Clusters and Cluster Policy in Europe

Professor Örjan Sölvell
1. EU and Clusters

2. Science – Innovation – Clusters

3. The European Cluster Observatory
WHAT THE EUROPEAN UNION DOES BY SUBJECT

- Agriculture
- Audiovisual and Media
- Budget
- Competition
- Consumers
- Culture
- Customs
- Development
- Economic and Monetary Affairs
- Education, Training, Youth
- Employment and Social Affairs
- Energy
- Enlargement
- Enterprise
- Environment
- External Relations
- External Trade
- Fight against fraud
- Fisheries and Maritime Affairs
- Food Safety
- Foreign and Security Policy
- Humanitarian aid
- Human rights
- Information Society
- Institutional affairs
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- Justice, freedom and security
- Public Health
- Regional Policy
- Research and Innovation
- Taxation
- Transport

http://europa.eu/index_en.htm
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The EU Role:
1. Inspire
2. Fact-based Policy
3. Cluster networking
4. Cluster manager training
5. Policy learning
Critical Parts of the Lisbon Strategy:

• Research (ERA, 3% of GDP 2010, FP 7)
• Innovation
• Intellectual Property (EU Patent)
• Competition (Internal market)
• Public-private cooperation
  (European Technology Platforms)
• Supporting SMEs

EU and Clusters

Competitiveness
Innovation
Clusters

• Industry & Enterprise
• Regional
• Science
EU and Clusters – a Background

First meeting by DG Enterprise in Luxembourg in 2003 – Focus on clusters

Several studies around the time of accession of EU-10 countries: Phase I = map clusters of Eastern Europe

Database part of Europe INNOVA/PRO INNO/Cluster Alliance: Phase II = European Cluster Observatory

Need for better informed policies – number of cluster programs and cluster initiatives growing rapidly - European Cluster Memorandum 4x5 Principles

New call in 2008 under CIP: Phase III
Europe is not narrowing the innovation gap to the U.S.

Innovation takes place in clusters.

Europe can build world-class clusters through:
1. Pushing the internal market,
2. Strengthening the general environment for research and innovation,
3. Strengthening cluster programs and initiatives,
4. Forming European-wide programs for transnational cluster interaction.

Many EU initiatives have been launched: DG Enterprise, DG Science, DG Regio, and the Committee of the Regions. The Competitiveness Council has identified clusters as one of nine priority actions.

Many national and regional initiatives are well under way.
• Now we need an innovation and cluster strategy!

• We need better and deeper information through the Cluster Observatory!

• And we need a European high-level Advisory and Monitoring Group for Innovation and Clusters!
Milestones – Cluster Policy

Stockholm January 2008 (Chair: Slovenia/Sweden)

Lyon October 2008 (INNOVA)

Sophia Antipolis November 2008 (Chair: France)
Future: DG Enterprise and Clusters

Cluster policy group
- Around 20 people
- Policy, industry, experts
- 18 month work
- Secretariat

European Cluster Observatory
- New data and analysis
- Platform for SMEs – find out value of clusters

European Cluster Alliance
- INNO-Net
- Think tank
- Study teams
- Continue to promote the Memorandum

Cluster Academy
- Training of cluster managers
- Certification

Cluster Innovation Platforms
- Energy
- ECO-innovation
- Biotech
Future: DG Regio and Clusters

Regions for Economic Change 2007-2013

Interreg IV C: Innovation & the Knowledge economy (Environment & Risk prevention)

Cluster & Cities Network: Improve Cluster Policy Support in City Regions:

Lyon (lead partner)
Barcelona
Munich
Dortmund
Leipzig
Manchester
Helsinki
Budapest
Gothenburg
Eindhoven
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Clusters = Innovation

Each region’s number of cluster stars (log) vs its number of patents (log), adjusting for country-level differences other than cluster strength.

Source: The European Cluster Observatory

$R^2 = 0.357$
Clusters

Menlo Park
Palo Alto
SLAC
Stanford
Cupertino
Palo Alto
Menlo Park
SLAC
Stanford
Cupertino

Industry:
- Buyers
- Suppliers
- Related industries
- SMEs
- Services

Finance:
- Banks
- Venture Capital
- Business angels

Public bodies:
- Regional authorities
- Agencies

University:
- Colleges
- Tech transfer offices
- Laboratories

Organisations for Collaboration:
- Formal and informal networks
- Trade associations
- Cluster organisations

Media
CERN and Geneva

- Genthod
- Pregny
- Geneva
- Annemasse

SLAC and Silicon Valley

- Menlo Park
- Palo Alto
- Stanford
- Cupertino

R&D + Innovation & Clusters
JINR and Dubna

Joint Institute for Nuclear Research (JINR):

18 members (Armenia, Azerbaijan, Belarus, Bulgaria, China, Cuba, Czech Republic, Georgia, Kazakhstan, Moldova, Mongolia, North Korea, Poland, Romania, Russia, Slovakia, Ukraine, Uzbekistan, Vietnam)

Founded 1956

8 laboratories and university centers

5,500 staff + 1,200 researchers (>1,000 PhDs)

Free Economic Zone:

Registered 2,000 start-ups in 2 years, including the firm IBS
New state corporation for nano-technology (5.5 billion USD)
Europe needs to shift focus from R&D and Science to Innovation and Clusters
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European Cluster Observatory
www.clusterobservatory.eu
Star map

Forest Products regional clusters in Europe
1, 2 and 3 star regional clusters

Småland med öarna (Växjö), SE

Forest
Agglomeration: ★★★
Innovation: High
Exports: Very strong

Legend:
- 3 stars
- 2 stars
- 1 star

Please click on a region to see more information.
- blue background indicates that the cluster is situated in a region with high innovation performance and that the country has very strong exports in the given cluster category.
Karlstad – Pulp and Paper
## Organisation Table

### Forest Products regional clusters in Europe
1, 2 and 3 star regional clusters

<table>
<thead>
<tr>
<th>Logo</th>
<th>Organisations</th>
<th>Region</th>
<th>Clusters</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="The Paper Province Logo" /></td>
<td>The Paper Province</td>
<td>Norra Mellansverige (Gävle), SE</td>
<td>Forest Products</td>
<td><a href="http://www.paperprovince.com">www.paperprovince.com</a></td>
</tr>
<tr>
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<td>Hedmark og Oppland (Lillehammer), NO</td>
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<td><a href="http://www.tretorget.no">www.tretorget.no</a></td>
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<td>Basque Paper Cluster</td>
<td>País Vasco (Bilbao), ES</td>
<td>Forest Products</td>
<td><a href="http://www.clusterpapel.com/ingles">www.clusterpapel.com/ingles</a></td>
</tr>
<tr>
<td><img src="image" alt="Central-Transdanubia Wood and Furniture Industry Cluster Logo" /></td>
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<td>Kozep-Dunantul (Székesfehérvár), HU</td>
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<td><a href="http://www.kdrfu.hu">www.kdrfu.hu</a></td>
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<tr>
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<td>Toscana (Florence), IT</td>
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<td><a href="http://www.distrettocartario.it">www.distrettocartario.it</a></td>
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<td>Steiermark (Graz), AT</td>
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Adding new members....
National cluster programmes

• National cluster programmes are found in 26 out of the 31 countries.

• In total 69 national cluster programmes have been identified.

• The majority of the countries have one or two programmes.

Cluster policies gaining momentum

• Cluster policy is still at an early stage in many countries. Around half the countries started applying cluster policy only after 1999.

EU and Clusters

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Tack!

www.clusterobservatory.eu