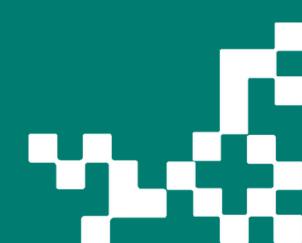
Higher Education for Resilience-Oriented and Empowered Societies



Knowledge is power.
Resilience and innovation are superpowers.









Presentation of the HEROES project WP5 – Joint practice-oriented scientific research hub

Presenter: doc. Ing. Pavlína Adam, Ph.D.

Date: 16.4.2025





9 Universities Involved

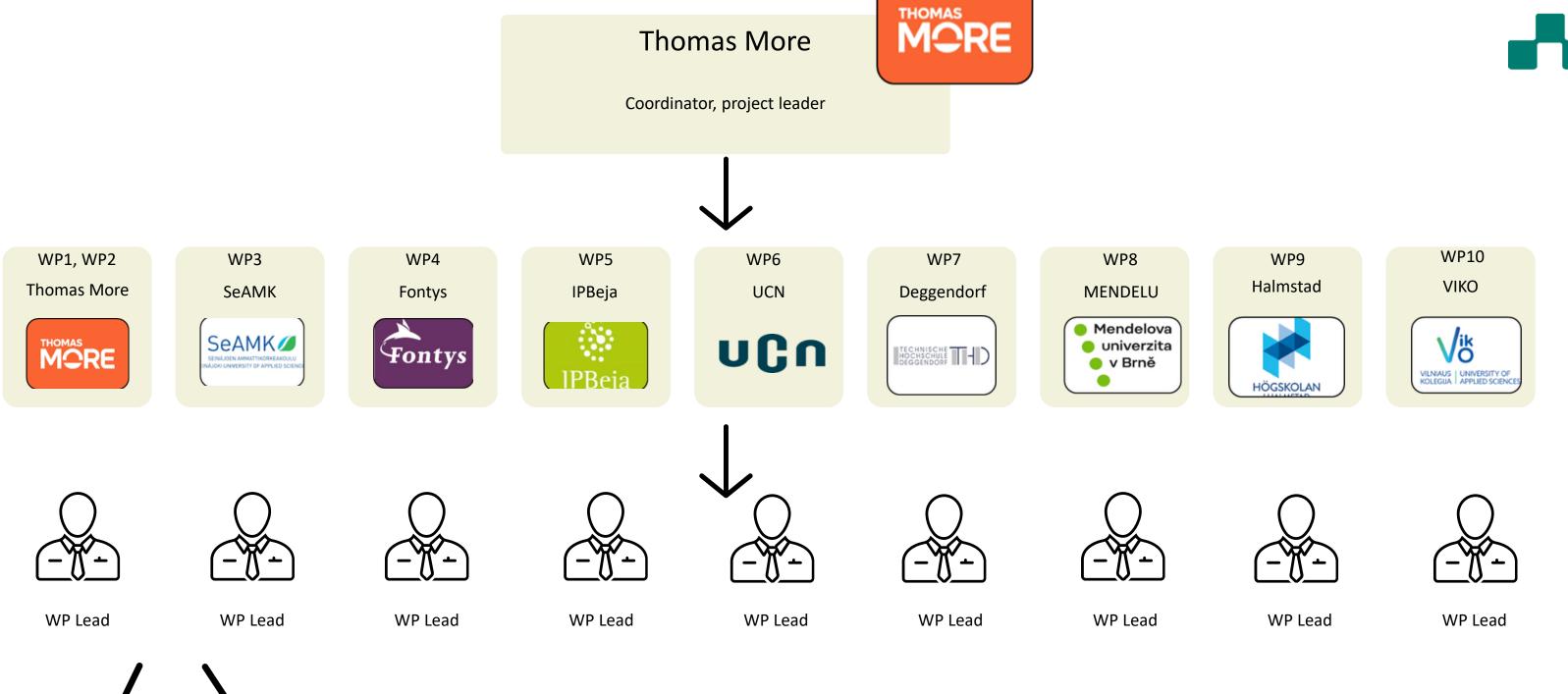
- Thomas More University of Applied Sciences (Belgium)
- Deggendorf Institute of Technology (Germany)
- Polytechnic University of Beja (Portugal)
- Mendel University in Brno (Czech Republic)
- Fontys University of Applied Sciences (Netherlands)
- •University College of Northern Denmark (Denmark)
- •Seinajoki University of Applied Sciences (Finland)
- Halmstad University (Sweden)
- Vilnius Kolegija (Lithuania)

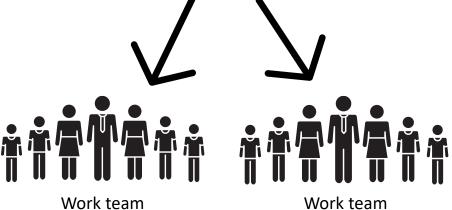
5 Associated partners

- Artois University (France)
- Isamil Qemali University of Vlore (Albania)
- Hellenic Mediterranean University (Greece)
- Universum International College (Kosovo)
- Ukranian Catholic University (Ukraine)









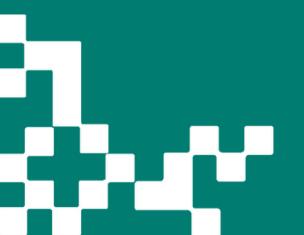
Work team

- Each partner is a leader of 1 WP (Thomas More leads 2 WP)
- WP Lead (from leading institution) leads work team of WP managers from all participating institutions
- Each WP manager acts on behalf of their institution and can lead other work Teams on site



WP5 Joint practice-oriented scientific research hub (EDUCATION4REGIONS)

Leading University: The Polytechnic Institute of Beja





The Goal

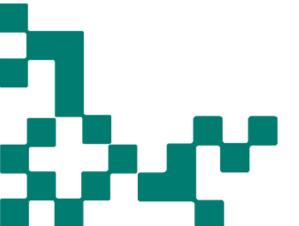


To strengthen joint, practice-oriented scientific research capabilities

- Partners collaborate to establish the ,HEROES4REGIONS' joint research hub, organised in an agile pod structure
- This arrangement empowers knowledge and innovation-creating teams to engage in collaborative, challenge-based research and Innovation projects aimed at advancing smart regional resilience

The level of collaboration follows a step-by-step approach

- Initial creation of flexible pod network and (inter) disciplinary matchmaking
- Sharing of facilities and support services
- Collaboration in new research, development, Innovation or knowledge transfer







SPECIFIC OBJECTIVES

- T5.1 ESTABLISH INTERINSTITUTIONAL RESEARCH NETWORKS (PODS) (M01-M48)
- T5.2 ACTION PLAN FOR THE SHARING OF RESEARCH FACILITIES AND SELECTED SUPPORT SERVICES (M01-M48)
- T5.3 JOINT PROTOCOL FOR CHALLENGE-BASED INNOVATION(M10-M48)
- T5.4 SELECTION AND PILOTING SMALL-SCALE COOPERATION PROJECTS(M09-M48)



T5.1 ESTABLISH INTERINSTITUTIONAL RESEARCH NETWORKS(M01-M48)

- The partners create interinstitutional research networks (pods), within key areas that reflect the strengths of the partners and impact the resilience of people, business and nature
- **≻**Agriculture and food (MEN lead)
- ➤ Care and wellbeing
- **➢ Circular economy (MEN)**
- **→ Digital transformation (MEN)**
- ➤ Education, learning & inclusion
- > Regional development (MEN)



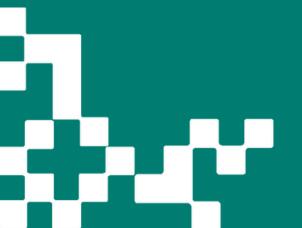


Agriculture and food

- This pod assembles expert networks in sustainable agri-food systems, business management and economics in agri-food, nutrition, food safety, agrisciences, horticulture, agriculture and forestry
- > POD FACILITATOR CONTACT:

Ing. Jakub Pečenka, Ph.D.

Jakub.pecenka@mendelu.cz





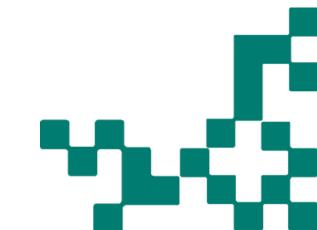
Circular economy

- This pod creates expert networks in circular business models, sustainable entrepreneurship, circularity of (building) materials, resource wisdom and resource efficiency
- This POD is facilitated by Seinäjoki University of Applied Sciences SeAMK
- >MENDELU CONTACT:

Doc. PhDr. Martina Rašticová, Ph.D.

martina.rasticova@mendelu.cz





Digital transformation

- This transversal pod assembles experts in extended reality, applied artificial intelligence, embedded systems, middleware, 3D scanning, high-performance computing, spatial computing, modeling and printing, data science, digital twins, robotics, intelligent mobility and (industrial) IoT, digital ethics, usability engineering
- This POD is facilitated by **Deggendorf Institute of Technology**





Regional development

- ➤ This transversal POD creates expert networks in business/Innovation ecosystems, innovative tourism, rural development and smart cities and communities
- This POD is facilitated by Halmstad University
- > MENDELU CONTACT:

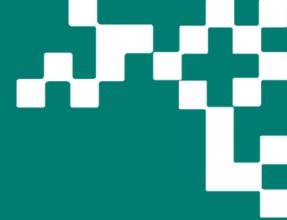
Ing. Jiří Schneider, Ph.D.

jiri.schneider@mendelu.cz









- Pod facilitators organise a series of activities with the purpose of strengthening the network and collaboratively develop a challenge-based agenda. The following activities are included:
- >online and physical meetings
- >peer-to-peer workshops
- > Brainstorming retreats
- >Strategic research agenda feedback sessions with local stakeholders



Anticipated results:

- >An overview of the pod structure
- For each pod, a collective research agenda with a funding strategy









• Sharing of research facilities and support services (M01-M12)

An overview of available educational and research infrastructure facilities \rightarrow a protocol for opening up infrastructure and facilities

• Pooled resources for grant acquisition (M06-M46)

An overview of all staff involved in EU funding advice or proposal writing support \rightarrow funding strategy and pathway aligned with the common research agenda on smart regional resilience \rightarrow meetings to share good practices in project management and reporting \rightarrow list of regional funding programme representatives, meetings with them to present the Alliance for brokering



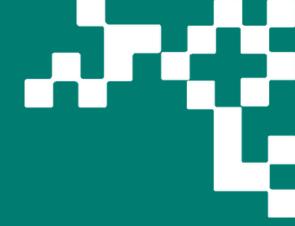
T5.2 ACTION PLAN- for the sharing of research facilities and selected support services (M01-M48)

- Shared capacity in ,open science' for applied sciences (MEN M25-M36)
- Internal workshops to deepen insights on open science for practice oriented scientific research(M25, M27, M29, M33, M34)
- > An exploratory note outlining an approach for ,open applied science' (M36)
- A common webinar information session on the EU Open Science Policy, a web FAIR data and services and current evolutions in the field(M36)
- Career development in practice-oriented scientific research(M37-M48)
- Roundtable discussion on research career development, to share good practices





T5.3 DEVELOP A JOINT PROTOCOL FOR CHALLENGE-BASED INNOVATION (M10-M48)



• Working group develops **HEROES4REGIONS** challenge-based Innovation program aiming to enhance one-to-one knowledge and technology transfer, addressing specific challenges faced by local businesses, organisations, and communities in terms of smart regional resilience, with a distinct transnational focus



T5.3 DEVELOP A JOINT PROTOCOL FOR CHALLENGE-BASED INNOVATION (M10-M48)

• The program unfolds in 2 phases:

► Preparatory (M10-M24)

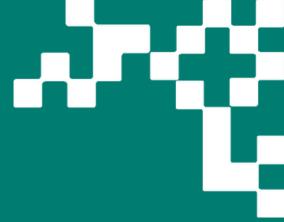
Stakeholder engagement, mapping of existing tools and services, **Creating a framework** and protocol **that facilitates the efficient screening and allocation of challenges to research pods** and knowledge-creating Teams across the HEROES regions

►Implementation (M25-M48)

Applying the framework, collaboration solution development, the programme also aligns with the needs of the local ecosystem and harnesses the potential of **transnational collaboration**



T5.4 SELECT AND PILOT SMALL-SCALE COOPERATION PROJECTS (M09-M48)



- The partners elaborate a **lean and light procedure** to enhance collaboration between HEROES partners in research and Innovation in the thematic priority areas
- Interinstitutional research teams can apply for support in order to develop a small-scale collaboration with the potential for expansion afterwards
- Research/Innovation activities per se are excluded, the support focuses on the framework conditions for enhanced cooperation



DELIVERABLES

- D5.1 AN OVERVIEW of partners' research management staff involved in interinstitutional research pods M5 (May 2025)
- D5.2 A COMMON STRATEGY AGENDA developed by the interinstitutional research pods aligned with smart regional resilience and including a strategy and pathway for funding M23







DELIVERABLES

- D5.3 AN UPDATED OVERVIEW of partners' research management staff involved in interinstitutional research pods M36
- **D5.4 FINAL REPORT** with a detailed overview of the joint activities of the practice-oriented scientific research hub, including a portfolio of piloted joint cooperation development projects for practice-oriented scientific research and market uptake and other collaboration **M48**



MILESTONES

- MILESTONE 14 First call small-scale collaboration projects launched M15
- Description: The first call has been launched for the submission of application for small-scale collaboration projects
- > Means of Verification: Communication of the procedure and the selection criteria for participants

- MILESTONE 15 A protocol for challenge-based Innovation is available for implementation M25
- Description: Research pods effectively align local challenges with their own research capabilities and with institutional business development services, thereby fostering transnational collaboration
- Means of Verification: Local challenges, whether they involve research questions or innovation needs, are efficiently directed to the appropriate knowledge-creating teams









17/4/2025

- LIST of people for each partner's research management staff— name of each member of the staff, a short description of the functions and responsibilities within the partner institution, the relation of each member of the staff to each POD, email, if available ORCID
- ➤ An overview of research management staff connecting the list of people, the relation with the PODs, the role in the structure of the organization

8/5/2025

- Overview of the overall institution scientific research structure (including the hierarchical division and organigram
- > Names and contacts of people in charge of each part of the research structure



Thank you for your attention

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Ing. Petra Coufalová
petra.coufalova@mendelu.cz

