

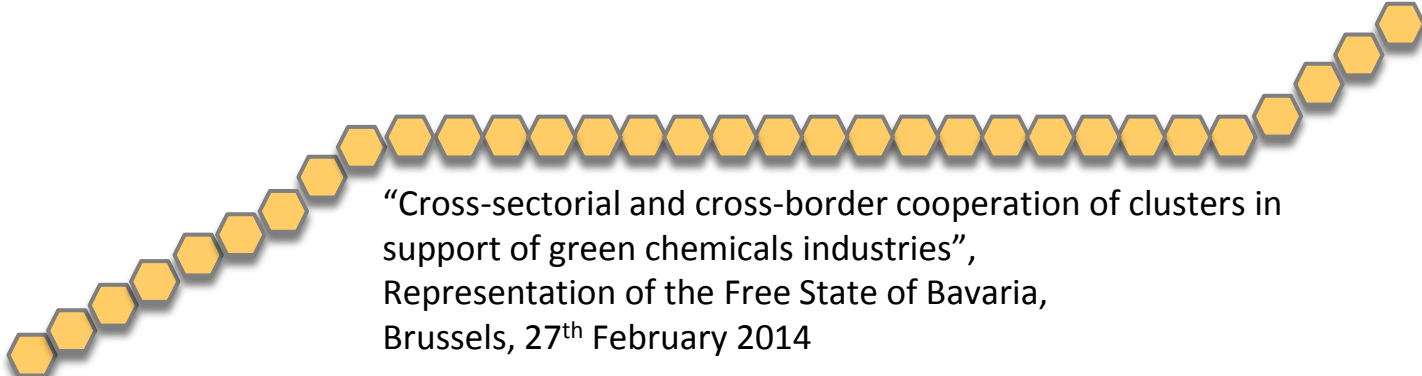
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Nano Regions Alliance



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- An Example of Cooperation between Regions

A decorative horizontal line of yellow hexagons with a slight 3D effect, spanning the width of the slide.

“Cross-sectorial and cross-border cooperation of clusters in support of green chemicals industries”,
Representation of the Free State of Bavaria,
Brussels, 27th February 2014



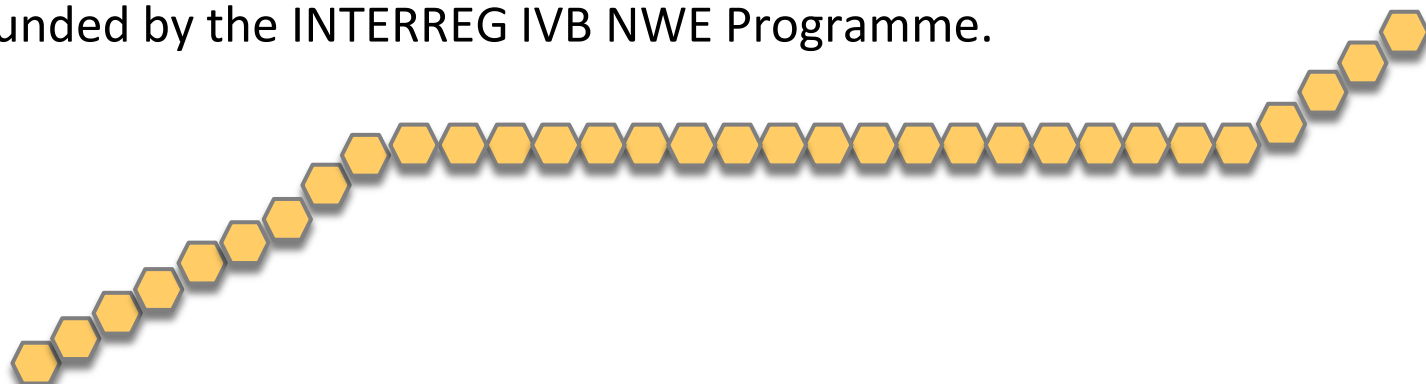
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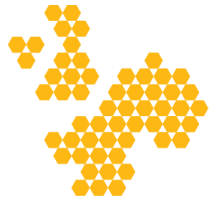


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What is NANORA?

- ... an **alliance combining players along the Triple Helix** (industry, government, and university/research) with the aim **to foster nanotechnology in the NANORA regions**.
- ... an **initiative of regions** developing common support modules.
- ... a **tool for smart specialization**.
- ... a link of the participating regions to comprehensive EU platforms and initiatives.
- ... a project funded by the INTERREG IVB NWE Programme.





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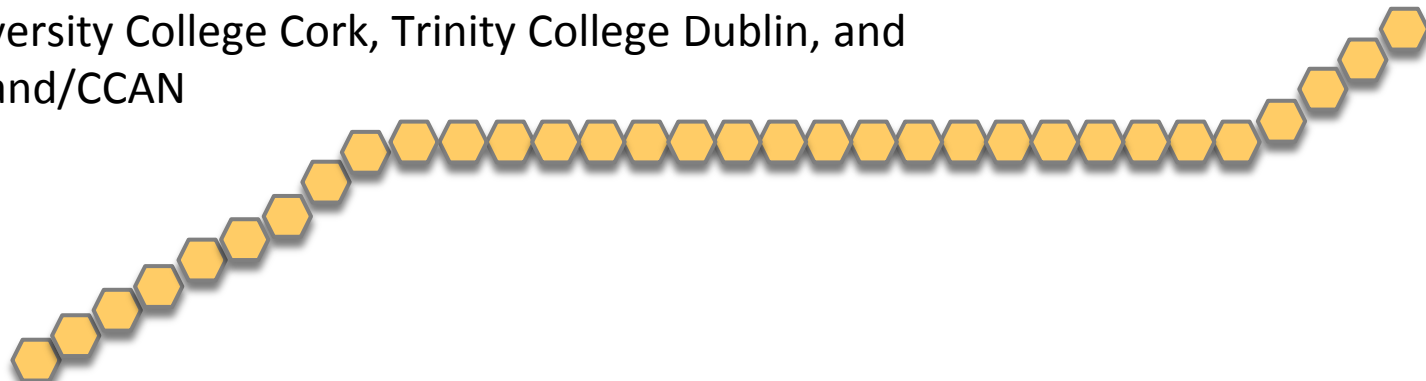


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The Founding Members – cover the Triple Helix

...from six member states:

- Germany – Ministry of Economics, Energy, Transport and Regional Development, State of Hessen; DECHEMA; cc-NanoBioNet e.V.
- Netherlands – NanoHouse
- Belgium – Multitel ASBL and Sirris
- France – CNRS/IEMN, Crepim and APAF-Pôle Plasturgie
- UK – Lancaster University
- Ireland – University College Cork, Trinity College Dublin, and NanoNet Ireland/CCAN





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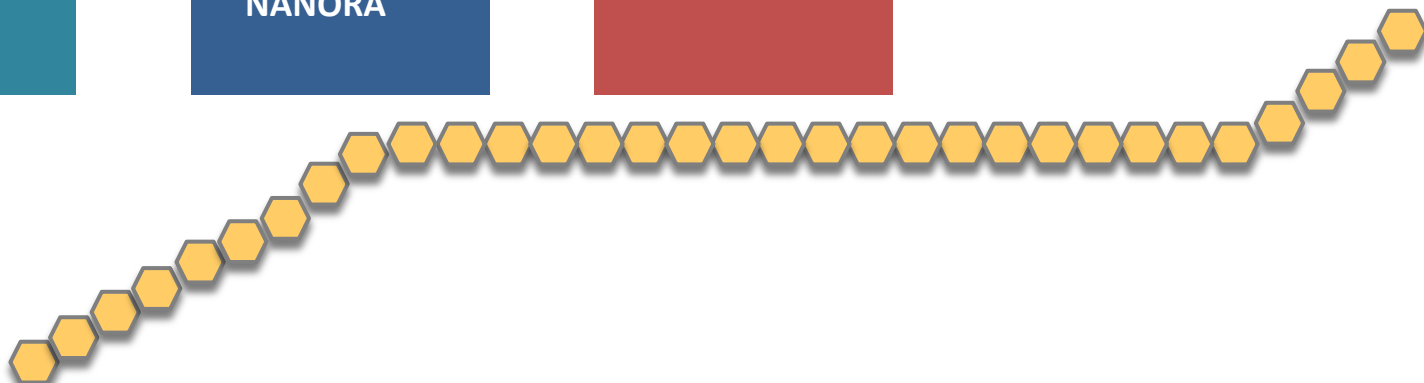
Structure of the Alliance

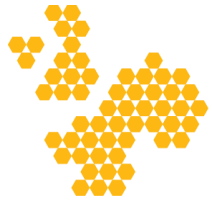
NANORA Partners

Associates
cooperate
with NANORA
in reaching the
common goals

Members
represent
regions in the
Alliance and are
the backbone of
NANORA

Supporters
are regional
authorities
supporting
NANORA





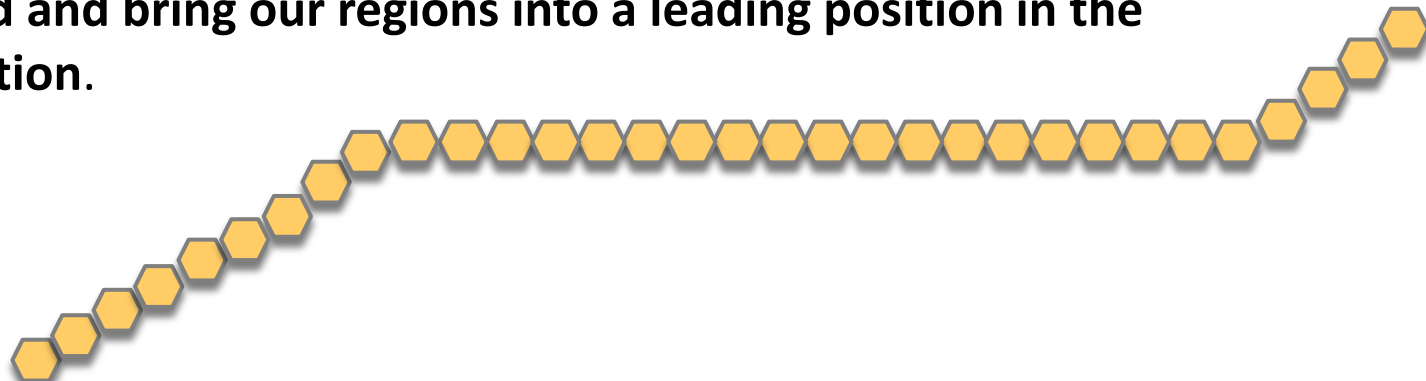
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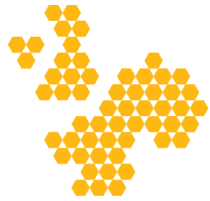


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Why is NANORA so important?

- Nanotechnology is one of the most important key enabling technologies and cross-sectoral by nature.
- Due to the heterogeneous nature of nanotechnology the **best partners for a project are not always available in a single region.**
- **Regional actions alone will never generate enough impact** for the breakthrough of nanotechnology.
- Consequently, **only transregional actions can achieve the impressive results we need and bring our regions into a leading position in the global competition.**





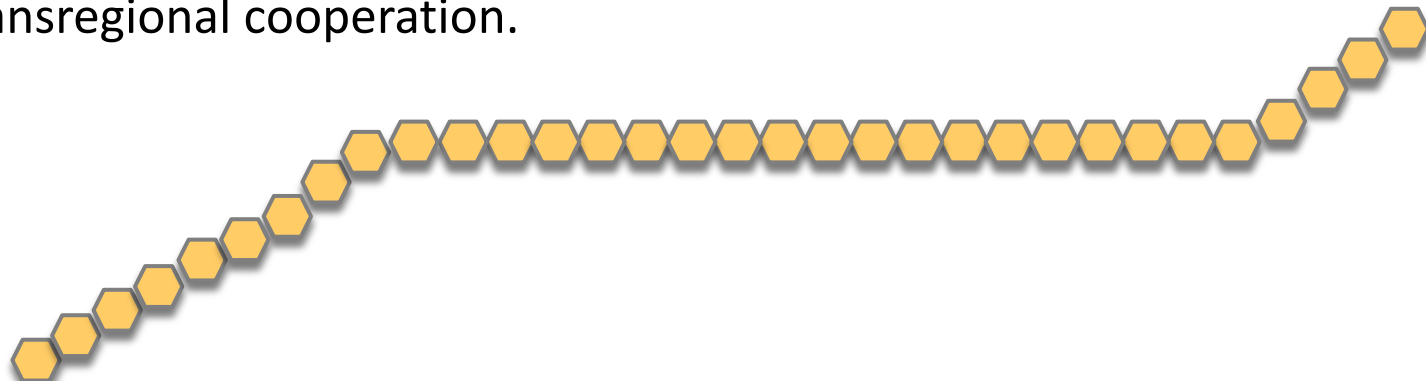
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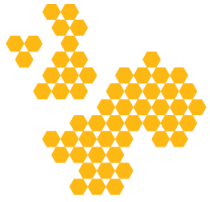


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Our Vision

- A transregional Alliance in NWE (and beyond) is established.
- A network of regional **Nanotech Access Point** offers services
- Companies and facilities along the whole value chain in the NANORA area **cooperate and communicate** on a high level.
- Companies from the NANORA area are conquering new markets even beyond NWE and all of Europe.
- NANORA makes **regional "competitive egoism" obsolete** and ushers in a new era of transregional cooperation.





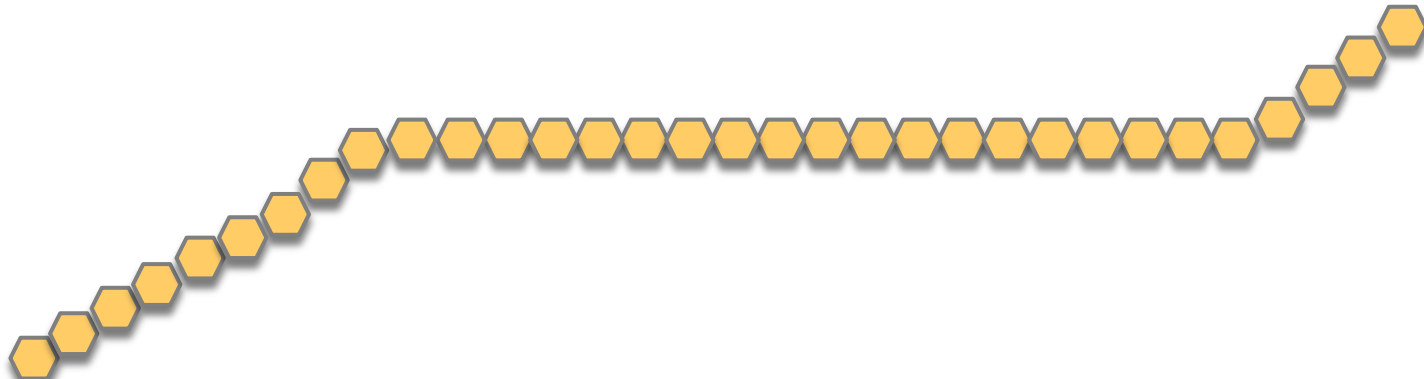
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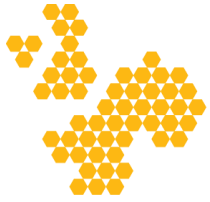


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Fostering Cross-Sectoral Innovations

- How can it be done?
- What is the underlying mechanism?
- A story tells you more than just the plain numbers.





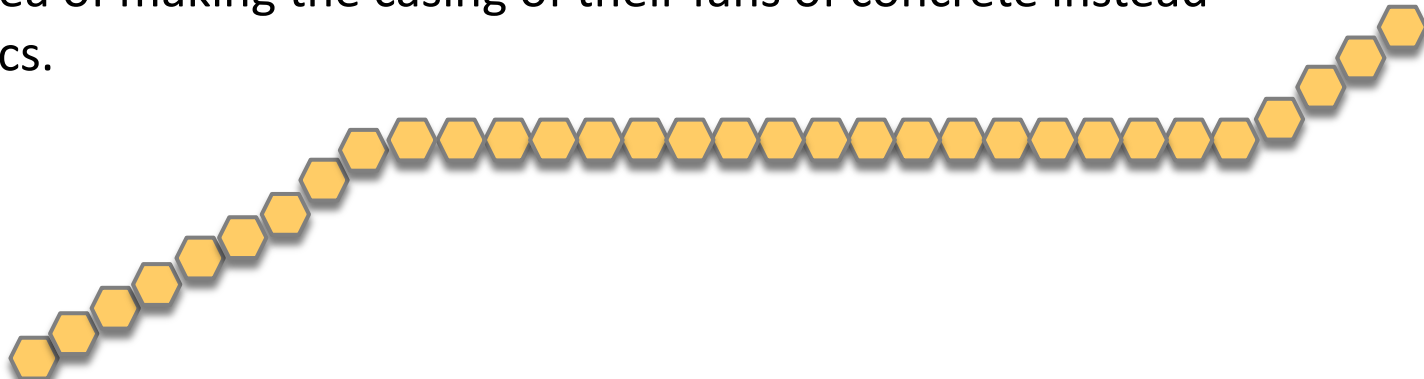
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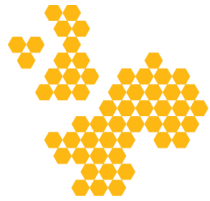


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Case Example – Part I – The Situation

- An SME constructing, developing and producing industry and laboratory fans for over 80 years needed to change its products. Until now the fans were mostly based on thermoplastics construction.
- They want to find a material that is not based on oil and can be used in high temperature and corrosive surroundings.
- They had the idea of making the casing of their fans of concrete instead of thermoplastics.





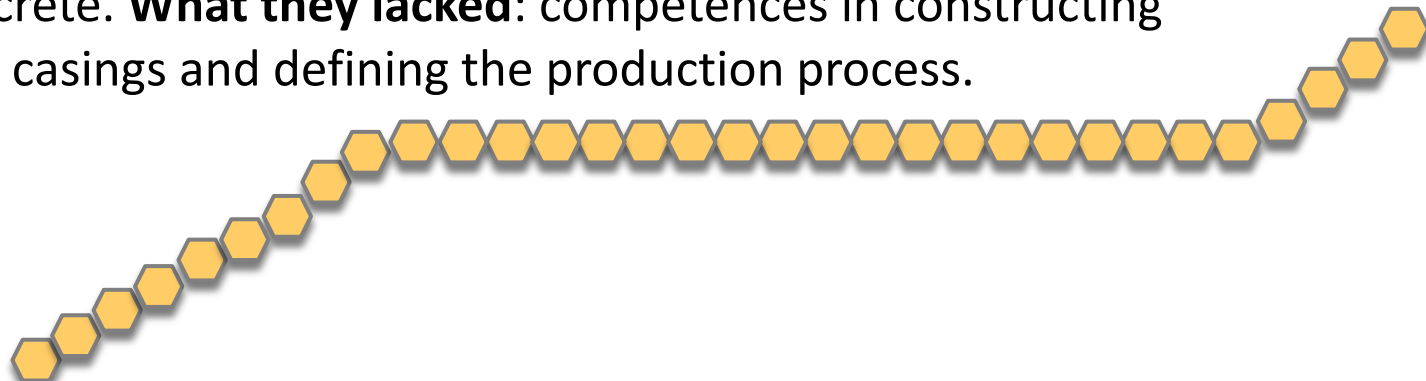
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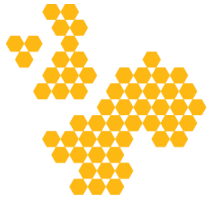


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Case Example – Part II – The Story

- They asked our **Nanotech Access Point** in Hessen for a partner offering high performance concrete usable for the casings for a common R&D project.
- Our **Access Point connected** them to a young company specialized in customizing high performance concrete to the needs of their customers.
- The two partners had experience in developing fans and in producing specialized concrete. **What they lacked:** competences in constructing concrete-based casings and defining the production process.





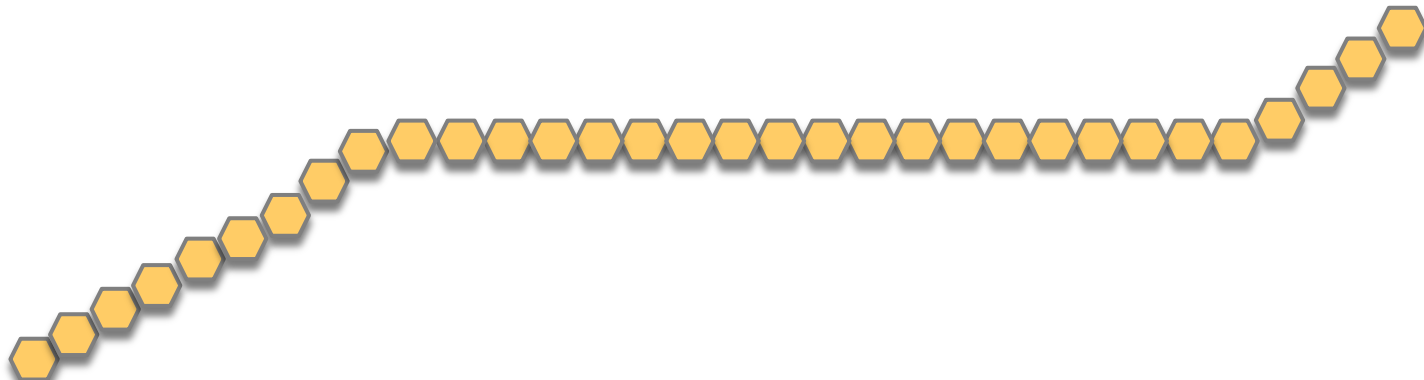
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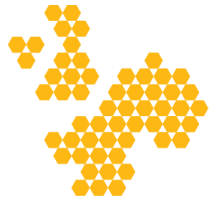


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Case Example – Part III – The End

- The Access Point linked them with a university with broad experience in concrete construction.
- **Result:**
A consortium able to develop an innovative fan with optimized properties, opening additional market opportunities!





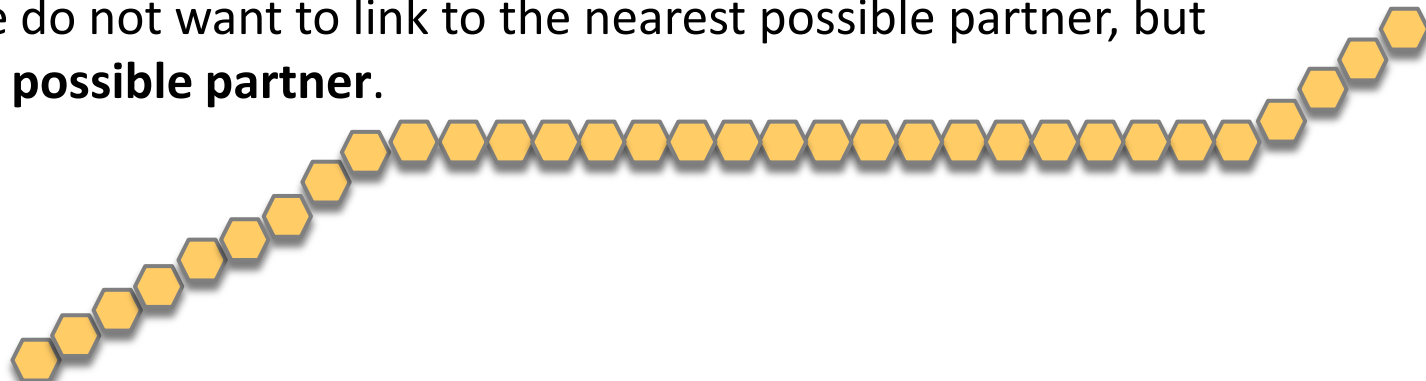
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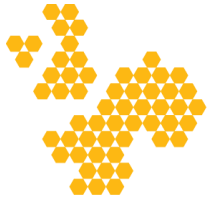


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The Mechanism – No Sorcery!

- Partners with different competences started a common R&D project.
- An Access Point knowing the competences in its region linked the right partners for the project.
- A regional funding scheme supported the R&D project.
- **Our Idea with NANORA**
 - Transfer this successful mechanism to a transregional scale – because in many cases the best partners are not in the same region. We do not want to link to the nearest possible partner, but to **the best possible partner**.



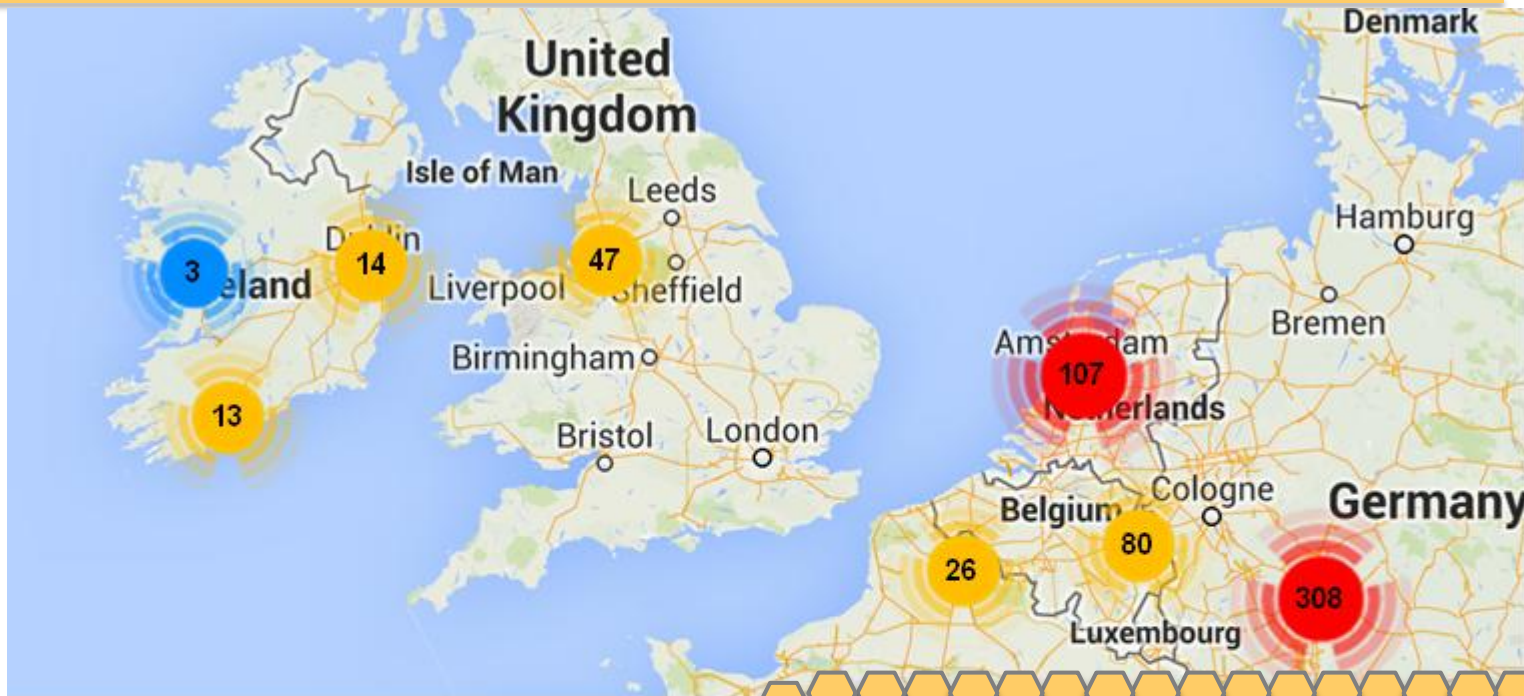


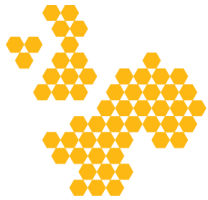
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Triple Helix Mapping of the Alliance



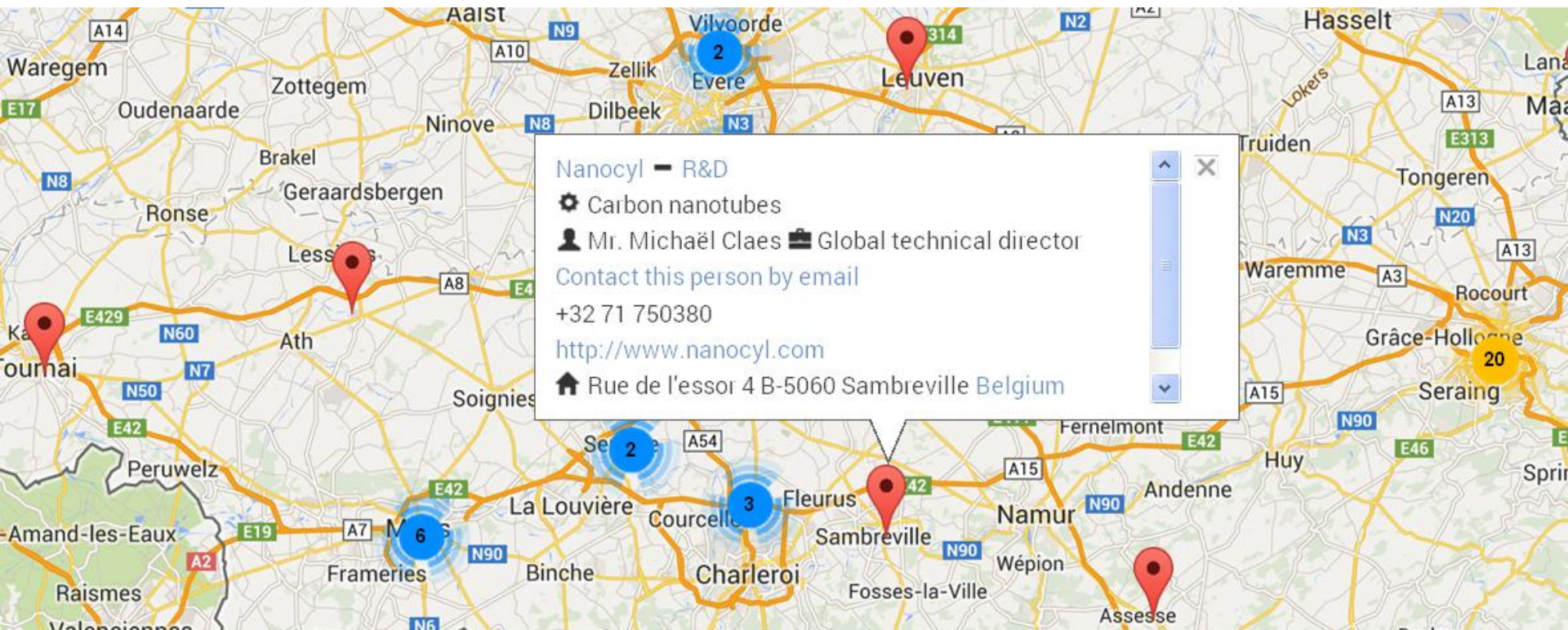


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Triple Helix Mapping of the Alliance - Zoom



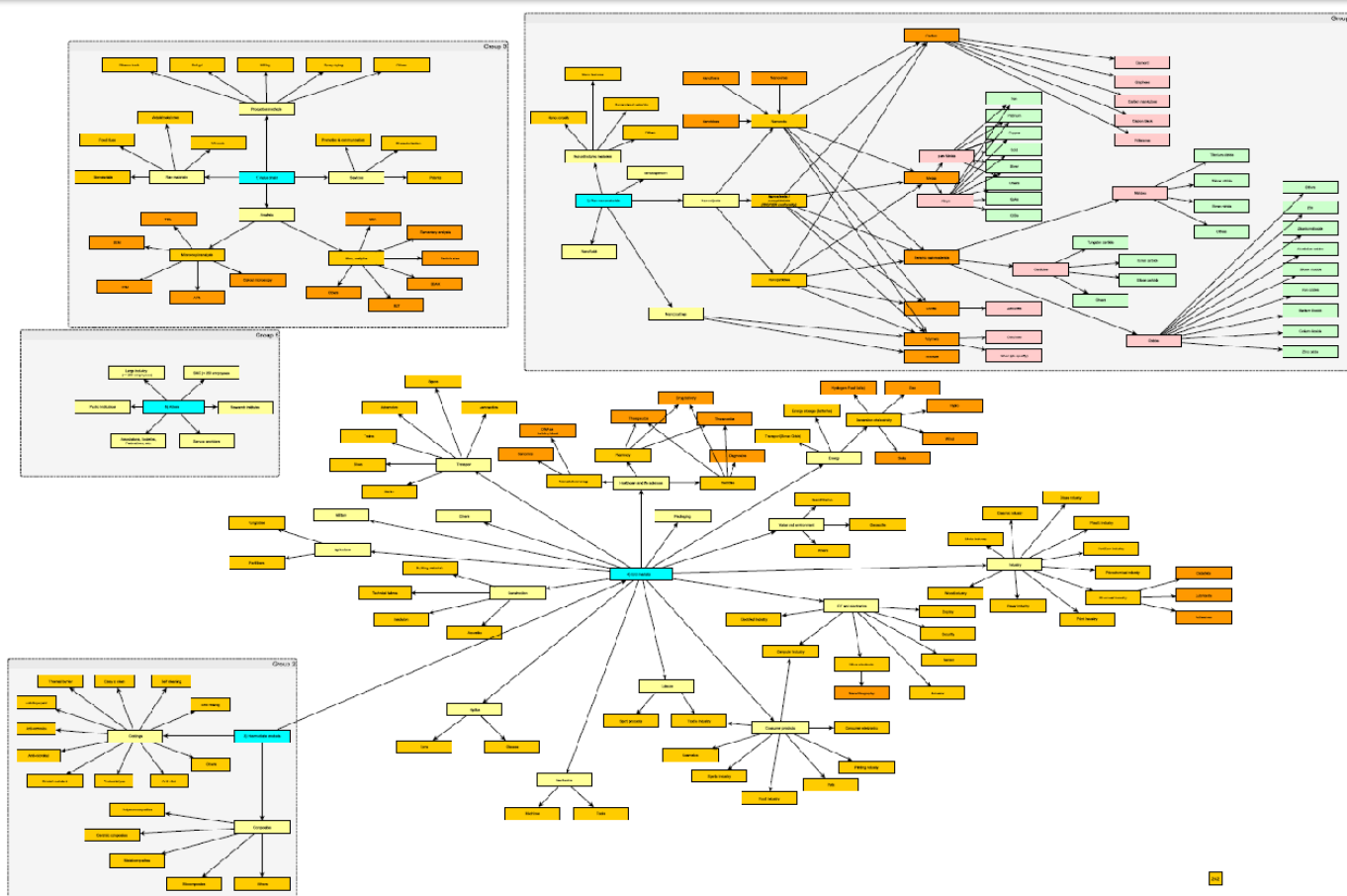


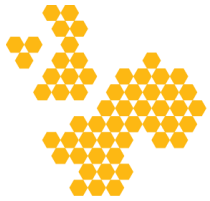
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TINCA – Transnational Interactive Competence Atlas



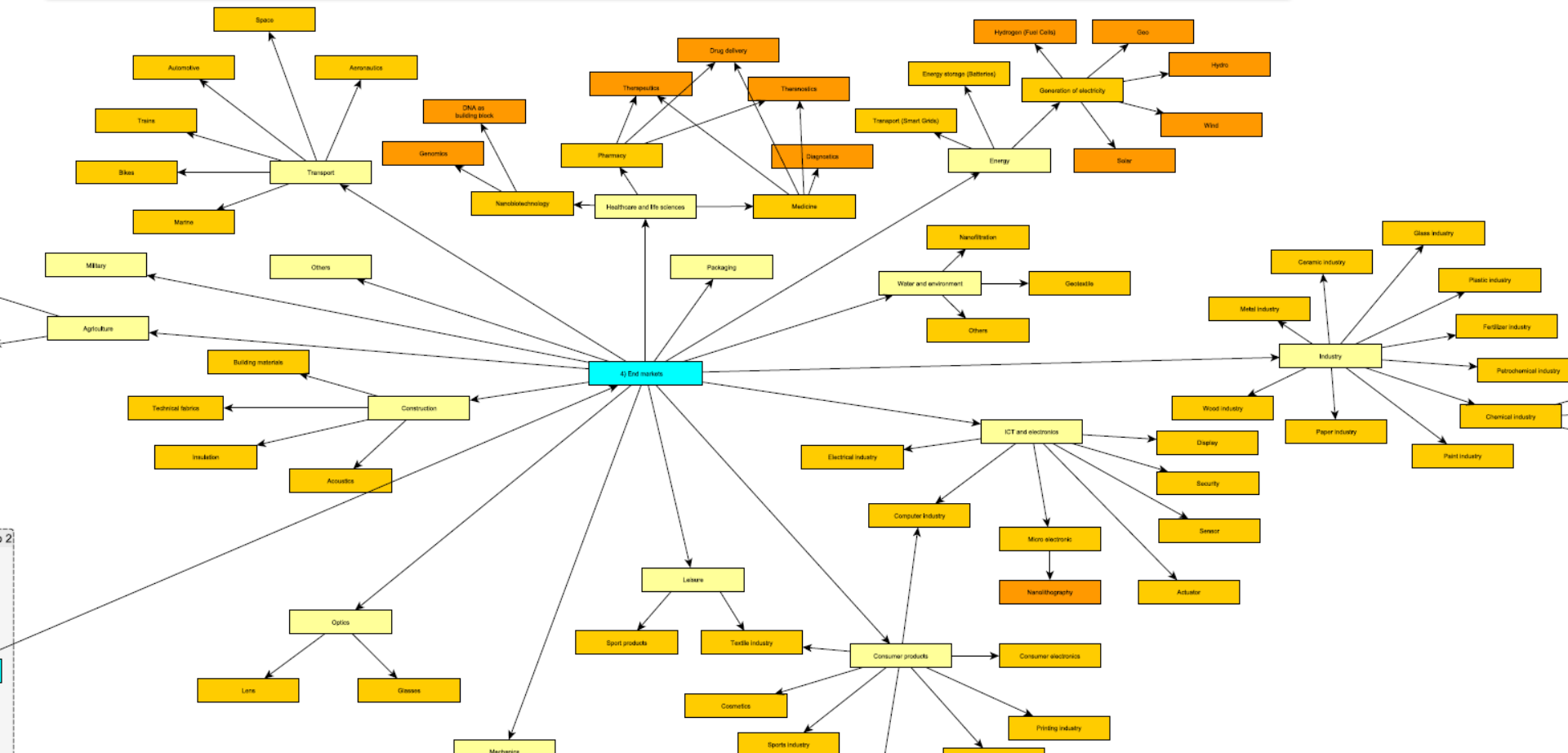


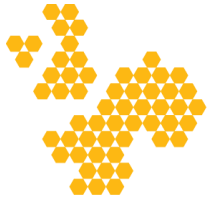
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TINCA – Category End User



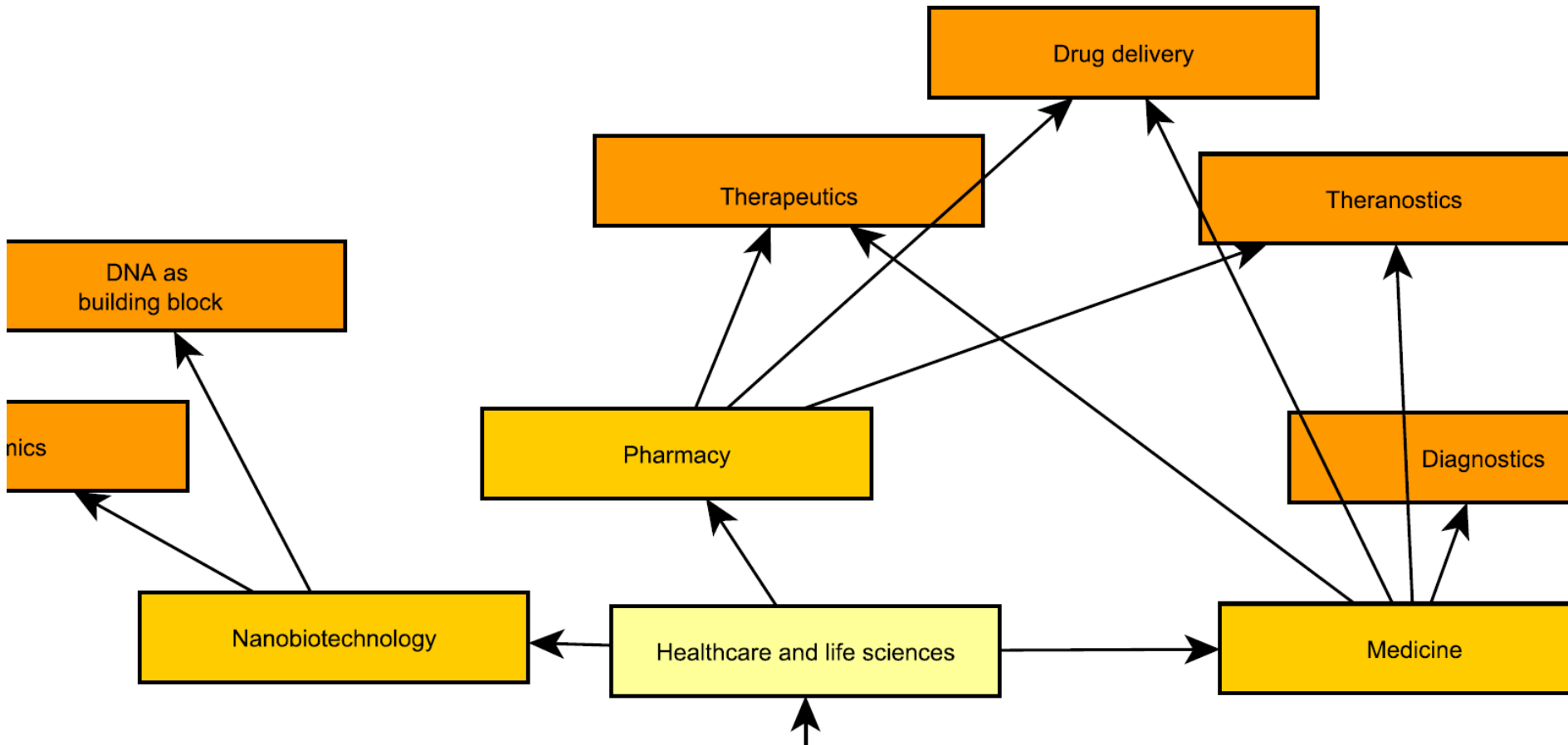


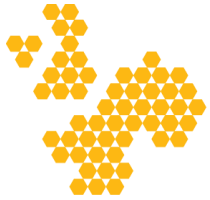
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TINCA – Category End User – Subcategory Healthcare





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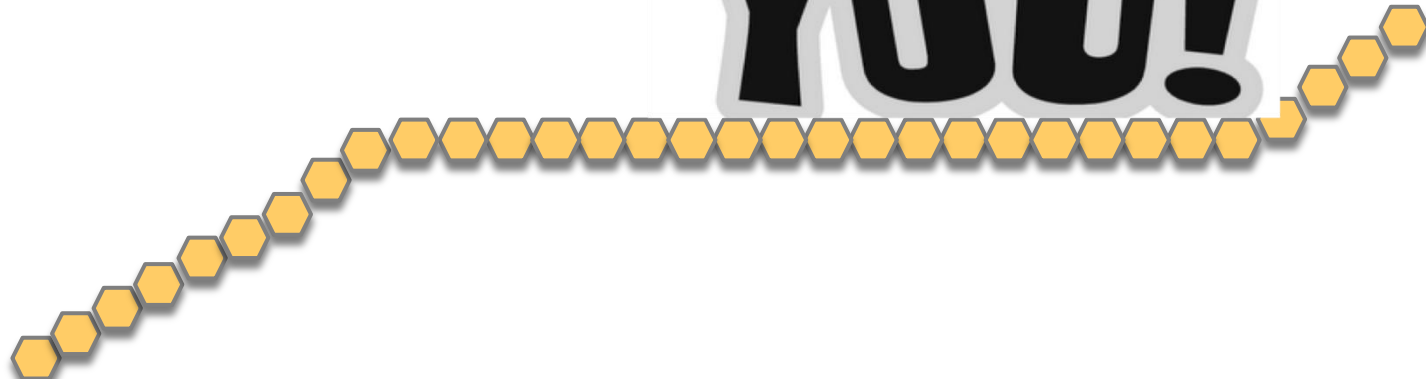


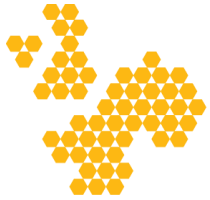
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And now a final question:

Did you like this presentation and especially the idea behind NANORA?

Then join the Alliance!





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Contact

www.nanora.eu

Sebastian Hummel

Hessian Ministry of Economics, Energy, Transport, Urban and Regional Development

Kaiser-Friedrich-Ring 75

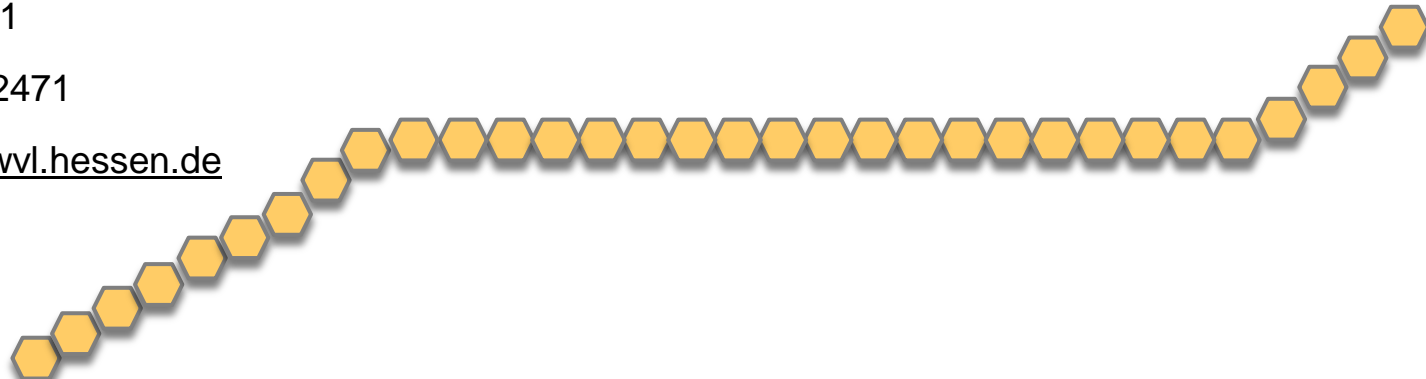
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sebastian.hummel@hmwvl.hessen.de

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GHG ACCOUNTING AS PART OF SUSTAINABILITY

REPORTING IN THE CHEMICAL INDUSTRY:

(How) Does better GHG calculation lead to improved economic performance??



GOALS



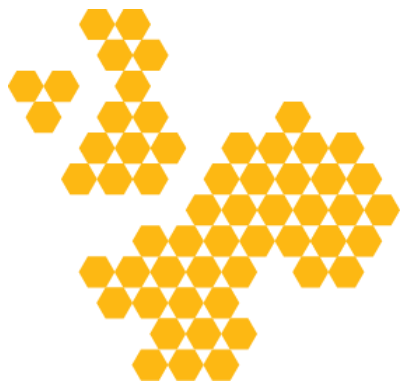
- Topic: GHG Accounting as Part of Sustainability Reporting in the Chemical Industry
- Cooperation between VCI and Climate-KIC: **In a 18-month project oriented training programme companies from the chemical industry will be practically supported by professional consultants in identifying their CO₂ footprint**
- Aim: after one day's plenary session with 100-150 participants 5-10 companies run through the 18- month program and calculate with the support of mentors exemplarily a (partial) environment or CO₂ footprint. During the 18 months, the company receives two further training sessions and at the end of the program, a final event will take place where all the participants come together for experience exchange (in total 5 days of attendance)
 - **Show limits and challenges of the various methods as well as the requirements for responsible communication**
 - **Building a knowledge community**

FACTS AND CONTACTS

- **Participation Fees:**
 - **Plenary Session:** 70 Euro (One-Day-Event with Lunch, Refreshments, Material), free of charge for VCI-members
 - **Intensive Project:** 2.000 Euro per Company

This idea can be easily adapted to other regions geht into contact with :

- **Provadis-Hochschule:**
Prof. Dr. Hannes Utikal
(hannes.utikal@provadis-hochschule.de)
- **VCI:**
Dr. Tina Buchholz (buchholz@vci.de)



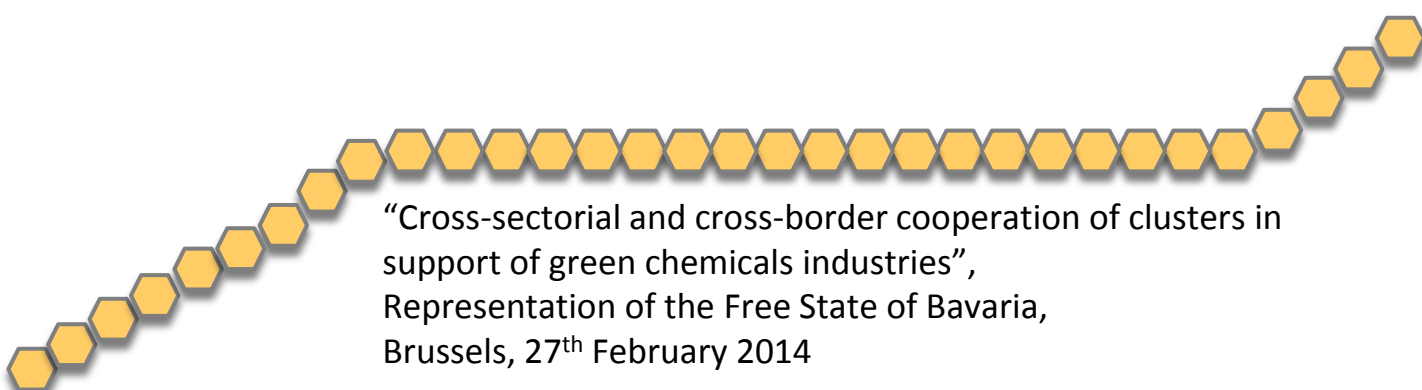
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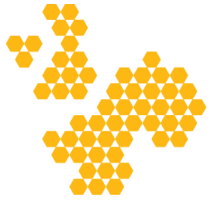


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- Thanks for your attention!



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Representation of the Free State of Bavaria,
Brussels, 27th February 2014



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