



Staatlich anerkannte, private
**Fachhochschule des
Mittelstands (FHM)**

Research & Development @FHM



Strategy and Mission

FHM research strategy

- Integration of future research fields of the federal High-Tech Strategy 2025 and consideration of European strategies and priorities
- Focus on specific scientific areas that align with the FHM's core expertise and profile
- Consideration of interdisciplinary approach to deliver solution for complex socially and economically relevant challenges.

The **research mission** is to **develop solutions and approaches** especially directed towards the university's students and research partners from academia, industry, and administration. It envisions the creation and realization of projects at regional, national, and international levels.



Strategy and Mission

FHM research and development aspires

- to conduct research that has direct **applications** in industries, especially SME and the community, addressing pressing issues
- to fostering **innovation** in different areas and sectors to ensure growth
- to contribute to the **economic and societal development** of the region
- to actively engage and **collaborate** with the local community, industry partners, and other stakeholders to jointly create solution to complex challenges.
- to develop **innovative approaches** and programs providing opportunities for lifelong learning, continuous education and professional development

Research and development activities are centering on specific research areas

FHM Research areas

RESEARCH FOR THE SME SECTOR

ENTREPRENEURSHIP	SUSTAINABILITY	URBAN-RURAL RELATIONS&MOBILITY	DIGITIZATION/ SECURITY	MEDIA/ VIRTUAL REALITY	EDUCATION/ COMPETENCES/HR	HEALTH/ CARE
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INSTITUTES/ ENDOWED PROFESSORSHIPS

School of Start Ups and Succession	Center for Sustainable Governance (CSG)	Institute for Small and Medium-Sized Enterprises (IfM)	Institute for Cultural and Creative Industries (IKK)	Institute for Training and Competence Development (IfWK)	FHM Institute for Health LK Waldshut (IfG)
Centre for Bureaucratic Cost Reduction (NZBA)		Hanshin-FHM SME Institute Korea (IMK)	Cyber-Institute Düren	Institute for Sports Communication (IFS)	German-Asian SME Institute (DAMI)

RESEARCH TOPICS

Start-up	in medium-sized companies	Urban-rural relations	Industry 4.0	VR and AR in vocational and school education	Competences	
Corporate governance	at the legislator level	Economy and society in rural areas	Digitization in SME	VR in higher education	Vocational and academic education	Sports
Succession management	in municipal organisations	Location analyses for SME	Working in the digital world	VR in product design and prototyping	Digital education	Prevention
Innovation	Sustainable consumption	Demographie	Cyber Security	VR and AR in journalism	Employability	Health
Red Tape Assessment	Sustainable education				Retention of skilled workers/diversity	Nutrition

Infrastructure

Head of Project development Head of Finance administration	Head of Institutes	Research directors Research coordinators
Ideation and project development	Promotion of innovation in respective sector and area	Scientific area development
Project preparation	Collaboration with respective sector	Thematical development
Project coordination and realisation	Applied research and development	Product development
Project finalisation and closing	Network and external partnership	Project development
Quality	Profiling and Growth	Innovation

SME RESEARCH

ENTREPRENEURSHIP	SUSTAINABILITY	URBAN AND RURAL & MOBILITY	DIGITALISATION/CYBER SECURITY	NEW TECHNOLOGIES	EDUCATION/COMPETENCES	HEALTH/CARE
IUG NZBA	CSG	IfM IMK	IfM Cyber-Institut Düren	IKK IfS	IWK DAMI	Institut für Gesundheit
<ul style="list-style-type: none"> ▶ ADA (Erasmus+) ▶ BIX (KBV) 	<ul style="list-style-type: none"> ▶ CREDinGREEN (E+, VET) ▶ GIF (E+, VET) ▶ L2C (E+, VET) ▶ PackLess (E+,VET) ▶ Shift2Green (E+,VET) ▶ CircuIEC (E+, CBHE) ▶ ECOsumer (E+, VET) 	<ul style="list-style-type: none"> ▶ Open Innovation City (MWIKE NRW) ▶ Sektorkopplung (BMWK) ▶ Faktor X (BMWK) ▶ Transformationslabor Hochschule (Stiferverband) 	<ul style="list-style-type: none"> ▶ DigiKomS (BMBF) ▶ Cyber-Institut Düren (Kreis Düren NRW) ▶ EyesOnCS (E+, VET) ▶ MEDIA (E+, CBHE) ▶ Denkschmiede Hennef (Land NRW) 	<ul style="list-style-type: none"> ▶ ISENSE (E+, HE) ▶ VR4ALL (E+, HE) ▶ ASSISTANT (E+, HE) ▶ KI-& Digitaloffensive Handwerk (MWIKE NRW) 	<ul style="list-style-type: none"> ▶ STEAM (E+, HE) ▶ CTML (E+,VET) ▶ BFF (SBH West) ▶ HYBOT (E+, HE) ▶ CRED4TEACH (E+, CBHE) ▶ UNICOM (E+, CBHE) ▶ NEARVET (E+, FLP) ▶ ASD-INToJOB (E+, VET) ▶ STREAM (E+, FLP) 	<ul style="list-style-type: none"> ▶ IfG Waldshut

Topics and Areas

TOPICS

- Sustainability – Circular Economy
- New Technologies – AI and Cyber security in VET
- Resilience and Psychology
- Inclusion, Participation and Open Innovation in Ecosystem of Cities and Regions

Methodologies/approaches/tools from other projects

- Gamified Webapplication (e.g. GoBeEco/Shift2Green)
- Massive Open Online Courses
- Digitization Index
- Chatbots
- Mentoring Platform (Online Trainings & Communication between Mentor&Mentee)
- Mobile Learning System (e.g. MobiLEx)
- Digital/Sustainable tools handbook
- Curricula development
- ...