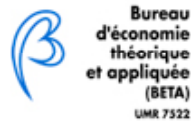


Scientometrics in the Upper Rhine area as a prerequisite for policies



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Patterns of Cross Border Cooperation (CBC) in Europe

Some facts and figures:

- Approx. 40% of the area of the enlarged European Union is made up of border regions
- 32% of the European population lives in border regions
- Only 7% of EU-population practices (international) horizontal mobility: but 80% of this mobility takes place in cross-border regions
- About 550.000 commuters (cross-border workers) in Europe

Cross-border cooperation regions in Europe



Cooperation objective 2007-2013
Crossborder Cooperation

■ Crossborder cooperation regions

Typical policy-fields of CBC

- Transport
- Labour market
- Social protection
- Environmental protection
- Spatial planning
- Economic promotion
- Tourism
- Regional marketing
- Citizens needs
- Culture
- Education
- Health
- Energy



CBC is cross-cutting by nature

Key-problems of CBC policy-making

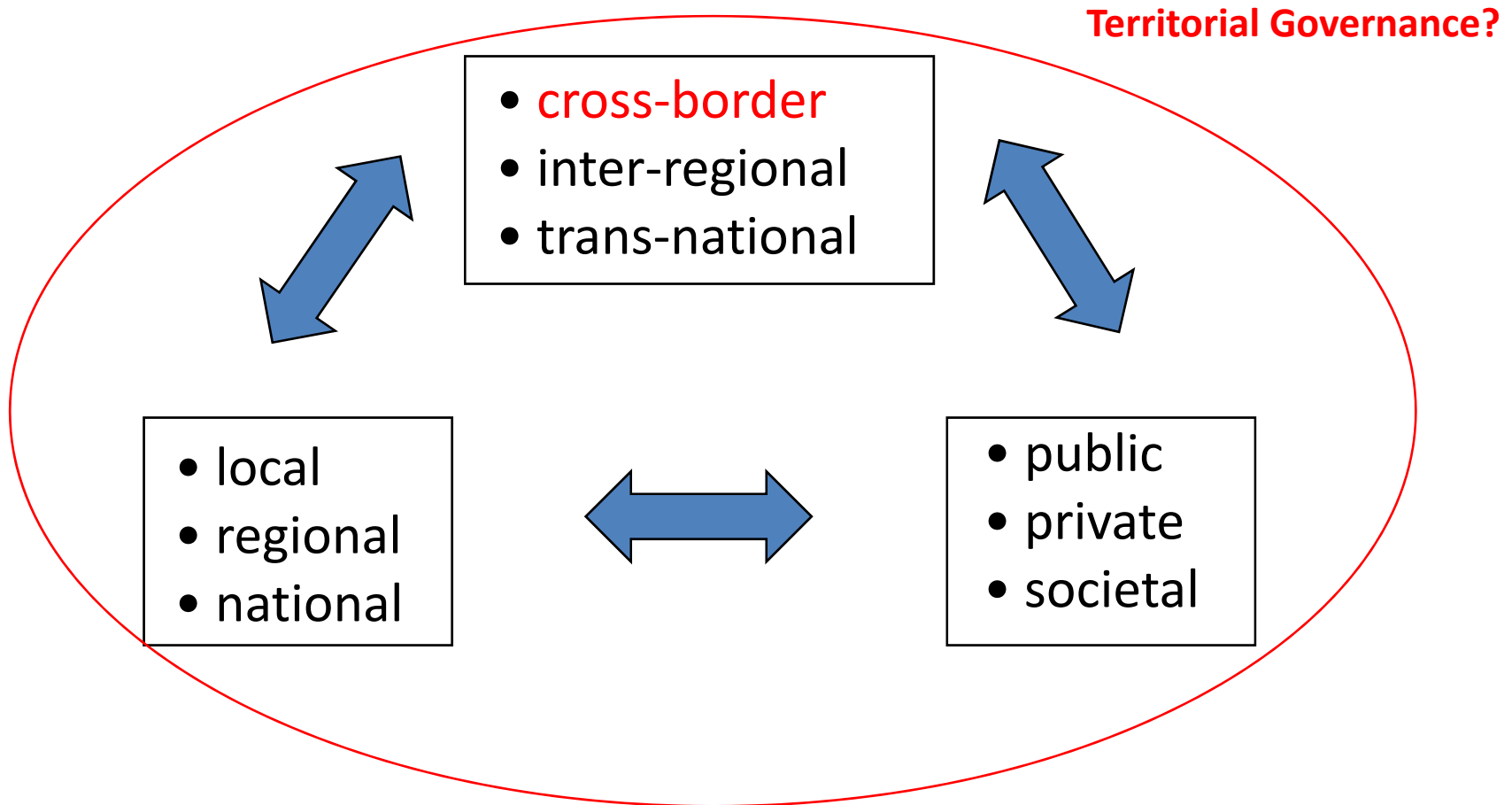
- Functional equivalence
- Knowledge
- Competence
- Interaction
- Structure
- Measurability
- Sustainability



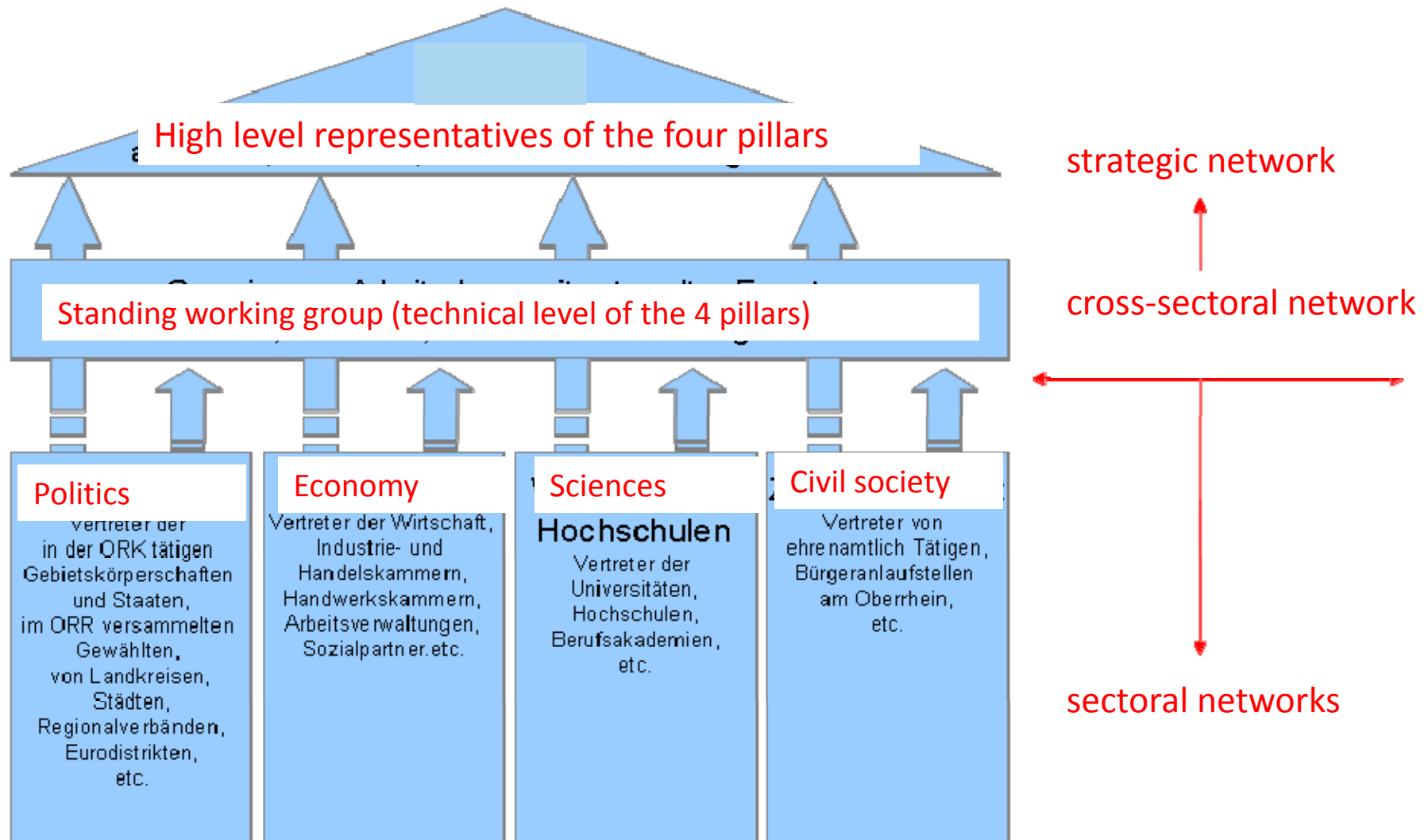
Levels of CBC
capacity-building

Levels of territorial cooperation in Europe

Multi-level approach:



Governance-model of the Trinational Metropolitan Region of the Upper-Rhine



Upper Rhine: Europe's R&D and Education golden triangle



- 167,000 students
- 20,000 researchers
- Highest concentration of R&D in Europe
- Region of excellence with numerous research centers and start-ups

**Upper-Rhine scientific production
in Europe (EUR27+)
% year 2008**

- **Chemistry** 2,61
- **Physics** 2,02
- **Engineering sciences** 1,89
- **Basic biology** 1,71
- **Sciences of the universe** 1,59
- **Medical Research** 1,46
- **Applied biologie - ecology** 1,19
- **Mathematics** 1,11

International co-publications in 2007 Alsace

| <i>Co-publications/publications (%)</i> | Alsace | France |
|---|--------------------|--------------------|
| Basic biology | 29,5 | 22,0 |
| Medical research | 15,1 | 11,1 |
| Applied biology and ecology | 30,0 | 25,9 |
| Chemistry | 29,2 | 24,6 |
| Physics | 38,5 | 31,6 |
| Sciences of the universe | 39,6 | 33,7 |
| Engineering sciences | 17,8 | 19,7 |
| Mathématiques | 20,7 | 23,4 |
| <i>All disciplines</i> | <i>26,8</i> | <i>21,5</i> |

Source : Données Thomson-Reuters, retravaillées par l'OST en comptes fractionnaires

Co-publications within the Upper-Rhine valley area

- Summing the flow of publications on ten years (1999 – 2008) :
 - **2,3%** of co-publications with German part
 - **1,9%** of co-publications with Swiss part
- Total on the Upper Rhine area: about **4%**
- Looks modest!
- But should we expect more? Why? How to get more integration if needed?