

# Cross-border governance networks: the case of Basel

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# MetroNet (2010–2012)

- ▶ Objective: to analyse the process of building Cross–Border Metropolitan Regions (CBMR) in Europe
- ▶ We examine the effect of policy networks dedicated to strategic planning and territorial promotion and evaluate their capacity to promote cross–border governance regimes
- ▶ A relational approach to the study of the construction of CBMR
  - Does not limit the analysis to predefined territorial configurations or geographic scales & transcends static definitions of space

# Research questions

- ▶ Who are the actors involved in the policy networks and what determines their relationships?
  - Policy network analysis (following Knoke et. al. 1996)
- ▶ Does geography matter to the interaction between policy actors?
  - Spatial variables (Amin & Thrift 1994)
  - Actor attributes and preferences (i.e. homophily)
- ▶ Can relational structure be attributed to differences in policy outcomes?
  - Exceptional actors (Christopoulos 2006 & forthcoming)
  - Power and resource differentials

# Case studies

- ▶ Selected on the basis of the level of their cross-border integration
- ▶ Focus on Basel Metro Area

		Market-driven integration	
		<i>Strong</i>	<i>Low</i>
Policy-driven integration	<i>Strong</i>	Basel	Lille
	<i>Low</i>	Luxembourg	Vienna-Bratislava

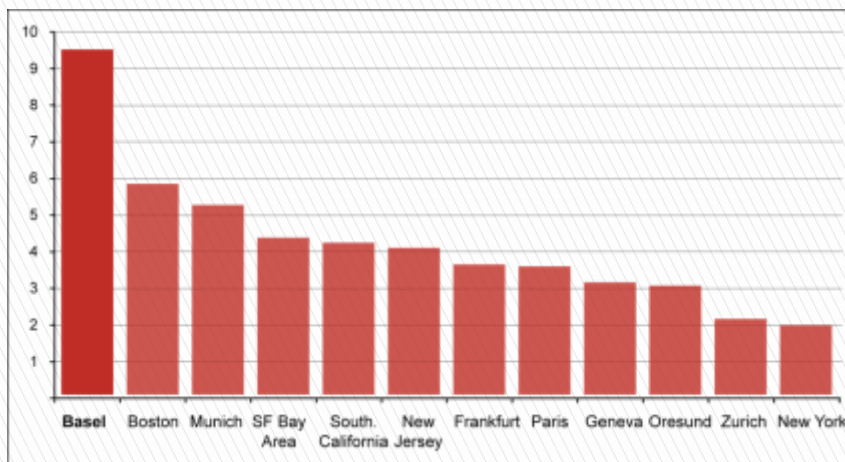


Source: Metroborder, 2010

# Basel: culture and life sciences

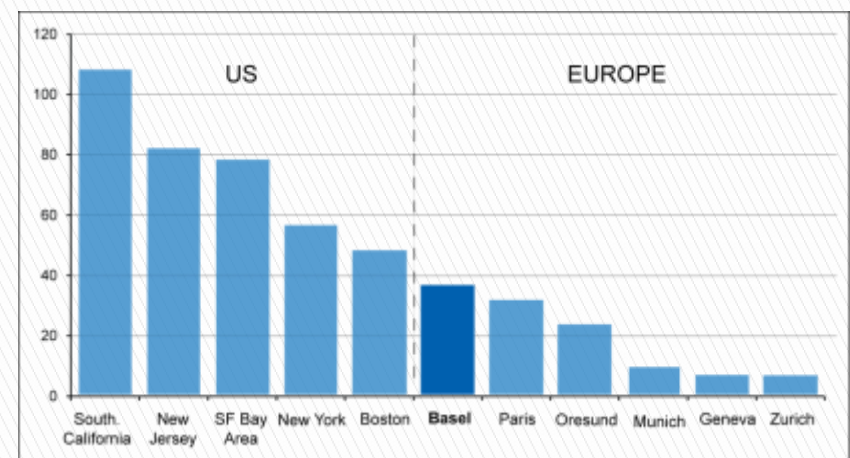
- Art Basel: the world's premier international art show for modern and contemporary works
- Highest share of R&D in GRP in the world
- Largest number of employees in life sciences in Europe

Share of expenses in R&D in GRP, in %, 2008



Source: BAK Basel 2008

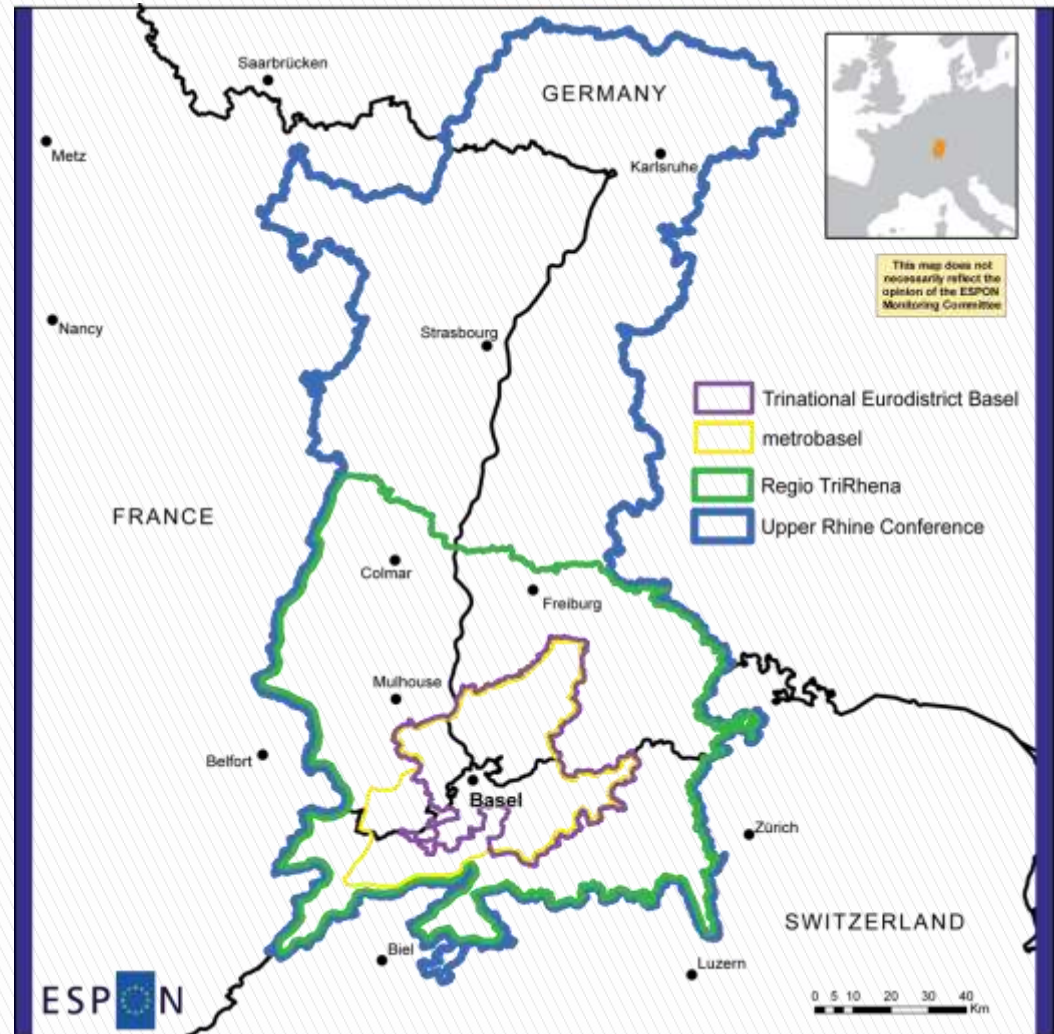
Life-science employment, '000, 2008



Source: BAK Basel 2008

# Cross-border cooperation in Basel

- ▶ Long history of CB cooperation between Switzerland, France and Germany (1960s)
- ▶ Six CB institutions:
  - Regio Basiliensis (1963)
  - Upper Rhine Conference (1975)
  - Regio TriRhena (1995)
  - Rhineland Council (1997)
  - metrobasel (2005)
  - ETB (1997, 2007)



Source: Metroborder, 2010

## 2-mode analysis: a first explanatory step

- ▶ Data has been collected on the membership of the institutions promoting cross-border cooperation
- ▶ 334 different members
- ▶ 10 types of actors, including:
  - Firms
  - Local, regional or state authorities
  - Chambers of commerce and professional associations
  - Education and research
  - CB structures
- ▶ 3 national categories:
  - Swiss (244),
  - German (51)
  - French (39)

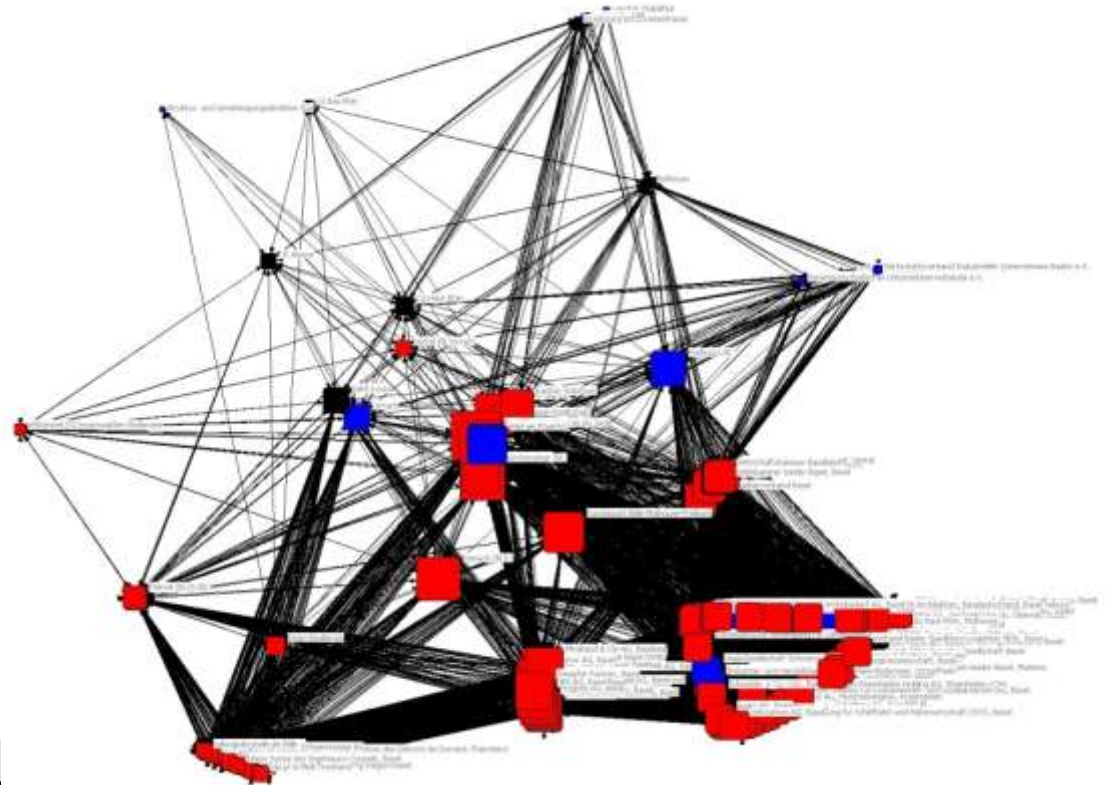


# Elementary network characteristics (1)

- ▶ Typical of 2-mode networks this is a very dense network with almost half of possible ties present (global density of 0.46)

**Basel graph weighted by degree**

Swiss (red), German (blue) and French (black) actors, MDS (334 actors)



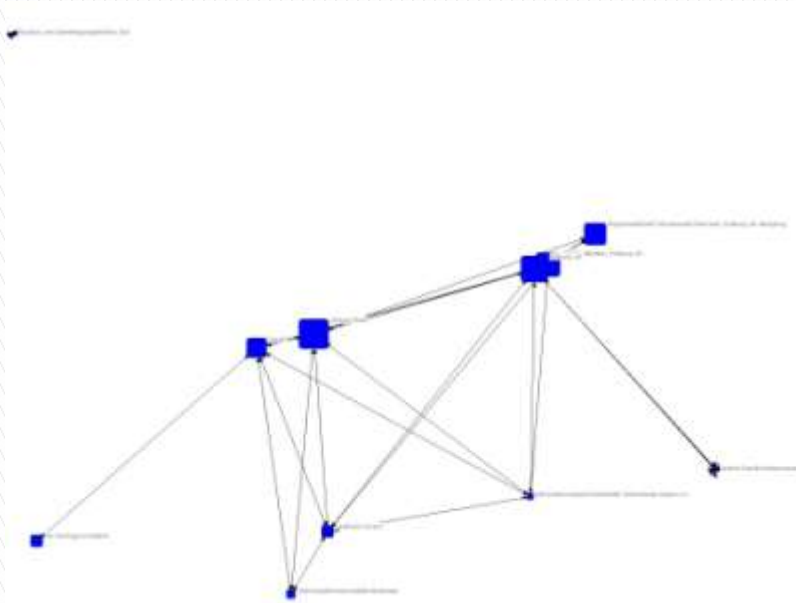


## Elementary network characteristics (2)

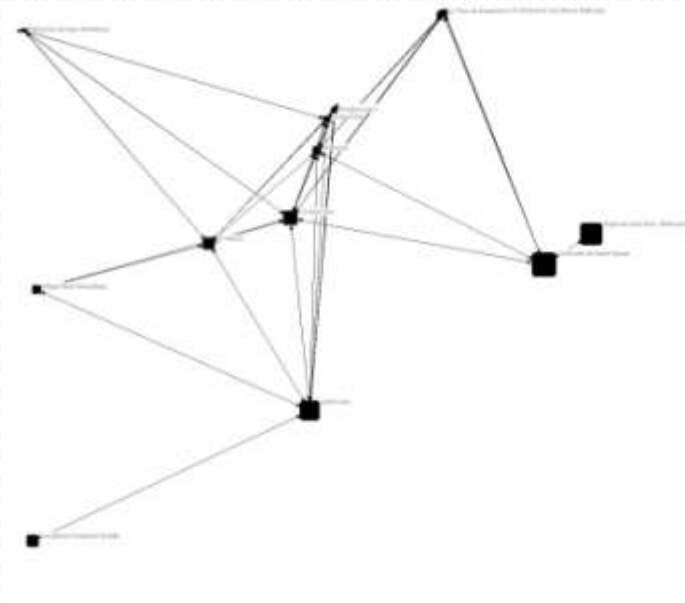
- ▶ Centrality profiles of the different nationality cohorts vary considerably
  - The Swiss comprise four identifiable clusters
  - The most central among the French are peripheral within their own network but relatively central in the “global” network (i.e. network brokers)
  - There are two components to the German network
- ▶ There is evidence of negative homophily in regards to nationality of actors (rescaled E-I index  $-0.62$ , significant at  $p < 0.05$ )



## Basel graphs weighted by degree (2)

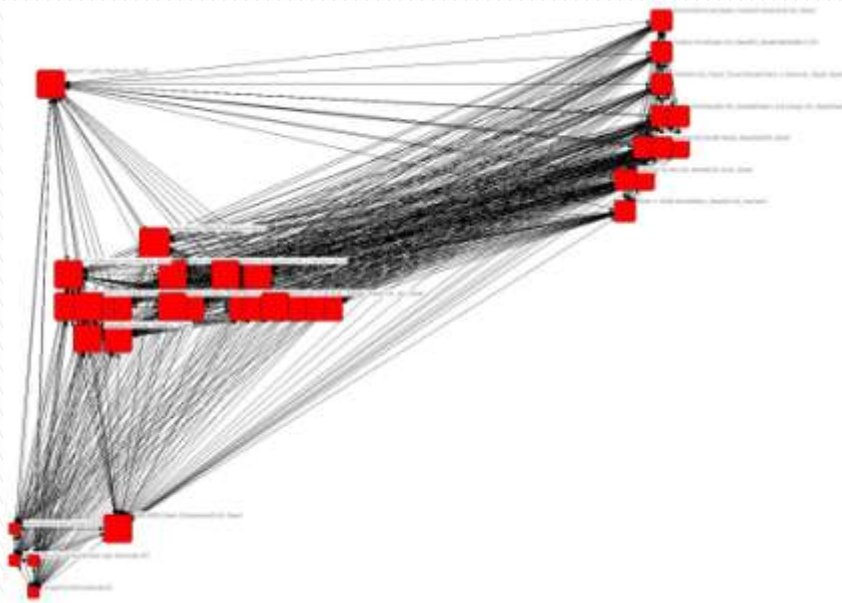


German MDS (51 actors)

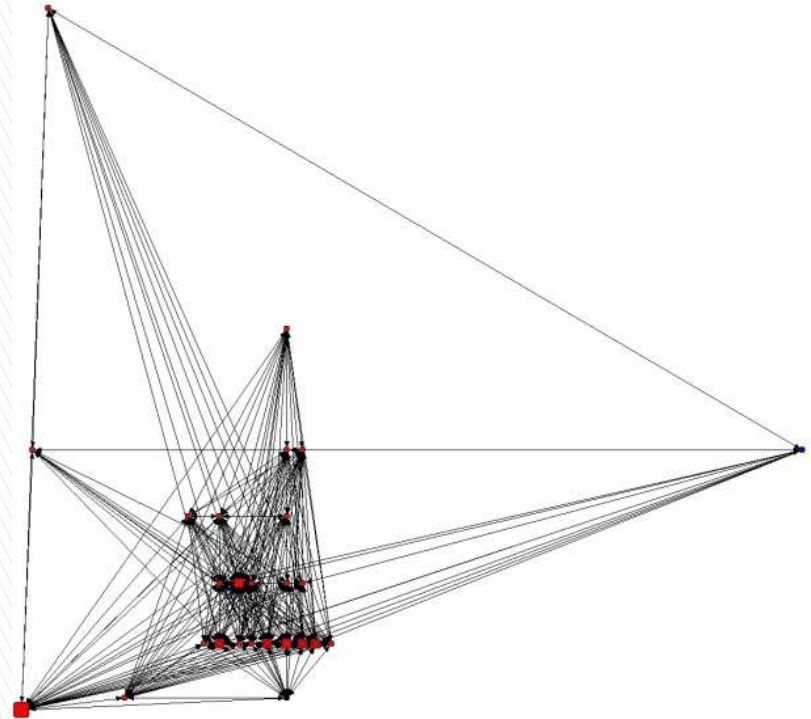


French MDS (39 actors)

# Comparing MDS with geography for corporate actors (162 actors)

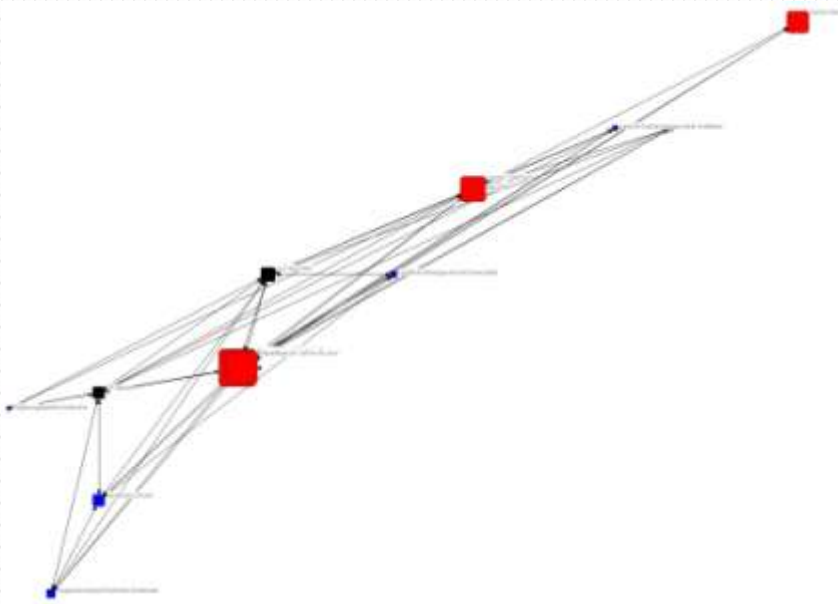


MDS firms weighted by degree

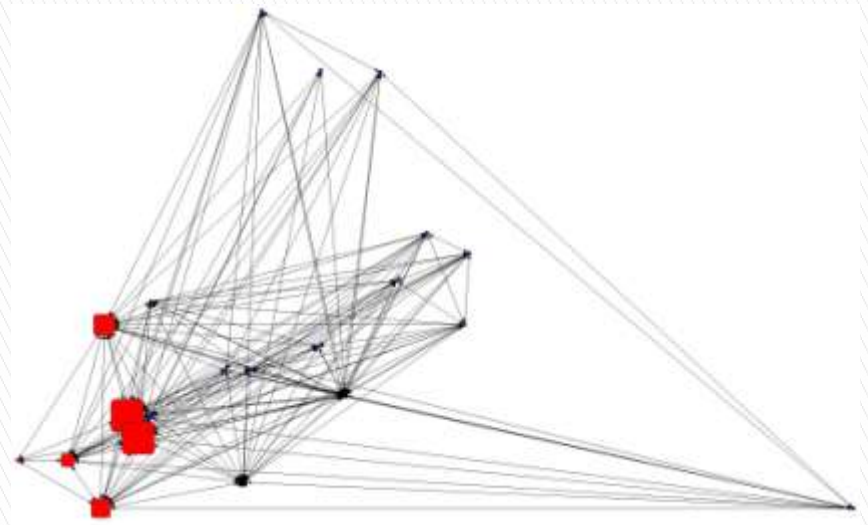


GEO firms weighted by degree

# MDS with GEO regional authorities (23 actors)



Regional authorities MDS



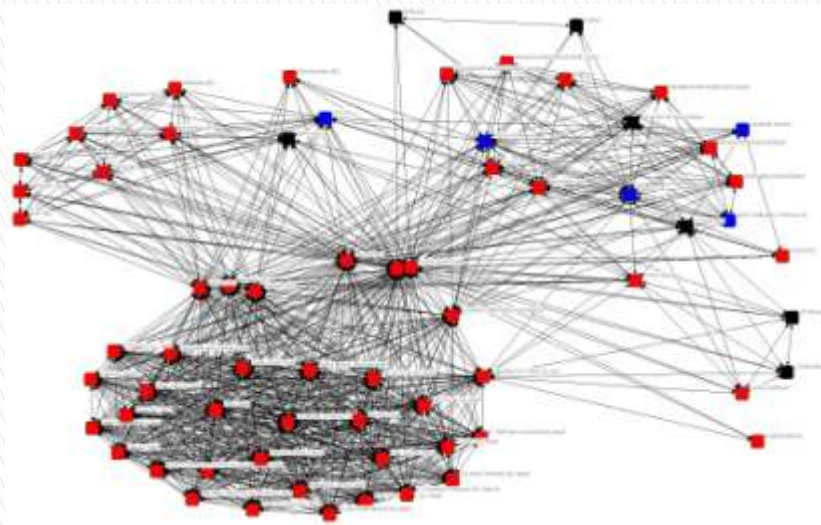
Regional authorities GEO

# Clustering & brokerage

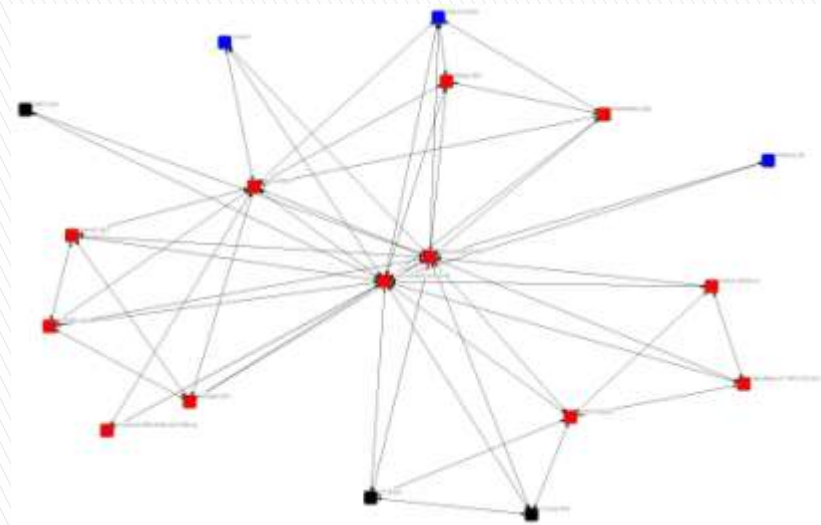
- ▶ Within all national break downs anticipated homophily effects are present: universities and research institutes, local authorities, and firms tend to be linked to one–another
- ▶ High value brokers tend to be: cantons (CH), local authorities & territorial promotion actors (DE), local and regional authorities (FR)
- ▶ Actors in–between others are predominantly political agents with an interest in territorial promotion



# Raising the 2-mode 'threshold'

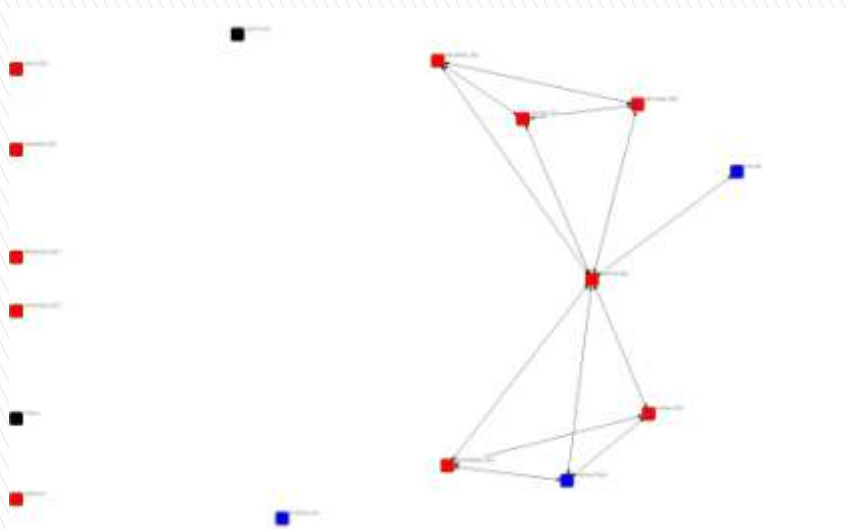


Co-membership of more than 2 events (68 actors)

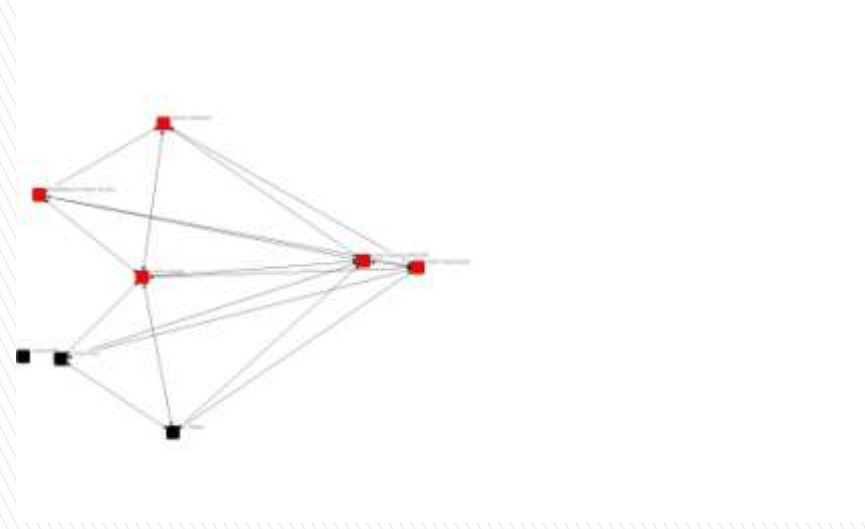


Co-membership of more than 3 events (18 actors)

# Connected at more than 3 events



Local authorities



Regional authorities

# Challenges of 2-mode analysis

- ▶ 2-mode data are an indication of potential affiliation or exercise of influence but not a guarantee of the existence of such a relationship
- ▶ Some actors appear to be connected to everybody else, as they belong to all six associations under study. It is an unrealistic depiction of underlying networks
- ▶ Prominent actors, either in terms of centrality or in terms of brokerage, appear to be political agents
- ▶ We would need to validate the existence of influence and resource flows between these actors

# Employing 2-mode analysis in refining an operationalisation strategy

- ▶ Presumed ties through affiliation are a blueprint that will allow us to explore actual relations of influence, resource and information exchange
  - informants will validate their direction or relevance
- ▶ We can already detect globally strong brokers, that can be our initial targets as gatekeepers
- ▶ We have already identified clusters, which give us a good starting point for selecting gatekeepers of all clusters and components for snowballing
- ▶ We have an overview of the policy space that is not biased by researcher assumptions

## 2-mode analysis and expert survey

- ▶ Low level of intersection between the two sets
- ▶ Intersection is best for degree centrality (44%) and betweenness centrality (35%)
- ▶ 2-mode analysis underestimate Regional authorities and overestimate Swiss actors
- ▶ Expert survey underestimate Firms, Local authorities and overestimate French and German actors

	<b>Number of actors identified by Expert survey</b>	<b>Number of actors identified by 2-mode analysis</b>
Firms	4	8
Local authorities	7	14
Regional authorities	11	8
Swiss actors	15	25
French actors	10	4
German actors	9	5

# Related publications

- ▶ Christopoulos DC. 2006. Relational attributes of political entrepreneurs: A network perspective. *Journal of European Public Policy* 13(5): 757–778.
- ▶ Sohn C (ed.) 2010. *Luxembourg. An emerging cross-border metropolitan region*, Brussels: Peter Lang (forthcoming).
- ▶ Sohn C, Reitel B, Walther O. 2009. Cross-border metropolitan integration in Europe: the case of Luxembourg, Basel and Geneva. *Environment and Planning C* 27: 922–939.
- ▶ For more information: <http://metrolux.ceps.lu>