Exploring the Competence Matrix

As a tool to visualise sustainability efforts in a design education curriculum

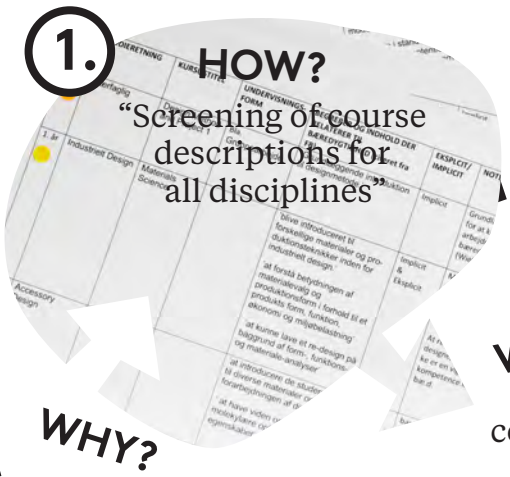
MOTIVATION

"Diverse ways to talk about and work with sustainability"

"Clarify and secure progression and content of curriculum"

"Development of new master course / structure"

1.

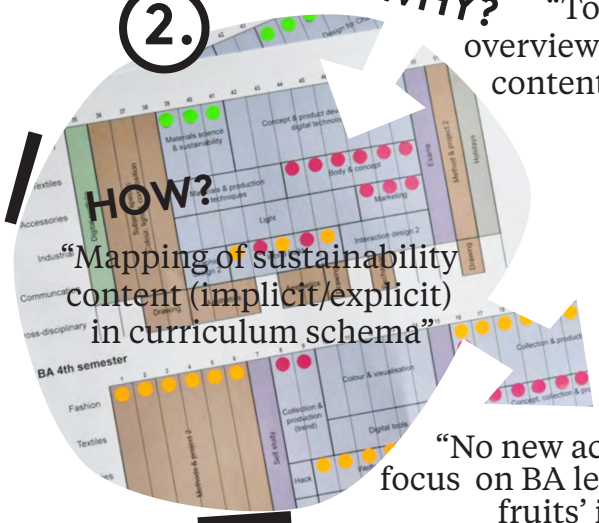


HOW?
"Screening of course descriptions for all disciplines"

WHAT?
"Limited explicit content/widespread implicit content"

WHY?
"To surface sustainability content in curriculum"

2.



WHY?
"To get a visual overview of sustainability content in curriculum"

HOW?
"Mapping of sustainability content (implicit/explicit) in curriculum schema"

WHAT?
"No new activities at MA level> focus on BA level; many 'low-hanging fruits' i.e. potential for developing sustainability content"

3.

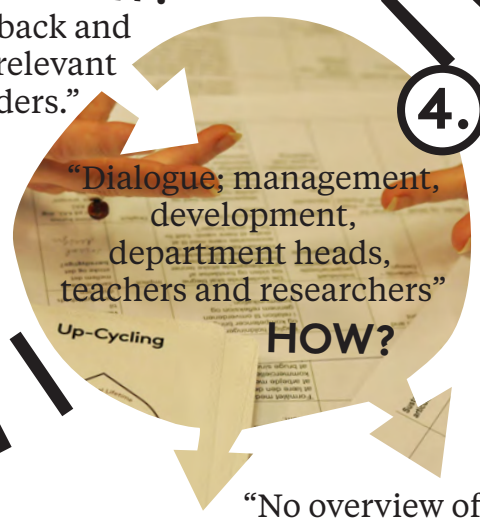
HOW?
Mapping of competence development according to Wiek et al."

WHY?
"To get an overview of competence development in relation to sustainability"

WHAT?
"Competences within sustainability are already being developed; particular in the interdisciplinary part, but not much articulated."

Wiek et al. (2011)

4.



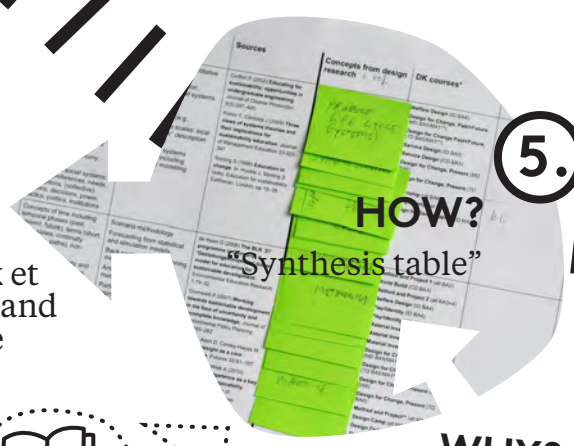
WHY?
"To get feedback and input from relevant stakeholders."

HOW?
"Dialogue; management, development, department heads, teachers and researchers"

WHAT?
"No overview of activities. The material made dialogue possible."

"General wish to make topic more present and coherent. Management focus on communication."

5.



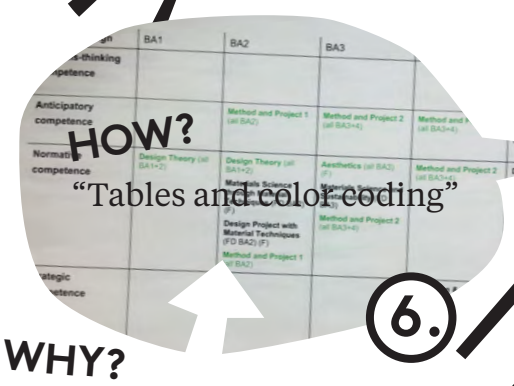
HOW?
"Synthesis table"

WHAT?
"Clarified that Wiek et al.'s general notions and concepts must be translated into design."

WHY?
"To synthesise data and link Wiek et.al with design curriculum."

Concepts from design literature

6.

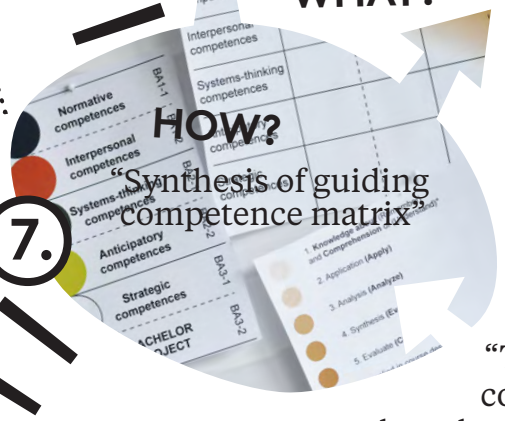


HOW?
"Tables and color coding"

WHAT?
"Competences can be hierarchical ordered in accordance to a progression in the cognitive understanding."

WHY?
"To look at content and progression for each discipline."

7.



HOW?
"Synthesis of guiding competence matrix"

WHAT?
"Each semester on BA level can have special focus on one competence"

WHY?
"To create guiding competence matrix based on competence hierarchy"

"Possible re-assessment of course descriptions to align with competence matrix"

Bloom et al. (1956)

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