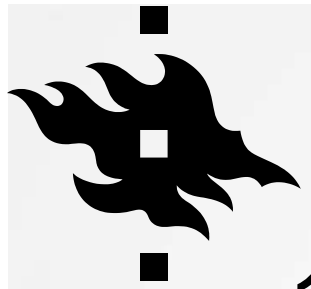




FCAI

AI EDUCATION FOR ALL THE FINNISH WAY

Teemu Roos
Associate Professor
University of Helsinki &
Finnish Center for AI www.fcai.fi

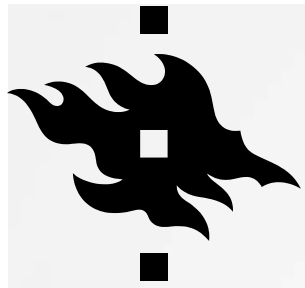


AI MYTH BUSTERS

1. superintelligence
2. self-driving cars
3. 47% of jobs at risk
4. algorithmic bias

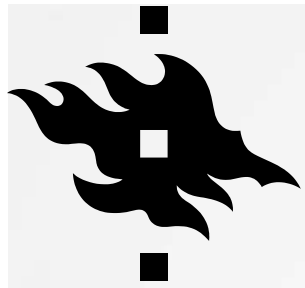
(Spoiler:
two of these are **busted**,
one is **plausible**,
one is **confirmed**.)





WHY WE NEED TO GET RID OF MYTHS

1. **Everyday cost:** Fear of AI slows down the adoption of AI solutions
2. **Scientific cost:** Without research funding, there's no world-class science
3. **Industrial cost:** Without world-class science, there's no innovation



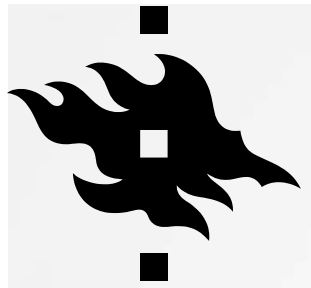
WHY WE NEED TO GET RID OF MYTHS

4. **Societal cost:** Ignorance prevents taking part in discourse and democratic decision-making

AI is a **tool**

A tool can be used for good or for evil

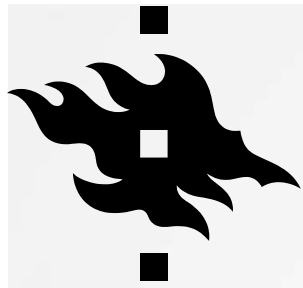
The most important decisions about AI are not technological. They are **political**.



HOW?

- Experts: reach out
- Journalists: dump clickbaits
- You: be more critical
- Most importantly:
**AI education on
all levels, and free for all**

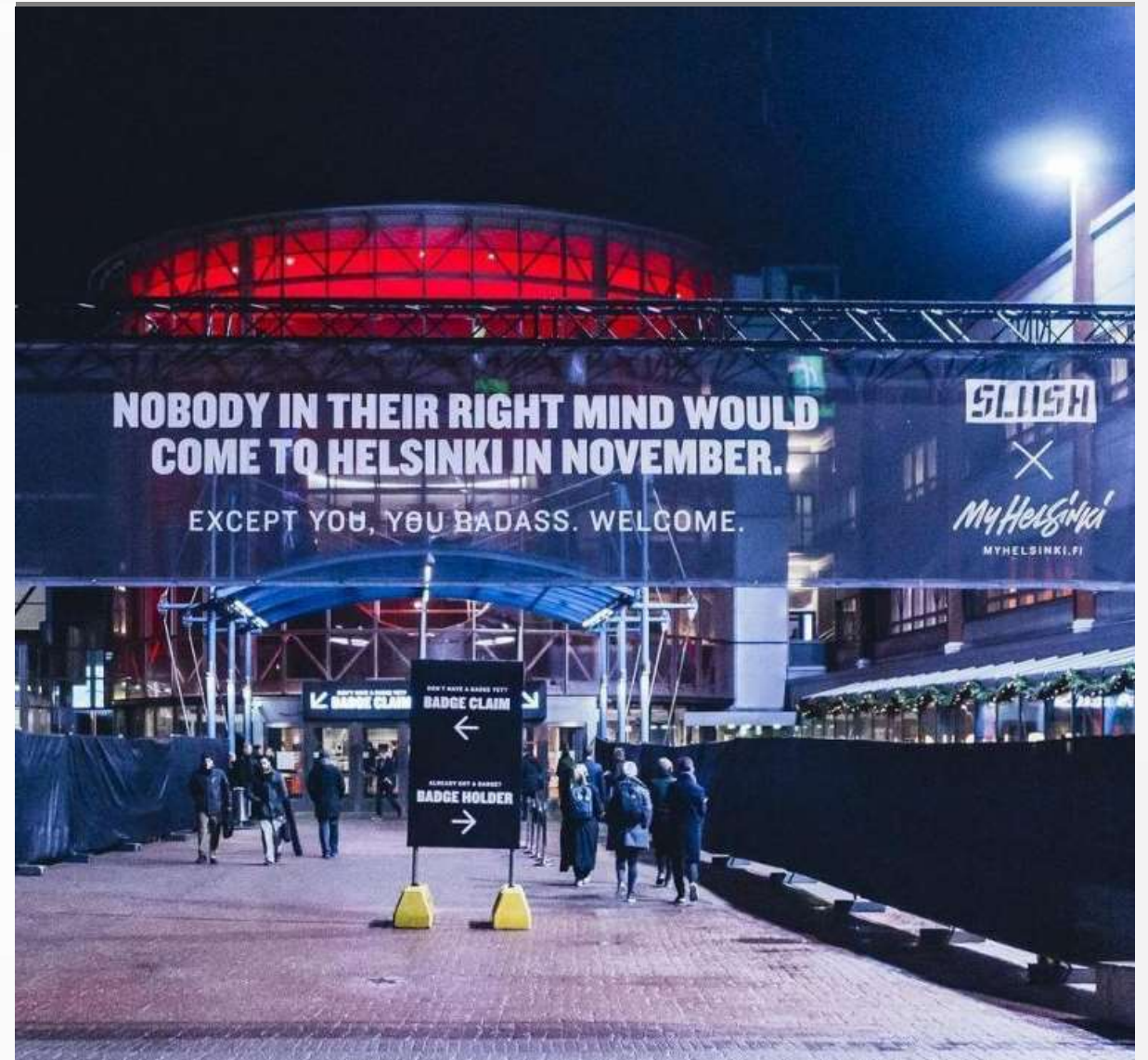


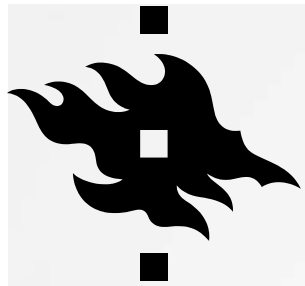


THE FINNISH AI STRATEGY

www.tekoalyaika.fi/en

1. Competitiveness through the **use of AI**
...
3. Ensure AI can be **adopted** more quickly and easily
4. Ensure top-level **expertise** and attract top experts
...
7. New models for **collaboration**

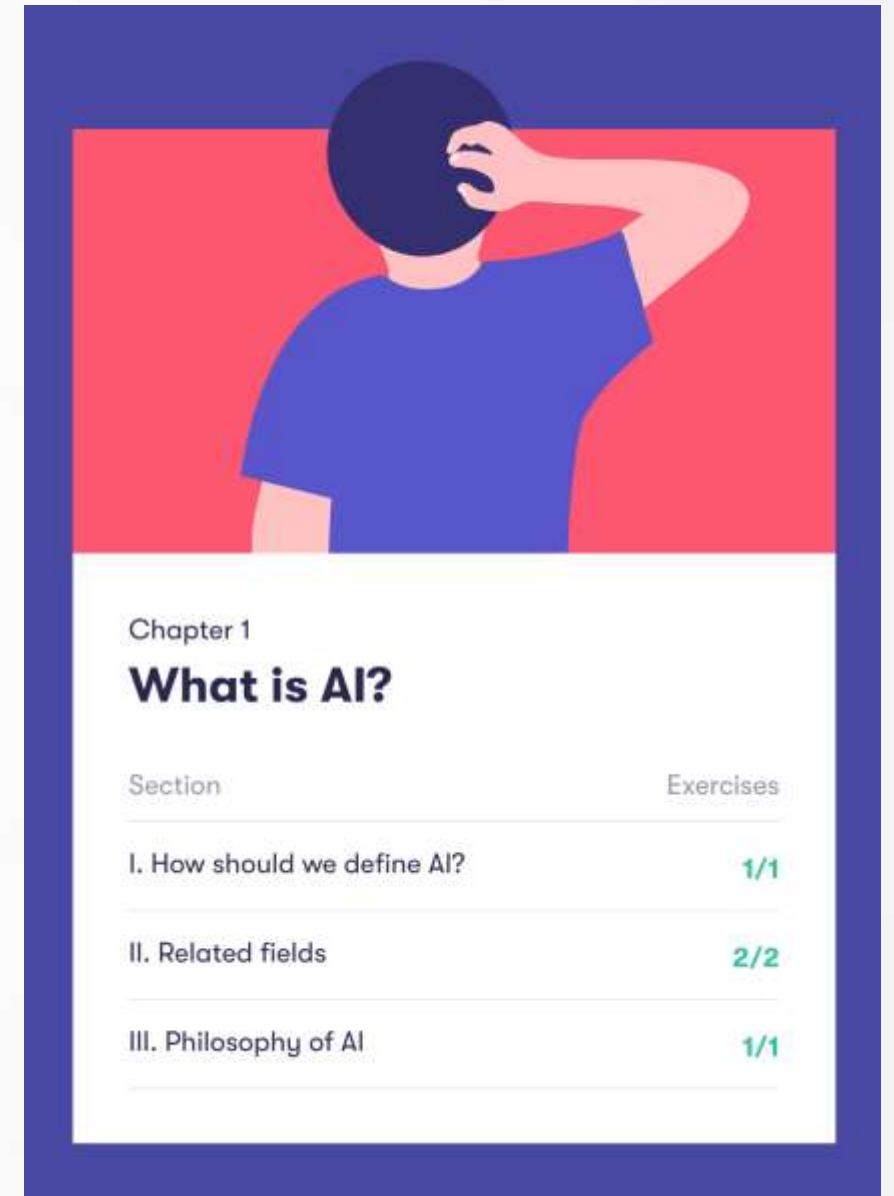


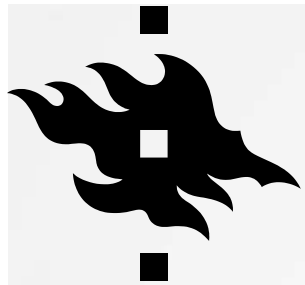


ELEMENTS OF AI

www.elementsofai.com

- Free online course, 30+ hr public–private: UH & Reaktor
- **For all:** requires no coding or complex maths
- statistical thinking, machine learning, neural networks, societal implications
- Launched on May 15th 2018
130 000 participants





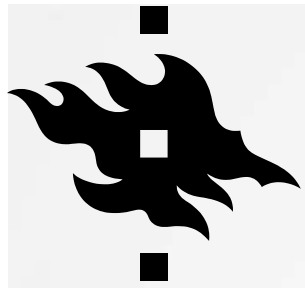
ELEMENTS OF AI

www.elementsofai.com

- "AI literacy": media criticism, public discourse, democratic decision making
- Part of a bigger movement towards open education, diversity in tech
- English and Finnish in 2018
Now: Swedish (AI Innovation of Sweden, Linköping University)

Chapter 4
Machine learning

Section	Exercises
I. The types of machine learning	---
II. The nearest neighbor classifier	2/2
III. Regression	4/4



1% OF THE WORLD

#AIchallenge

- More than 250 organisations:
 - including most of the Finnish major companies in ICT, gaming, finance, healthcare, retail, ...
- 2018: **1% of the Finnish population**
- New goal: 1% of the **world**
 - already more than 80 countries
 - **diversity**: 37% female, 21% aged 45+

