Exten [DT]²
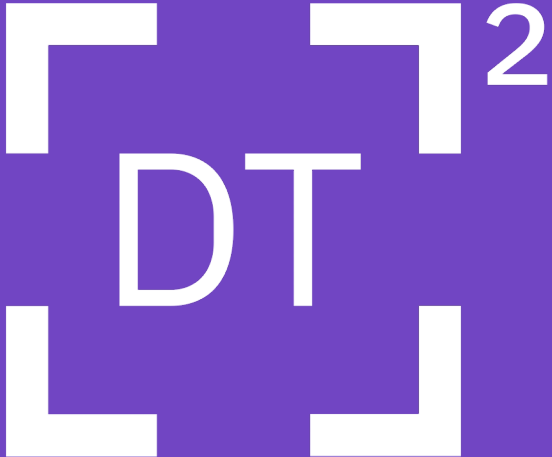
OMT Meeting: 10 February 2023
WP2 – WP9 Updates

WP2: Progress/Updates: The Exten.(D.T.)2 Framework

- Deliverable shared to the WP leader and Reviewers on 31st of January (Katrien and Manolis - also Filothei and Socratis)

- Received on 10.02.2023 feedback from Katrien and will work on the suggestions

- Submitted the Ethics Approval to Norwegian Research Council

- We are thinking to have a workshop among us during the meeting in Athens, to use the outcome for the next deliverable we have about the Framework (more information will follow in case we move on with this thought and will add it in the agenda for the meeting in Athens)

WP3: Updates 14 Jan 2023 – 10 Feb 2023

Exten DT²

Update:

- a research associate started work on the 1st Feb:
  - 4 days per week; working days: Tue to Friday
- submitted an ethics application for collecting data from workshops with teachers to OU ethics - pending
- 2 teachers agreed to complete Activity Plan and run the intervention May-July in England and Wales (Becky and Jonathan)
- produced a version of Activity Plan on nQuire. **Action:** reply to Thea's email with any comments: https://nquire.org.uk/mission/extendt2-activity-plan-for-teachers/data
-

Next steps:

- to upload support material about using technologies to ExtenDT2 website

WP4: Work in Progress

Working with the development of the tools

- Extension of MaLT2 to export models to obj files for 3D printing --> Development in progress. Demo version is expected end of February. *More tech info*: Needed to update the three.js (WebGL) MaLT2 library to the latest version which was ES6-based, thus the whole project is being transformed from plain Javascript to ES6

- Extend SorBET to capture user data (ready)

- Extend SorBET with block-based programming for end-user game development (Demo version end of February)

- Describe the requirements for the 3D printer device to support student models exported by MaLT2 --> Requirements are included in the Technical Document (WP4 folder) -->Best options: Clarity Ender 5, Prusa I3 3d Printer

Working with the LA dashboard
Initial design/sketch of requirements for LA dashboard: https://tinyurl.com/2p9hvx9m

Working with preparation of deliverable 4.1

WP5: Updates

1st Meeting with Teachers (Virtual) 26/01 – recorded

- **Content**: introduction to DT, process and details, Activity Plan Template, teacher brainstorming on DT activities (Padlet)

- **Participants:** 4 teachers - 4 schools (1 math, 2 Computer Science, 1 late primary) all previous experience with technologies but only 1 with DT
    - **First ideas:** Sustainable games: 3D maze in MaLT2
    - A game for smart energy management in ChoiCo
    - 3D bookmarks in MaTL2

- **Next meeting** (in person): Feb 16th
- Teacher assignments:
    - Come up with a first idea for DT Activity
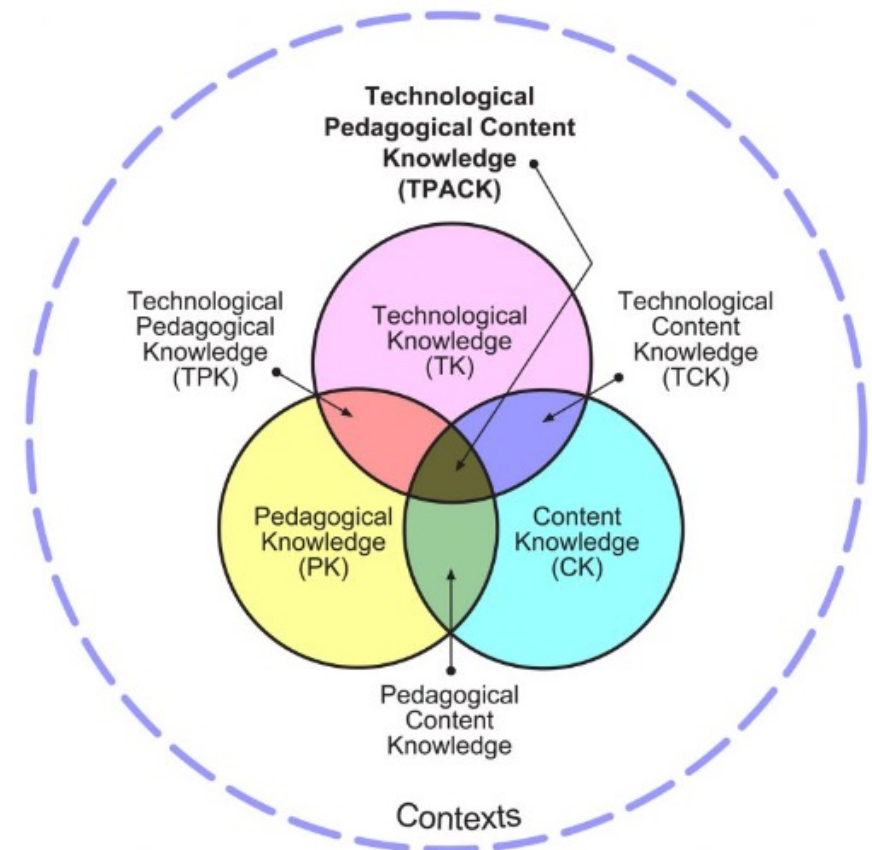   - Fill in at least the first part of the AP Template

Writing Del 5.1

WP6: Professional Development

- **Development PD session for pre-service teachers**
  - 29/03 and 19/04 2023
  - Blended: selection of videos
  - 29/03: first stages of co-creation, 19/04: prototype choico-game
  - Grouping: 6-7 students, diverse disciplines
  - Subject: wicked problem, STEM-related
  - Coaching (live + online)
  - Possibilities co-creation planet
  - Evaluation: to be discussed what and how

- **Dissemination activity**
  - May 10: presentation choico + projects on outreach activity for STEM teachers.
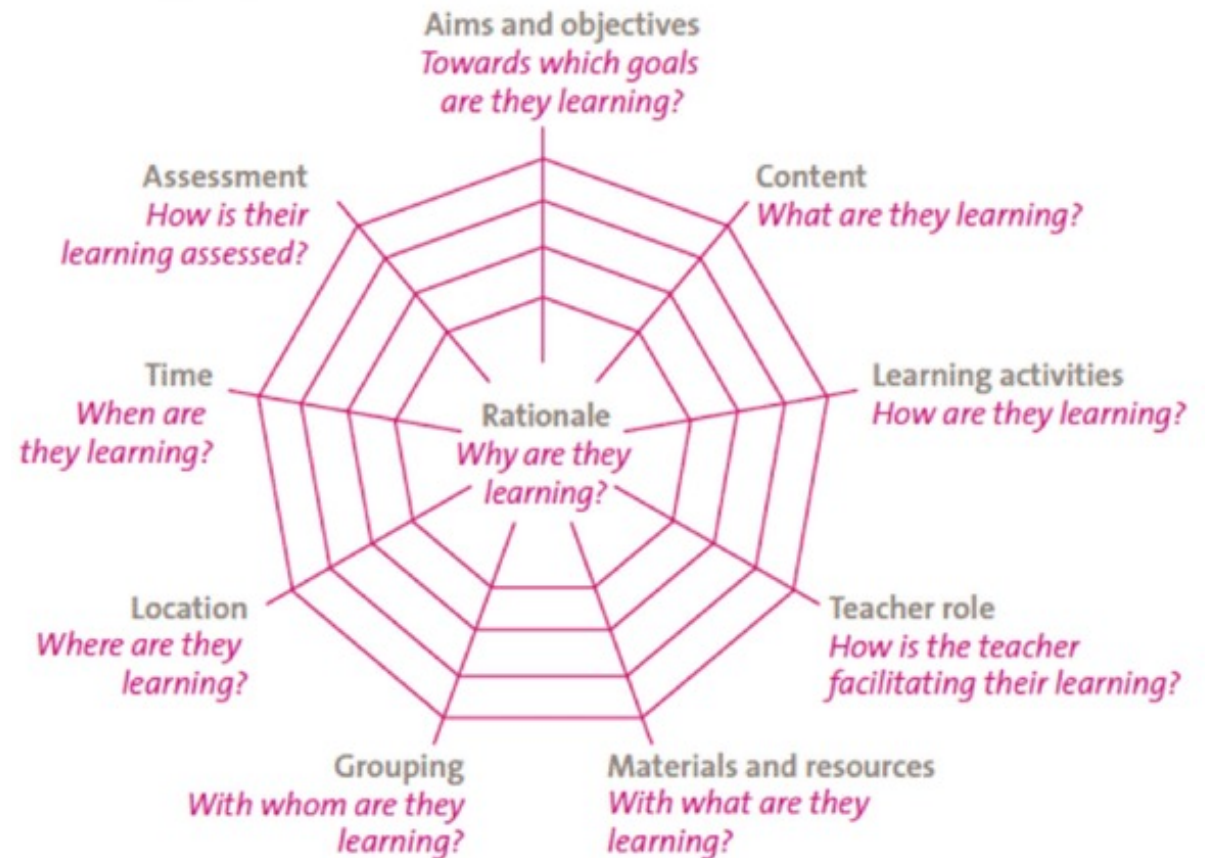
T-PACK Model (P. Mishra, M. J. Koehler (2006))

- Technological Pedagogical Content Knowledge.

- Framework on set of knowledge that teachers need to teach their students a subject, teach effectively, and use technology.

- Design of [DT]² project: take interactions into account, PD activitis should stress these interactions

Curriculum Spiderweb J. Van den Akker (2003)

Exten DT²

- Different facets of curriculum development and implementation must be taken into account when developing material
- Tool for checking the designed educational material

Aims and objectives
Towards which goals are they learning?

Assessment
How is their learning assessed?

Content
What are they learning?

Time
When are they learning?

Rationale
Why are they learning?

Learning activities
How are they learning?

Location
Where are they learning?

Teacher role
How is the teacher facilitating their learning?

Grouping
With whom are they learning?

Materials and resources
With what are they learning?

WP7: Updates

Exten DT²

- **Task 1 – Develop Cycle 1 Evaluation Toolkit**
  - WP3 evaluation outlined & in ethical review at OU
  - WP5 evaluation outlined & in ethical review at NKUA
  - WP6 waiting on outline of activities
  - **Action:** Review and revise WP3 & WP5 evaluation based on IR feedback (CH, MG & CG)
  - **Action:** KS & CG to meet next week to discuss WP6 activities and design evaluation.
  - **Action:** OMT members (or representative) to attend WP7 meeting next week to review evaluation plans.
  - **WP 3 & 5 evaluation toolkit internal deadline**
  - **WP 6 internal deadline**
  - **Risk: Interventions beginning early**

- **Task 2 – SLRs**
  - 3/3 SLRs search terms defined
  - 2/3 initial results reviewed, revised search terms & run again
  - **Action**: Run 1/3 searches; 1/3 commence stage 1 review (CG; MG)

WP8: 14 Jan 2023 – 10 Feb 2023

Exten DT²

Updates:

- Drafted a seminar for Open Education Week
  - **Action Marianthi and Chronis:** pls add bio and images
- Updated website with new images and text changes - thanks Filothei for your feedback
  - **Action ALL:** any feedback email Thea: https://extendt2.eu

Standing Actions:

- **Action ALL:** Add any dissemination activities here:
  https://docs.google.com/spreadsheets/d/1dY063q-GuIfrVW_eiUMBj-8q0bLWCXnlEecJgtqyY_U/edit
- **Action ALL:** Direct users to technologies VIA THE WEBSITE ONLY! We need to hit 10K visits!
  https://extendt2.eu/technologies/

Next Steps:

- Upload glossary to website - any additions pls add here
  https://docs.google.com/document/d/18dInshL2xmgOdFMdcE7G2hUm9gz1oyfLot2eaVs62cY/edit
- Address Katrien's comments on deliverable and send to Shamim for submission by 20 Feb

WP9: Update 10/02/23

- **Task 1 – Set up EAB** – Complete

- **Task 2 – Review and input into initial project developments**
  - Input received from OU, NKUA, NTNU, UGent and LNU
  - Waiting on confirmation of first meeting from Johanna
  - **Action:** LNU to ask Johanna to reply to Doodle poll