Smart Transformation Labs

HOCHSCHULE ANHALT University of Applied Sciences





Supporting digital transformation processes in agriculture

Water is becoming scarcer, weather patterns more volatile, fertilizers more expensive, bureaucracy more time-consuming, and international competition fiercer; German agriculture faces immense challenges that new digital tools can help address. Consequently, the farm of the future must consistently utilize digital technologies and be comprehensively interconnected with upstream and downstream production sectors.

The TRANSFORM research project aims to facilitate the seamless transformation of existing farm systems into future-oriented operations. Key areas of focus include the close integration of economic and ecological perspectives; the development of innovative irrigation strategies of particular regional relevance; the advancement of crop protection through digital technologies; the logistical optimization of processes; and the promotion of biodiversity, thereby enhancing the effectiveness of ecosystem services. „Smart Transformation Labs" at the Magdeburg and Bernburg serve to facilitate knowledge transfer and provide hands-on experience with digital technologies in agriculture.

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