

Exten.(D.T.)²: Minutes of Meeting (draft) 30 September, 1st & 2nd October, 2024 Learnovate Centre/TCD, Dublin, Ireland

PHYSICAL ATTENDANCE LISTS: Link can be found for all three days [here](#).

The meeting was also attended online by:

LNU: Ahmed TAIYE MOHAMMED

NKUA: Marianthis GRIZIOTI, Maria-Stella NIKOLAOU, Katia SCHIZA.

NTNU: Feiran ZHANG

OU: Sagun SHRESTHA

SIMPLE: Sokratis KARKALAS

RECORDINGS OF SESSIONS

Further to receiving confirmed approval from all attendees, recordings of sessions can be found [here](#).

FOR INFORMATION

The minutes below for the 2½-day meeting have been compiled by the Project Manager, Shamim PATEL (LNU), with respective contributions for each Session Lead.

Note: The minutes follow, in general, the order of the final approved agenda, which can be found [here](#). The sessions, however, did not strictly follow the order and timings in the agenda. This was mainly due to some discussions overrunning the time originally requested in the agenda.

Day 1: Monday 30 September 2024

09.00-09.30:

WELCOME/INTRODUCTIONS & FORMALITIES (Lead: LNU: Marcelo MILRAD)

MM welcomed everyone to the project's fifth six-monthly project physical meeting at Leornovate. **Richie** and **Deirdre** were welcomed to the project and gave a short overview of Learnovate. Short introductions followed.

The draft agenda was approved after slight timing modifications (see link to Final Agenda in "For Information" above). The meeting was quorate.

09.30-10.00:

WP2: UPDATES AND DISCUSSIONS(Lead NTNU: Feiran ZHANG Sofia PAPAVALASOPOULOU)
Link to presentation [here](#)

FZ went through the linked presentation which focuses on the status of WP2, recent progress and updates, and importantly, action points and next steps. The next major milestone is version 2 of the framework and guidelines deliverable due in M35.

- **Filothei:** Re online/blended learning contexts: she will do some online sessions using the Platform that will support this.
- It would be an idea to integrate Zoom/Teams, sharing links capability into the Platform.
- **Sagun:** The intervention OU did in Year 1 was in a blended setting. This in relation to the fact that the framework and guidelines need to be adaptive for the online and blended learning contexts.
- **Chronis:** Brought up the context of the Grant Call, with the background of digital transformation. We may need to clarify who the framework addresses and what we are contributing to with these guidelines.

- **Marcelo:** We need to address how resilient the framework is as many things may have changed since the project was funded (for example the digital part is not so relevant probably now).
- **Jake:** Suggested that DT should be visible in the image of the framework.

Actions/To Dos - All Partners

- For the 2nd round of reflection, WP2 needs all partners to work on the file “[updated ExtenDT2 framework and guidelines \[V1.1\]](#)” and provide feedback by **11 October**, *as we are entering the next phase.*
- For the 2nd round of stakeholder consultation, here are the key actions to focus on:
 - Each partner will need to involve **at least four participants**, focusing on diverse end-users such as teachers, technology developers, and researchers.
 - The form of consultation can be flexible depending on your project activities, e.g., co-design, PD, contacts with schools, etc. You may add one extra session at the end of the activity to ask for feedback on the framework and guidelines.
 - The expected outcomes will be feedback on how to improve our framework and guidelines. To facilitate this, we will prepare a practical guide for the consultation soon after this meeting.
 - As we are in October 2024, we encourage all partners to prepare for the round of consultations.

10.00-10.30:

WP3: UPDATES AND DISCUSSIONS (Lead OU: Sagun SHRESTHA)

Link to presentation [here](#)

SS, gave a brief overview of the materials that were designed by the team to help teachers, students, policy stakeholders and researchers. This covers: video materials for teachers and students, Exten.(D.T.)² project videos, a project flyer for all stakeholders, manuals and demos on using technologies, DT activity plan templates for teachers, the Exten.(D.T.)² Digital Design Thinking model, a podcast co-created with the AugMENTOR Team, glossary, project reports, newsletters, teacher training material, guidelines for mass deployment, Open Learn online course for teachers and publications.

SS gave updates on the PD online course 'Teaching with Design Thinking and Emerging Technologies' and walked the project team through the draft which is scheduled to be launched by the end of October. Representatives of each partner have been asked to review this course. This course will be launched on the Open Learn Platform managed by the OU. A challenge associated with this course is the limited capacity of the Amazon server, which may remain an issue during the course. The consortium expects approximately 2 000 teacher participants enrolled on this course to use the Exten.(D.T.)² Platform which uses Amazon server. This issue is under consideration.

10.30-10.45: TEA/COFFEE BREAK

10.45-11.30:

WP3.4/WP6: EXTEN.(D.T.)² TOOLKIT FOR TEACHERS (Lead UGent: Benny MALENGIER)

Link to presentation [here](#)

BM gave an overview of the Exten.(D.T.)² Cocreation Planet Toolkit. The English language version has all links to support teachers from earlier projects, augmented with links to tools and resources from Exten.(D.T.)². UGent also plans a Dutch version and an implementation for use by students in a course instead of teachers.

Actions/To Dos - All Partners:

- Everybody should try the development version at <https://bmcage.github.io/cocreationplanet/>. (NB: If on first load the planet is not active, reload webpage once.)
- Everybody is asked to suggest three links to add to the planet concerning ExtenDT2 tools and examples (red and blue cities on the planet). In case of bugs, or feature requests, please email Benny.

11.30-12.00:

WP5: REFLECTIONS FROM YEAR 2, FUTURE STEPS, TIMELINE, YEAR 3 TARGETS

(Lead NKUA: Marianthi GRIZIOTI & Christina GKREKA)

Link to presentation [here](#)

During Year 2, 26 school interventions were implemented involving 18 schools, 639 students and 28 teachers. The interventions covered diverse subjects such as Mathematics, Computer Science, and Environmental Education. Most of the interventions integrated ChoiCo and SorBET. However, there is a need to increase the implementation of MaLT2 activities in Cycle 3, as only four have been developed so far. We have to have designed at least 10 by the end of the project.

While collaboration and teamwork were the mostly mentioned learning outcomes during Cycle 1, in Year 2 presentation and communication skills were emphasized, something closely related to the new Exten.(D.T.)² model that was implemented during Cycle 2, where there is emphasis on sharing, feedback and delivery processes. Reflection and Critical Thinking are mentioned both as DT with ET skills and 21st century skills by teachers. A variety of supporting material was used, targeting to facilitate role distribution and guide feedback activities. Some teachers used introductory activities to support students get familiar with the project's technologies. Teachers also provided their students with a variety of entry points to reassure their participation. These were related to: a) technology use, b) grouping and orchestration, c) integration of unplugged activities, d) openness of the project regarding tool selection and DT problem definition. Students produced physical and digital outputs, including 3D models and VR simulations, with feedback incorporated into their work. This year students created more deliver-related artefacts such as posters and presentations to present their work.

Next steps include the simplification of the activity plan and the alignment of its online versions to improve usability. Additionally, the activity plan template will include multiple entry points for students, allowing them to take different paths during the intervention. Year 3 interventions have to include blended and online learning activities, and the use of extended tools such as the LA Dashboard and authorable feedback. For interventions to start earlier and to avoid possible problems related to the readiness of the technologies, NKUA along with WP4 will define specific links to the tools and the platform categorized in three tiers. Supporting material will be designed to further support the use of dashboard and authorable feedback features. In the Cycle 3 (M18-30) the project aims to reach 40-50 schools and engage 1 000-1 300 students.

12.00-12.30:

WP7: EVALUATION AND DATA ANALYSIS (Lead TCD: Jake BYRNE)

Link to presentation [here](#)

JB went through the information in the linked presentation above.

Action/To Do – All Partners:

- TCD needs one recommendation from each partner of a teacher to contribute to co-design the Teacher Evaluation Toolkit in Task T7.3 (possibly link this with the WP2 feedback on the framework?). TCD is planning to have the co-design workshops in October so all partners should respond to Jake, Deirdre and Richie by **10 October**.

12.30-13.30:

LUNCH BREAK / BUFFER

13.30-17.30: WP4 SESSIONS (Lead for amalgamating WP4 session minutes, LNU: Alisa LINCKE)

WP4.1: AUTHELO DEMO PRESENTATION (Lead SIMPLE: Filothei CHALVATZA)

WP4.2: DASHBOARD (Lead LNU: Alisa LINCKE)

WP4.3: REFINEMENT OF EXTEN.(D.T.)² TOOLS (Lead NKUA: Christina GKREKA)

WP4.4: HANDS ON WORKSHOP: “TEACHERS & STUDENTS USING THE PLATFORM”
(Lead NKUA: Christina GKREKA /Marianthi G GRIZIOTI & SIMPLE: Filothei CHALVATZA)

Link to all WP4 presentations [here](#)

Year 3 school interventions will integrate three different tiers of technologies. NKUA, SIMPLE, and LNU need to clearly define the versions of the technologies that are included in each one of the three tiers of technologies and provide the according links for each case. NKUA will also verify if the voice recognition feature complies with ethical standards, and possibly make it disabled by default until approved. SIMPLE should provide a step-by-step tutorial for LA features similar to what was presented at the TCD meeting and check the Grant Agreement to clarify the requirement for "Enabling learning analytics" for 200 users, which currently only teachers can access. LNU should provide a tutorial for using the dashboard, and the needs for a student dashboard should be gathered for its development. LNU will also provide examples of interpretation of the data depicted in the dashboard in order to support teachers in understanding its use. Additionally, there is a need to reach 10 learning activities for MaLT, as only four exist currently. SIMPLE, LNU, and OU need to discuss the use of the ExtenDT2 Platform for open courses, including overcoming any challenges.

There was a discussion between all partners about the possible support for online learning. Some ideas include online real-time chat for students. Furthermore, there should be at least one learning activity involving online/remote participation from students, such as a design thinking phase assigned as homework for group work.

Actions/To Dos:

- **NKUA, SIMPLE, LNU:** Define clearly the versions of the technologies (stable extended, not stable, with/without LA and dashboard, etc.).
- **NKUA & SIMPLE:** Gather all links categorised in three tiers of technology that will be used for the school interventions this year according to the timeline.
- **NKUA:** Double-check if the voice recognition feature complies with the ethics, ethical approvals, and consents. Alternatively, perhaps by default, this feature is disabled and could be enabled in the settings for those schools that comply with ethics.
- **SIMPLE:** Provide the tutorial for all the features of LA, perhaps guidance similar to what was shown in the TCD meeting workshop (step-by-step).
- **LNU:** Provide the tutorial for the dashboard about how it could be used.
- **ALL:** We need to reach the 10 activities for MaLT2 (currently, we have only four).
- **SIMPLE, LNU, OU:** The usage of the ExtenDT2 Platform for open courses organized by OU must be discussed (challenges and how to overcome them).
- **SIMPLE:** Double check in the Grant Agreement what is meant by "Enabling learning analytics" feature - should be used by 200 teachers and students? Students do not have this feature available in their user interface, only teachers can use it, does that mean we should have 200 teachers?
- **ALL:** We should have one study/learning activity that students will use online/remotely. For example, create one design thinking phase as homework (students in groups do it from home). Not the whole learning activity must be online/distant, but only one part of it.
- **NKUA, SIMPLE, OTHERS:** The needs of students for the dashboard should also be gathered to enable the development of the students' dashboard.

17.30-17.45 SUMMING UP/END OF DAY 1

19.30: WRAP UP AND WORKING DINNER AT KENNEDYS PUB AND RESTAURANT TO CONTINUE DISCUSSIONS



Day 2: Tuesday 1 October 2024

09.00-10.40:

WP4.1-WP4.5: SHAPING TECHNOLOGIES: FOCUS GROUP DISCUSSIONS

On all technologies (ExtenDT2 Platform, Learning tools, LA, Dashboard)

(Leads: LNU: Marcelo MILRAD / Alisa LINCKE; SIMPLE: Filothei CHALVATZA;
NKUA: Chronis KNYIGOS / Marianthi GRIZIOTI / Christina GKREKA)

A summary of the discussion and resulting Actions/To Do points from this Session are included on page 4 above. The WP4 summary covers all sessions related to Tasks T4.1-T4.5.

10.40-11.00: TEA/COFFEE BREAK

11.00-11.45:

P1 REVIEW: REFLECTIONS, DISCUSSION AND ASSIGNMENT OF LEADS ON 5 RECOMMENDATIONS (Lead LNU: Marcelo MILRAD)

Link to [EC Experts Report](#) and [Presentation on EC Experts 5 main Recommendations](#)

The EC's 5 main Recommendations were reviewed and discussed in detail.

Action/To Do:

- The following “Leads” for each Recommendation were preliminarily suggested to: follow up, update regularly at OMT meetings, and formally report in P2 reporting:
 - Recommendation 1: Proposed Leads OU & TCD, re policy parts - with input from all Partners
 - Recommendation 2: WP4 (Lead: LNU and input from other partners in WP4) & WP8 (OU)
 - Recommendation 3: WP7 (TCD) (& possibly WP2 - NTNU)
 - Recommendation 4: WP8 (OU)
 - Recommendation 5: WP8 (OU)

11.45-12.15:

WP1: PROJECT MANAGEMENT (Lead LNU: Shamim PATEL)

Link to WP1 presentation [here](#)

SP provided information on the Interim Payments made in early July 2024. The EC has been informed of Partner budget adjustments (for AWS, Ethics Advisor and the transfers to SIMPLE for their work on the Platform, etc.). These adjustments need to be put through in the respective Partner budget direct cost categories before the internal M27 reporting (December 2024).

Note: None of the budget related transfers require an amendment. This has been confirmed with our PO.

Advice on reporting for P2 was provided. For example all partners should review and aim to report some PMs in WPs where originally budgeted. Partners should also be prepared to report on deviations where their average actual PM rate differentiates materially from the budgeted PM rate at project start. (SP will advise check nearer the time on what % deviation is considered “material”.)

All deliverables due at M24 and M25 have been submitted on time, and milestones achieved. Partners were reminded to expect rejection notifications each time a deliverable is submitted with the same “Title” (as previously submitted) but a different version. This is due to technical glitches in the EC Portal, i.e., the first approved version has to be rejected by the PO in the Portal to create space for a later version to be uploaded.

Action/To Do:

- SP to contact all Partners to confirm which direct cost budget categories, adjustments for transfers need to be amended for: This for M27 internal reporting and P2 Final EC reporting.

12.15-12.45:

WP9: ETHICS (Lead TCD: Jake BYRNE)

Link to presentation [here](#)

JB went through the information in the linked presentation above.

Actions/To Dos:

- **Each partner** to follow up and make sure [ethics approval documents have been uploaded to Drive](#). (Thanks to those who have already uploaded them).
- **EAB:** Do the voice and camera data get stored/transmitted and how is it processed?

12.45-14.00:

LUNCH BREAK / BUFFER

14.00-15.15:

WP8: DISSEMINATION AND IMPACT ACTIVITIES (Lead OU: Sagun SHRESHA)

Link to presentation [here](#)

SS updated on the progress of the Horizon Booster application. The OU team has received the Portfolio of Research and Innovation Results which helped with the identification and creation of the portfolio of R&I project results.

10 conference and journal papers have been published and 36 presentations made at different conferences and events. The website had 7 864 views as at 26 September, 2024. 52 posts have been made on Exten(DT)² Twitter account. 32 deliverables have been uploaded and 4 newsletters have been published on the project website.

There was a discussion on whether the consortium has developed enough activities for policy stakeholders' engagement in research and impact activities. Possible strategies to engage or reach out to policy stakeholders were discussed. Marcelo, for example, suggested the publication of a joint newsletter (a special issue) with sister project partners to help disseminate both common and distinct research impacts of different policies that share some commonalities, lessons learnt etc., to policy stakeholders.

Development of a policy paper close to the completion of the project was also briefly discussed.

SS mentioned the possibility of organising an online event in November with all teachers who worked with the project to share experiences from implementation.

Action/To Dos:

- All partners to update dissemination activities here: https://docs.google.com/spreadsheets/d/1dY063q-GuIfvVW_eiUMBj-8q0bLWCXnlEecJgtqyY_U/edit.
- All partners to update the roadmap of publication is here: <https://docs.google.com/document/d/1a8eOpdMNTXBlxsRbRx2JRbQKVLNU0Yj1PxRFO4xqHpQ/edit>.
- All partners to update list of networks of teacher and policy stakeholders in each country that they would like to approach on this google sheet: https://docs.google.com/spreadsheets/d/1hUiw26FAHhM_v4K7LpqAAi527VsSJ8JkkgS-41-f73E/edit?gid=0#gid=0.
- All partners to encourage teachers in Year 3 to use activity plan on nQuire so that teachers across the world can benefit from this public repository: <https://nquire.org.uk/mission/extendt2-activity-plan-for-teachers/data>.

15.15-16.00:

SAB SEPARATE MEETING (Lead NKUA: Chronis KNYIGOS with Marcelo MILRAD - LNU, Manolis MAVRIKIS - UCL and Brendan TANGNEY - TCD)

15.15-16.00:

TEA/COFFEE BREAK + CONT. OF DISCUSSIONS – *for those not attending the SAB meeting*

16.00-16.15:

FEEDBACK FROM SAB MEETING Lead NKUA: Chronis KNYIGOS)

Exploitation and impact opportunities were further discussed. This included involvement of industries/companies, policy-makers, other actors, and sister projects, at National, European and International level. Also discussed were which events (e.g., the annual Leornovate Innovation Summit, which attracts >400 persons annually) were likely to be most effective in the final year of the project.

16.15-16.30:

NEXT 6-MONTHLY PHYSICAL MEETING AND AOB (Lead LNU: Marcelo MILRAD)

Note: These points are minuted at the end of the second day as MM, due to other commitments, would be unable to attend the final part of the meeting, the next day. Some points were also discussed earlier in connection with other agenda points.

A possible 1-3 month “no-cost” extension to the project was discussed. This given the tight schedule in Year 3 and different summer holiday periods between countries which is likely to affect final reporting etc. A valid exceptional reason should be presented to the EC if this is requested from the consortium.

Funding opportunities after the project-end was discussed.

After discussion it was agreed that the best dates to hold the next 6-monthly meeting would be **19-21 March 2025**. These dates unfortunately are difficult for NTNU, who initially proposed to hold the next physical meeting. NKUA therefore kindly offered to host the meeting in Athens.

Actions/To Dos:

- All to preliminarily block 19-21 March 2025 for the next physical meeting, subject to formal confirmation by NKUA.
- NKUA to confirm dates asap, preferably at the next OMT meeting in October.
- LNU to contact partners to check whether they are in favour of a no-cost 1-3 month extension, and if they have sufficient budget for such.
- LNU to contact Project Officer to check possibility from EC side, re:
 - a) Potential “no-cost” extension.
 - b) Funding opportunities after project end to continue work and activities around Exten.(D.T)².
 - c) Relevent event(s) to present our policy recommendations, potentially with our sister porojects.

16.30-16.45:

SUMMING UP/END OF DAY 2

17.30: WALK THROUGH TRINITY COLLEGE AND OLD DUBLIN TOWN FOLLOWED BY WORKING DINNER AT CORFU GREEK RESTAURANT TO CONTINUE DISCUSSIONS



Day 3: Wednesday 2 October 2024

09.00-11.00:

INTERDEPENDENCIES OF WP3-WP5, WP4 & WP7 & DETAILED ACTION PLAN FOR YEAR 3 (Lead: NKUA: Chronis KNYIGOS/Christina GKREKA)

Link to presentation [here](#)

Following discussions in this session:

Important Actions and To Dos can be found in [this Gantt chart](#).

In summary Year 3 includes the following important milestones:

- WP5 - **WP5 1-1 meetings** with WP7, WP3, WP4 (early September) -- **Done**
- WP5 - **Adaptations to the activity plan template** - ready by 15/10
- WP4 - **Technologies**
 - Define the links for each one of the three tiers- ready by 15/11
 - Supporting material for new tech (dashboard)
- WP7 - New **evaluation** toolkit → ready by 31/12
- WP3 - **Training & Co-design** with teachers
 - For those who use the existing tech and material (1st tier) - 1/10-31/12
 - For those who use new tech (dashboard, LA) (2nd and 3rd tier) - 16/11-31/12
 - Deliver the activity plans to NKUA by 15/01/25
- WP5 - **School interventions**
 - 01/01/25 – 15/05/25, Deliverable 5.3 on school interventions 30/06
- WP6 - **Professional Development** - 01/01-15/05
- WP5 - **Task 5.4** -Usability testing of ALA - separate studies (SIMPLE, NKUA, LNU and other volunteers) - 16/11 – 15/05

11.00-12.00:

TCD SITE-VISIT (BRIDGE 21)

[CodePlus programme](#): Focus on Coding for Girls at post-primary level.

12.00-13.30:

FORMAL CLOSE OF MEETING FOLLOWED BY LUNCH / CONT. OF DISCUSSIONS