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Project Presentation: Transformation Hub for the value chain of the automotive wiring harness system

7. Fachtagung, Signal- und Leistungsvernetzung, July, 05th, 2023
Dr Andreas Boehm, Bayern Innovativ GmbH



Transformations-Hub
LEITUNGSSATZ

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ARENA2036

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Funding program of the federal ministry of economics (Bundesministerium für Wirtschaft und Klimaschutz, BMWK): Establishment of Transformation Hubs

Characteristics of Transformation Hubs :

- **nationwide**
- **thematically oriented**
- are set up along **relevant value chains** in the automotive and supplier industry
- support the necessary **transformation process** throughout Germany, quickly and effectively

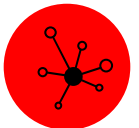
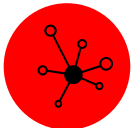
Objectives of the funding

Knowledge transfer on transformation-relevant topics

Knowledge transfer on resource and energy efficiency

Scaling of application-related R&D solutions



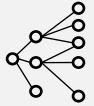






Networking of relevant actors and initiation of implementation steps




Funding program of the BMWK: The Transformation Hubs in numbers

Overview of the Transformation Hubs

11 thematically diverse hubs are being funded for the Germany-wide knowledge transfer.
The BMWK grants amount to **€47,9 Mio.**

TraWeBe  Battery	cH2ance H_2 Hydrogen	ScaleUp eDrive  el. Drivetrain	Transfer-X  Digi. Ecosyst.	DiSerHub  Buisness mod
MIAMy  Autom. Driving	TuWaS  Forming	InSuM  Interior	Taste  Software Eng.	CyberJoin  Joining techn.

Transformation Hub Wiring Harness
Wiring harness





Consortium partner of Transformation Hub Wiring Harness

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Bayern Innovativ is the „Society for Innovation and Knowledge Transfer“

- > 300 employees in cross-industry and cross-technology expert teams
- Network covers more than **32,000 customers**
- **1(n):n services - business area "Networks and Thinknet.Bayern"**: digitization, mobility, energy, health, materials & production
- **1:1 Services - Business Area "Consulting and Funding"**: Funding Pilot & Project Sponsor, Patents & Standards, Technology and Innovation Management, Cultural and Creative Industries

ARENA2036



AREANA2036 is a research-campus of BMBF at the University of Stuttgart

- >30 **academic partners** of the university, Fraunhofer, DLR, etc.
- "Industry on Campus": **>40 companies**
- **Real Use Cases**, prototypes, products ...
- Cooperation with **Startup Autobahn** (Plug&Play)
- Co-innovation platform for **future technologies**
- Legal form association (membership)
- **New building 2016: 10,000 m², thereof 6,000 m² shop floor**

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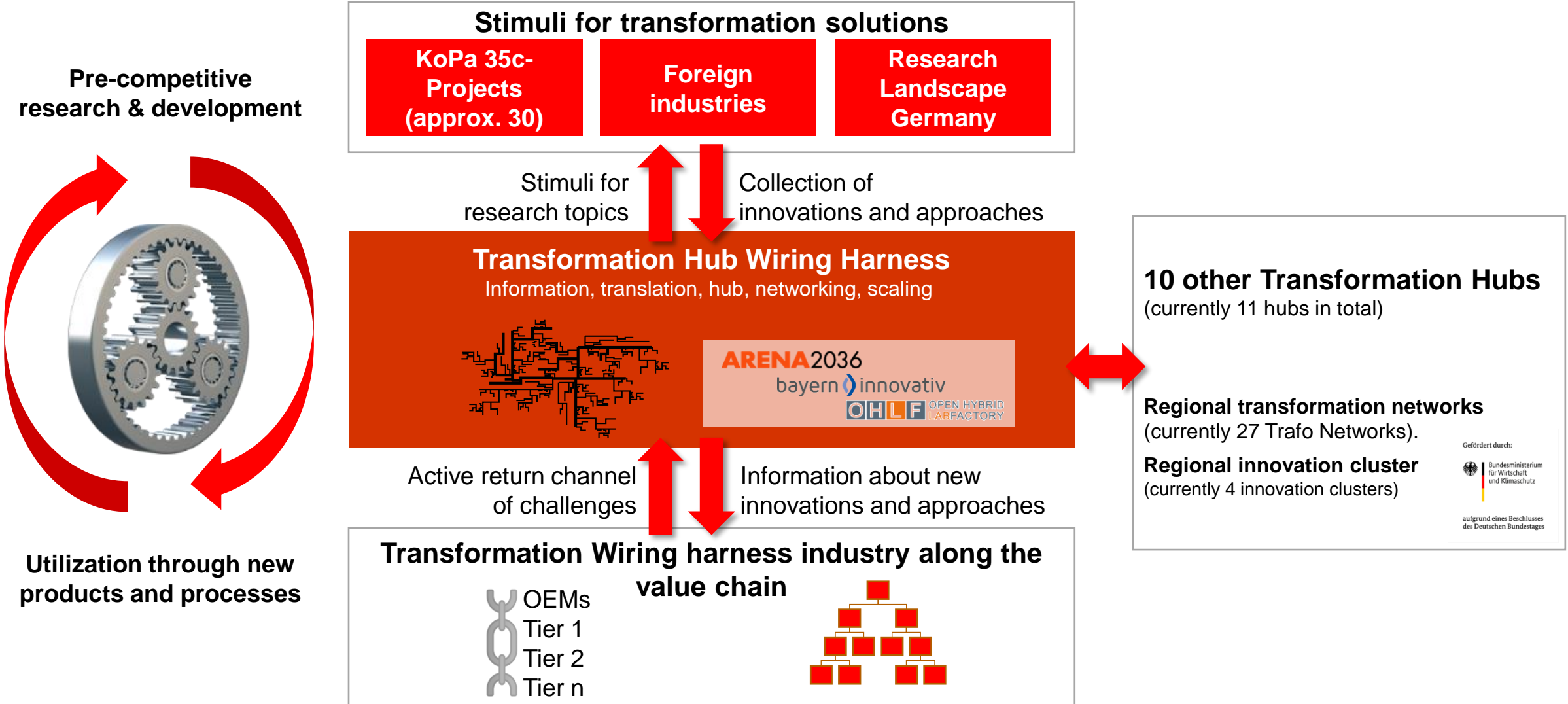
Research-campus for Circular Economy and sustainable lightweight construction

- **> 40 partners** from industry and science work on solutions for the mobility of tomorrow
- Main areas of activity:
 - **Design for Circular Economy**
 - **Circular material concepts**
 - **Processes for Reverse Production**
 - **Overall system analysis and design**
- Opening of the **Open Hybrid LabFactory in 2016 in Wolfsburg site**

The biggest challenges facing the industry



Hub function: The Transformation Hub transports industry requirements

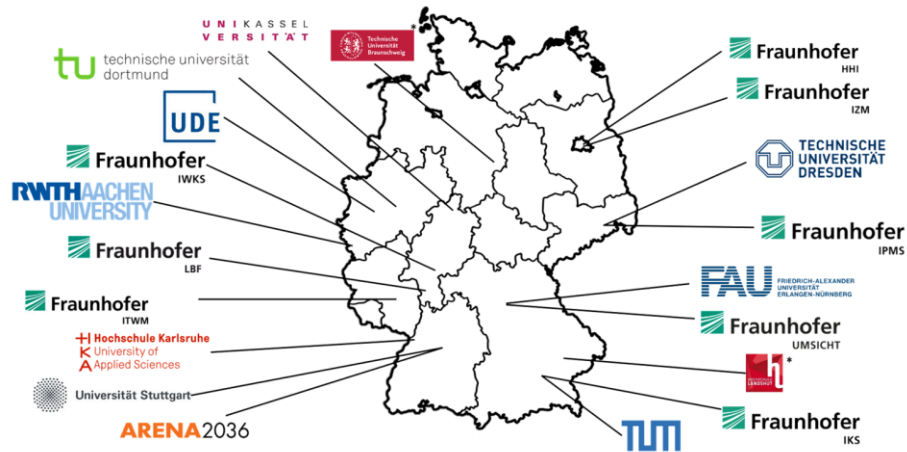


Task of the Transformation Hub Wiring Harness (1/4): Scouting

The Wiring Harness Hub **scouts interesting Trends and Technologies**

From other industries and academia as well.

Research map:



Example:
Trendradar Energie



Bildquelle: Bayern Innovativ GmbH

Example: Project map „KoPa35c“

Federal Government's economic stimulus package of 2021, Paragraph 35c "Investments in the future for vehicle manufacturers and supplier industry".

Contribution of Transformation Hub Wiring Harness

- Identification of projects related to the Wiring harness
- Initial assessment of relevance and potential for WH-Industry
- Target group (industry or value chain level)
- Implementation potentials of the topic in the WH industry
- Technology Readiness Level (TRL)

Task of the Transformation Hub Wiring Harness (2/4): Sharing Knowledge

The Wiring Harness Hub informs about news:

“Find good and talk about it”

With our events and publications, we set impulses and create perspectives for the implementation of innovations.

Events of the Wiring Harness Hub

- annual main event with an "innovation show"
- Semi-annual virtual information events
- Technical presence events



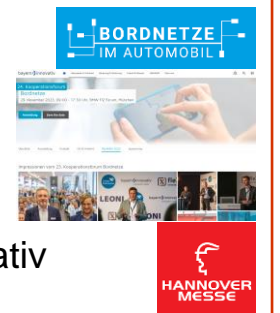
Webseite www.leitungssatz-hub.de

- Public knowledge of the solution portfolio
- Presentation of the transfer module



Fairs and congresses (Examples)

- Conference Automotive Wiring Harness, Ludwigsburg
- FAPS Fachtagung, Nürnberg
- Automotive Wiring Harness Conference, Landshut
- Conference Automotive Wiring Harness, Bayern Innovativ
- Hannover Fair, Productronica, ...



Articles in specialized media (Examples)

VDI nachrichten
TECHNIK WIRTSCHAFT GESELLSCHAFT

elektroniknet.de

WEKA
FACHMEDIEN

Elektronik
automotive

Task of the Transformation Hub Wiring Harness (3/4): Networking

The Wiring Harness-Hub **networks experts:**

We create access to the developers and leaders behind the trends and technologies.

Take the opportunity to present your approaches to the Wiring harness community in our event series

- „Trends Outlook“ and
- „Innovation Show“

Approach us with your topic!

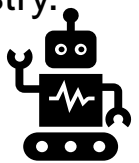
Wiring Harness-Hub Trends Outlook

Presentation of technical approaches and technological trends that are related to or could potentially be applied in the field of Wiring harnesses



Wiring Harness-Hub Innovation Show

Announcing identified highlight innovations - from the perspective and in the language of the industry.



Wiring Harness-Hub Webseite

The website as a central contact and information point. Provision of a newsletter for regular updates.



In-depth discussions

In-depth events for small groups

Discussions in person at the showcase location or at the company's premises



Task of the Transformation Hub Wiring Harness (4/4): Transformation projects

The Wiring Harness-Hub supports the transformation:

We initiate exploratory processes and feasibility studies.

From the OEM to the cable and component manufacturer to the machine builder.

From corporate groups to medium-sized companies.



The Transformation Hub Wiring Harness generates **implementation impulses** in companies



Exchange with interested companies that want to better understand individual solution modules and apply them in perspective.



Transformation projects in bilateral or multilateral collaboration (outside of the Lead Set Hub).

The advisory board represents the requirements of the Wiring harness industry

Task of the advisory board:

- **Industry perspective:**
Defines requirements and relevance of innovation impulses for the Wiring harness industry (**Agenda-Setting**).

Members of the advisory board are company representatives:

- Company representatives in leading management positions with focus on R&D & innovation in product and production.
- The aim is to integrate representatives from many **stages of the value chain** into the advisory board.

Note: The working basis is strictly **pre-competitive** information, which is prepared by the hub team. The cooperation is based on cartel law compliance.

First members of the advisory board:



Dr. Rainer König
Mercedes-Benz



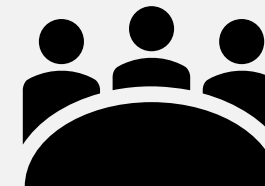
Dr. Jens Haun
Kostal



Dr. Götz Roderer
Hochschule Landshut



Martin Döring
Volkswagen



Frank Gronau
Aptiv



Hans-Jürgen Mantsch
Siemens EDA



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Wiring Harness Hub: Delimitation of our activities

WHAT WE DO

- **Scouting and evaluation** of innovation potential for the industry as a whole and also for individual "industry clusters" (subsectors)
- **Promotion** of interesting approaches
- **Connecting** the corresponding experts and know-how providers
- **Networking** of companies to explore these approaches
- **Initiation and coaching** of transformation projects
- **Integration of requirements** of the Wiring harness industry into the projects

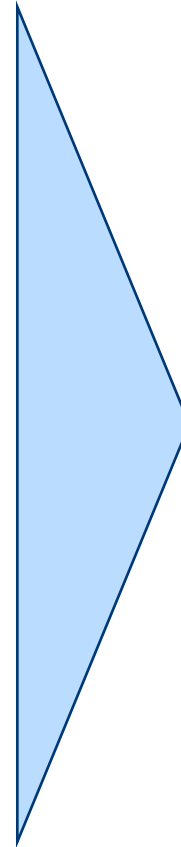
WHAT WE DO

NOT:

- Offering of **consulting scopes** (consulting)
- Carrying out **own RnD-Projects**
- Organizing and leading **working groups**
- Leading **standardization**

Contact of the Transformation Hub Wiring Harness

- You want to **stay up to date** about all events?
- You would like to be **informed about current results**?
- You would like to **present your technology** to the Wiring harness community ?
- You would like to **present the results of your research project** in the context of the Wiring harness?
- You have **relevant solutions from another industry**?



Contact us!

Find out more and
subscribe to our newsletter
on our website
www.leitungssatz-hub.de



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