Towards top-technology clusters: From regional to cross-border cooperation

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Aachen region: Regional clusters across the borders





Aachen technology region



One of the leading technical universities in Europe

450 professors,260 instituts,30,000 students











Largest interdisciplinary research center in Germany

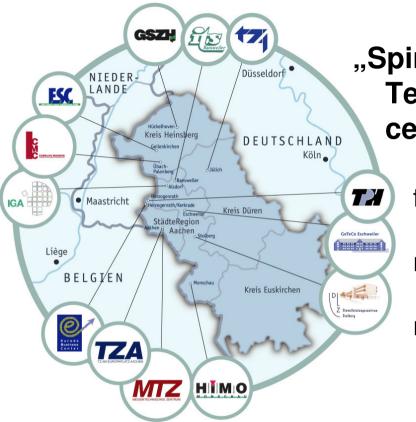
4,300 employees (incl. 1,250 scientific staff)

One of the leading universities of applied sciences in Germany 203 professors, > 8.000 students





Aachen technology region



"Spirit" for techno-start ups: Technology- & businesscentres in Aachen region

total space (sqm): 100,000

no. of companies: > 510

no. of employees: > 5,200

(January 2009)









Aachen technology region

AGIT-services for technology-based entreprises

authorities

- Provision of individual specialist consulting services to support technology-based enterprises, esp. spin-offs
- Innovation consulting & patenting support
- Raising (venture) capital for spin-offs & growing enterprises

Results since late 70s: > 1,000 techno-start-ups covering 30,000 jobs!

www.agit.de





Many cluster-oriented networks...

Life sciences:















Innovative production technologies:





Automotive & rail:



Energy:



... but different approaches, activities & results!





ICT

Basics

branch: IT/informatics

■ members: <u>108 companies & R&D-institutions</u>

founded: 1991

Main objectives/interests

- information exchange/social networking
- recruitment (e.g. "Night of the enterprises")
- coaching activities
- business cooperation







Advanced materials



Basics

branch: plastic technologies

members: <u>20 companies (RWTH-IKV spin-offs)</u>

founded: 1999

Main objectives/interests

focus on business cooperation in:

- consulting, design, production
- research & development
- measurement, material technology, quality control





Energy

Basics



branch: (Renewable) energy technologies

■ members: ~ 60 <u>cross-border</u> companies, R&D, intermediates

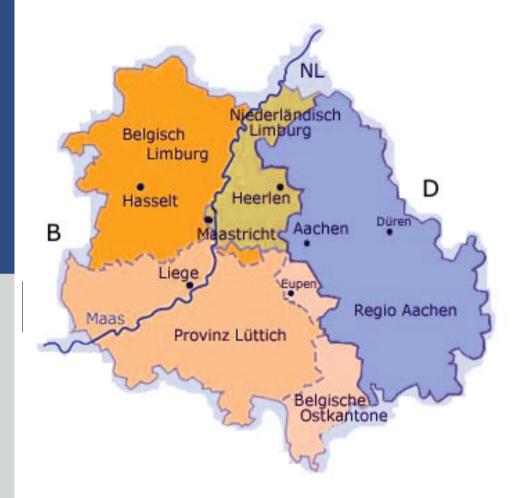
founded: 2007

Main objectives/interests

- cross-border cooperation/international energy competence center (branches in D, NL & B)
- acquisition of project funding
- dialogue & cooperation between business, universities, R&D
- lobbying & marketing







Facts & figures

inhabitants: 3.9 million(3 languages & 5 cultures)

area: 10,793 km²

GDP: 86.5 billion €

workforce: 1.7 million

universities: 5 (68,000 students, 1,200 professors)

... first steps in INTERREG I - IIIA within Meuse-Rhine-Triangle





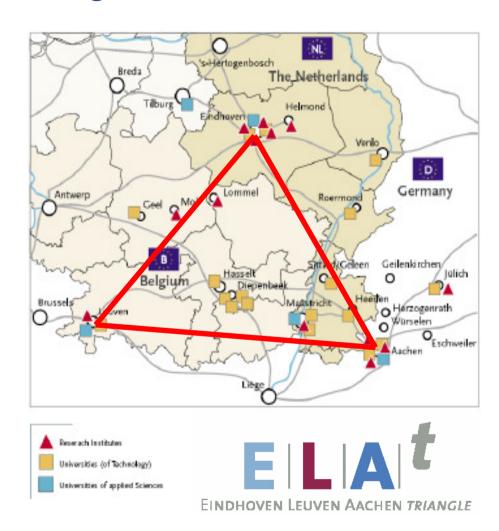
Eindhoven-Leuven-Aachen triangle

objectives:

foster cooperation between knowledge city-regions Aachen (D), Eindhoven (NL) & Leuven (B)

focus on:

- knowledge exchange
- benchmarking & international marketing
- start-up & financial support
- cluster development







EILA E

activities:

- benchmarking, mapping & marketing instruments
- support for business start-ups (ELAt-master-classes)
- provision of venture capital (European venture market)
- Cluster-development (esp. life sciences, ICT)
- Joint innovation strategy



www.elat.org

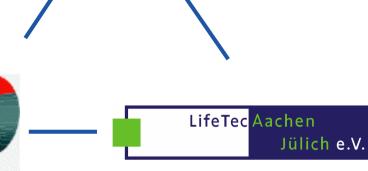




Life sciences: A first "network of networks"

- Leading edge technology in several areas
- Economic strenghts, but opportunities for commercial cooperation have not been investigated systematically
- Start intensive cooperation between networks
- "BioMedica": Joint crossborder forum & fair

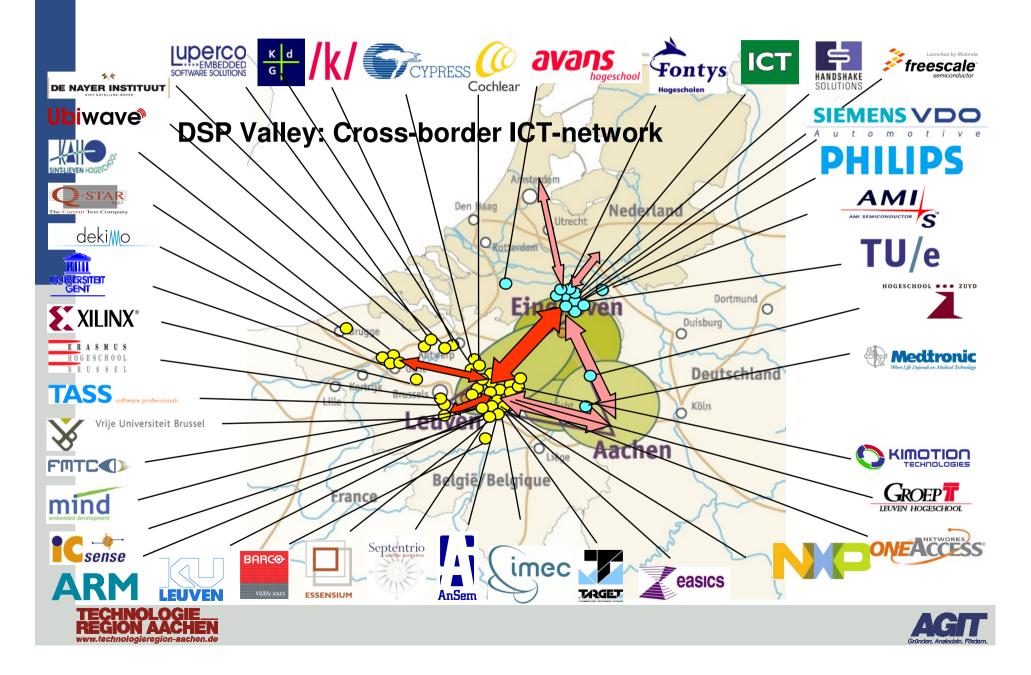




bioliège







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On our way to a network of networks: ,towards TTC"



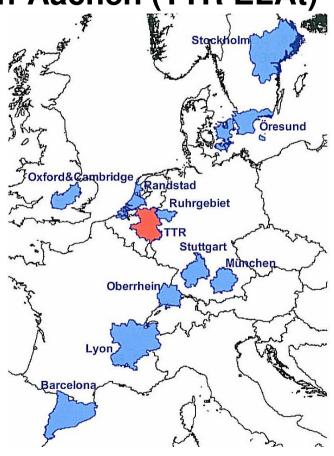


TTR ELAt-initiative

Target: Develop a larger cross-border Technological Top Region Eindhoven-Leuven-Aachen (TTR ELAt)

- Noord-Brabant (NL)
- Limburg (NL)
- Vlaams-Brabant (B)
- Limburg (B)
- Lüttich (incl. DG, B)
- Westliches NRW (D)





















INTERREG IVA-project towards "Top Technology Cluster" (TTC)

Cross-border Business Development South-Netherlands – Eastern-Belgium – West-NRW



















Problems

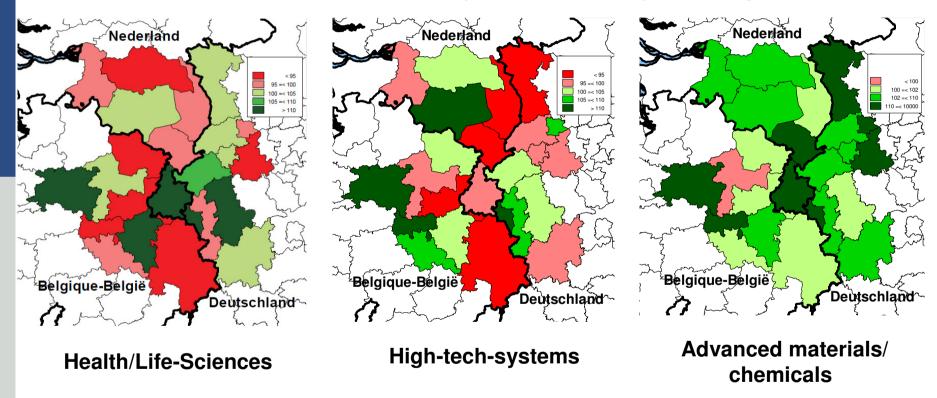
- Technology-oriented SMEs (incl. R&D-institutions /universtity institutes) maintain only very few business across the borders
- Existing business associations, business networks & business development support mechanisms in participating regions are unequally developed & function differently!
- National funding instruments to support innovation & business are not or just poorly coordinated - INTERREG funding does not meet the needs of SMEs so far!





Targets

Foster cross-border business development in three promising fields:

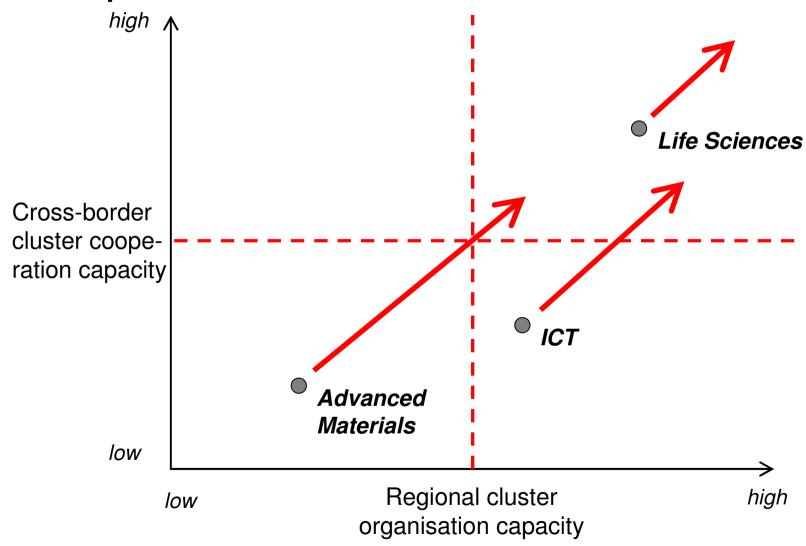


Enable & stimulate technology-oriented enterprises to cooperate directly across the borders





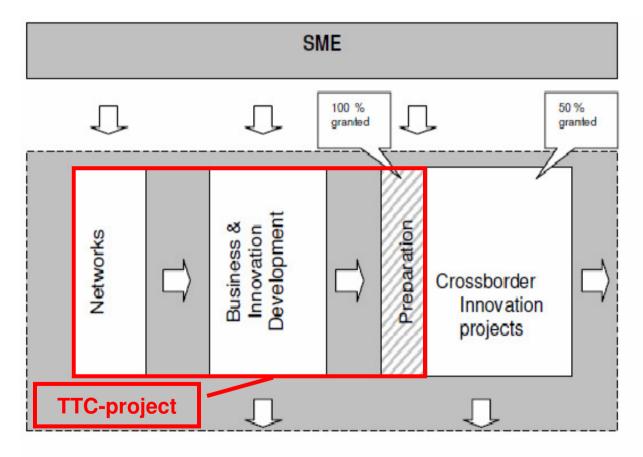
Cluster performance







Basic idea



Economic activities

Regional, national, EU - programmes





Work package "Networking & intercluster activities"

Target:

Stimulate cross-border innovation-oriented cooperation

- Get to know each other, esp. each competencies & technologies
- Detect complementarities (How can we help/strengthen each other?)
- Reveal project ideas
- Find opportunities for cooperation (commercial business opportunities as well as public funded research)





Work package "Networking & intercluster activities"

1. Socializing events:

Get to know each other in an informal way: For all clusters from all technology domains (also in combination with triple-helix-events)

2. B2B matchmakings:

Formal one-to-one introductory meetings between potential partners: personalized agenda's for all participants after screening & preselection of partners to be met (techn.-specific B2B per technol. domain, interdisciplinary B2B with all clusters/technol. domains together)

3. Brokerage workshops:

Compose project teams for research funding programs based on created project ideas (workshops for each technology domain)





Work package "Networking & intercluster activities"



Work package "Business- & Innovation Development"

Target

Stimulating demand- & market-driven innovation & development leading to concrete sales, added value & employment at (esp. SME-)companies

Given the fact that business across the borders in spite of various cross-border activities is still on a low level, "towards TTC" aims at a kind of "pincer movement":

On the one hand to **promote & establish "open" contacts** between companies on various levels, on the other hand to provide even a **more "guided" support, tackling problems by incentive measures** (caled: Business development support)





Work package "Business- & Innovation Development"

1. Demand-antenna's

Organisation of regional "antenna's" identifying or encouraging concrete demands of businesses (based on the various regional starting points)

2. (In-depth-)Interviews

(Pro)active maintenance & check with selected, representaitive companies to gain insight on innovation in products, services & processes, leading to direct inputs (project leads & project proposals)

3. Structured generation of ideas

Creativity sessions, roadmaps (e.g. on plastic recycling) workshops on promising applications of trends, dedicated workshops (esp. on development of project leads)





Work package "Business- & Innovation Development"

4. Toolbox

Allows direct adress of small problems (like IP protection, legal support) by pro-viding some limited, but very low-treshold, incentive instruments (e.g. feasibility studies, vouchers) to companies

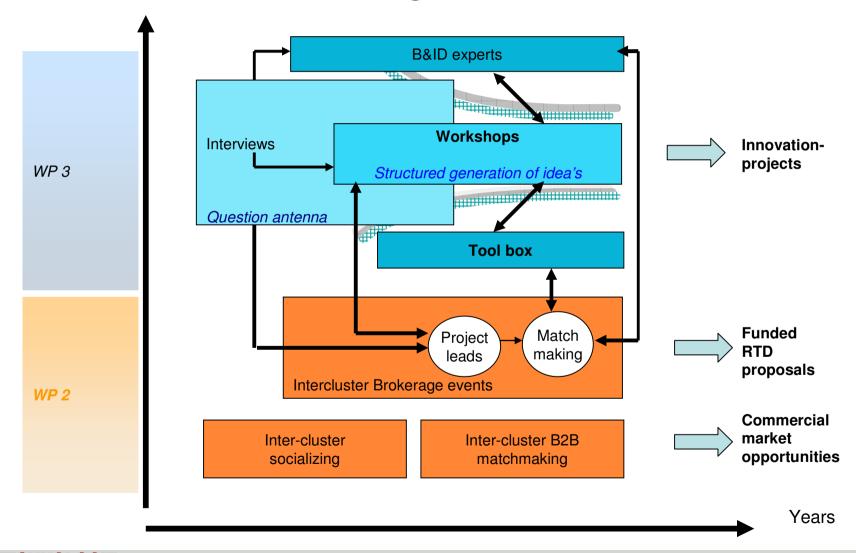
5. Pool of B&ID-experts

To secure successful project developments specialist knowledge of market / technology, an open mind & excellent qualities in the field of counseling / coaching is required: Therefore a pool of external experts with additional budget to boost implemention more in detail will be implemented





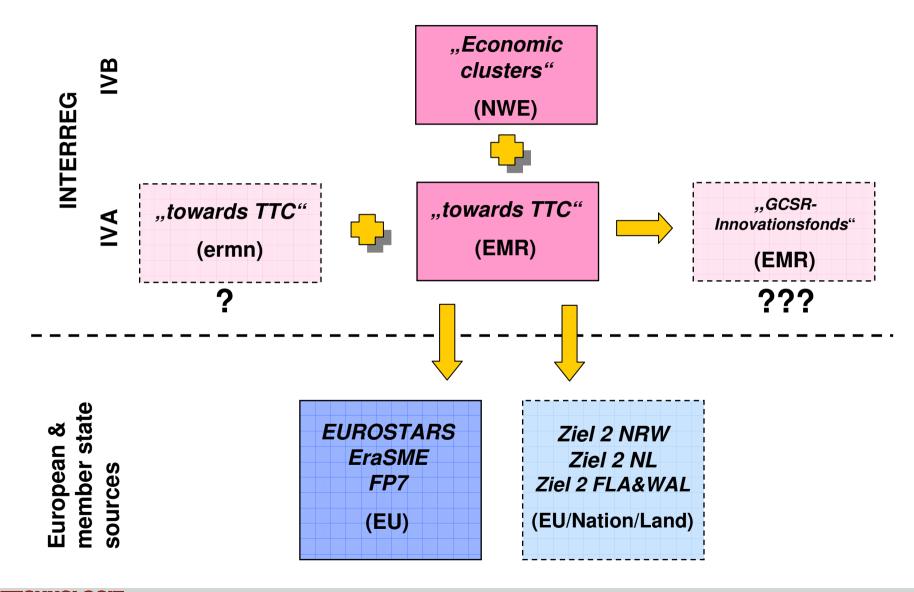
Interrelation of Networking- & B&ID-activities







Outlook: A series of strategic activities







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