

FOLLOW-UP WORKSHOP ON THE AARHUS UNIVERSITY DIGCOMP EXPERIENCE

Agenda:

- Short introduction to Aarhus University
- How do we work with our Faculties?
- Step 1-3 of the workshop
- Summery step 4
- Evaluation

A national university



- RESEARCH AND EDUCATION
- RESEARCH ACTIVITIES AND OTHERS

Rooted in a broad palette of strong disciplines

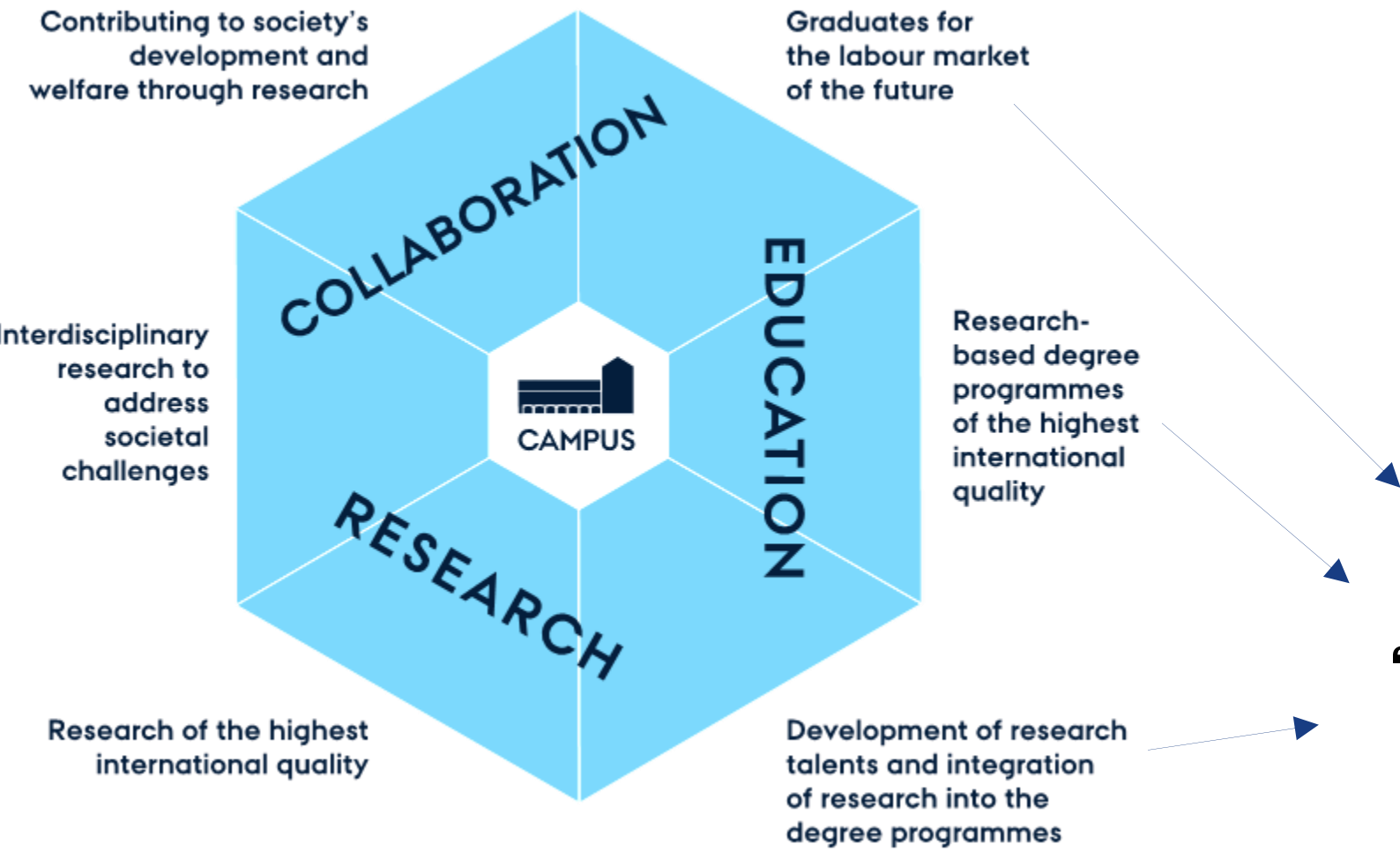
5 (ARTS, BSS, TECH, NAT, HEALTH)
faculties

11,500
employees

36,500
students

1,800
PhD students

Strategy 2020-2025



“Digital competencies for all students”

HOW DO WE WORK ON DELIVERING “DIGITAL COMPETENCIES FOR ALL STUDENTS”?

- **Common terminology for Digital competencies**
- Focus on the written curriculum of the educations
- Respect for the individual educations and subjects
- Focus on Exam forms
- Workshops for individual educations (Step 0-4)

- Deliver **suggestion** for future process for the individual educations

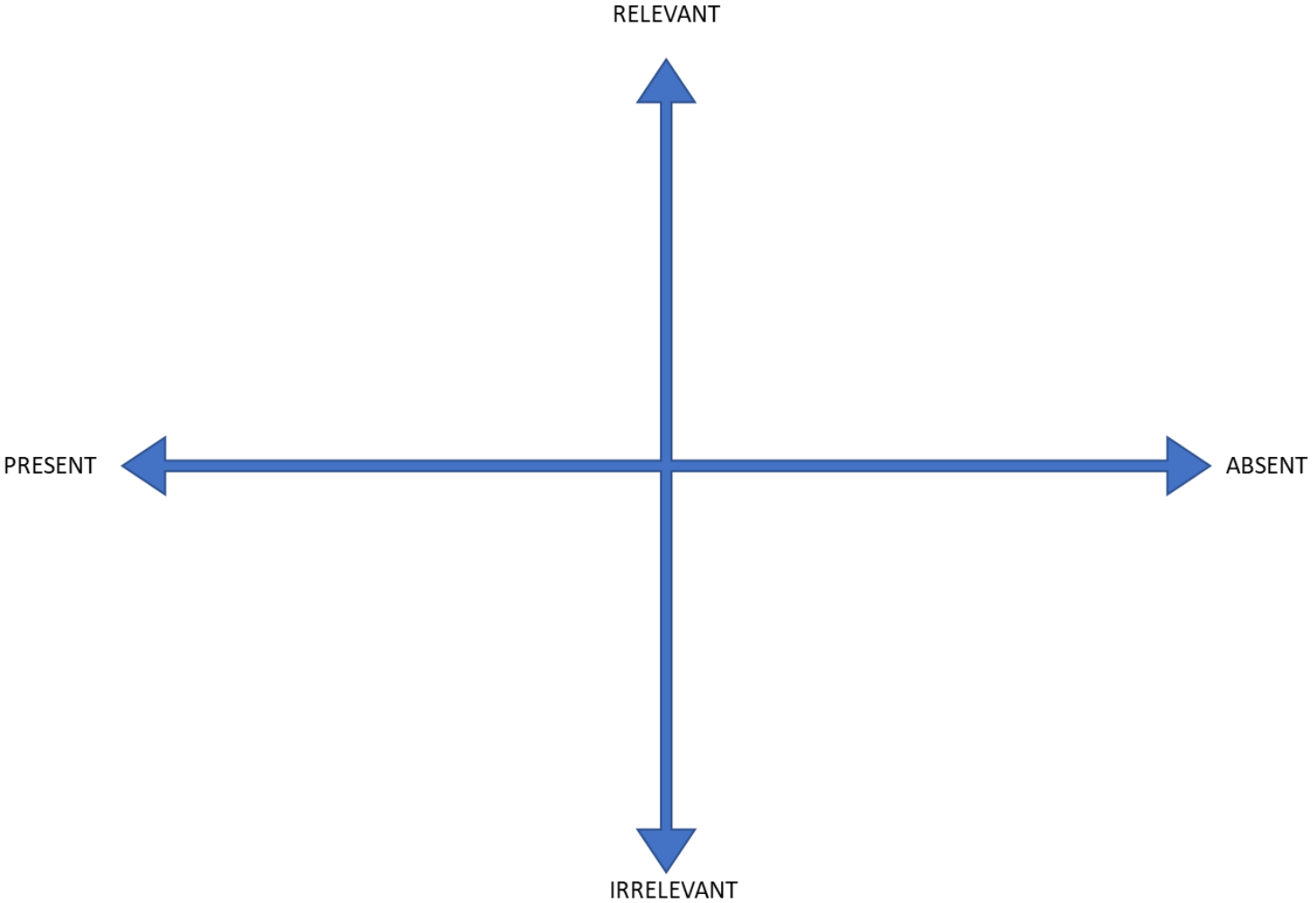


STEP 0

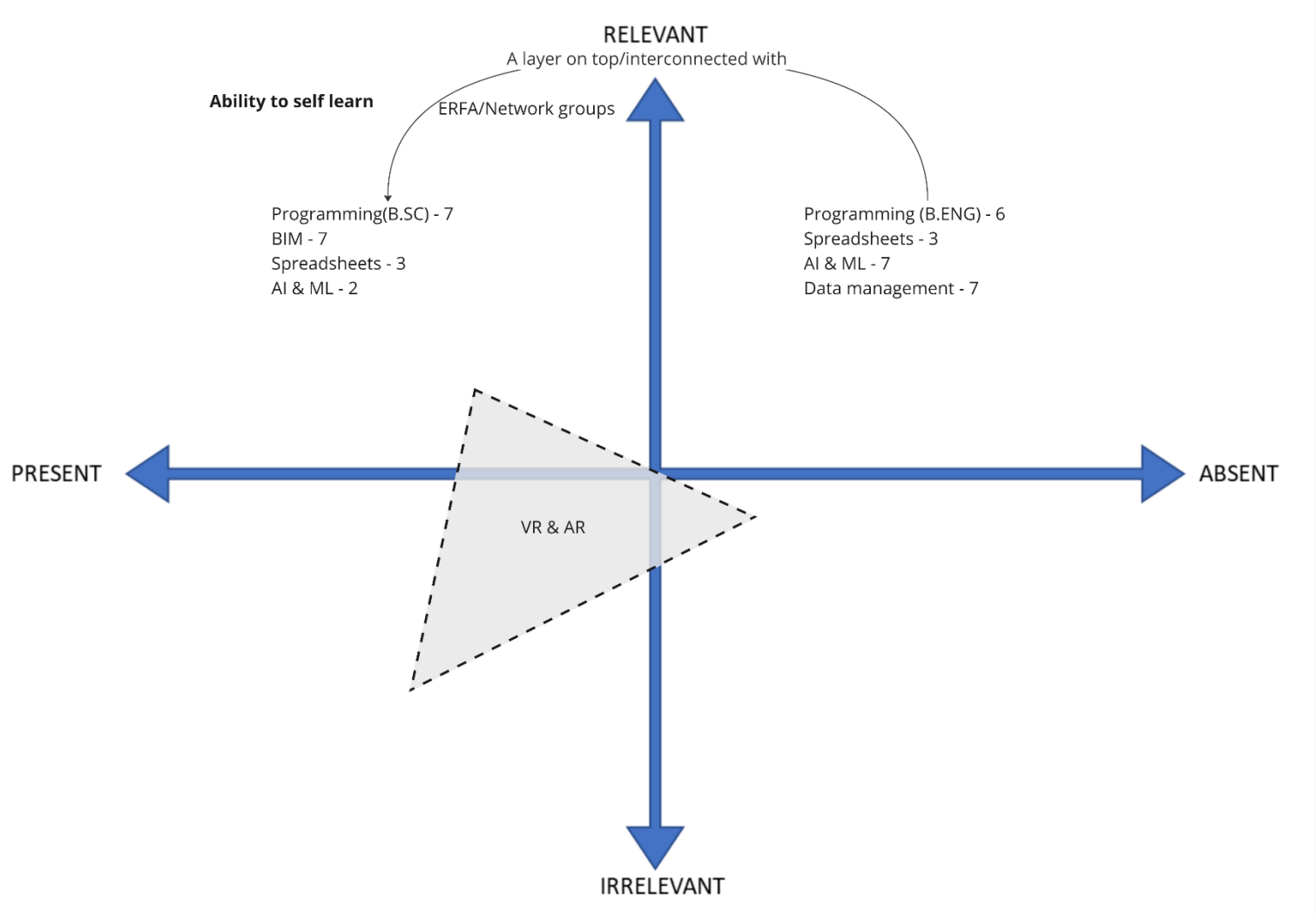
To get all participants activated and aligned towards thinking on:

- 1. Digital competencies for FUTURE graduates**
- 2. The issues of NOT having a terminology**
- 3. Looking across the semesters**

STEP 0: MAPPING AND PRIORITISING DIGITAL COMPETENCIES



RESULTS STEP 0: DEPARTMENT OF CIVIL AND ARCHITECTURAL ENGINEERING



STEP 1

[HTTPS://PADLET.COM/MADS/DIGCOMP23](https://padlet.com/mads/digcomp23)

Less relevant		Relevant		Most relevant
-2	-1	0	+1	+2

PROBLEM SOLVING

INFORMATION AND DATA LITERACY

DIGITAL CONTENT CREATION (creativity)

COMMUNICATION AND COLLABORATION

SAFETY AND RESPONSIBILITY

POPULAR EDUCATIONS

1. Business

Median Annual Salary (May 2020): \$72,250

Job Growth Rate (2020-30): 8%

Common Specializations: Accounting, business administration, business intelligence, business management, entrepreneurship, finance, international business

2. Health Professions

Median Annual Salary (May 2020): \$69,870

Job Growth Rate (2020-30): 16%

Common Specializations: Health informatics, health sciences, health services, healthcare administration, healthcare management, medicine, nursing, nutritional science, public health, sports medicine

3. Social Sciences and History

Median Annual Salary (May 2020): \$69,760 (all life, physical, and social sciences)

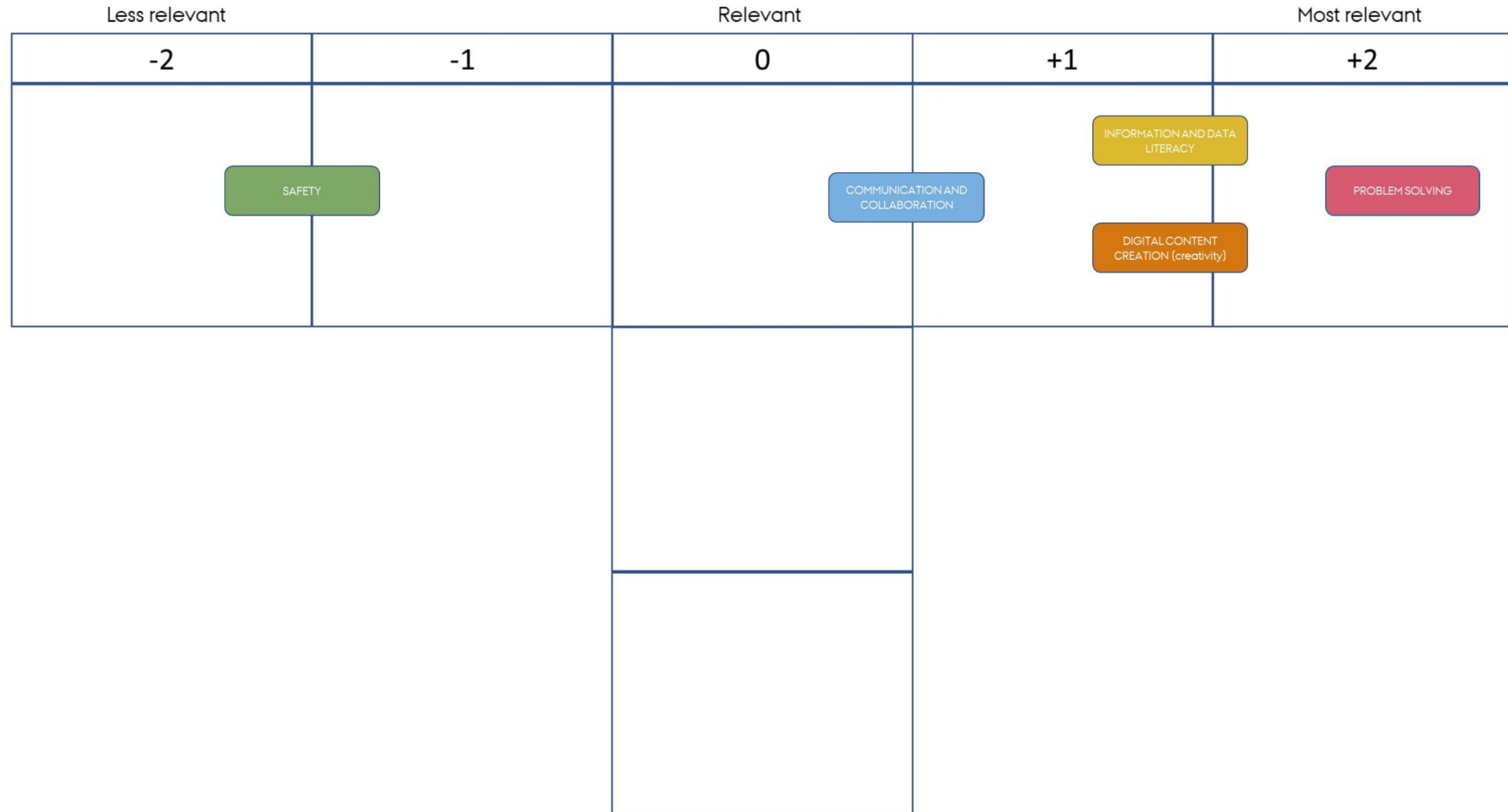
Job Growth Rate (2020-30): 8% (all life, physical, and social sciences)

Common Specializations: Anthropology, criminology, economics, geography, history, legal studies, political science, social work, sociology

<https://www.bestcolleges.com/blog/most-popular-college-majors/>



STEP 1: SUMMARY



Model for Digital Competency Development



Digitally Competent Graduates from _____

Faculty level

Competency element

PROBLEM SOLVING

DIGITAL CONTENT
CREATION (creativity)

INFORMATION AND DATA
LITERACY

COMMUNICATION AND
COLLABORATION

SAFETY

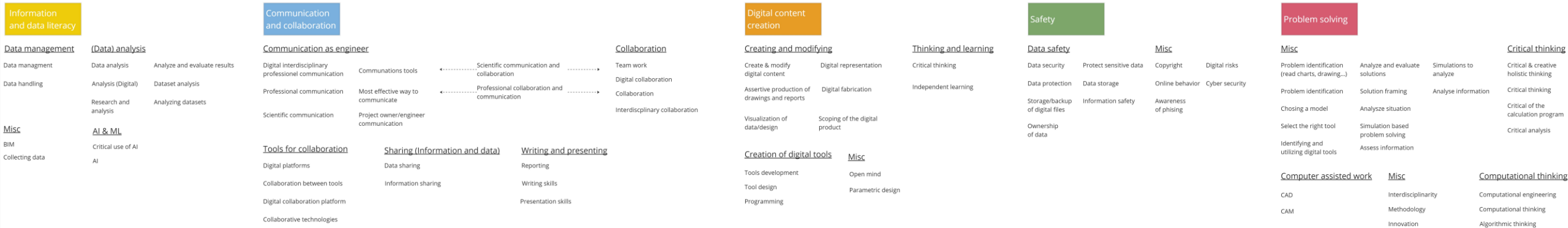
Programme level

Themes, curriculum, and
competence profile

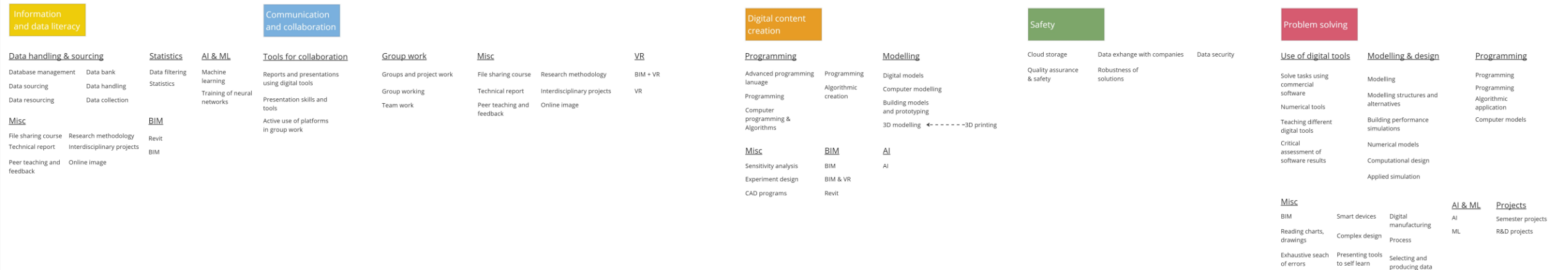


STEP 2: DETAILED VIEW

Programme level



Course teaching level



Model for Digital Competency Development



Digitally Competent Graduates from CAE

Faculty level	Digitally Competent Graduates from CAE				
Competency element	PROBLEM SOLVING	DIGITAL CONTENT CREATION (creativity)	INFORMATION AND DATA LITERACY	COMMUNICATION AND COLLABORATION	SAFETY
Programme level	Computational thinking Framing and evaluation Computer assisted work Critical thinking	Creating and modifying Ability to self learn Digital tool development	Data management Data analysis AI and ML	Sharing Data / Information Eng. Digital terminology Eng. Digital collaboration Eng. Writing disciplines Presenting and mediation	Data safety
Themes, curriculum, and competence profile					



STEP 3: Model for Digital Competency Development



Digitally Competent Graduates from _____

Faculty level	Digitally Competent Graduates from _____				
Competency element	PROBLEM SOLVING	DIGITAL CONTENT CREATION (creativity)	INFORMATION AND DATA LITERACY	COMMUNICATION AND COLLABORATION	SAFETY
Programme level					
Themes, curriculum, and competence profile					
Course/teaching level					
Subject integration and learning objectives (examples)					



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Model for Digital Competency Development



Digitally Competent Graduates from CAE

Faculty level	Digitally Competent Graduates from CAE				
Competency element	PROBLEM SOLVING	DIGITAL CONTENT CREATION (creativity)	INFORMATION AND DATA LITERACY	COMMUNICATION AND COLLABORATION	SAFETY
Programme level	Computational thinking Framing and evaluation Computer assisted work Critical thinking	Creating and modifying Ability to self learn Digital tool development	Data management Data analysis AI and ML	Sharing Data / Information Eng. Digital terminology Eng. Digital collaboration Eng. Writing disciplines Presenting and mediation	Data safety
Course/teaching level	Use of digital tools Modeling and design Programming	Programming Modeling BIM AI	Data handling & sourcing Statistic Spreadsheets AI and ML BIM	Tools for collaboration Group work Network and ERFA VR/AR	
Subject integration and learning objectives (examples)					



Common Faculty Model for Digital Competences



Digitally Competent Graduates at the Faculty of Health

Faculty level	Digitally Competent Graduates at the Faculty of Health				
Competency element	PROBLEM ANALYSIS AND CRITICAL THINKING	SAFETY AND RESPONSIBILITY	CREATIVITY	INFORMATION AND DATA LITERACY	COMMUNICATION AND COOPERATION
Education Level	Computational thinking Methodology	Information security Legal classifications Ethics	Create content Innovation Development	Data handling Data management Data analytics	Scientific communication Client/Patient communication Citizen involvement Interdisciplinary collaboration Professional communication Professional collaboration
Course/teaching level	<ul style="list-style-type: none"> - Artificial intelligence - Digital technologies - Research based 	<ul style="list-style-type: none"> - GDPR - Data security - Privacy - Legislation 	<ul style="list-style-type: none"> - Entrepreneurship - Image processing and analysis - 3D printing - Open assignments - Programming - Algorithms 	<ul style="list-style-type: none"> - Big Data - Information search - Statistics - Databases - Documentation - Machine Learning 	<ul style="list-style-type: none"> - Telemedicine - Journalizing - Group work - Study groups
Subject integration and learning objectives (examples)					

FUTURE PROCES

- By choosing competency goals, we can explore how they are supported today and how they can be strengthened in the future
- Examples
 - Data management: Teaching library with datasets
 - Programming (Python in Excel)
 - AI tools
 - Communication and collaboration
 - Exam forms
- PIX: Online training digital competencies (Pilot at Aarhus started on 2. Oct)



AARHUS
UNIVERSITY

SLIDE INSPIRED BY WORKSHOP PARTICIPANTS

Proficiency level (PL) development through the educational system

