

VII EDYCJA E-LEARNING FUSION DIGITAL LEARNING & training market CONFERENCE & EXHIBITION 2023

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Zaprezentuję temat: Leveraging Adaptivity to Decrease Study Time with 30+%

14-15 Listopada 2023 WARSZAWA









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A question for you

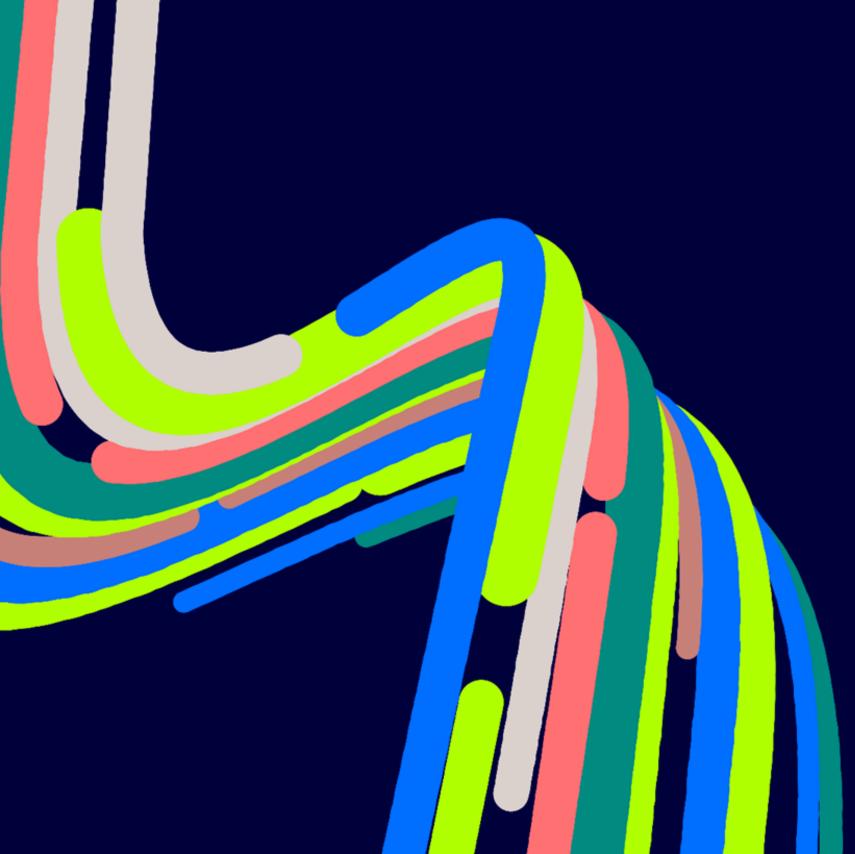
What do you think of when we talk about "adaptive learning"?



Why adaptive medical mathematics?

- Less time spent in training
- The initial knowledge, training history of nurses in maths shows a great variety
- Nurses experience a skills gap in maths: practising helps them to bridge the gap and gain more confidence
- Market trends
- Development of ID's





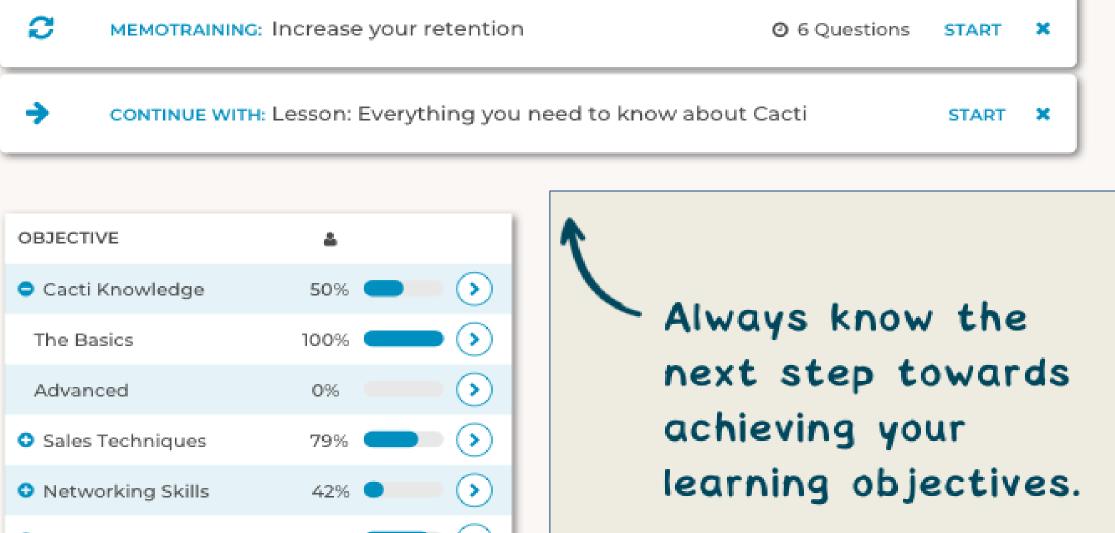
Adaptive learning

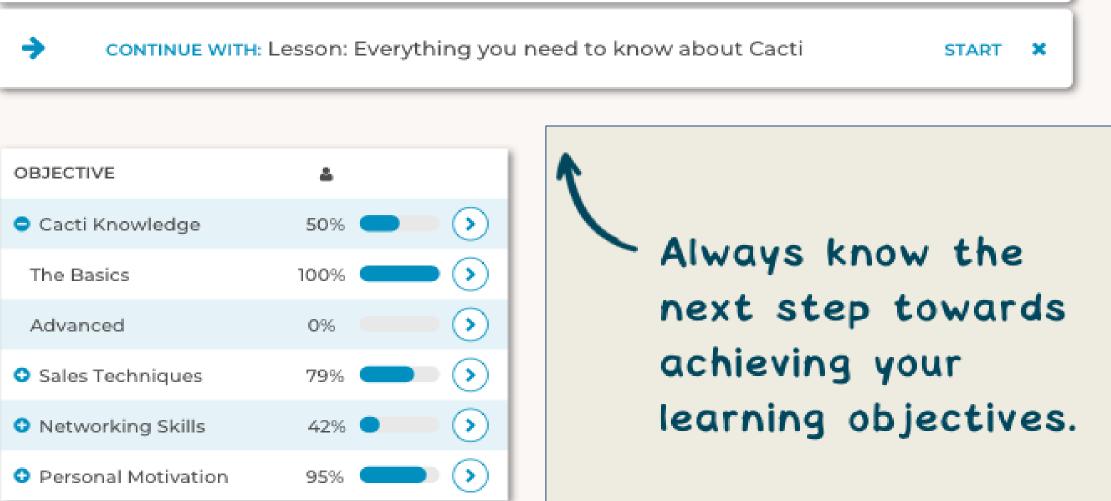
Medical Mathematics learning journey



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First, our definition of adaptivity







De

VERVALDATUM: 06-04-23

VERVALDATUM: 22-12-22

VERVALDATUM: 14-07-22



Demo Basic life support

Deze demo bevat animaties, simulatieoefeningen en een videoeindtoets.



Medisch rekenen: vaste en vloeibare medicatie

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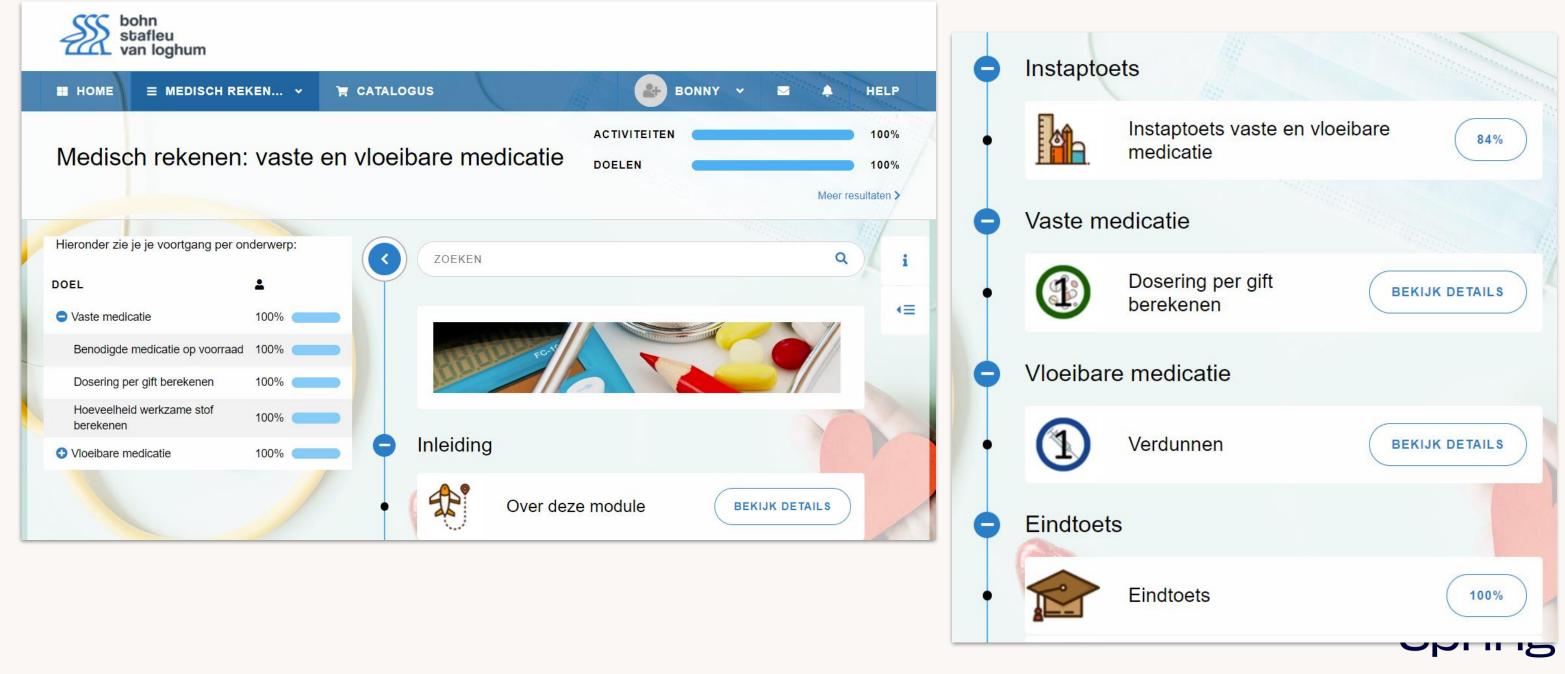


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HELP

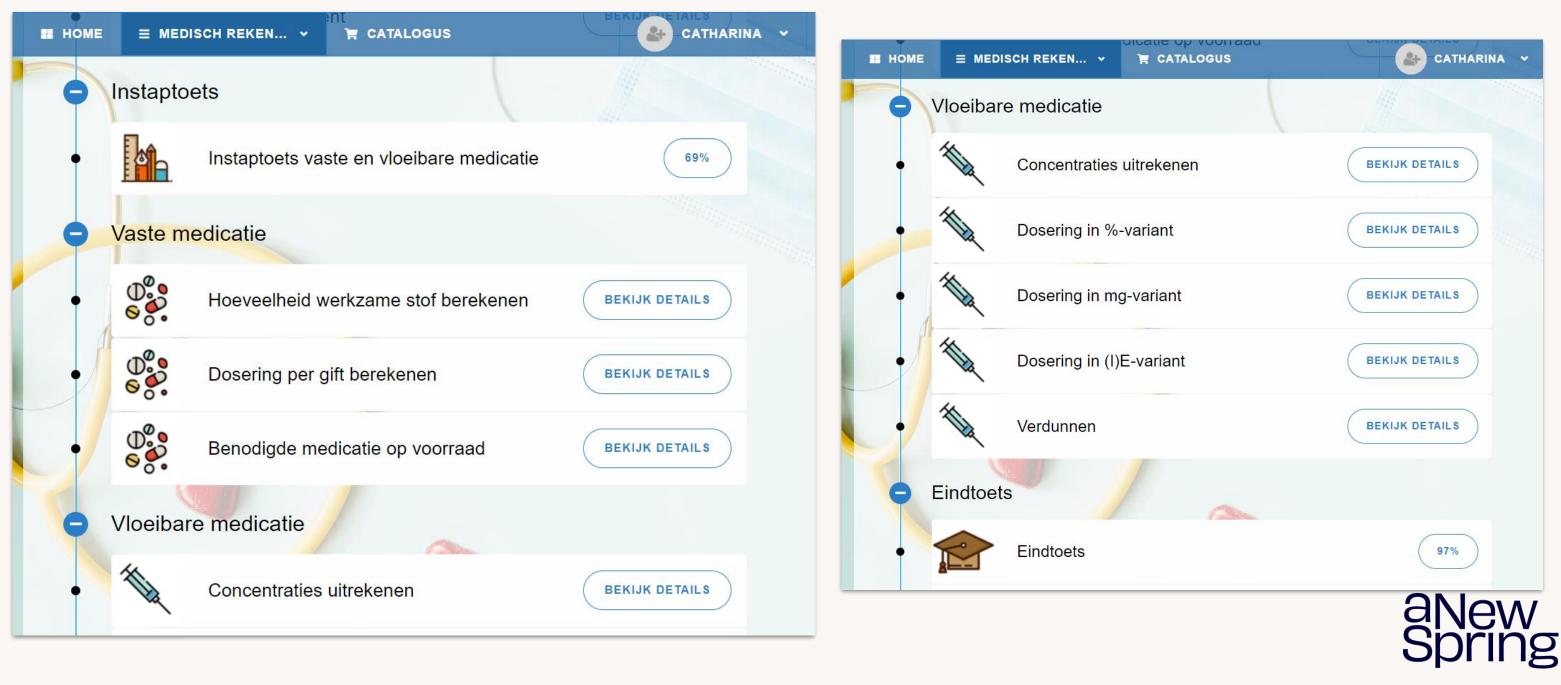
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Learning journey (adaptive)



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Learning journey (linear)



Creating the content

- Developed with SMEs
 (1 maths teacher and 3 nurses)
- Prototype tested with target group:
 - \circ 4 nurses in the office
 - \circ 22 nurses from home
- Adaptive versus linear



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Our research

What did we look for, and what did we find?

Designing and conducting the research

- "What effect does adaptivity have on the results of the e-learning Medical Math, in comparison to a linear version?"
- Participants are all healthcare professionals
- Selection of learning objectives
- Pre-test and post-test
- Questionnaire on motivation and self-efficacy
- Analysis: independent T-tests and Pearson correlation coefficient





HAN_UNIVERSITY OF APPLIED SCIENCES

Recap of the results



15.3% improved

4.39 out of 5



Impact

Adaptive learning in healthcare



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Impact of adaptive learning in healthcare

What is the impact of 33 % less time to competence in hospitals in The Netherlands?

- In 2021 74.400 nurses employed in 82 hospitals
- Once in every 2 years each nurse follows a medical math training of **2 hours**
- Average salary is €68,-p/hour
- Cost spent on training: €136,-
- Cost saved on training: 33 % of € 136,-= € 44,88
- For hospitals in The Netherlands this means a saving of
- 74.400 * 44,48 = €3.339,072 every 2 years





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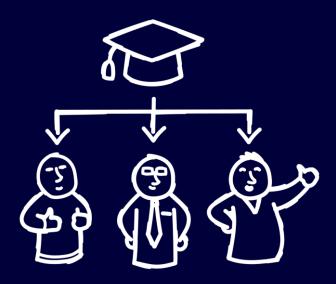




1. You're targeting a large group of learners



2. Variety among learners





3. Clear standards of "good" or "capable"





4. Expertise available on writing good learning objectives



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