



# Cybersecurity in Critical Sectors: ethical aspects

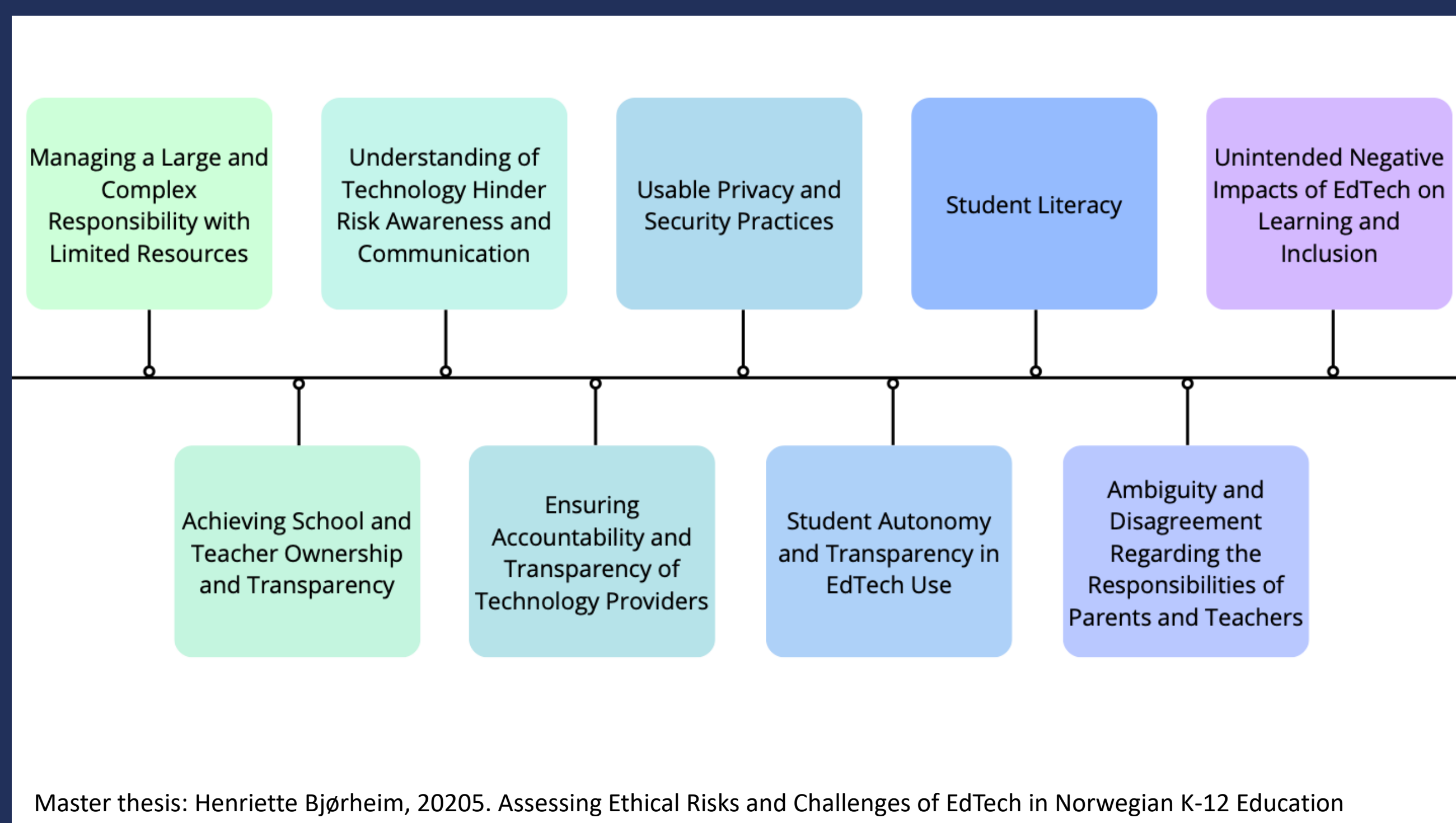
## 1. Why Ethics matters in cybersecurity?

New ethical risks have emerged with the integration of innovative technologies (i.e. AI) in cybersecurity

Requires cybersecurity tools for assessing ethical risks such as privacy breaches, bias, surveillance, and data misuse

## 2. Background

Notable gap in examining ethical challenges and future direction for cybersecurity tools, practise and mitigation (education sector as an example below)



## CYBERSECURITY ETHICS PRINCIPLES



(Formosa, P., Wilson, M., & Richards, D. (2021). A principlist framework for cybersecurity ethics. *Computers & Security*, 109, 102382.

## 3. Our Research Goal

Analysing and improving how ethical dimensions can be (better) integrated in technological innovation and cybersecurity practice, tied to critical sectors

Push towards "cybersecurity ethics-by-design" : holistic process

## 4. Methods

✓ Critical analyses of state- of-the-art

✓ Design of holistic methodological framework

✓ Empirical evaluations of current cybersecurity ethics practises