

# Using critical thinking to navigate the landscape of AI: A design thinking workshop to brainstorm possible alternatives to address current educational challenges

A presentation written and prepared by the  
following humans 😊 :

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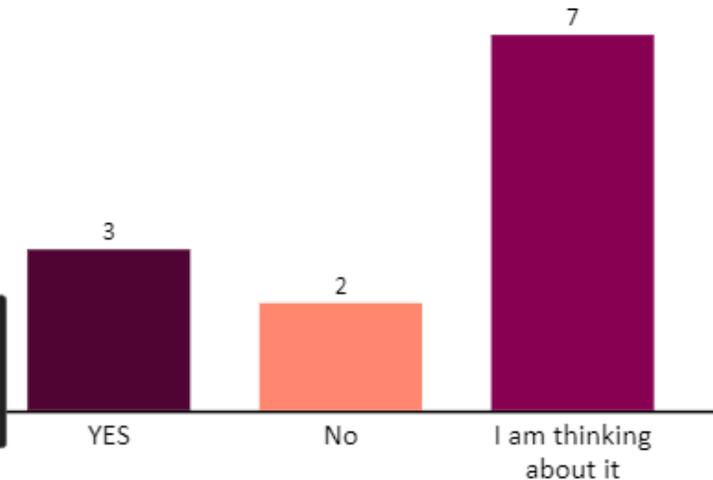


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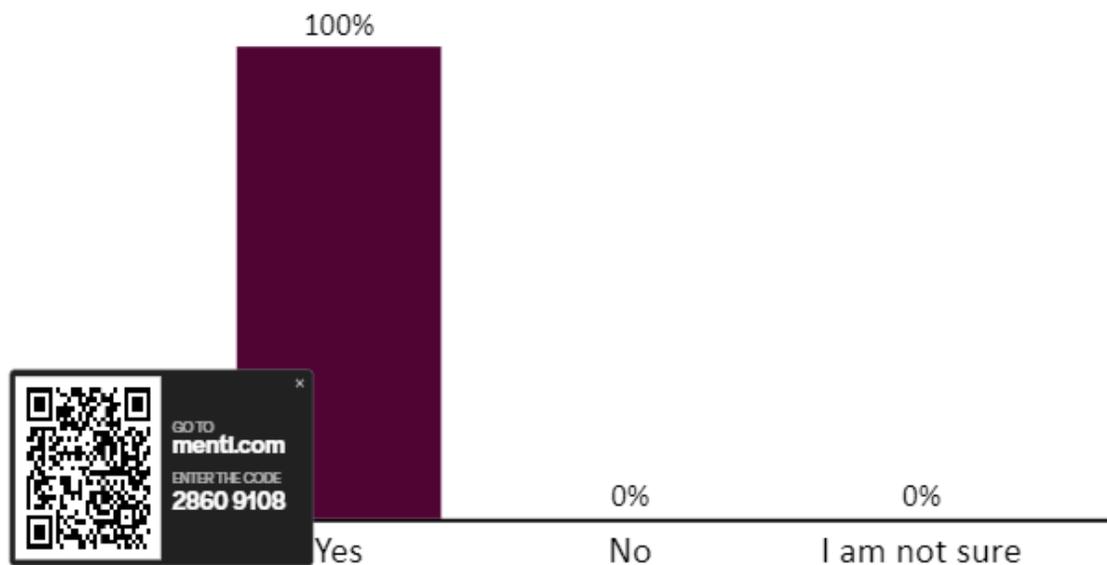
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# Do you use AI today in your teaching?



# Do you think that critical thinking is an important aspect to consider when using AI?



# Introduction



**Why are we here?**



**Outcomes of the workshop:**

**To facilitate activities that will prompt a critical conversation about ->**



**What examples exist in the use of critical thinking in combination with AI? How has AI already been implemented at KI (e.g., uses and benefits)?**

**How can critical thinking be integrated to use AI in a pedagogical and responsible manner?**

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# Critical Thinking

- Supports the development of responsible citizens who can reflect on, evaluate different perspectives, and understand the links between local and global events (Behar-Horenstein & Niu, 2011; Kraska et al., 2018).
- Supports students' active role in their learning
- A key goal of higher education across the world, in line with KI's strategy 2023 and [principles for equality education](#)



*"The thing that I try to caution people the most is what we call the 'hallucinations problem,'" Altman said. "The model will confidently state things as if they were facts that are entirely made up."*

## Case exempel 1



**Teacher 1:** I use AI to ask for suggestions on how to clarify and shorten the instructions for essays/assignments

**Teacher 2:** I think that the essays should be linked to an oral examination so that students can reflect on what they understand about the subject



**Teacher 1:** Or you can skip the essay and ask them to reflect on a scenario, role-playing, or simulation by taking 1-2 questions from a basket and then have 20 min to prepare their reflections

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## Case exempel 2



**Teacher 2:** But is that enough?  
Reflecting on a scenario is one  
thing, but putting it together in an  
essay is an achievement

**Teacher 1:** But who needs to  
learn to compose an essay,  
and what other skills need to  
be learned or prioritized?

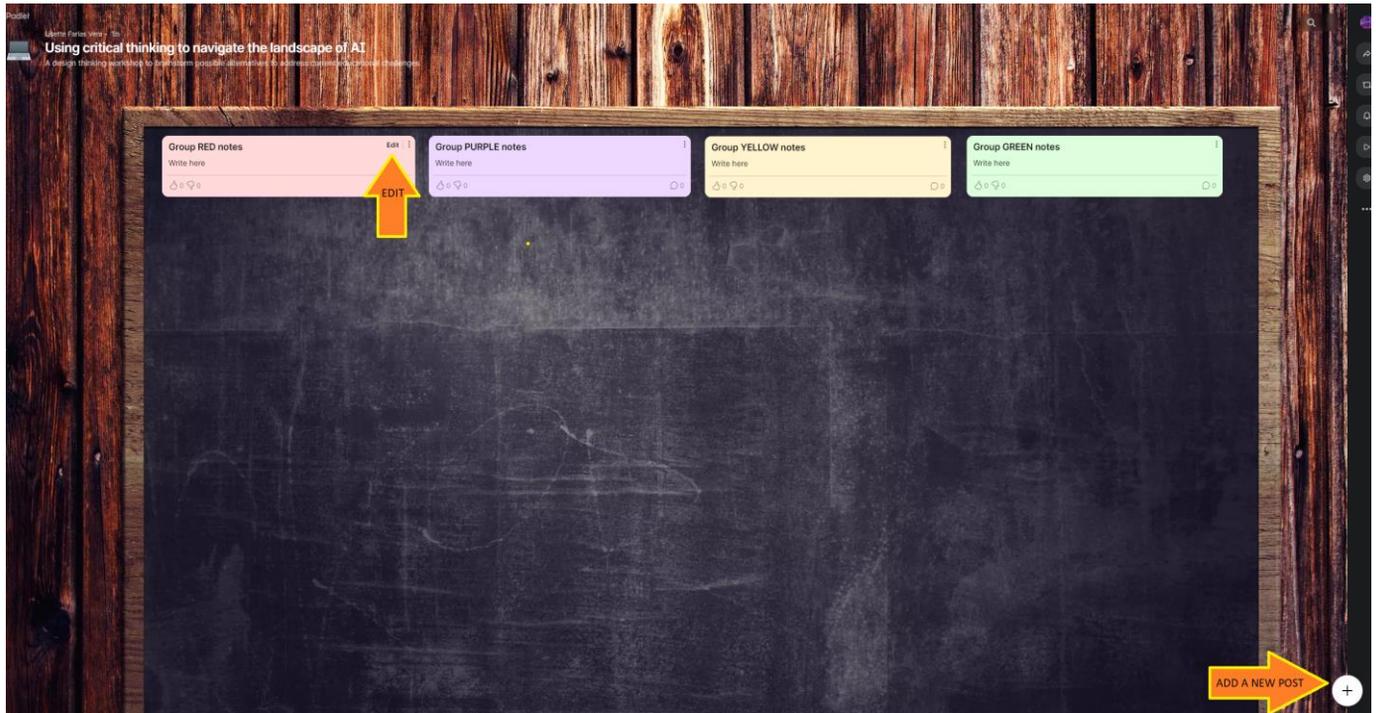
**Teacher 2:** Maybe examining a finished  
text is less relevant today, perhaps it is  
more important to examine a learning  
process of putting a text together



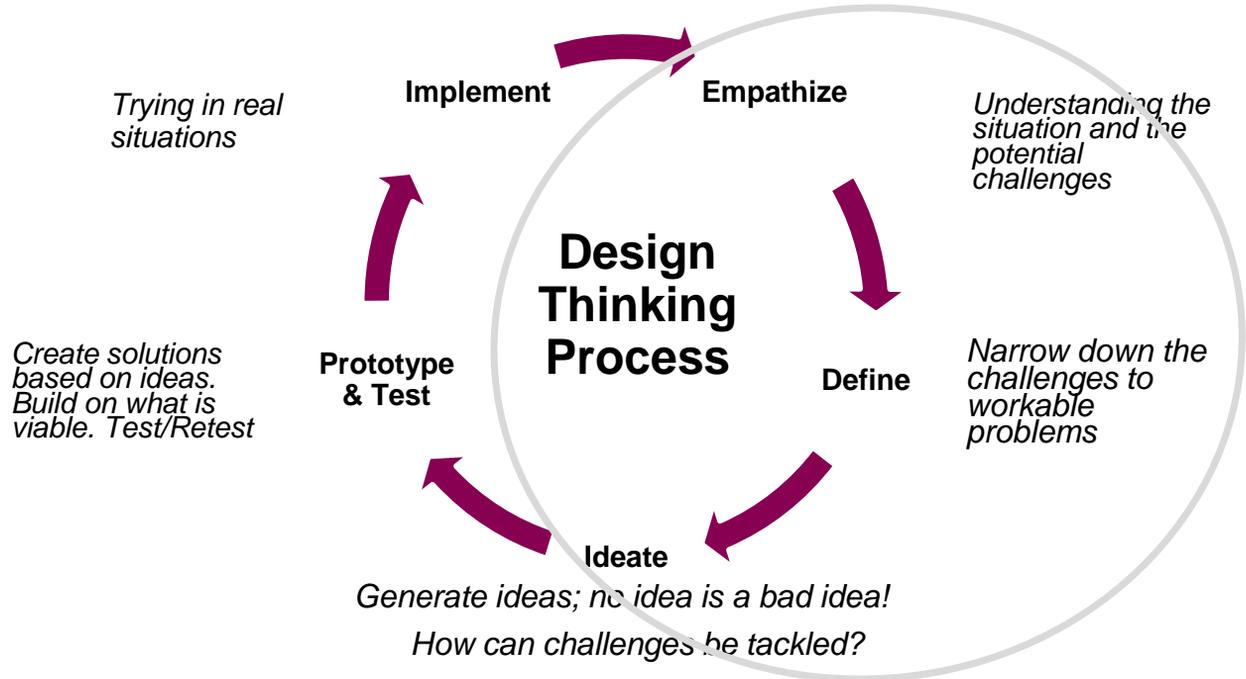
**Teacher 1:** Yes, maybe a greater focus  
should be on the process needed instead  
of focusing on the 'product' = essay?

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# Next steps – Design Thinking process Padlet (recommended) to take notes



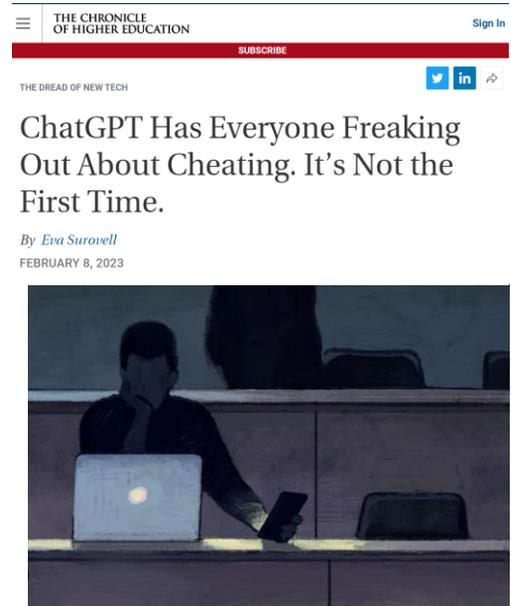
# Design Thinking Process



## Small groups - Instructions

### Empathize (10 min)

- Introduce yourselves shortly (your name, division, why are you here 1-2 words)
- Describe one assignment or evaluation (learning activity) that you are struggling with
- Discuss if you are having similar or different kind of issues



## Small groups - Instructions

### Define (15 min)

- Take notes in Padlet about the 2 most problematic or challenging educational scenarios
- Ask yourselves the following questions:



What are these issues about?



How are we framing the problem?



Is this framing problematic?  
Do we need to think in another way?



How can critical thinking help us to achieve the (new) desired learning outcomes?

## Small groups - Instructions

- **Ideate (10 min)**
  - Discuss possible alternatives based on the defined problem
  - Brainstorming – allow all ideas to be heard



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Any final reflections or take away from this workshop?

2 responses

What is important to teach - what knowledge do the students need?

There are possibilities with AI that could become useful, e.g. virtual patients for training purposes.



**Thank you for your time and participation!**

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