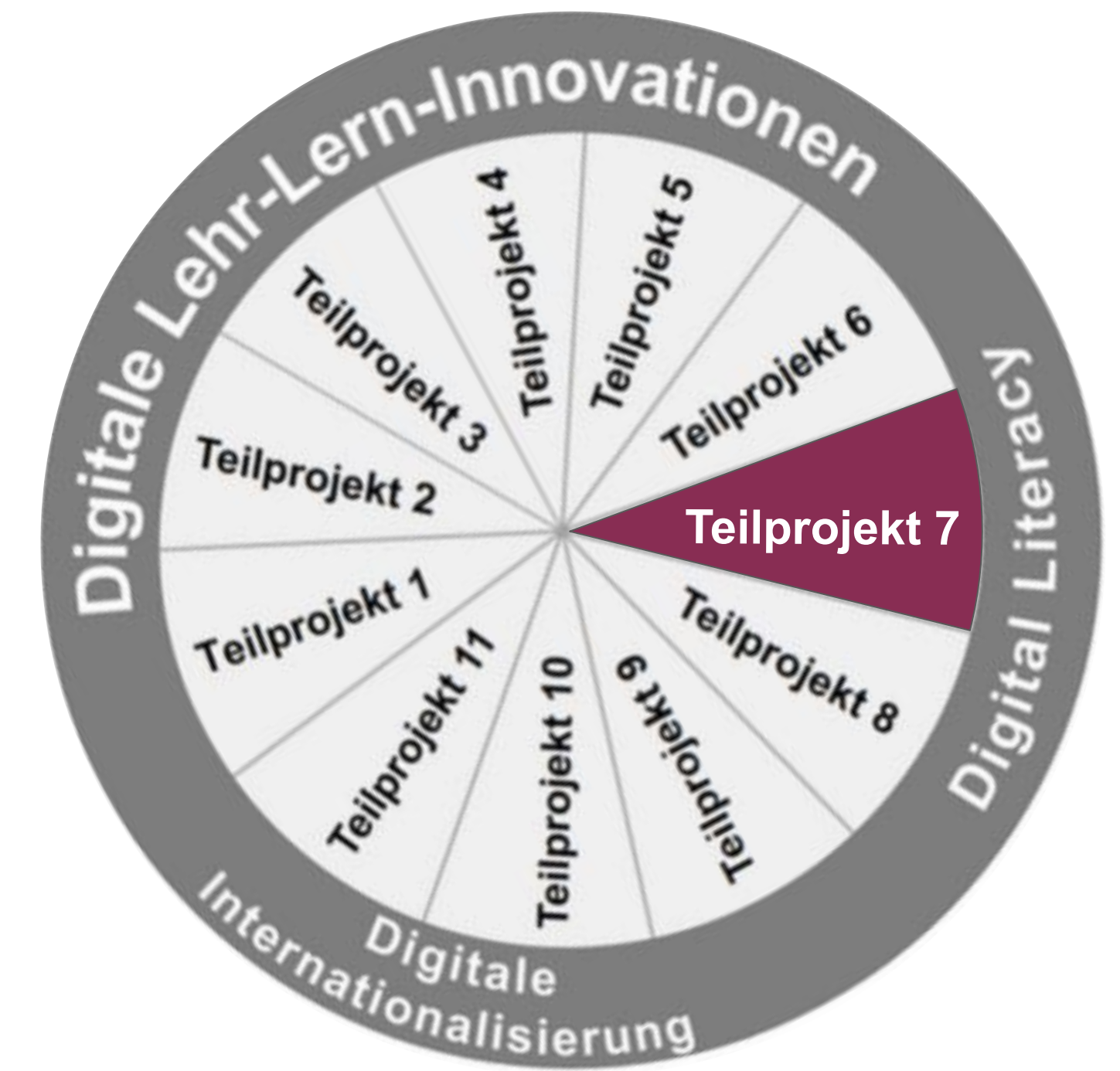


DATAxtended

Digital tools fostering data literacy skills in teaching

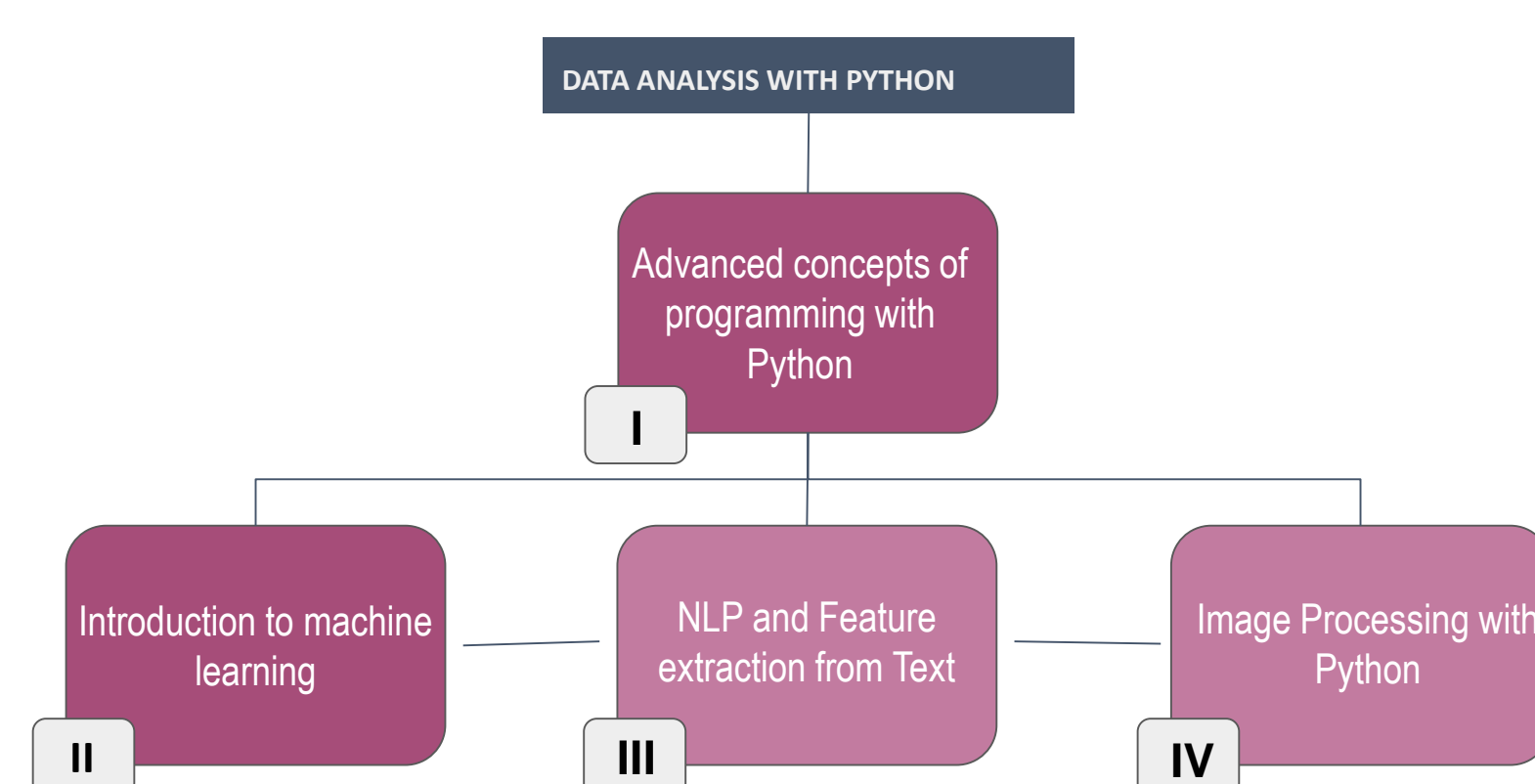
Christoph Wegener, Bernmet Usenova, Burkhardt Funk, Francisco Arcila



AZ1

Expansion of the Teaching offer

- Implementation of the teaching offer and permanent anchoring in the curriculum.
- Develop the four modules and recruit instructors from the faculties.
- Survey of expected data literacy needs of college students in semesters 2-6.



I Programming skills are deepened and an overview of basic computer science concepts are provided.

Follow-up courses

- II "Introduction to Machine Learning"
- III "NLP and feature extraction from text"
- &
- IV "Image processing with Python"

All are independent modules that can be taken building on the skills acquired in

I

AZ2

New Micro-Teaching Format

Organization and production of modular and target group-oriented online courses to improve data literacy.



- Collection of the teaching material to be digitized
- Creation of teaching materials
- Digitizing courses in form of Videos and Screencasts

Preparatory math video course for bachelor students

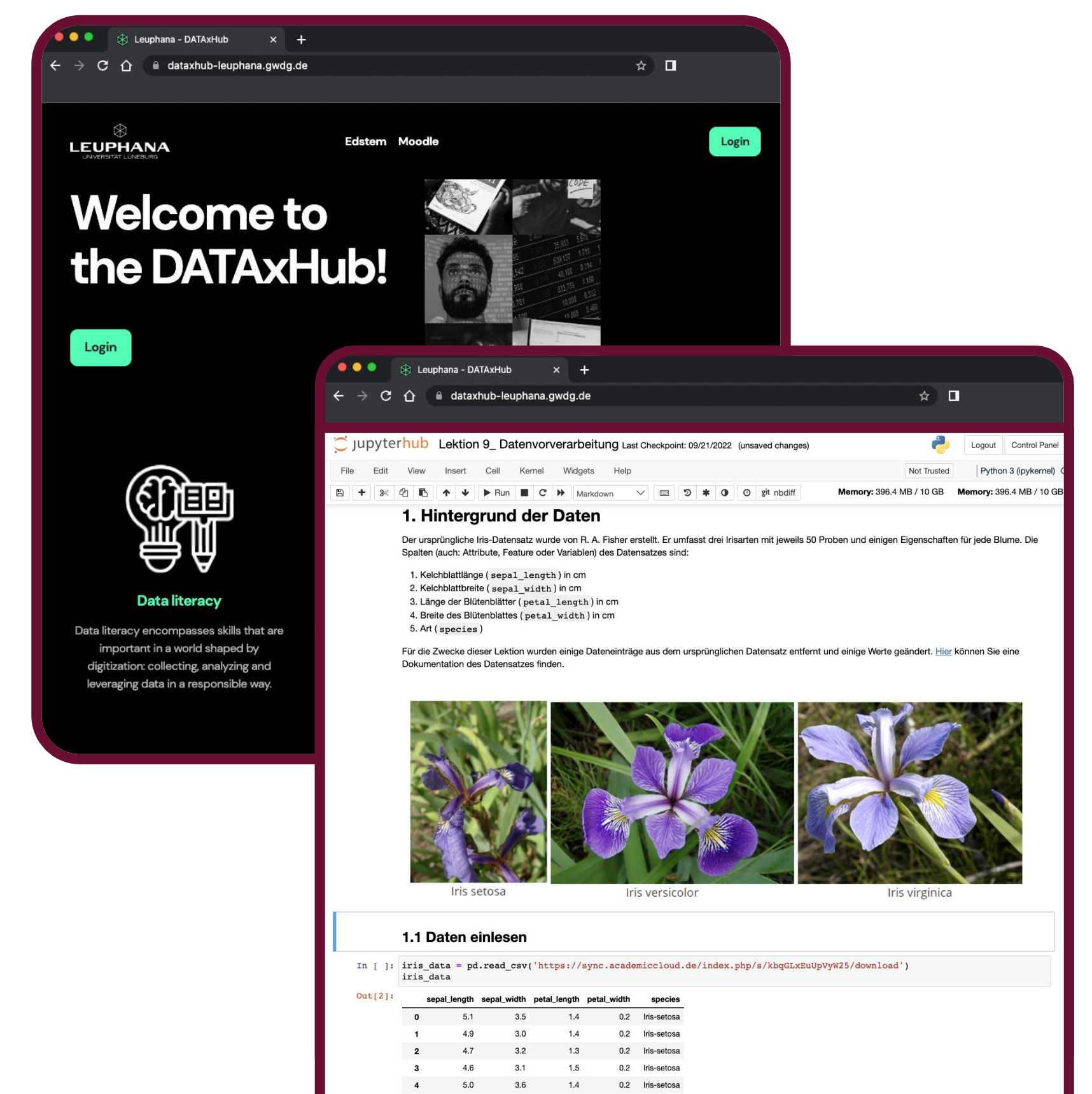
Course material

Scripts

Video production

AZ3

Teaching and Examination support



DATAxHub gives users access to computational environments and resources for programming with Python without burdening them with installation and maintenance tasks.

Hub for R&D of tools for the improvement of the teaching experience

Automated grading

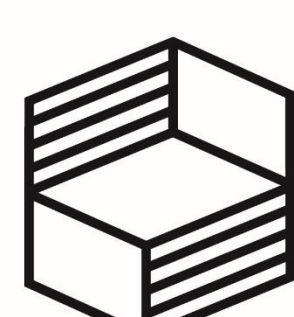
Feedback optimization

→ DIGITAL TRANSFORMATION LAB FOR TEACHING AND LEARNING

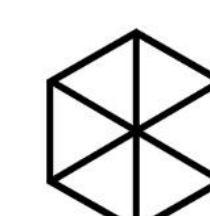
Leitung: Prof. Dr. Erich Hörl und Dr. Julia Webersik
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 Gefördert durch: Stiftung Innovation in der Hochschullehre
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