energy,	Due		faculties and				P&P related companies. The main goal is to shorter the lead-time from idea to market and
Bengt Wansson	Environmental and Building			department				at the same time provide the possibility to
	Technology		Spetskompetensen	Administration				commercialize research findings from the
								university.
					Bengt Månsson	Department of Energy,	Duningt	VARMEEKOM - Varme Energi Kompetanse
					Bengt Wansson	Environmental and Building	Project	Oppbyggning i Inre Scandinavia (Development
			Fiberteket/Teknikklubb	en Rector office		Technology		of University Energy Courses). The three-year
Ulf Germgård	Professor, Faculty of	Meetin		Cii Neetor omee				project's total budget is nearly 15 million,
	technical and natural							making it one of the largest development
	science							projects in area of education at Karlstad
								University. TPP is partner in the project.
Håkan Spjut/Patrik	Grant & Innovation	frequen	Strategic group for	Rector office	Ulf Germgård	Professor, Faculty of	Meeting forum	SFoET (Skogsindustriell förädling och
Bångerius/Lee Miles	Office		cooperation			technical and natural		energiteknik): A forum of science where
Jungenius, 200 miles	5					science		the Academy meet the industry and
			Education and scientif	ic Member of scienti				discuss specific research findings etc.
Caroline Åhs	Coordinator of	frequen		and education boar	Håkan Spjut/Patrik	Grant & Innovation	frequent contact	Activities and advising support in
	collaboration			faculties and	Bångerius/Lee Miles	Office		collaboration between public service,
Hanne Randle	Researcher at	Pro		department	80,			academic and industry
	department of working		Röda	Rector office and				and massi,
	life science		tråden/Teknikerjakte	n various faculties	Caroline Åhs	Coordinator of	frequent contact	Activities against students, SME
Carl Zotterman	Member of scientific	Meting				collaboration		business and partner companies
Carr Zotterman	board, Paper Surface	ivietili	HotSpot	Student collaborati	Hanne Randle	Researcher at	Project	Ongoing research-evaluator of the
	Centre		Посэрос	Student condborati		department of working	,	project KOM-INN!
Voustin Noué:		- Fun au				life science		
Kerstin Norén	Rector office	Frequen	Skogsindustriellt centru	m Rector office and t	Carl Zotterman	Member of scientific	Meting forum	Paper Surface Centre is a research
			and Industrirådet	faculty of Nature a	San Lotterman	board, Paper Surface	Miching for all	centre for future sustainable functional
				Science		Centre		surfaces of paper and paperboard.
					Konstin Noué:		Franciant control	
				F	Kerstin Norén	Rector office	Frequent contact	Lobbying and other regional
				En investering for				development issues.

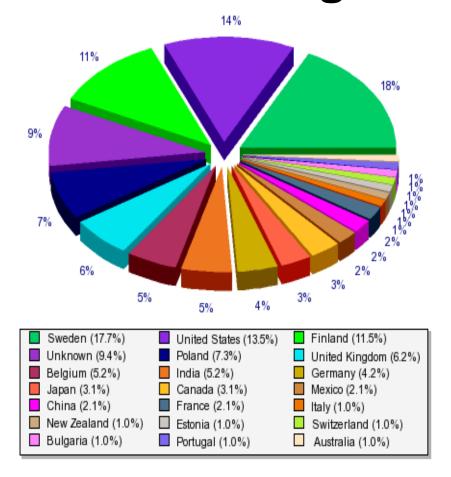






Internationell marknadsföring







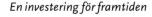




TPP and Regional Development

Soft facts

- Cooperation education
- Growth of companies
- Symbol for successful business development
- From production driven to market driven mindset
- FROM DUSK TO DAWN









Hard facts 2007 - 2011

27 new companies in the region (purchase ore new companies). The worlds 4 leading Paper machinery producers are represented in the region since 2007.

Needs for 250 new employees 2011-

Close to 50% of the member companies are now owned by international companies!

One of Europe's 100 World Class Clusters (Cluster

Observatory 2010)





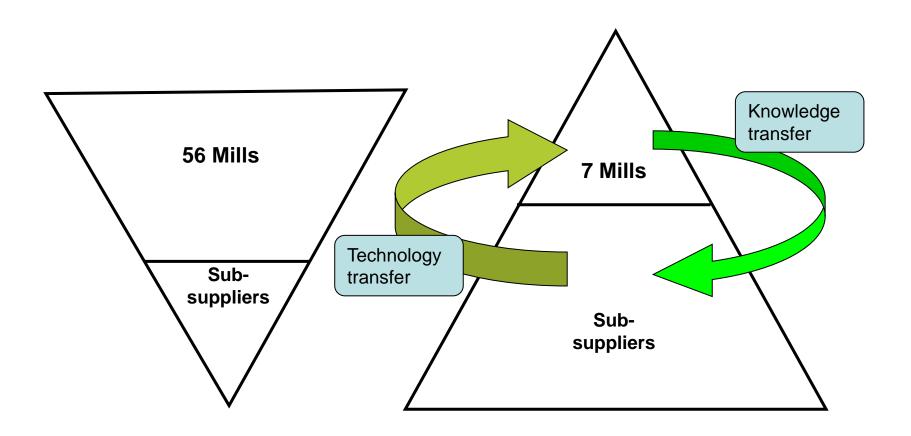






Does the strategy work?

Reconstruction of a mature cluster

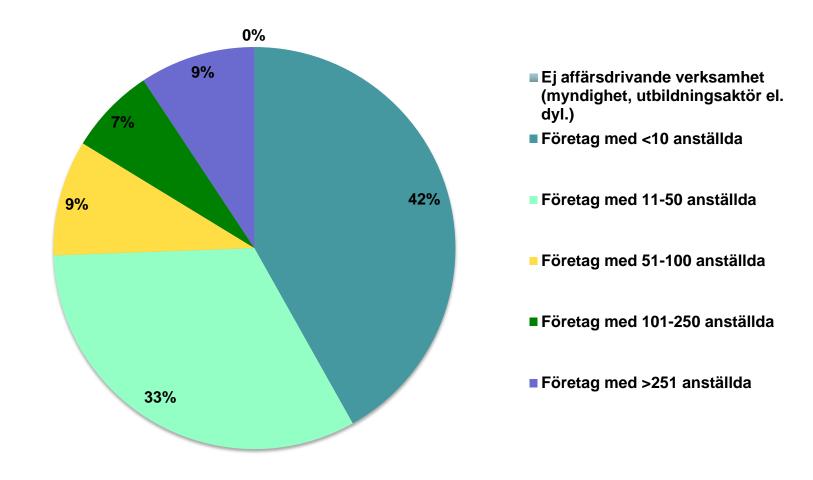








Type of cluster companies TPP 2012



More than ¾ are Small – Medium Size Companies

What's up? **2012**

The reason for smart specialisation in the Värmland region

Conclusions...

2010 Cluster structure in Värmland and part	
of total	Proportion
Number of companies (limited liability	
company)	2%
number of employees	23%
turnover	27%
Growth in sales (2006-2010)	45%
Growth in value added (2006-2010)	56%

Clusters: Compare, Stål & Verkstad, The Paper Province. (Only Ltd. liability companies)

... few means a lot to the growth



A 5 year agreement of cluster development 2013-2018 3 cluster initiatives

- The Paper Province, based on the pulp and paper Industry
- Compare, ICT sector
- Stål & Verkstad, the regional steel and engineering industry



4 priorities 2012

- Investment promotion
- Internationalisation Norway and...
- Local clusters work
- Clusters strategic development

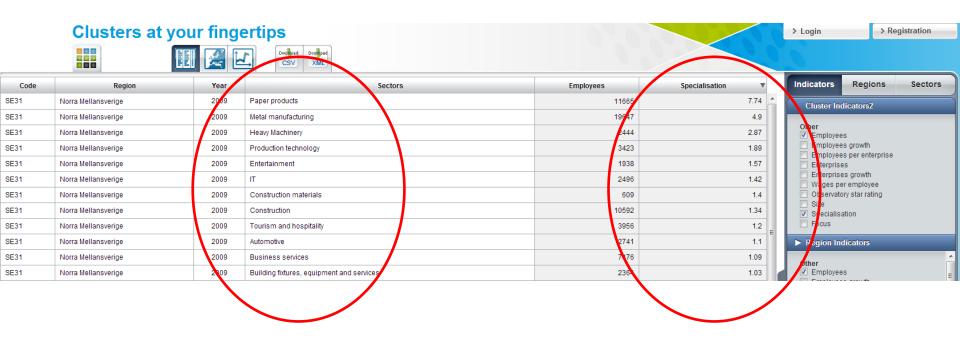
and 5 strategies 2012

- 1. Leadership
- 2. Business Development
- 3. Entrepreneurship and Innovation
- 4. Competence
- 5. Research



Smart Specialization

Example NUTS II – North Central Sweden data



The Cluster Observatory offers data on over 600 industries in over 400 regions (EU +) where a region has a specialisation advantage (2011 data and historical data)

The Evaluation Model - Four Complementary Components

1. Company Financial Performance

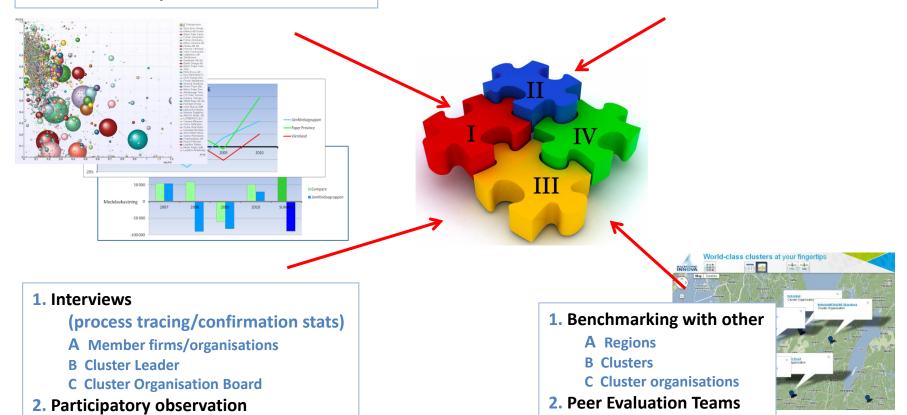
(Collection/Cluster definition/Control groups)

- A Value added
- **B** Wages
- **C** Profitability

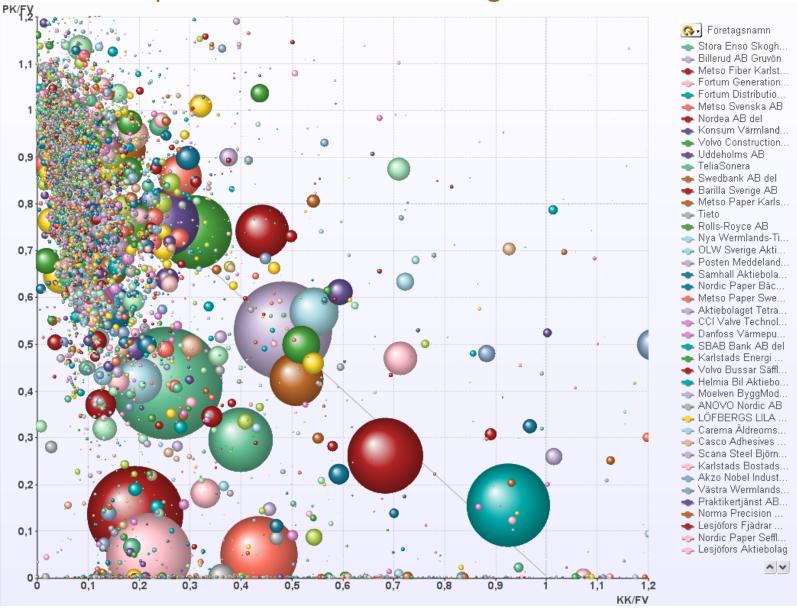
2. Statistical Analysis

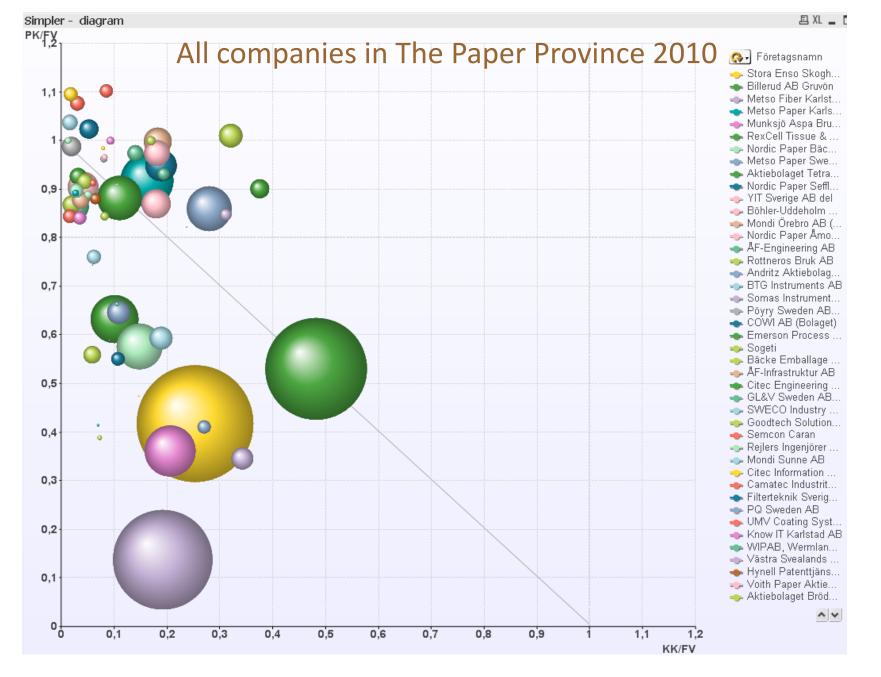
Surveys

- 1. Surveys of member firms/organisations in cluster
- 2. Surveys of cluster organisations
- 3. Surveys of social media (text analysis)



All companies in the Värmland region 2010





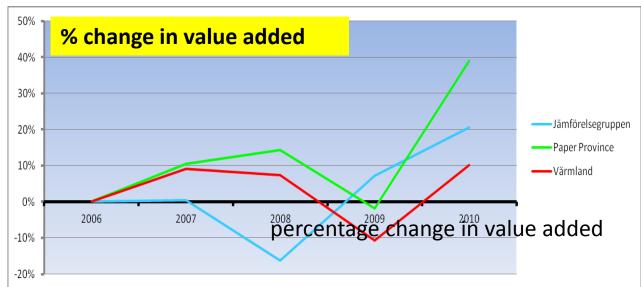
Kluster performance in the SLIM region Measurement over 5 years based on 3 indicators

Cluster Observatory
SIMPLER Analysis
Comparison of 12 Clusters in a European Region 2006 - 2010 (unidentified names)

		Value Added Gi		Profitability % of Value Added				Wages per employee						
Total Rank	Cluster	Cluster Peer	Diff		Rank	Cluster	Peer	Diff	Rank	Cluster	Peer E	oiff	Rank	SUM
1	Α	38%	21%	17%	3	5%	-13	% 18%	2	179	% 7%	10%	1	6
2	В	27%	-1%	28%	2	12%	7'	% 5%	6 <u>6</u>	169	% 8%	8%	2	10
3	С	8%	-6%	14%	4	12%	-4	% 16%	3	39	% -2%	5%	4	11
4	D	67%	21%	46%	1	12%	7'	% 5%	6	139	% 11%	2%	6	13
5	E	-11%	-8%	-3%	12	10%	-16	% 26%	5 <mark>1</mark>	129	% 9%	3%	5	18
6		16%	4%	12%	6	-2%	1	% -3%	11	179	% <u>9</u> %	8%	2	19
7	G	40%	28%	12%	6	3%	-2	% 5%	6	119	% 10%	1%	8	20
8	Н	31%	18%	13%	5	5%	5	% 0%	5 <mark>10</mark>	139	% 11%	2%	6	21
9	1	18%	11%	7%	9	0%	-15	% 15%	6 <mark>4</mark>	119	% 11%	0%	9	22
10	J	29%	20%	9%	8	7%	1	% 6%	5 <u>5</u>	89	% 15%	-7%	12	25
11	K	33%	26%	7%	9	9%	8	% 1%	5 <mark>9</mark>	139	% 13%	0%	9	27
12	L	45%	38%	7%	9	-4%	12	% -16%	12	109	% 14%	-4%	11	32



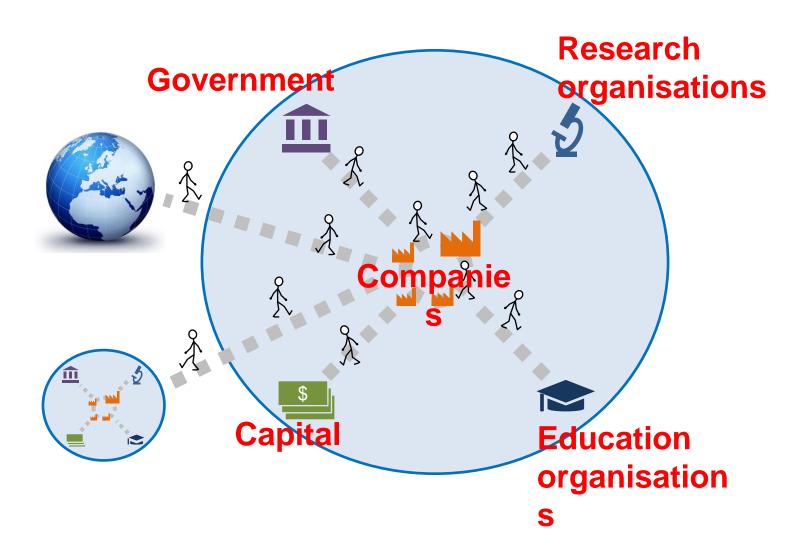
Cluster Alfa



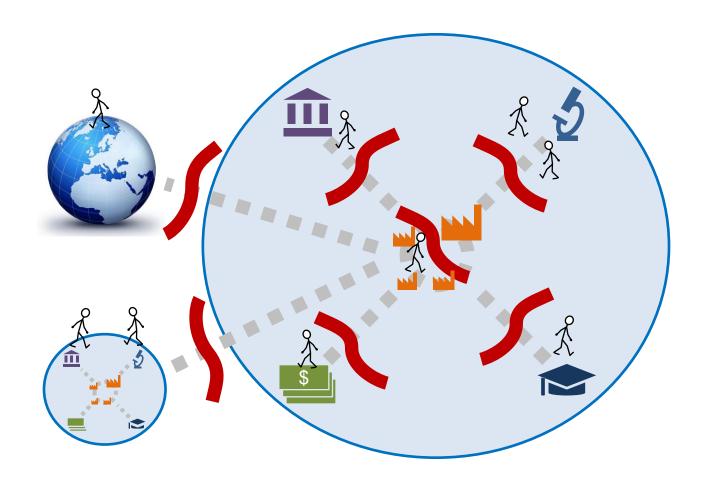
4 of 5 years of better performancet than peer region.



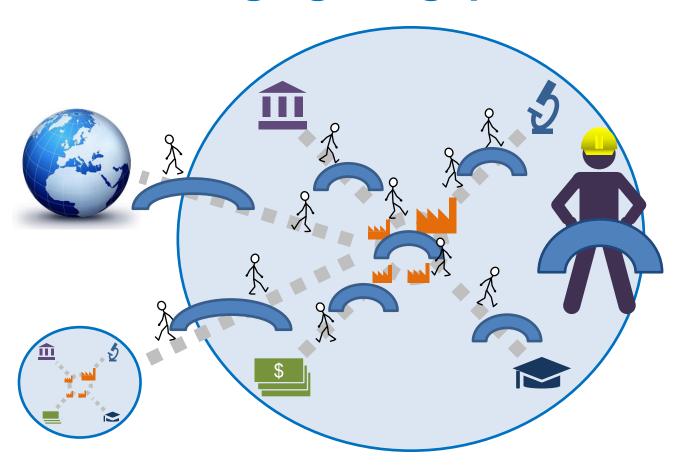
The dream of dynamic clusters



...and the reality. (The 7 gaps of innovation)



The dream of dynamic clusters Bridging the gaps



= Cluster organisations are for!

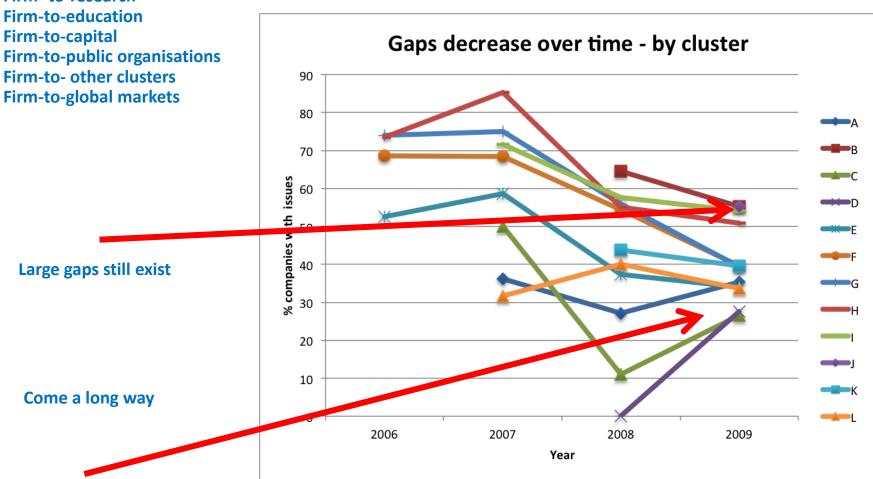
Results



Measured the degree of networking across innovation gaps:

Firm- to- firm (SMEs cooperate with large firms)

Firm-to-research





Some clusters are much better at networking across the innovation gaps = area where **SLIM** helps out with learning across clusters Some clusters exhibit a negative development after the 2008 crisis

Results – Innovation Performance

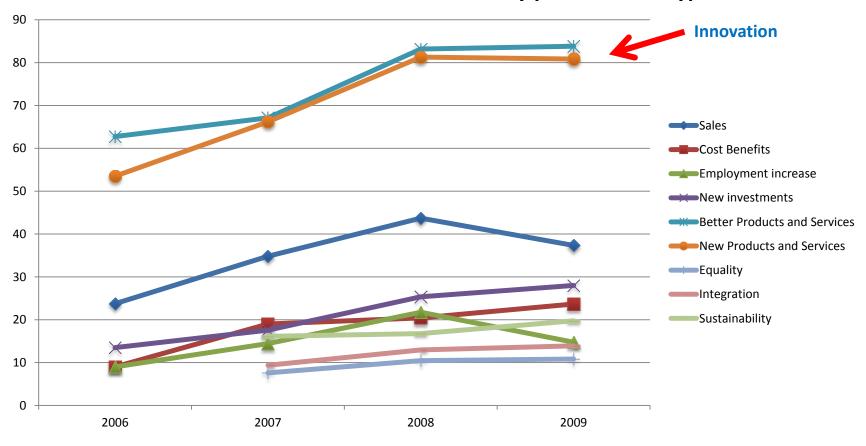




Cluster Firms have improved their innovation performance significantly by being members in clusters

Moderate effects on sales performance and very limited effects on equality and sustainability

Performance increases over time - by performance type



Thank You!

