

# Regional innovation policy to support SMEs clusters in Tuscany

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**New Cluster Policies and Tools to Support Emerging Industries and System Innovation**

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# Emily Wise on **Clusters in regional innovation systems**

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It seems that clusters (or a certain segment of “mature platforms for collaboration”) are becoming a more stable part of the innovation support infrastructure in certain geographies

- Is this type of long-term, collaborative platform and process management function **needed/desirable**?
- If so, **what implications may this have on existing cluster programmes** (and state aid rules)?

→ **evaluation issue**

# **Case study:**

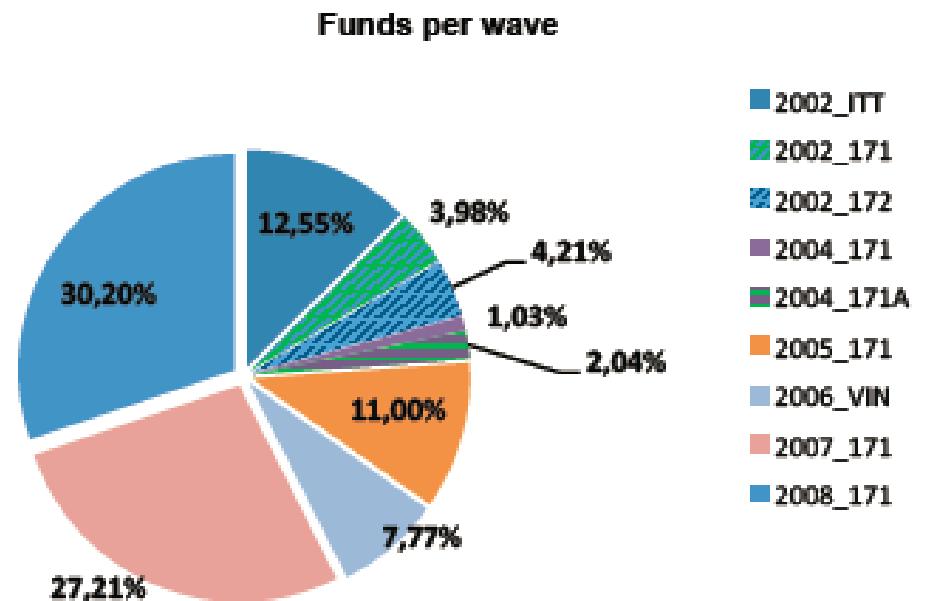
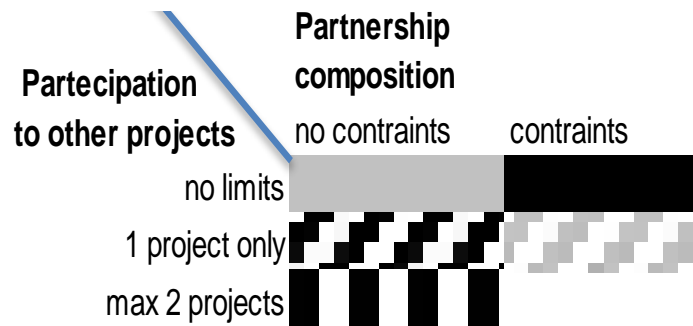
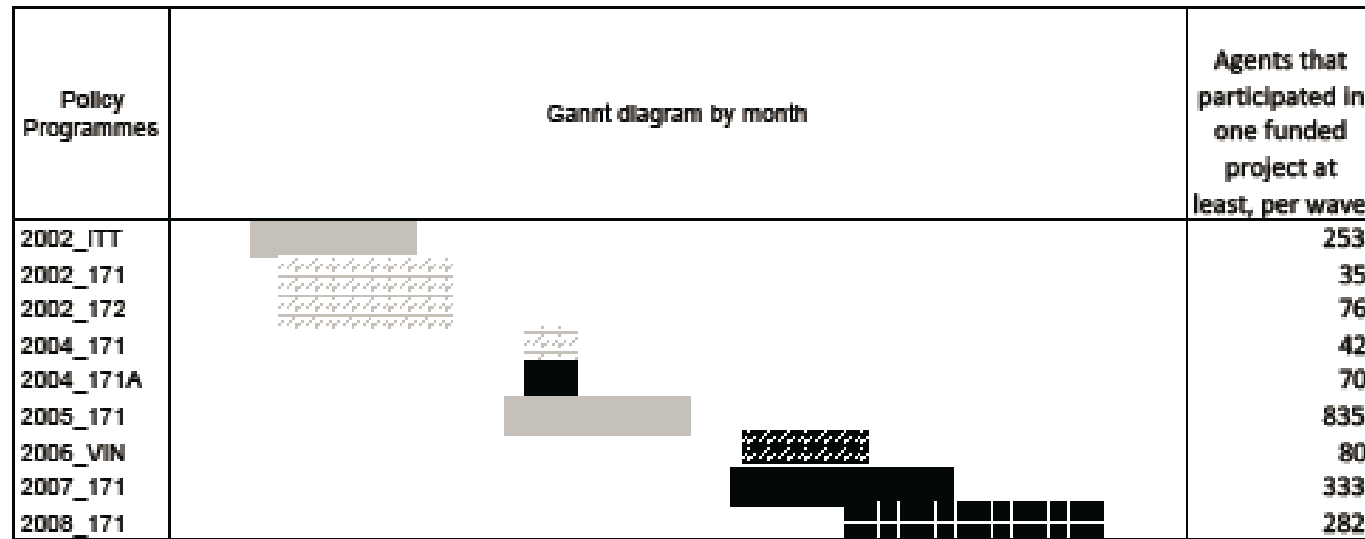
## **Tuscany's innovation policies (2000-2013)**

goal

**to strengthen the RIS, which included a large number of SMEs that had relatively few connections with universities and other regional research hubs**

- 2000-2006: network policies
- 2011-2014: innovation poles

# Tuscany's innovation network policies\_2000-06



# Tuscany's innovation network policies\_2000-06

- *did they learn innovation networking?*

Counterfactual analysis of the effects on beneficiaries:

→ positive effects

- *was networking by design (heterogeneity and size) efficient?*

→ not necessary

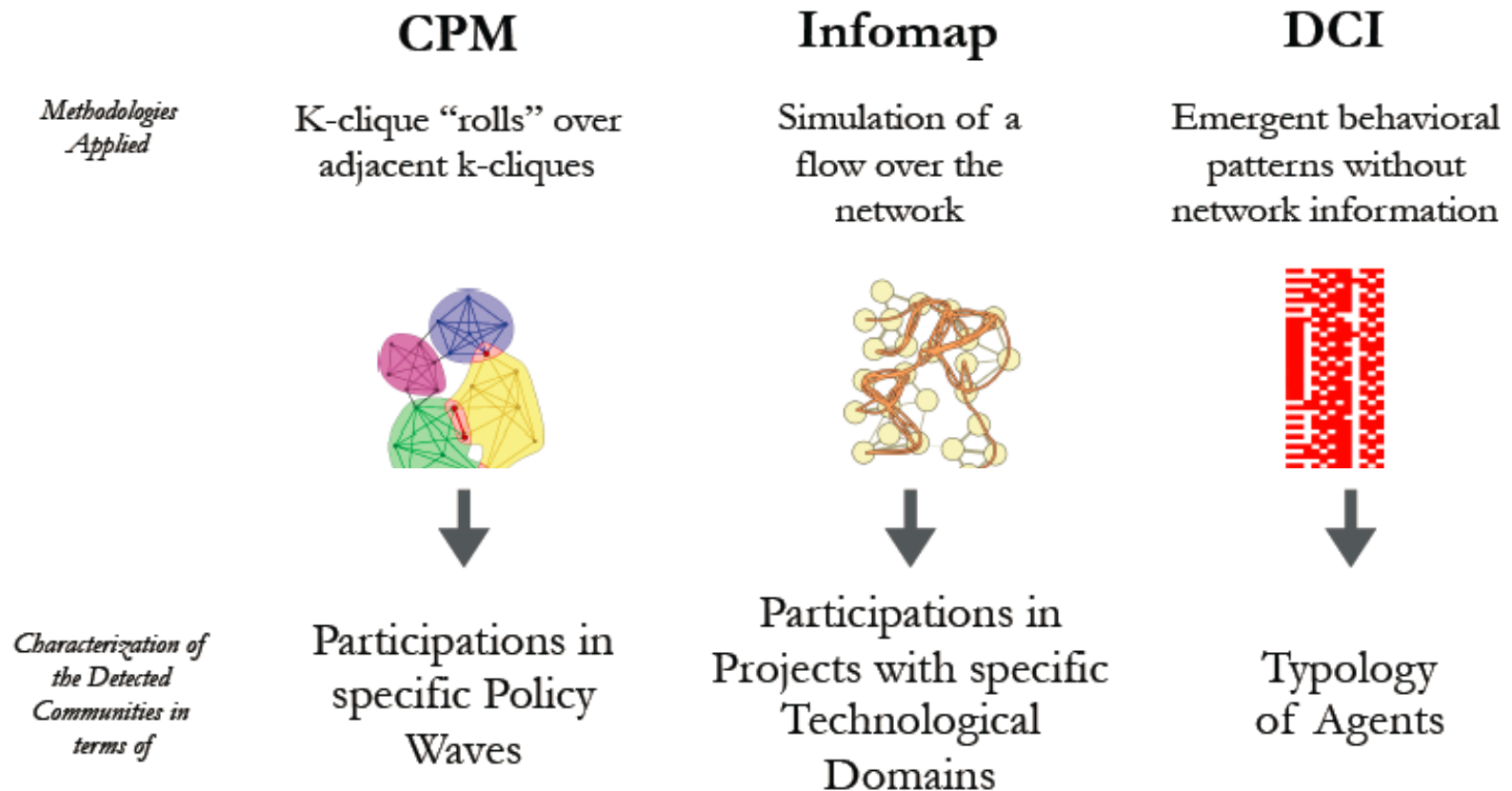
- *who were the intermediaries?*

→ not necessarily the ones appointed to that role

- *Detecting the dynamics of subnetworks...*

# Tuscany's innovation network policies\_2000-06

- Detecting the dynamics of subnetworks\_three methods



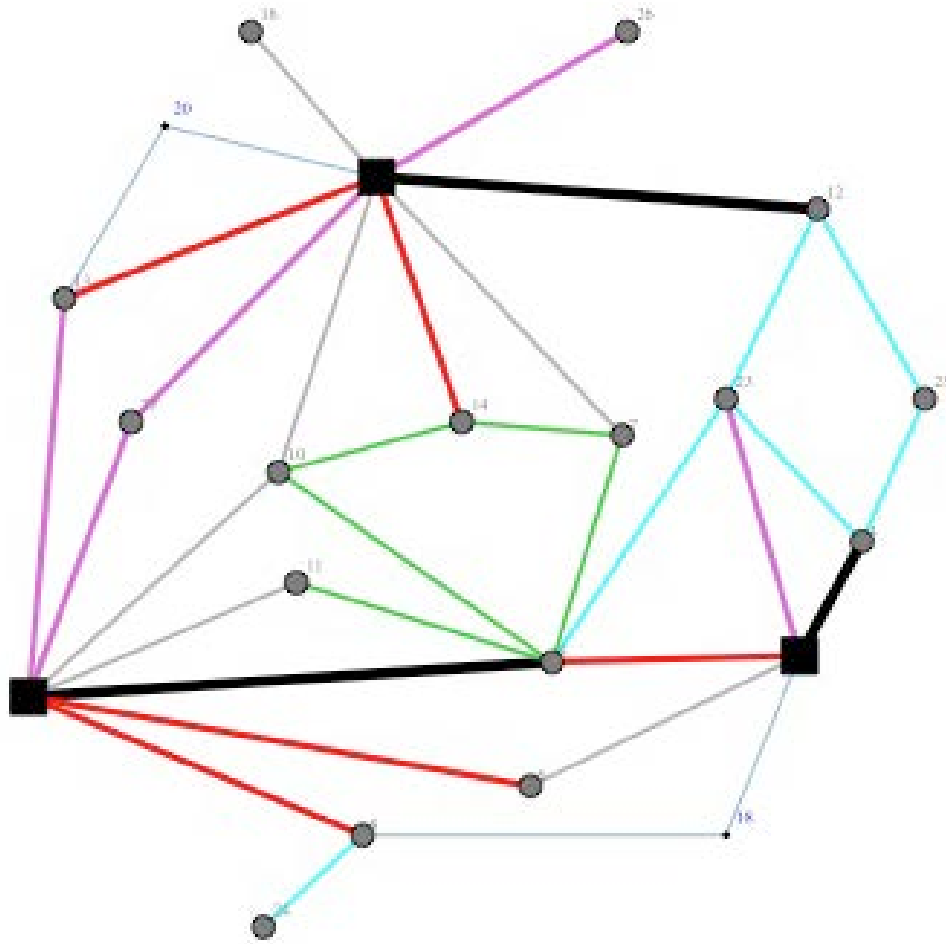
*Each methodology made possible the detection of subnetworks with specific characterization: structure, processes, functions*  
→ Projects were too short to support innovation processes

# Tuscany's innovation poles\_2011-2014

Tuscany's regional government funded **twelve innovation poles** whose aim was

- to provide a range of **knowledge-intensive services**
  - including technology scouting,
  - support in the preparation of project proposals,
  - matchmaking
- to encourage **technology transfer** and stimulate the innovation capabilities of regional SMEs

# Nodes & linkages: types



## Nodes

- Innovation pole
- Other insitutions/organizations
- Personnel

## Layer, ie. linkage type\*

Shareholding of a managing organization

Leading the innovation pole consortium

Managing the consortium

Collaboration agreement

Service provision

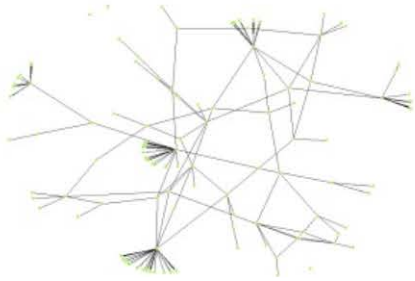
Employee seconded to a managing organiz.

Providing work services to pole

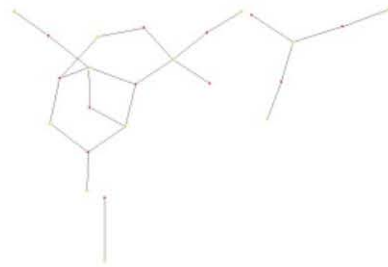
Membership



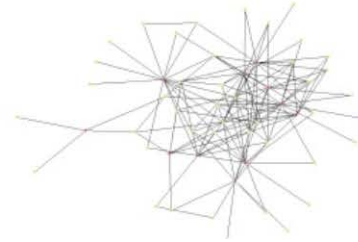
**Shareholders**



**Consortium leaders**



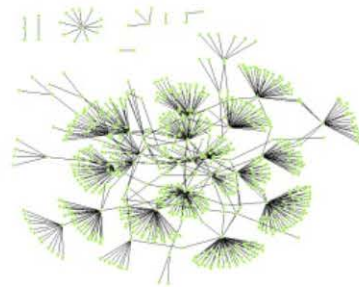
**Managing organizations**



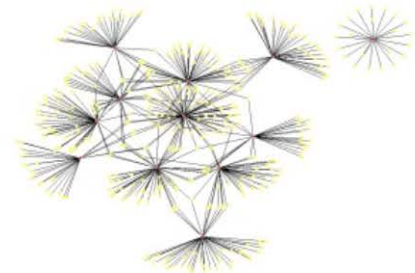
**Collaboration agreements**



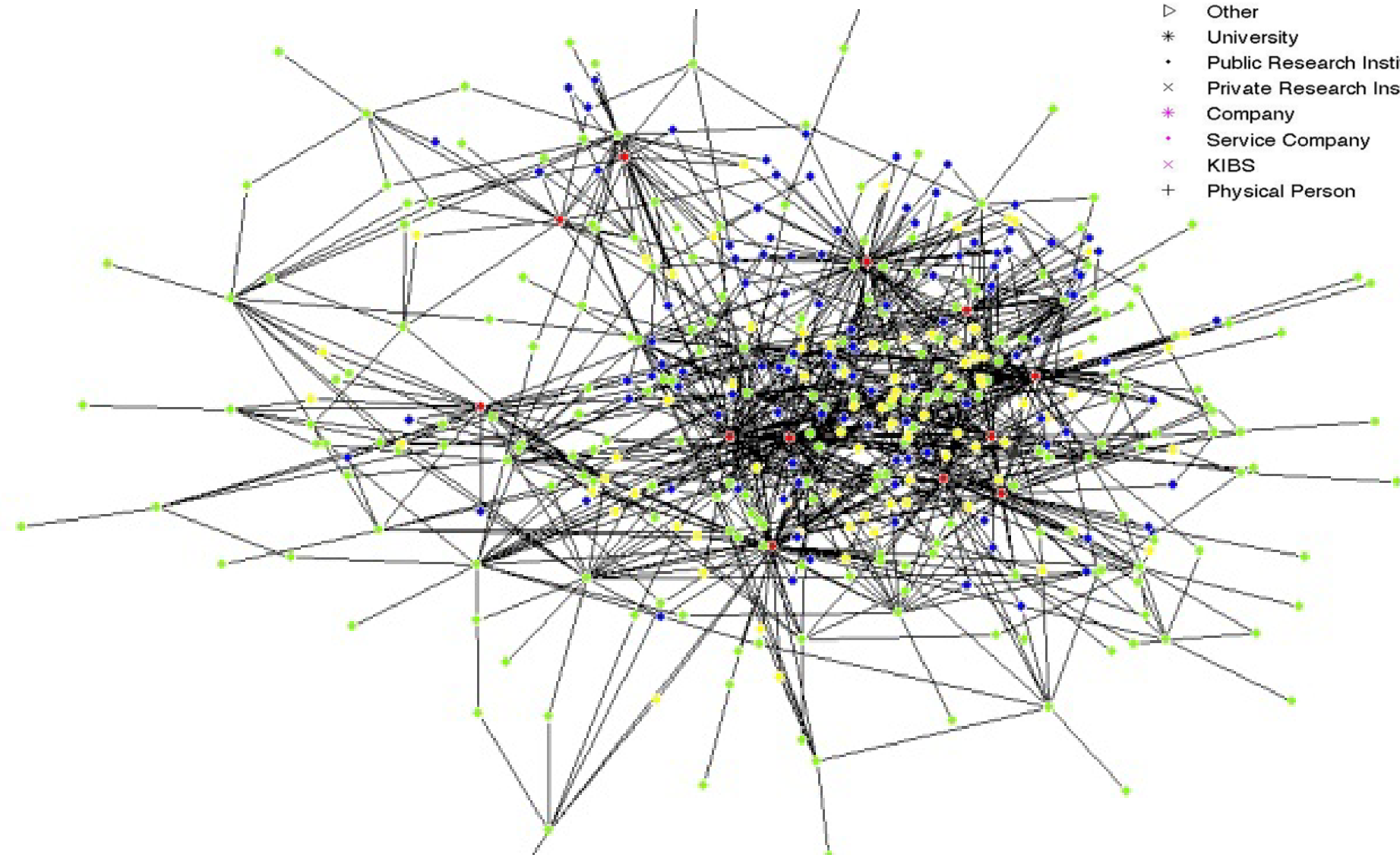
**Service provision**



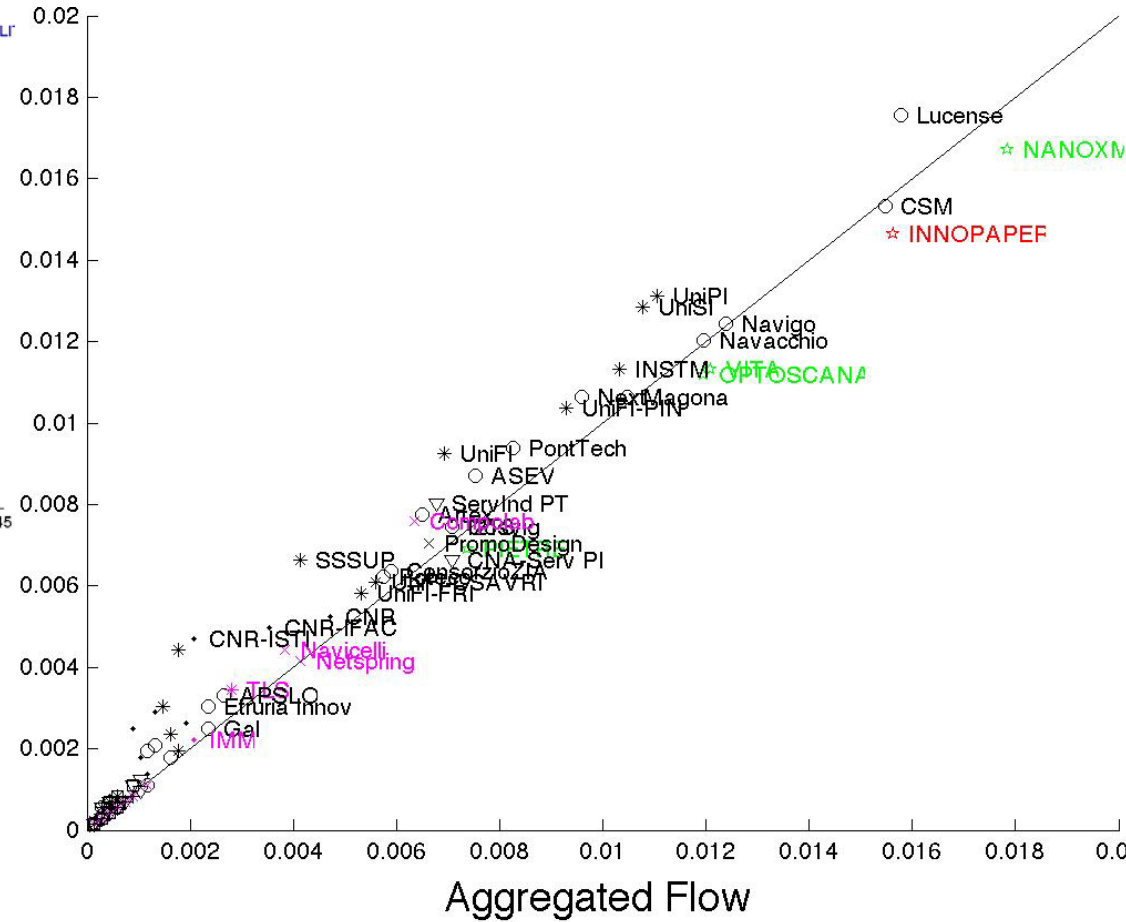
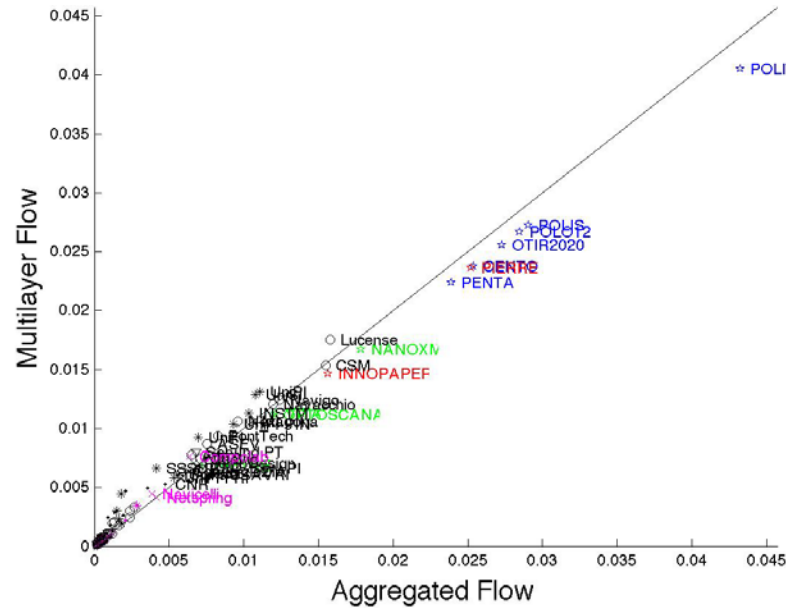
**Workers/consultants** **Employees**  
**seconded to poles**



- ☆ POLO Class 1
- ☆ POLO Class 2
- ☆ POLO Class 3
- Territorial Public Body
- ◇ Chamber of Commerce
- Services Center
- ▽ Companies Association
- ▷ Other
- \* University
- Public Research Institution
- × Private Research Institute
- \* Company
- Service Company
- × KIBS
- + Physical Person



# Aggregate and Multilayer Flow



- ☆ POLO Class 1
- ☆ POLO Class 2
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# Insights on **evaluation**

- **Adequate set of system indicators**
- **Sector/technology differentiation**
- **Adequate data collection tools**
- **Short, medium, long run effects**

# How can be framed the **evaluation** of such policies?

## → **Emphasize self-evaluation (ex ante):**

ask beneficiaries and innovation infrastructure to identify

- what **system failures** they are addressing

and

- how they are confronting them

- how they will evaluate their own performance

Different sectors / technologies may differ in terms of the system failures that need addressing, or in terms of their relative importance

## → **Adopt a system of indicators and qualitative metrics**

that captures **direct and indirect outputs**

as well as

**measurable performance outcomes and behavioural outcomes**

# Hints on **evaluation**

For the purpose of **performance-driven fund allocation**:

→ a subset of output indicators could be used (direct outputs mainly), possibly differentiated by the objectives in terms of what system failures they intend to prioritize

For the purpose of returning a **comprehensive evaluation** of the intermediaries' performance:

→ all types of indicators should be used, encouraging the intermediaries to provide a detailed overview of **their contribution to addressing system failures** in the RIS in a **short, medium and long-term perspective**