

Strategies for CEE & LLL EU

- European Year of Lifelong Learning (1996)
- European Year of Skills (2023)
 - Goal: in 2024 50% of adult aged 25-64 should participate in learning over a period of 12 months (European Commission 2020)
- Focus on digital- and green technologies securing innovation, economic competitiveness and sustainable transformations
 - ¾ of all companies in EU report problems finding employees with the necessary skills
 - 28 occupations include engineering and IT report shortages in skilled workers





Strategies for CEE National level -Scandinavia

- Widely recognized need for the development of CE
 - Nordic Network for Adult Learning (2019)
- Strong political influence on the development of CE: financial support, legal framework, limited flexibility
- Focus making CE accessible. Digitalization, recognition of prior learning, trans-institutional guidance



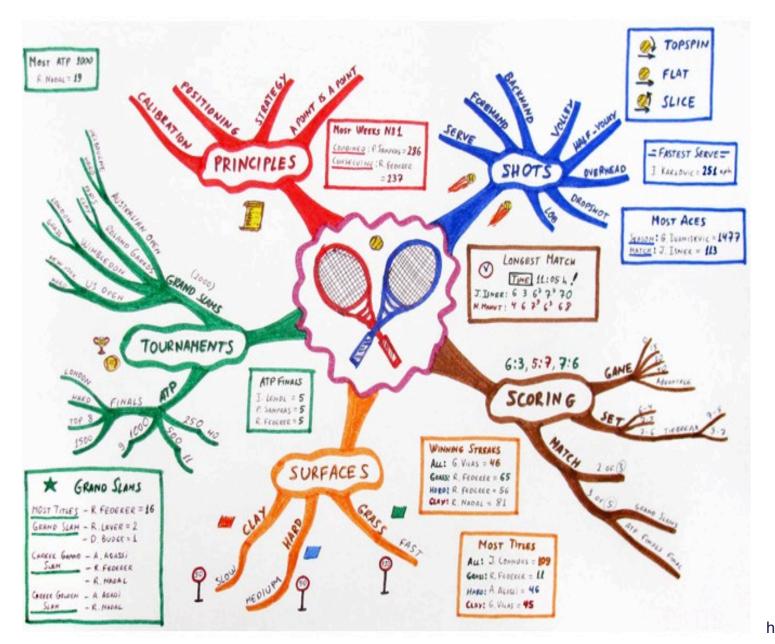


We will create! A Panoramic View of Continuing Engineering Education and LLL





Concept mapping



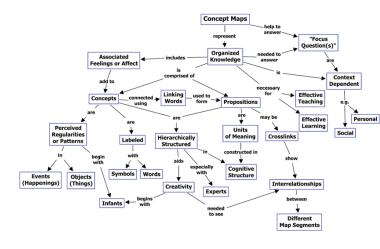


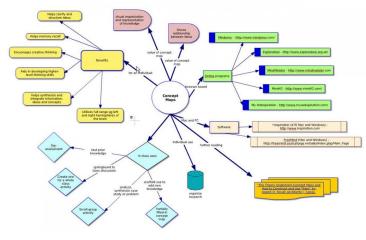
Defining CEE and LLL WHAT IS CEE & LLL?

PART 1 (15 minutes)

- 1. What are the concepts that define CEE and/ or LLL?
- 2. How are these concepts relate to each other?

Go scouting!









Defining CEE and LLL

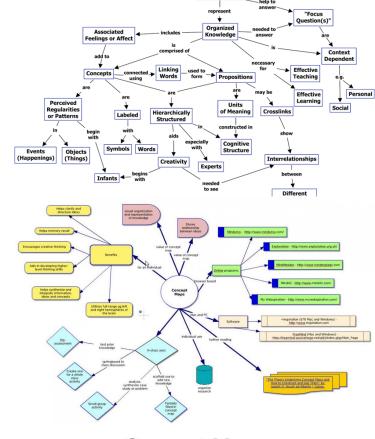
WHAT are the opportunities and challenges?

PART 2 (15 minutes)

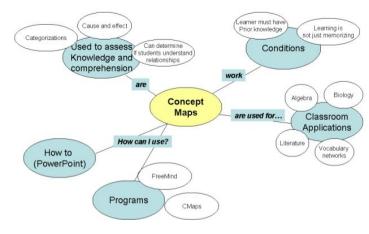
- 1. Add to the Concept Map **opportunities** and **challenges** in relation to the defined topics (use e.g. different colour pen and short sentences)
- 2. Are these topics related in any way?

Share!





Concept Maps





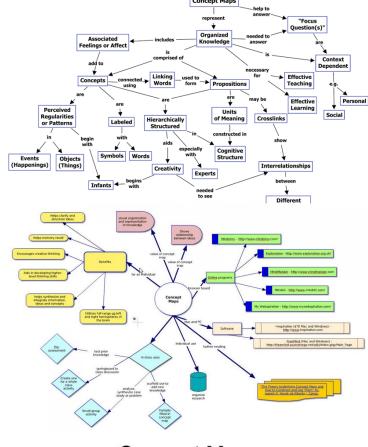
WHAT are the future? - looking into the crystal bowl

PART 3 (15 minutes)

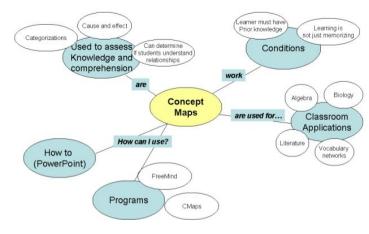
 Add to the Concept Map sentences on what you believe will be the future of CEE & LLL

Share!





Concept Maps



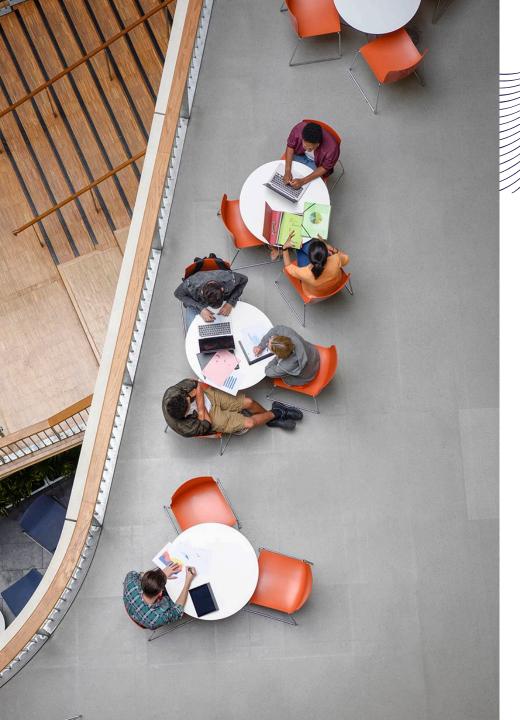
Nordic Stem Mapping Institutional level

16 interviews at 10 Scandinavian universities

- Organization: Internal / External, Central Decentral
- Approaches of CE: Open University Commercialized courses
- Academic Staff: Internal / External Incensement structures
 - Collaboration with companies, flexibility
 - Pedagogical training didactics
- ▶ Learning outcome: Engineering/IT or other needs?



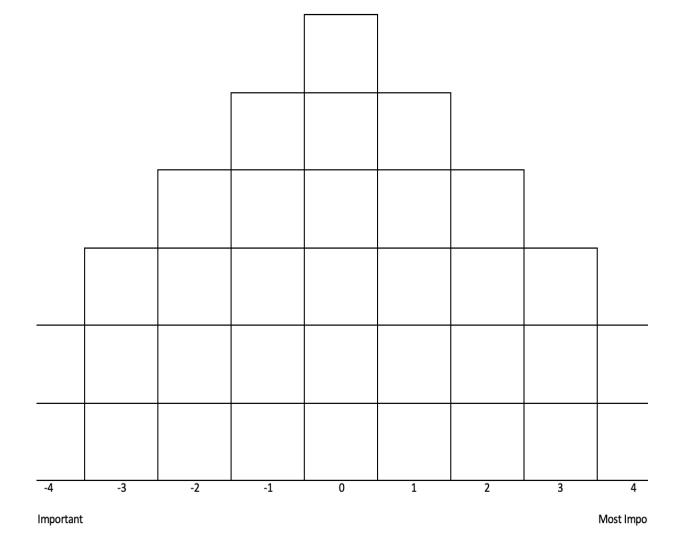




- Q-Study

- Qualitative/quantitative method
- 32 item cards
- How important are the following ...? (supporting the implementation of STEM continuing education)
- Rank statements
- No right or wrong answers patterns
- Each block is only for one card









The Q-sorting instruction

Remove the cards an write the number of each card in the particular block of the Sorting Gritt



Having completed the Q-sorting

- Elaborate why you ranked the two particular statements as the most important?
- Elaborate why you ranked the two particular statements as the least important?
- Are there any statements which you think are important to add regarding the given topic that are not yet included?
- Are there any other aspects you would like to address regarding your participation in this study and the program in general?



Having completed the Q sorting, can you please provide the below information: 1) Demographic Data Years of teaching experience: Subject of teaching: University and country: Academic title: 2) Post-Sorting Questions l. Could you please elaborate why you ranked the two particular statements as the most important? chose No and No as most important because 2. Could you please elaborate why you ranked the two particular statements as the least important? chose No and No as least important (most unimportant) because 3. Are there any statements which you think are important to add regarding the given topic that are not yet ncluded? L. Are there any other aspects you would like to address regarding your participation in this study and the program in general?



