

DIGITALISATION AND BIG DATA: IMPLICATIONS FOR THE HEALTH SECTOR

Training and education

Levente Kiss MD PhD
Center for Teaching



SEMMEWEIS UNIVERSITY

Department of Physiology
Budapest, Hungary
Semmelweis.hu



The availability of adequate health care professionals and clinical researchers that are able to use the latest information technologies

Individuals will understand and smoothly use the opportunities provided by digitalisation and big data if they get familiar with these during their training and education.

- Elective courses *to teach* such concepts:



→ <https://www.edx.org/course/big-data-education-pennx-bde1x-0>

- Use of the these technologies in the context of training and education *to experience* such concepts

Teacher's Roles

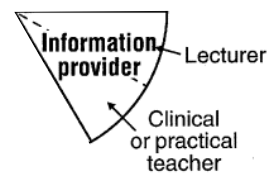
FAIR Principle

Feedback

Activity

Individualisation

Relevance



Harden RM, Crosby J.: The good teacher is more than a lecturer – the twelve roles of the teacher. AMEE Education Guide, 2000

Digitalisation

Digitalisation brings the opportunity to alter and improve many aspects of training and education:

- **E-learning and Blended learning**
- **eBooks**
- **Gamification**
- **Classroom Response systems**
- **Uploaded lectures**
- **etc.**

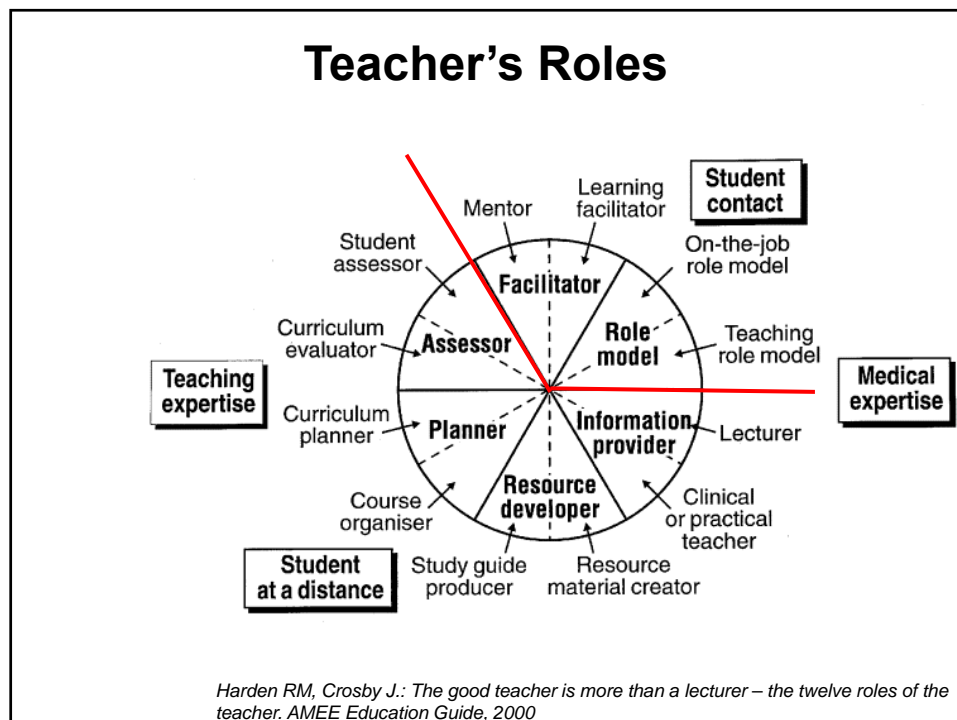
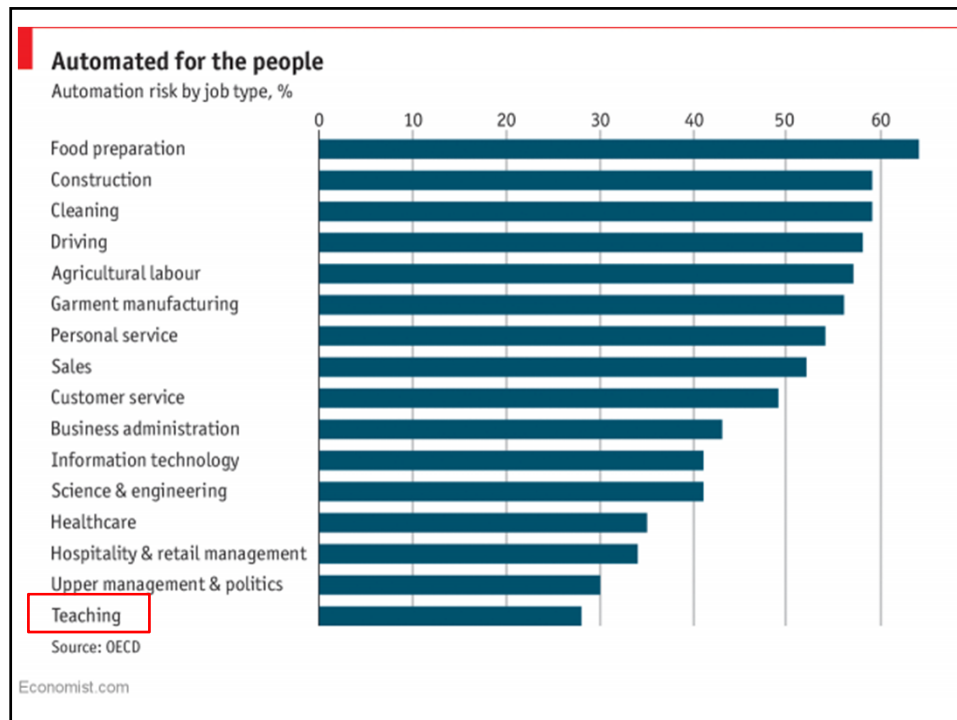
Artificial Intelligence

- Automated big data analysis -

Data provided by digitalisation should make it more feasible to understand the circumstances of students and teachers and lead to better training and education by:

- **Automated Grading Systems**
- **Support to Teachers and Faculty development**
- **Support to Students**
- **etc.**

However...



OUTSTANDING QUESTION

Where are we heading to?

To use the available technologies with decreasing teacher/student ratio to achieve the similar level of output

OR

To use the available technologies maintaining (improving?) teacher/student ratio achieving enhanced level of output

OUTSTANDING QUESTION

Where are we heading to?

A PERSONALIZED EDUCATION that is
DEPERSONALIZED at the same time?



Thank You!



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