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The Future of LMS platforms

What will be the challenges, roles and opportunities for decades to come?





New era

- Different e-learning world since Corona
- Many developments
- New focus in the University structure
- Goal of this talk: provide a picture of key aspects of the future LMS



Overview







My background - our LMS

- Moodle (TUWEL = TU Wien E-Learning)
- 17 years in service
- 30.000 active users per year
- Large installation central & official platform
- We try establish it as the central digital learning system!







Key aspects of future LMS

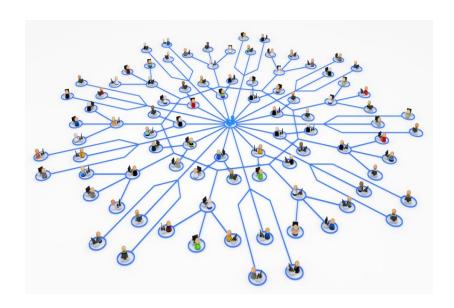
Now go through one-by-one ...





Future role?

- Hopefully a "central hub"
 (Zoom, recordings, content, etc. all in one place)
- Entry point for digital teaching
- Interlinked tools (based on international standards)

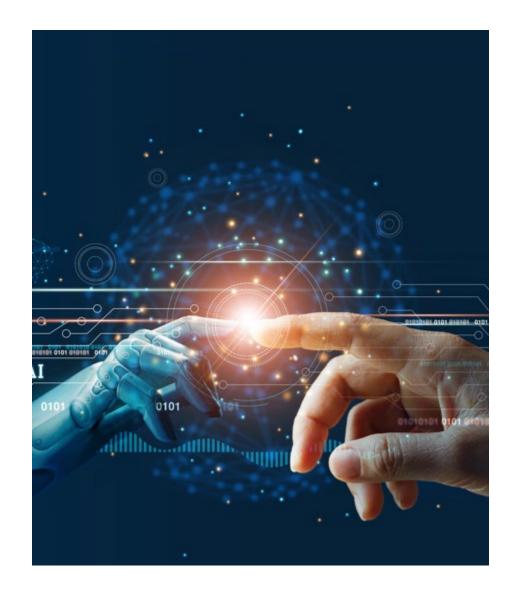






Artificial intelligence

- Great expectations / potential
- More personalized learning
- Al-boosted tutorial systems (e.g. forum)
- Easier content creation
- Re-thinking e-assessment (e.g. will seminar papers "die"?)







New AI Tools every day?

Finding AI tools

https://www.futurepedia.io/ https://www.advanced-innovation.io/ki-tools https://cogniwerk.ai/

Generate images:

https://www.midjourney.com/ https://stablediffusionweb.com/ https://stablediffusionweb.com/ControlNet#demo

Generate texts:

https://chat.openai.com/auth/login https://smodin.io/de

Audio out of text:

https://ttsfree.com/ https://beta.elevenlabs.io/ https://murf.ai/

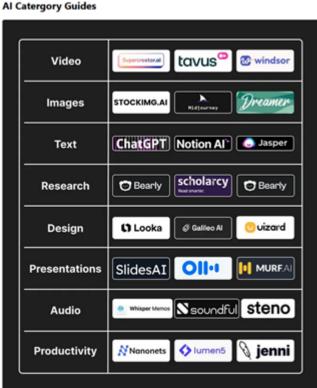
Videoavatars out of text:

https://www.synthesia.io/ https://www.d-id.com/

Create presentations:

https://www.slidesai.io/de











Virtual reality

- Immersive and interactive learning experiences
- Haptic experiences
- New virtual rooms / labs / social meeting points for exchanging with peers







Inclusion, accessibility

- Faster better transcoding
- Learning without language barriers (example: live audio translation with same voice model as the speaker)







Usability

- User-centered / tailored design ("I want to see this pdf as a video!")
- Automated (pedagogical) nudging
- (finally) supporting individual needs and skills







Scalability

"To be honest, current hybrid settings are the worst for our teachers!"

- Better support for different learning settings (remote, on-site, hybrid, etc.)
- Dependencies to hardware should be decreased
- Big data / improved analytics / blockchain
- And of course: sustainable and green service operation!









The dreams are big!

Hope for a better (learning) world!









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Thank you for your attention!

Questions?