



**FRANCISCO JOSEPHINUM  
FH WIENER NEUSTADT**  
Agrartechnologie & Digital Farming  
Wieselburg



GEFÖRDERT IM RAHMEN DER  
FTI-STRATEGIE NIEDERÖSTERREICH 2027

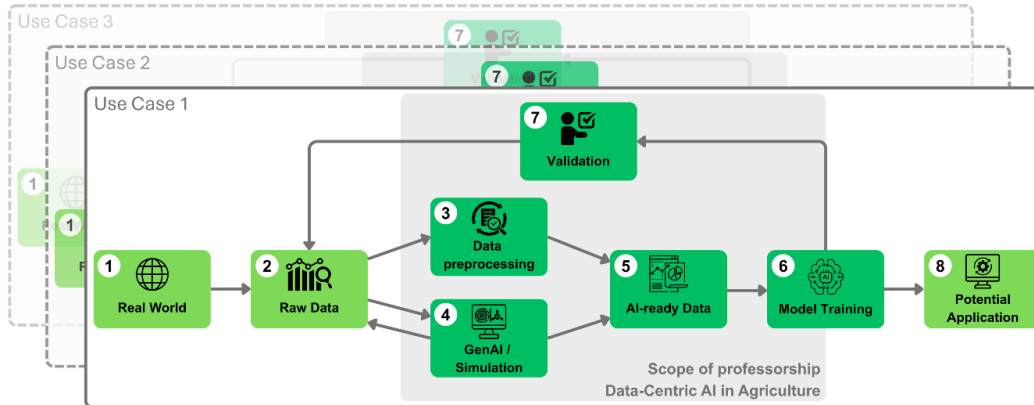
# ***RTI-ENDOWED PROFESSORSHIPS***

## **Data-Centric AI in Agriculture**

*Artificial Intelligence in the RTI priority area  
“Environment, climate & resources”*

## Focus on

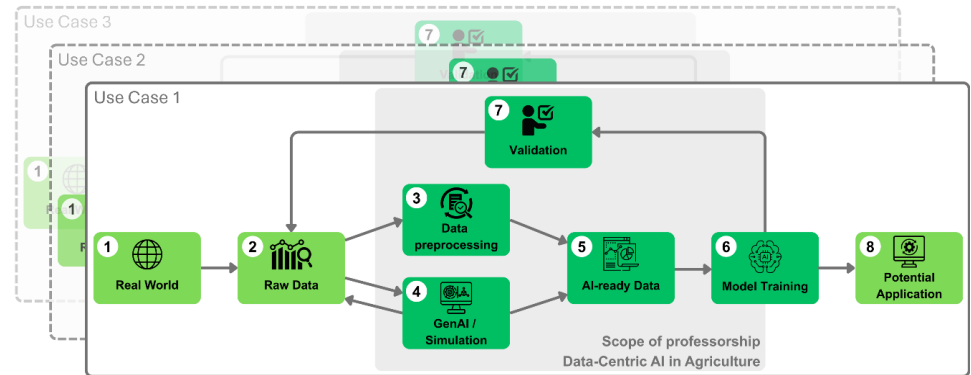
*Instead of architecture and model development, the focus lies on **AI-supported preparation, generation, augmentation and efficient utilization of data** to form the foundation for advancing AI models and enabling impactful applications in agriculture.*



# RTI-ENDOWED PROFESSORSHIPS

## Focus on

- Rely on existing or provided data (2) collected from real world scenarios (1)
- Improve and process the data (3) or generate new data (4) by researching innovative methods
- Use resulting AI-ready data (5) to train SOTA models (6) while independent test data (7) ensures actually measurable performance gains
- Integrate the models into potential applications (8)



# RTI-ENDOWED PROFESSORSHIPS

Why are we focusing on data-centric AI in agriculture?

## AGRICULTURE

### Characteristics

- Heterogenous data
- Diverse modalities
- Diverse environmental conditions

### Affects

- Food security
- Sustainable land-use
- Climate-change adaption

SUSTAINABLE CROP  
PROTECTION &  
BIODIVERSITY [UC1]

Climate change  
adaption

CROP GROWTH  
MODELING [UC2]

Environment

DECISION SUPPORT  
SYSTEMS [UC3]

Sustainable resource  
management

# Administration and Organization

Core Team of planned working group (FTE: 2,88 persons; duration: 6 years)



**Professor (FHWN)**  
Head of the group



**Research Associate (JR)**  
Agricultural Technology (Post-Doc)



**Research Associate (FHWN)**  
Computer or Data science  
(Prae-Doc / PhD Student)



**Scientific and Technical Staff (FHWN/JR)**  
Diverse professions (Master and  
bachelor students)



**Scientific Advisory Board (FHWN / JR / ...)**



**ELSA Advisory Board (FHWN / JR / ...)**



**We look forward to a successful collaboration**