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innov:ATE

European Digital Innovation Hub for
Agriculture, Timber and Energy

We develop digital SME champions—innovative, competitive, and efficient companies that drive the European economy forward. The INNOVATE team combines digitalization, innovation, and industry expertise. With intellect, intuition, and passion, we think boldly, embracing both tradition and a pioneering spirit. We are a non-profit organization, and our programs are free for SMEs.

www.edih-innovate.at

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The European Digital Innovation Hubs (EDIHs) are part of the EU's "Digital Europe" program. This program aims to establish a comprehensive network of EDIHs across the European Union to support the digital transformation of businesses and public administration.

DIGITALIZATION MADE PRACTICAL

INNOVATE is Austria's European Digital Innovation Hub for agriculture, wood, energy, food technology, and the circular economy. We work together with European small and medium-sized enterprises (SMEs) on their digitalization—free of charge

Our Focus

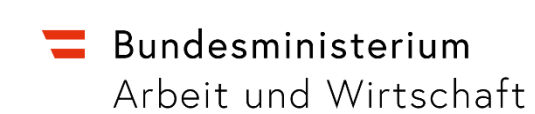## Agriculture

Field robotics - Computer vision - Precision farming in arable farming, grassland and animal husbandry - GIS/ geomatics - Evaluation of satellite data - Farm management systems - Continuous systems - Drones in agriculture - Photovoltaic applications

Timber

AR/VR in sales - robotics, CNC, 3D printing - digital twin and BIM - process modeling and artificial intelligence - quality assurance and multisensor technology - online configuration - transport and logistics - fractal production - smart harvesting - smart forest management

Energy

Energy Efficiency and Flexibility in Industry - Energy Communities - Citizen Participation in the Energy Transition - Integration of Renewable Energy Sources - Supply and Demand Side Management - Forecasting - Regional Energy Systems -

Circular Economy

Traceability- CE-Software- Cloud-Computing- Digital Twin-Augmented Reality- Virtual Reality-3D-Printing- Big Data- AI-Blockchain- IoT

Are you a small or medium-sized enterprise (SME) with fewer than 3,000 employees?
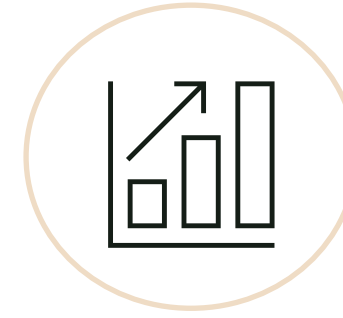If so, we offer free support for your digital transformation!

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Skills and Training

- ➤ Innovate continuously offers training and events on specific specialist topics in the fields of digitalization in agriculture, timber, energy, and the circular economy.

- ➤ The structure of each training session varies depending on the topic and includes, among other things:

  - o Workshops
  - o Prototype Bootcamps
  - o Best Practice Besuche
  - o Accelerators

Support to find Investments

- ➤ Innovate provides services and consulting for securing additional funding sources.

- ➤ This may include applying for research funding in cases where further development is needed. On the other hand, Innovate also offers support in securing venture capital.

  - ➤ The "Support to Find Investments" program offers assistance on various levels

    - o Information sessions
    - o Presentation and Consolidation
    - o Implementation and contract negotiation

Test before Invest

- ➤ A compact digitalization project within your company

- ➤ We create the proposal for you. Innovate provides access to infrastructure and expertise, including, among others, competence centers and research institutions.

- ➤ Our experts cover all areas of digitalization in agriculture, forestry, wood, energy, and the circular economy.

- ➤ Together with you, we solve challenges and develop tailored solutions to promote innovation.

Networking

- ➤ We facilitate the integration of Austrian SMEs and medium-sized enterprises into European innovation ecosystems.

- ➤ At the international level, we work closely with European Digital Innovation Hubs (EDIHs) that share a similar thematic focus, including agriculture, forestry, wood, energy, and the circular economy.

- ➤ Through a close partnership with the Digital Transformation Accelerator (DTA) of the European Commission, we are establishing a network of European expertise that will be accessible to local SMEs and medium-sized enterprises.

AI-generated video instructions for fruit and vegetable growing

Test-before-invest
Stefan Fenz, SBA Research

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INTRO

- Instruction in fruit and vegetable growing ensures safety in the workplace and improves the quality of the products produced.

- However, implementing the instructions on a permanent basis can be a challenge.

- Instructions in the form of videos could facilitate implementation and offer a low-threshold learning opportunity.

- Goal: Low-threshold access to important information. The use of AI-generated video instructions could reduce the time and cost of creating them and increase acceptance among those being trained.

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TEST BEFORE INVEST GOALS

- Exploring the potential of AI-generated video instruction

- Explore existing AI tools for creation

- Production of exemplary videos with the help of existing AI tools based on textual instruction documents provided by the service recipient:

  - Hand washing

  - Handling knives

  - Personal cleanliness

- Publication of the videos on video platforms in order to have them tested by the service recipient in real operation
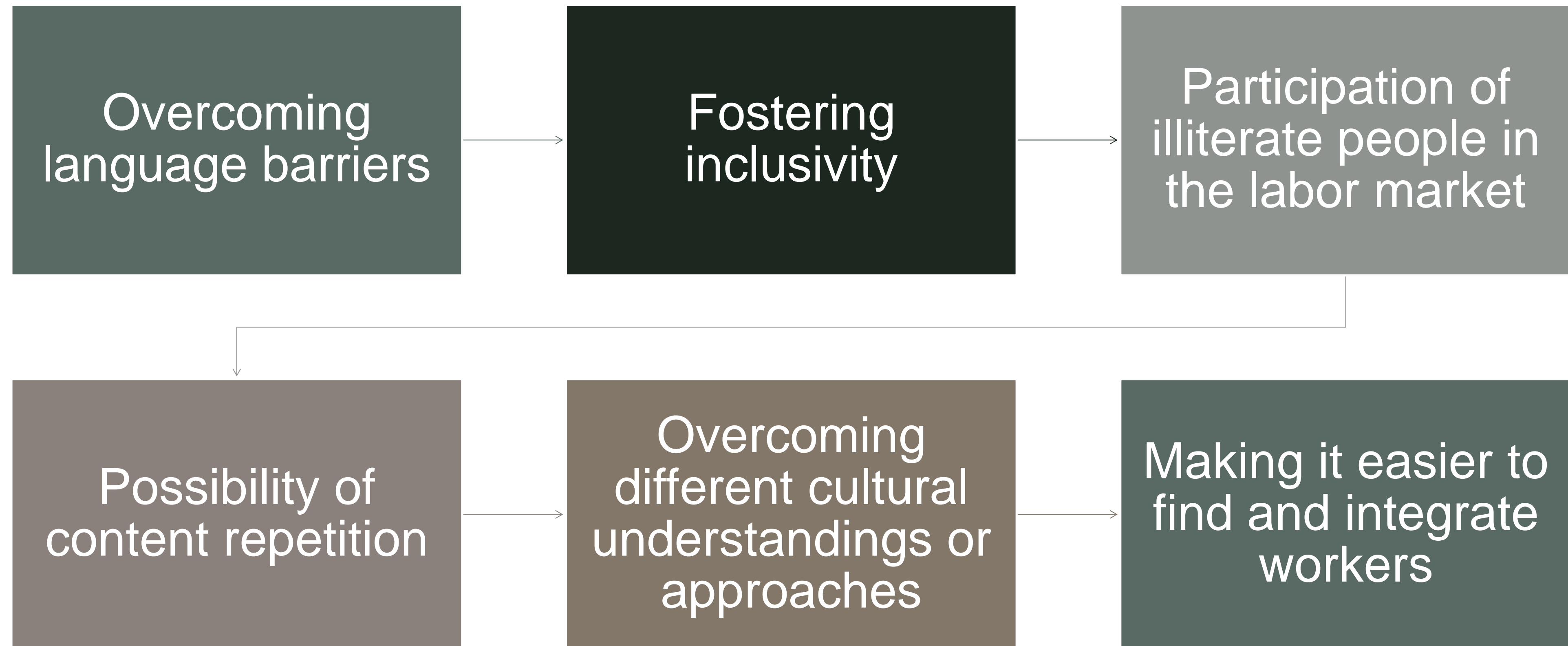
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AI USE

- Text-to-video technologies (e.g.: synthesia.io)

- Set of Videos (20-30s) and fast creation

- Basis = operating instructions which can be displayed in text or with pictograms; Prep-Work: text structure and breaks for the AI Avatar

  - Current test with languages polish & vietnamese

- Subtitles Automated translations

- Test-before-invest - Topics:
  - Handling knives
  - Hygiene topic hand washing
  - Personal cleanliness and health

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FURTHER ADVANTAGES

Overcoming language barriers → Fostering inclusivity → Participation of illiterate people in the labor market

Possibility of content repetition → Overcoming different cultural understandings or approaches → Making it easier to find and integrate workers

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