

# Piloting and implementing MC4Data by using Council Recommendation on European approach to micro-credentials

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Center for Teaching and Learning

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# Agenda

1. Introduction
2. Our goals
3. Design of MC4Data
4. Implementation
5. Future outlook

# 1. Introduction

## Nuremberg Institute of Technology Georg Simon Ohm

- an university of applied sciences
- located in Bavaria, Germany
- around 13,000 HE students
- 13 faculties and Ohm Professional School
- 75 programs (covering all degree types)

## MC4Data

- is part of the Future Skills Portfolio, supporting the competence development of HE students
- developed by Center for teaching and learning
- Abbreviation for: Micro-Credential for Data Analytics

# 1. Introduction

## **Micro-Credential für Data Analytics (MC4Data)**

- an interdisciplinary learning pathway focused on Data Analytics
- as a complement to the regular degree programs
- includes workshops and e-learning courses

### **In General:**

- MC4Data does not require prior knowledge from students.
- The level of the learning experience is aligned with Level 6 of the German Qualifications Framework for Lifelong Learning (Bachelor's level).
- Participation is free of charge and voluntary.

**Target Group:** HE students from all fields of study

**Launch:** March 2023, offered every semester

## 2. Our goals

### MC4Data (Micro-Credentials for Data Analytics)


 Data Analytics + Micro-Credentials + digital micro-credentials

1

2

3

### goals

promoting data  
 literacy and lifelong  
 learning of HE  
 students

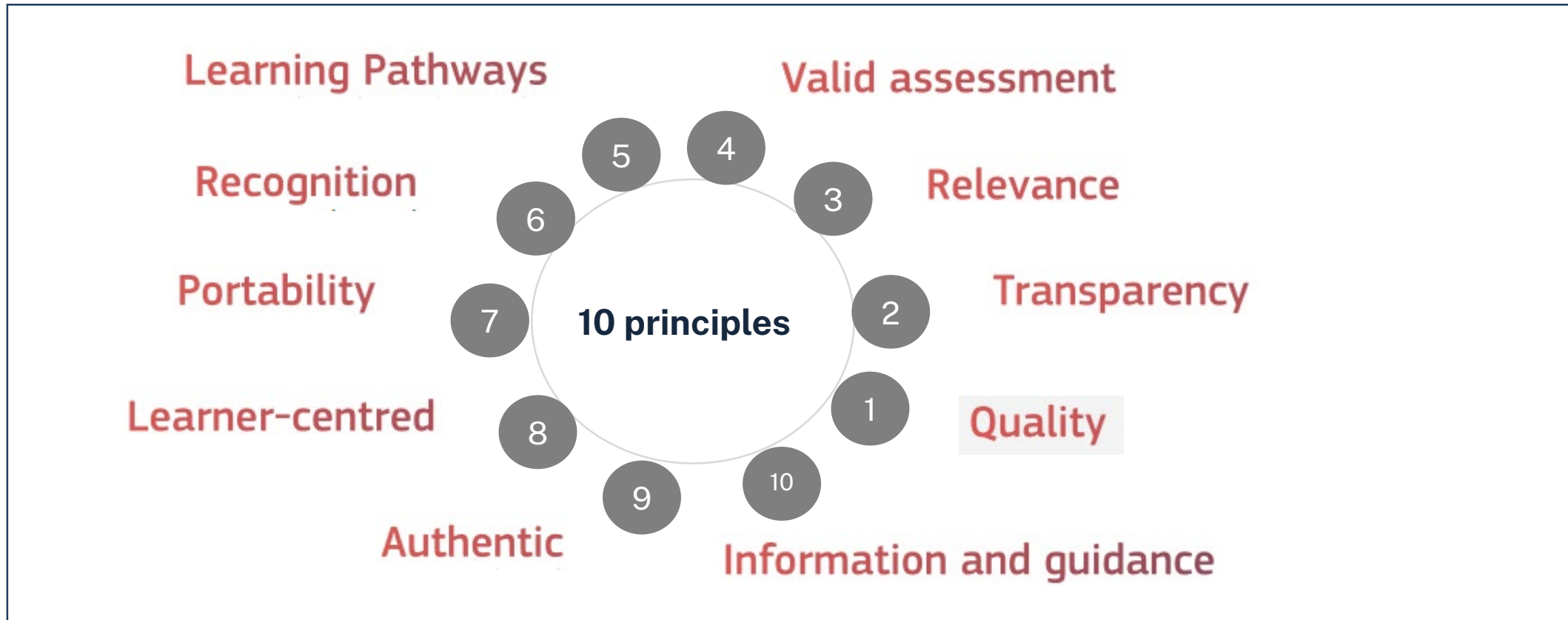
developing a qualification  
 format:

- learning outcome-oriented
- practice-oriented
- modular & compact

- issuing and verifying digital micro-credentials as pilot project
- gathering legal and technical issues as lessons learned for further implementation of digital academic degrees & credentials
- using as verifiable proof of skills to strengthen students' competency profiles internationally.

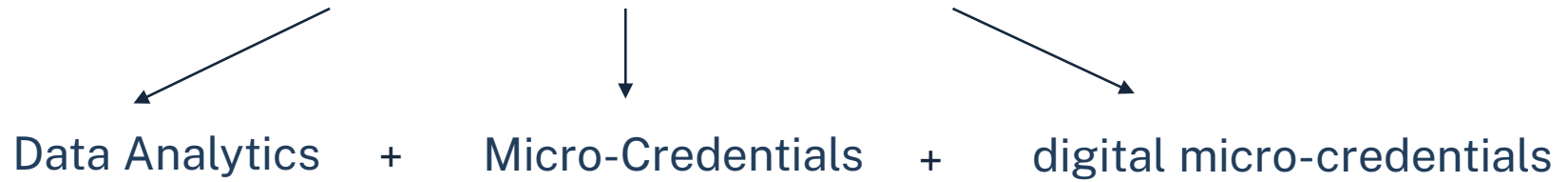
### 3. Design

by using Council recommendation on European approach to micro-credentials for lifelong learning and employability



# 3. Design

## MC4Data (Micro-Credentials for Data Analytics)

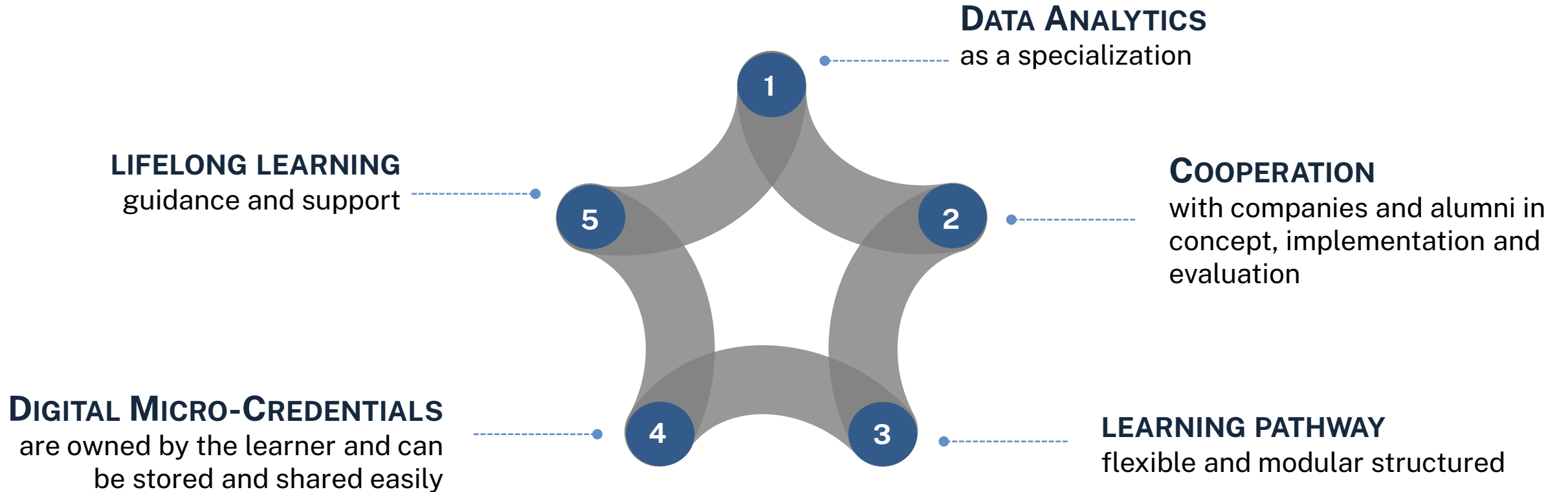


### Principles

- Learner-centred
- Quality
- Transparency
- Relevance
- Valid assessment
- Learning Pathways
- Recognition
- Information and guidance

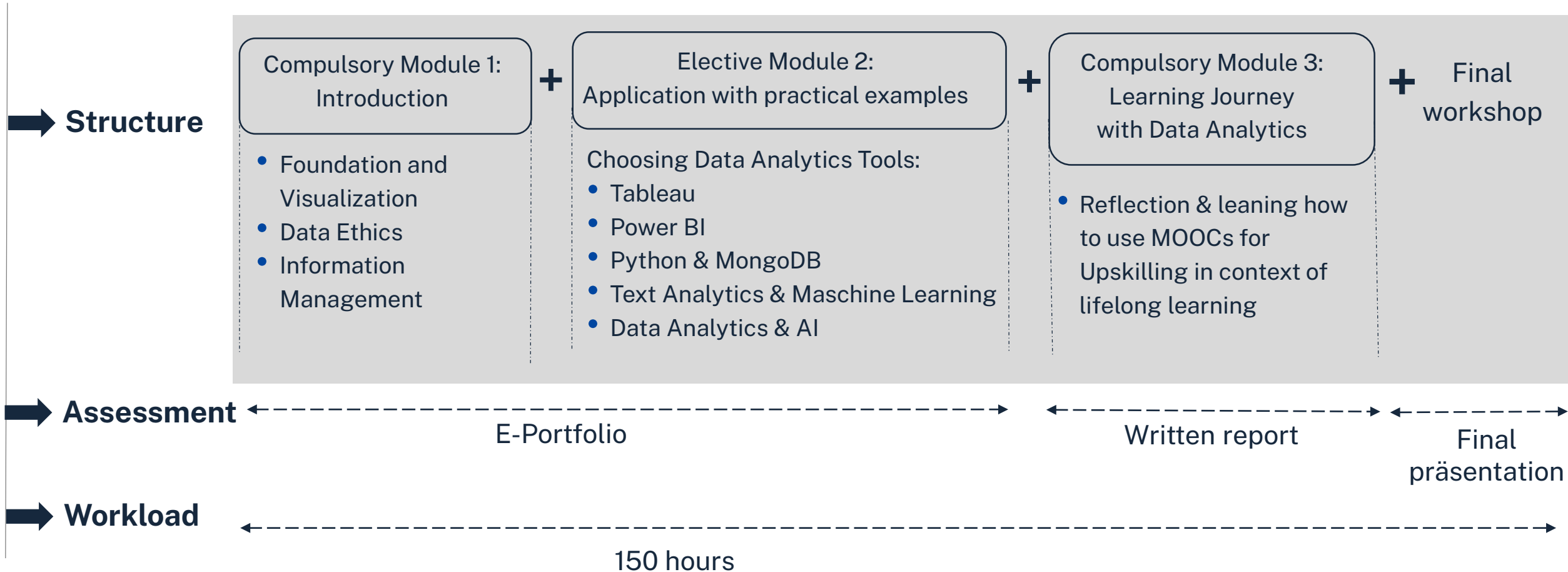
- Portability
- Authentic

### 3. Design: USP of MC4Data





## 4. Implementation: learning pathway



Instructors and trainers: are from companies, faculty and from center for teaching and learning

## 4. Implementation: digital micro-credentials

by using Europass

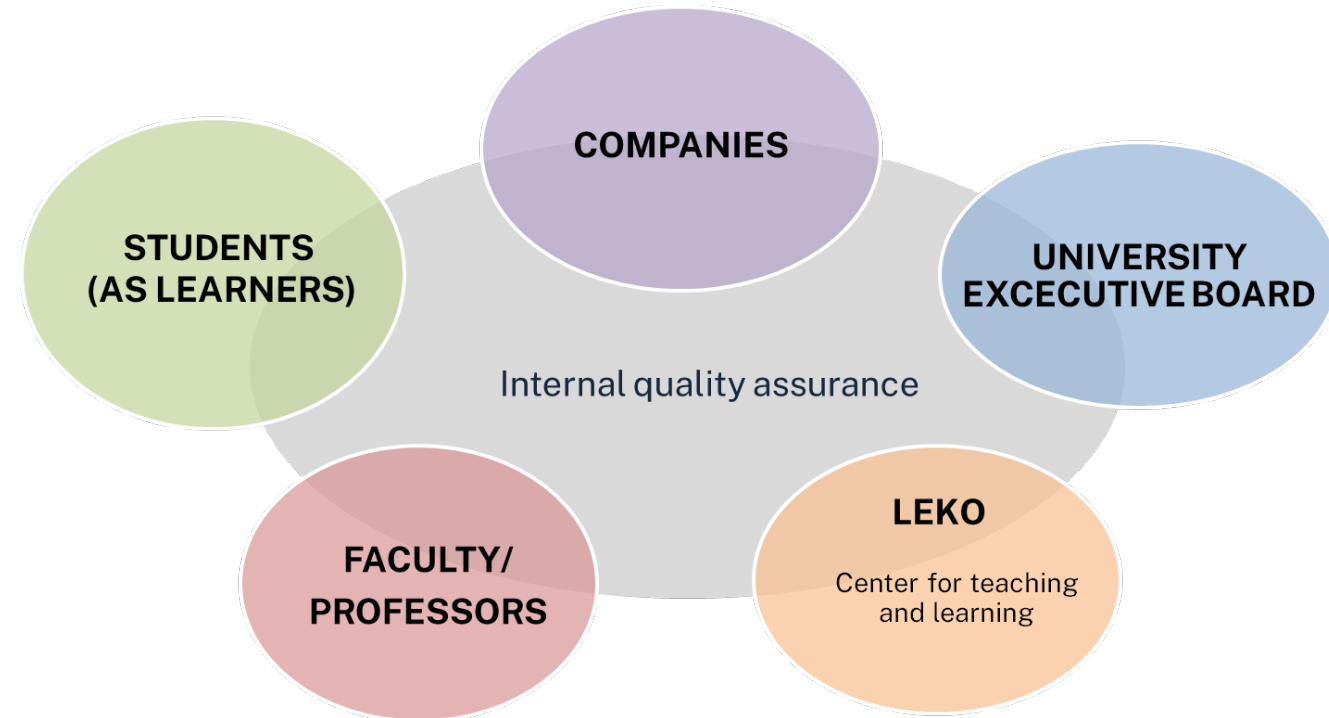
The issued MC4Data digital micro-credentials are verifiable. Students can save their micro-credentials online, share, set the availability of the link within a specific time period, and enhance the visibility of their competency profile through social and networking platforms.

## 4. Implementation: Quality assurance

Internal quality assurance covers the elements:

- the overall quality of the micro-credential itself,
- the quality of the courses
- learners' feedback
- peers feedback

Feedback is taken into account as part of the continuous improvement of the micro-credential.



## 5. Future outlook

### Our next steps:

- Recognition of micro-credentials for curriculum, as well as in different education systems and countries (long-term)
- Long-term quality assurance

### Outlook:

- The national and regional regulations and ecosystem for micro-credentials need to be established

### Delegation trip 2025

<https://hochschulforumdigitalisierung.de/delegationsreisen-2025/>

# Thanks for your attention!

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[www.th-nuernberg.de/mc4data](http://www.th-nuernberg.de/mc4data)