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# Designing and delivering VET curricula in the digital age event


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Co-funded by the Erasmus+ Programme of the European Union



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# Education – society megatrends


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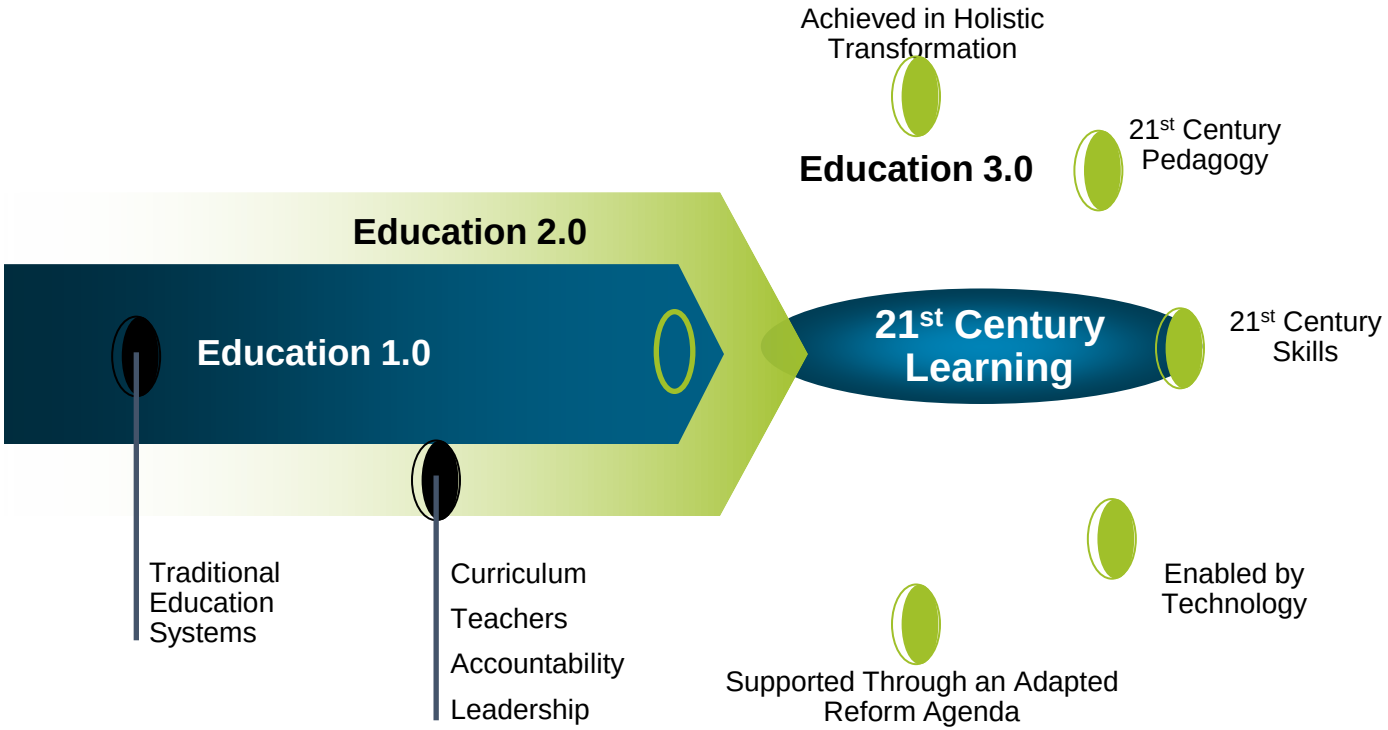
# The Paradigm Shift Characteristics

## Is the answer just to develop new/more training ?

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# New landscape for education

- Lectures move online—which handles students' need for personalization—and, as one of Lee's presentations states, "What in a class? Anything but lecturing!" Class time moves away from PowerPoint, blackboards, and whiteboards and is instead devoted to interactive and applied learning—questions and answers, review and summary, quizzes, interactive problem solving, discussion, project-based learning, and labs.

*— Michael Horn, 2014, in Forbes magazine*[3]

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# CURRENT & New TRENDS in VET design and delivery

- Collaborative Learning
- Video Learning and social media
- Personalised Curriculum and Learning
- Artificial intelligence
- Learning analytics
- Immersive Learning with AR and VR
- Gamification in Education

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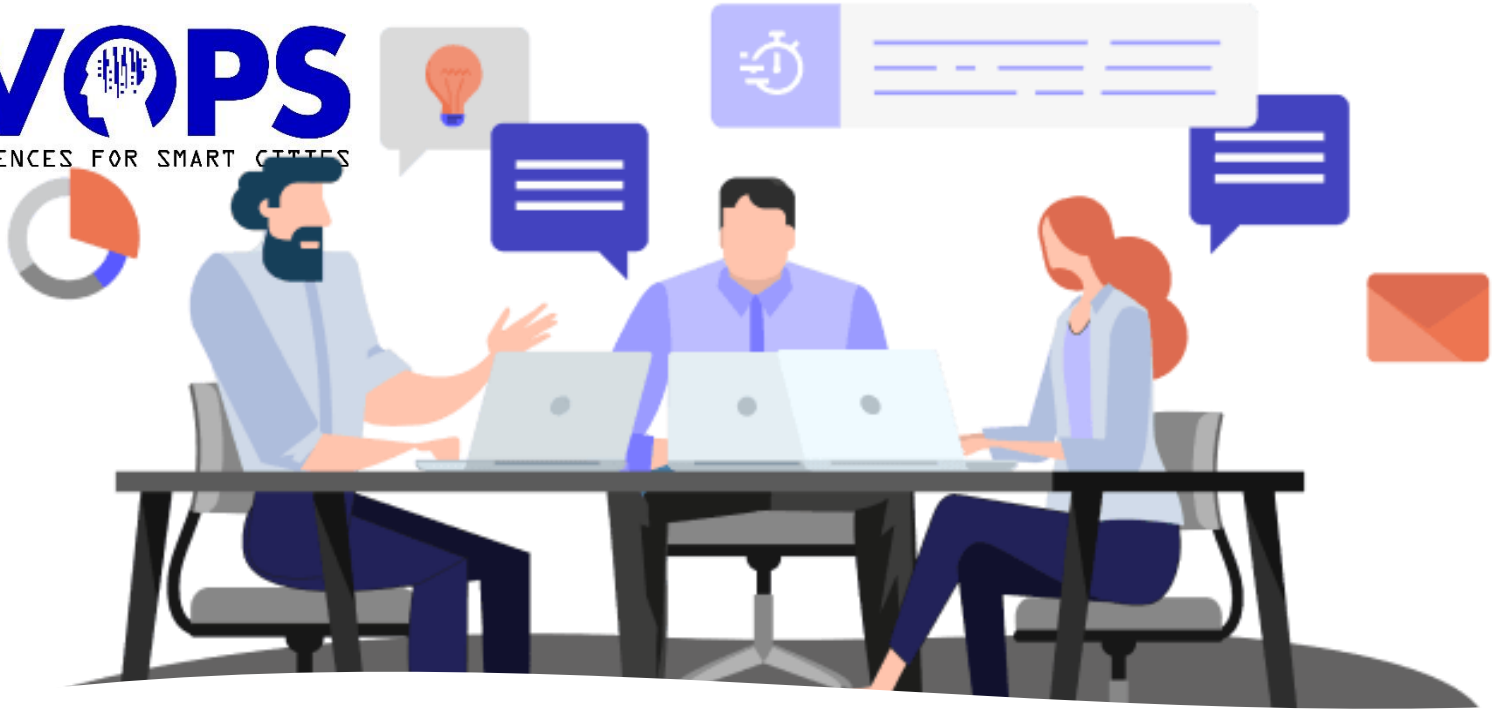

# Collaborative learning

- Collaborative learning is the educational approach of using groups to enhance learning through working together. Groups of two or more learners work together to solve problems, complete tasks, or learn new concepts.
- Learning Outside the Classroom Environment

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# Collaborative learning

- "Collaborative learning" is an umbrella term for a variety of educational approaches involving joint intellectual effort by students, or students and teachers together. Usually, students are working in groups of two or more, mutually searching for understanding, solutions, or meanings, or creating a product. Collaborative learning activities vary widely, but most center on students' exploration or application of the course material, not simply the teacher's presentation or explication of it.
- Collaborative learning is important
  - Helps develop self management and leadership skills
  - Increases learners' skills and knowledge
  - Iimproves organizational knowledge management
  - Helps teamworking

**Approaches**

- Case studies
- Problem based learning
- Project based learning
- Agile project learning
- Simulations

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# Collaborative learning

- **Collaborate:** To build and communicate with your team
  - Flowdock, Slack, Webex, Teams, Zoom
- **Cooperate:** To manage educational projects and tasks
  - Trello, basecamp, Teams, redbooth, wimi
- **Co-create:** Innovate together
  - Google docs, coding team, wattpad, and many more


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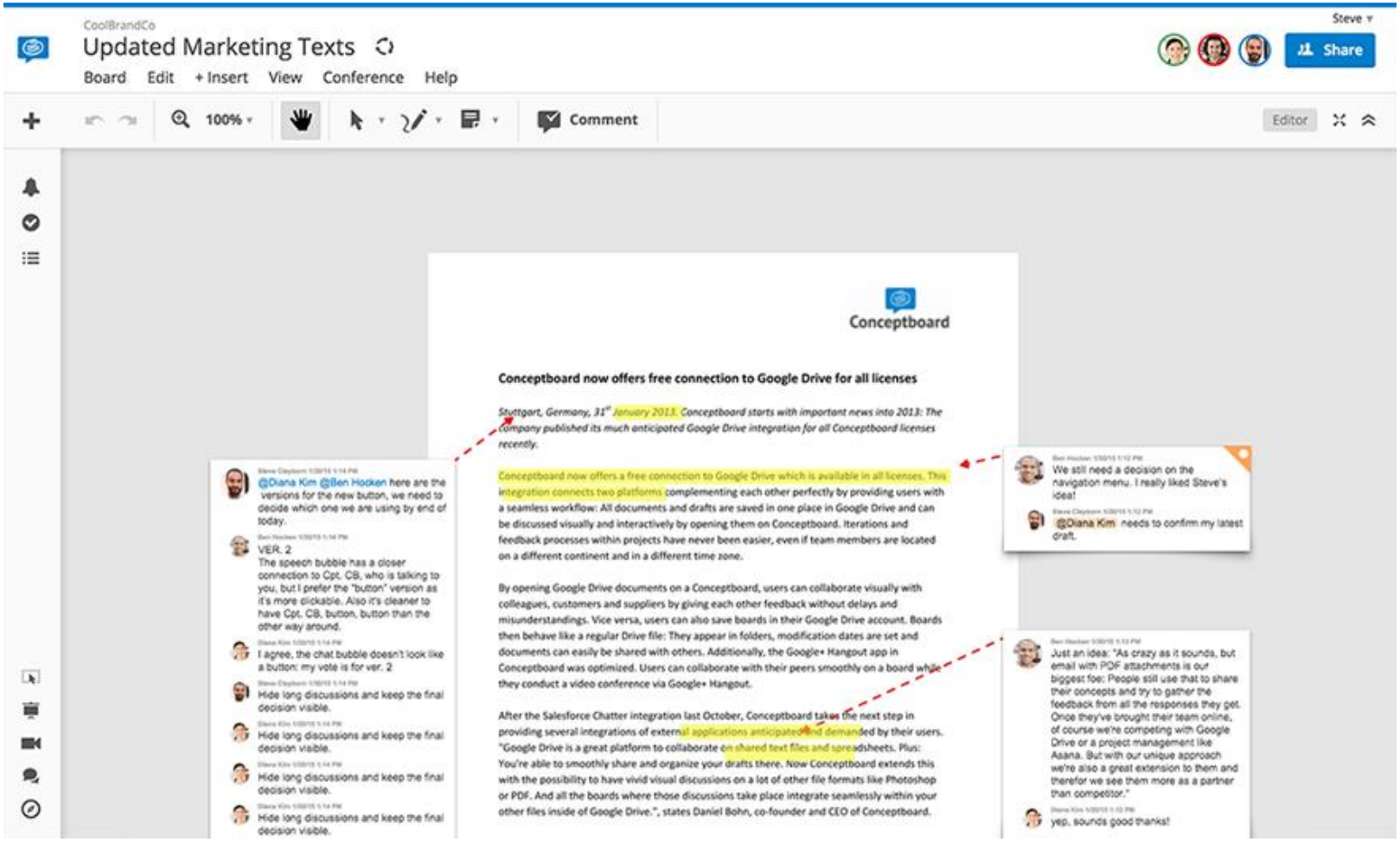
# Collaboration – work together

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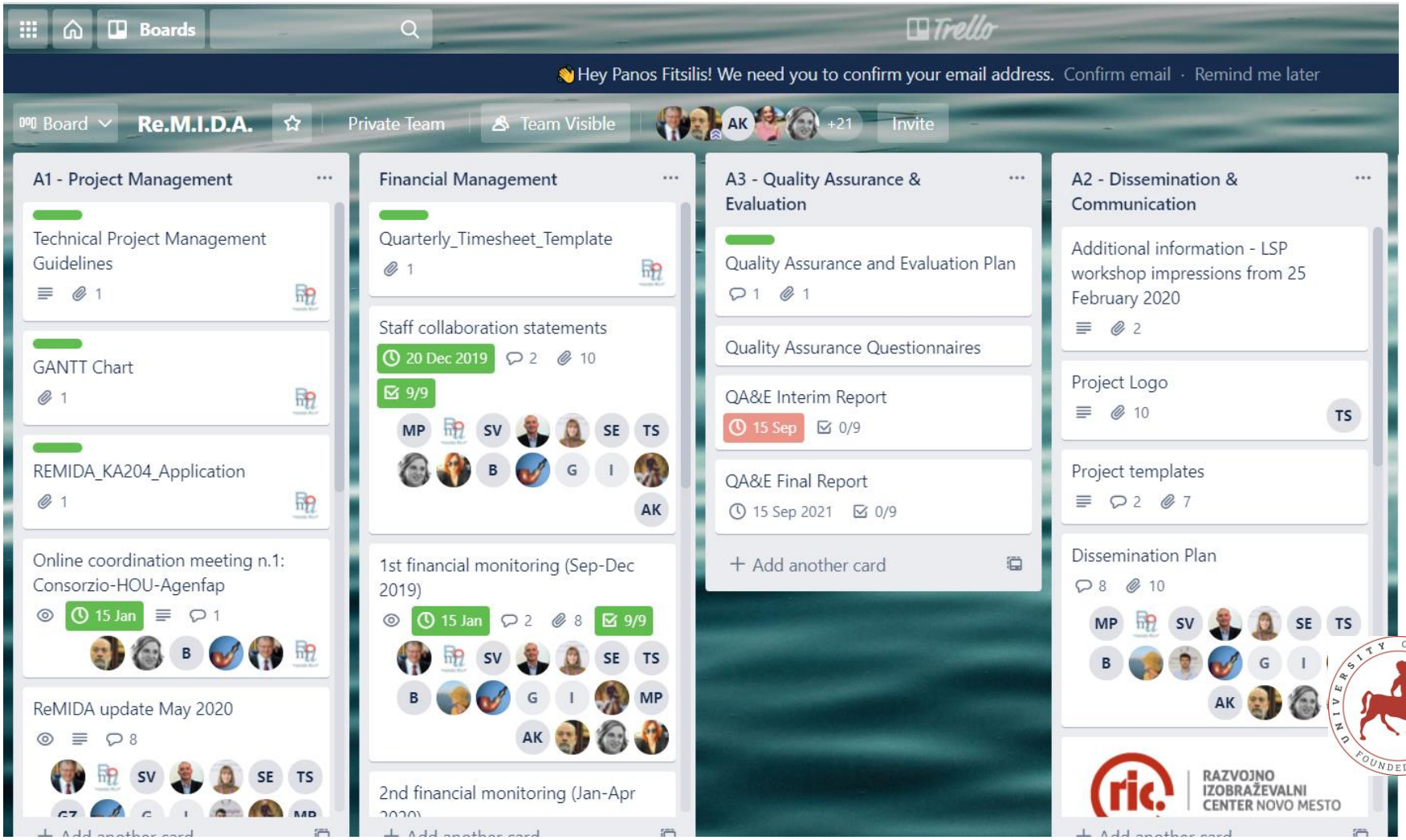
# Cooperate – Share same goals

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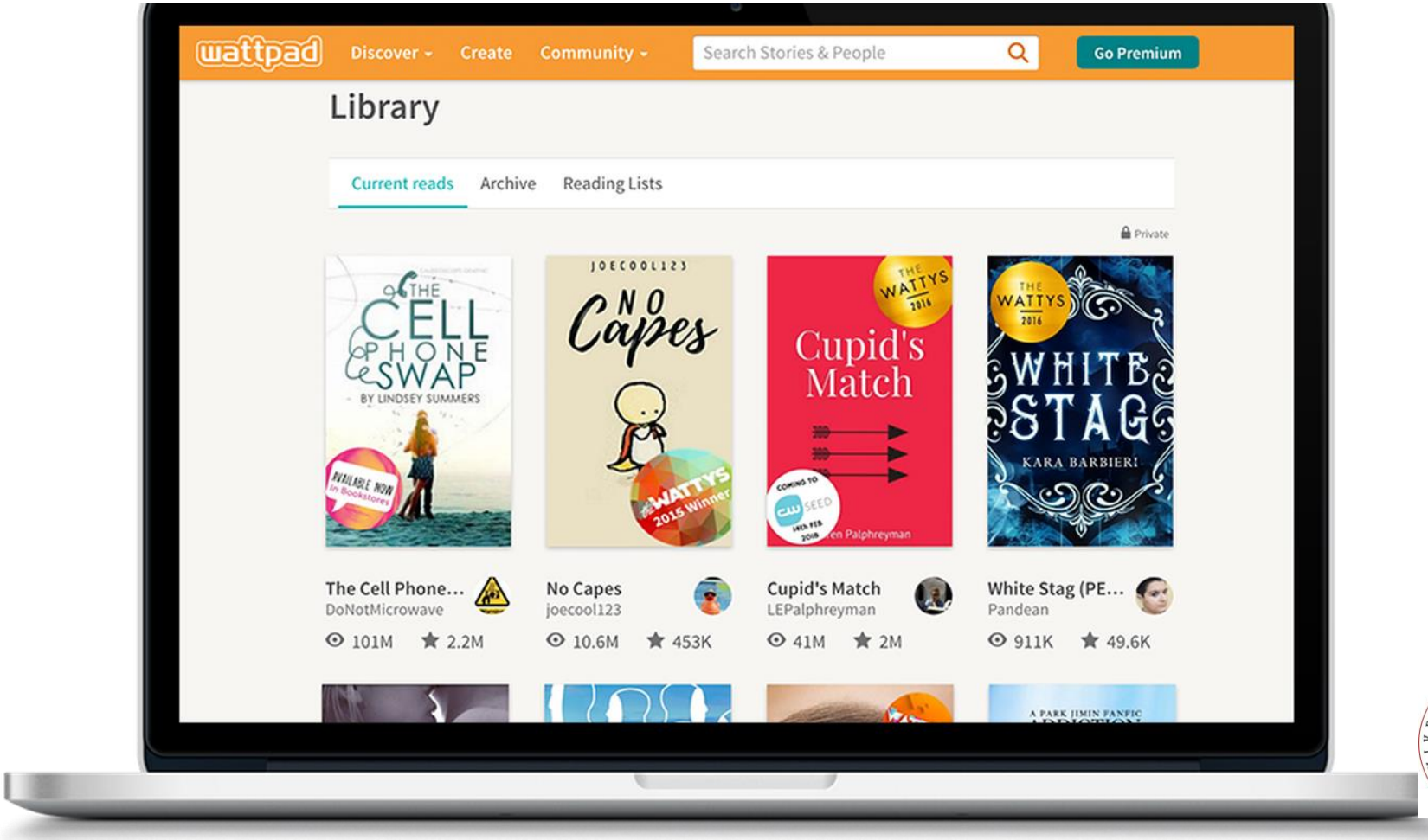
# Co-create – innovate together

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# Video Based Learning

- Youtube
- TED
- Khan Academy
- TikTok

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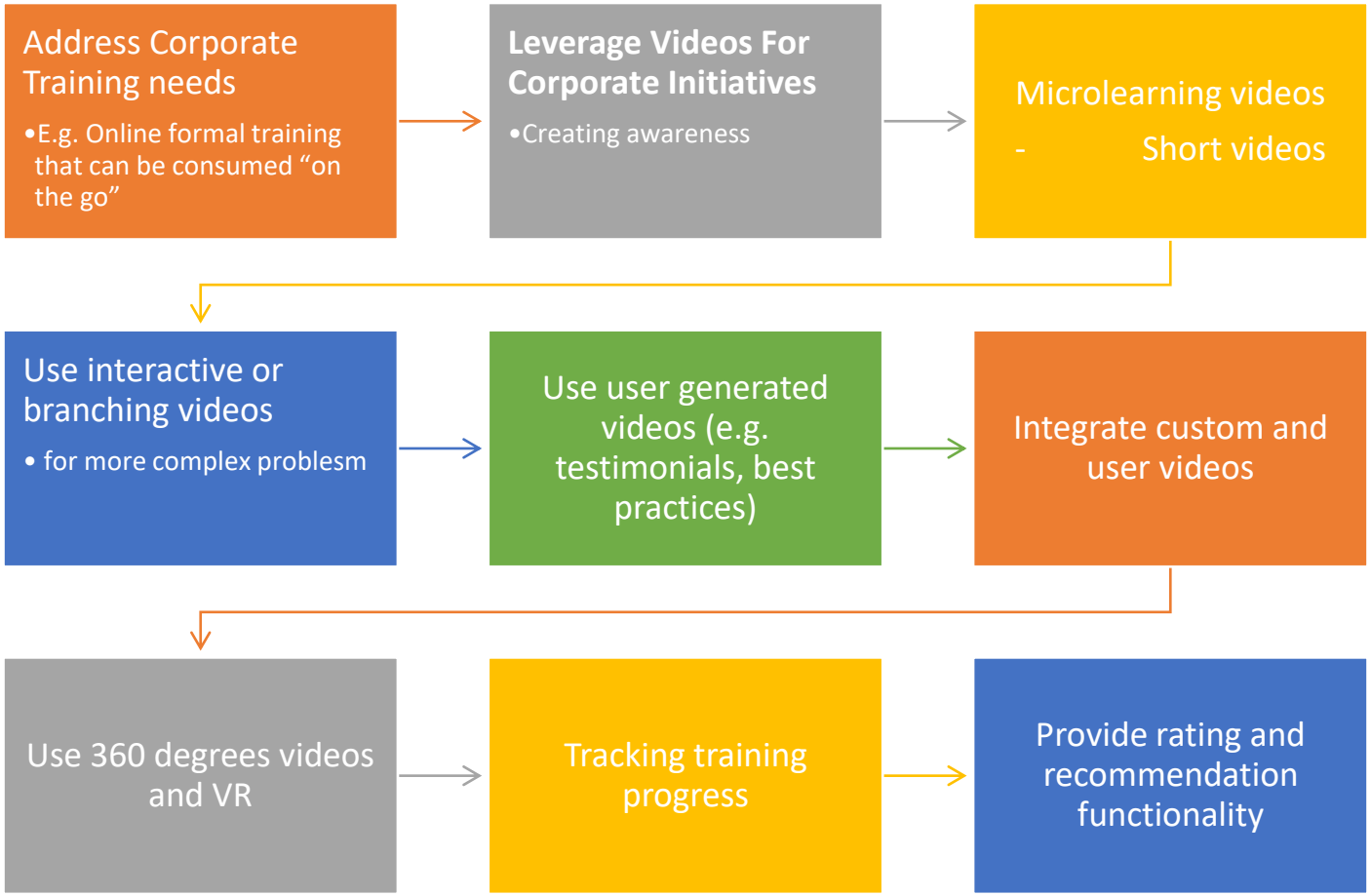
# Video-based learning trends

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# Digitally Personalized curriculums

- Setting the requirements
  - Each one of us is different
  - Students set the pace
  - Selecting from global education resources
  - Personalised resources
  - Synthesize curriculums that meet our needs

- Why not
  - **Educational data accompany persons throughout their lifelong learning journey.**

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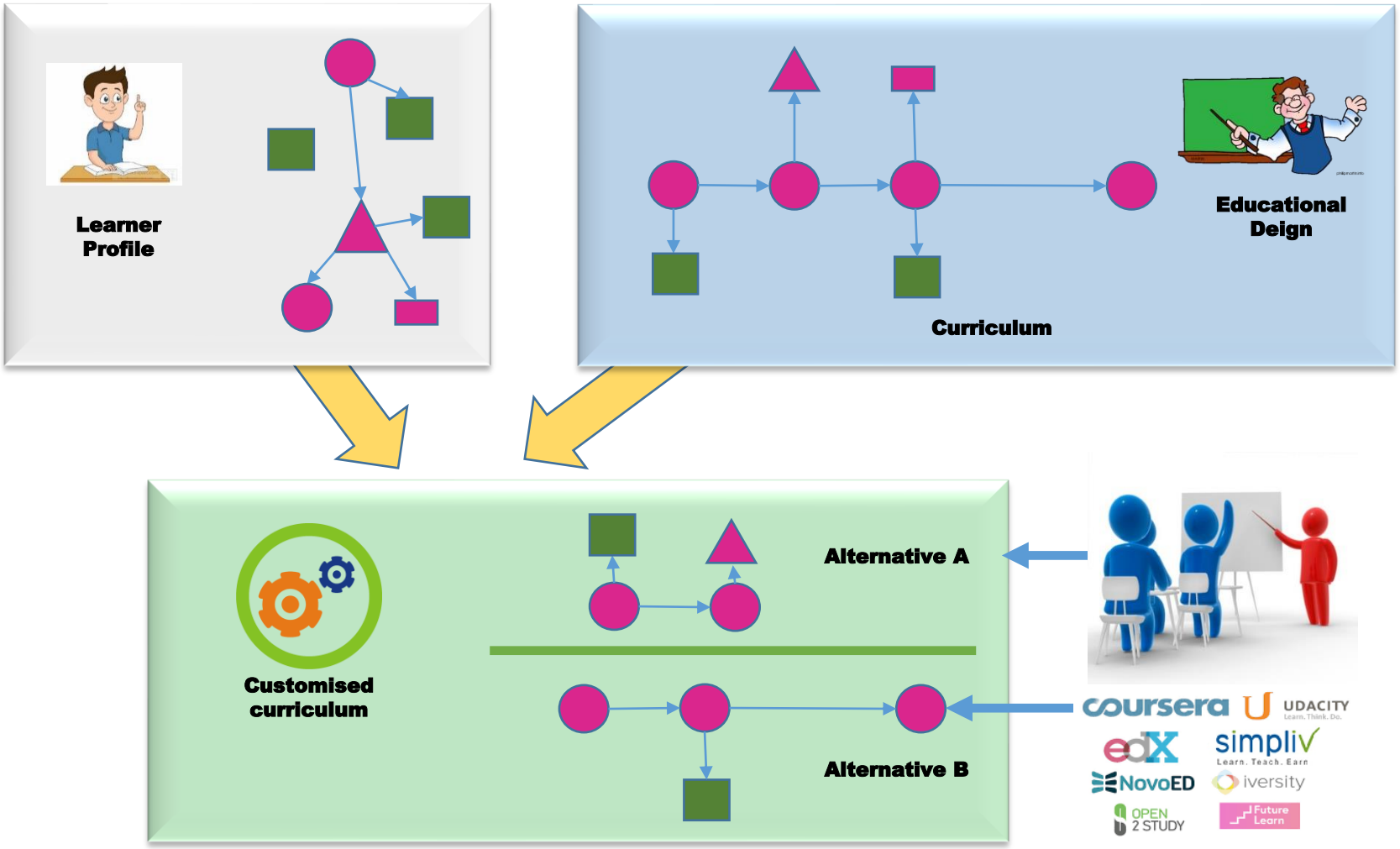
# Personalized curriculums

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# DevOps project

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# Key information

- Official name of the project: **DevOps competences for Smart Cities**
- Acronym: **Smart-DevOps**
- Funding Programme: Erasmus+ (European Commission)
- Starting date: 1 January 2019
- Ending date: 31 Dec 2021
- Duration: 36 months
- Project website: **devops.uth.gr**

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# Aims and objectives

| Identify | Design | Develop | Provide | Develop |
|---|---|---|---|---|
| Identify Europe-wide emerging job profiles for smart cities DevOps professionals. | Design of training modules, | Develop curriculum for these profiles | Provide pilot training | Develop a community of practice for smart city training needs |

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# Conclusions

- We need to rethink how digital is changing VET
  - Just using the or a technology is not enough
- We need to transform VET
  - pedagogy
  - technology
  - business needs
  - societal trends
- We need innovative projects to address these needs


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# Thank you for your attention!

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