

Exten $\left[\begin{array}{c} \text{DT} \\ \text{DT} \end{array} \right]^2$

OMT Meeting: 9 December 2022
WP2 - WP8 Updates

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

- Bi-weekly meetings for updates and feedback (all partners invited) last one on 16th of December → we shared for feedback: working table of contents for the deliverable, data extraction and analysis plan, preliminary results.
- Relevant literature is collected (added literature from the partners who shared)
- Next steps: Extracting the data from the papers, adapting the results and the table of contents accordingly, writing the deliverable (the main writing of the deliverable happens in January, share the first full draft by 31st of January)

WP3: Updates 10 Dec 2022 – 13 Jan 2023

Update:

- met with WP leaders: discussed a proposed structure of co-design workshops with teachers
- based on feedback, the structure has been revised:
<https://docs.google.com/document/d/1dGxX2XDkqzFyKISflfpwhOiH0XouCUOd2Tw-Twc5I9o/edit>
- **Action - All:** comment on the co-design structure above
- Support material for 3 games and nQuire prepared - **Action:** review?

Next steps:

- individual communication with interested teachers and define how to work together to co-design activity plans
- produce a version of the activity plan on nQuire
- upload support material to project website

Work in progress related to WP 4 and its connections to ethical issues, January 2023.

Task 4.1 Extend the nQuire platform

- Deciding on creating an Nquire version for the project with no age restrictions and other safety barriers of the current version
- [Scenarios of use \(teacher & student scenarios\)](#) - mockups

Task 4.2 - Extend ChoiCo and SorBET game applications with AR components

SorBET application

- Interface update <http://etl.ppp.uoa.gr/sorbet/> (last update on 25/10)
- Development of a first version of SorBET application with hand/gesture recognition

ChoiCo application

- Develop an update version that is responsive in mobile devices (using bootstrap 5.0.) <http://etl.ppp.uoa.gr/choico/> (last update on 03/11)
- Research on libraries to be used for extending ChoiCo with GeoLocation (google Maps API needs payment)

Task 4.4. Extend learning tools to capture and generate data for analysis

- Extension of ChoiCo and MaLT2 tools to capture and send events and data to the smILE platform

Task 4.5 - Development of an Authorable Learning Analytics and Adaptive Feedback component for DT constructionist activities

- First version of smILE platform is ready

Task 4.6 (completed):

Gathered initial functional requirements ¹for customizable LA Dashboards for students, teachers, and researchers.

Defined initial features, and customizable widgets for students' and teachers' dashboard.

¹

<https://trello.com/invite/b/7AsPhjuA/ATTI362fbc7093d517da04b5baad9e87d2536C695DB1/kanban-template>

(PLANNED):

Implementation of R3,R7,R8,R9,R11 requirements as described above

Designed several initial features for teachers and students

Carry out workshops with teachers to refine the requirements and design of the LA dashboard for teachers and students

Extend MaLT2 with 3D printing features (Task 4.3)

Extend ChoiCo with geolocation features (Task 4.2)

Finalize sorBET AR version (Task 4.2)

Extend sorBET with Learning Analytics (Task 4.4)

Integrate the 3 tools into the smILE platform (Task 4.5)

We will need some input on the following points which are related to the development and evaluation of the LA visualisation dashboard. Some ethical concerns are described below:

1) Ethical issues that would be common in any project (e.g. informed consent and data storage which we should all know how to deal with through our training as researchers and GDPR) related to LA visualization dashboard? the LA data provided for visualisation is already covered by Simple, we will only focus on visualisations/charts for students, teachers, and researchers.

Every school that processes data has to have a data controller. This data controller in the school that adopts educational technologies processing data needs to have lawful grounds to process any personal data. Schools in the public sector mainly use the lawful ground of performing a task in the public interest or exercise of official authority.

2) Project-specific ethical issues (e.g. such as how data from the LA system might be used to inform teachers about students) related to LA visualization dashboard?

Since this is a research project involving children the workshops involving students and teachers require ethical approval from the Swedish Ethical Review Authority.

Teachers and students access to data from LA system that will be stored in the dashboard. Teachers will have access to the user data to monitor student progress and assess them. Even if the data in the dashboard will refer to students with codenames, their teacher will know which codename belongs to which student. Thus, students must be informed of that access before using the tools. Right now, students don't have access to the dashboard and the stored data. However, if we decide to give them access in the future, we have to decide how to handle ethical issues of accessing user data of their classmates.

3) Emerging issues (e.g. the need for retrospective ethical approval). I would also like you to include any country-specific regulations that might be relevant.

In Sweden, do we need ethical approval to do workshops with teachers for our LA visualization dashboard?

Yes, see the answer for point 2. The Swedish ethical review authority does not grant approval retrospectively.

WP5 – School Interventions

Y1 target – **100** students - 11-18 yrs old - implementation: March - June

- Dec 14^h WP5 meeting: **All countries** need to do pilot interventions



Reasons (shared via email):

- Partners will develop the necessary experience and background for Y2 (full studies with large number of students)
- Valuable feedback for designing Y2 tools and resources
- Mentioned in the Description of Action (page 11, **Cycle 1 description**)

[School Interventions Plan Excel](#) to keep track of all interventions

- Targets- Plan Tab: Targeted students & estimated students' distribution per partner per year
 - **Please fill in your info for Y1 by 31 January!!**

WP5 – Updates

Task 5.1.

- Meeting on Activity Plan Template (Dec 14th). Minutes [HERE](#). **Raised issues:**
 - Design Thinking and Emerging Technologies need to be highlighted in the template
 - Activity plan differs from a simple Lesson Plan
 - 3 functions of Activity Plan: a) a tool for designing and reflecting on DT activities (Part of PD) b) a tool for organizing & implementing sth in the classroom c) a tool for the consortium to organize and present the activities of the project (provides also metadata)
 - Use of technologies must be central in the ExtenDT2 DT projects with students (not in general) - Students use them to create the final product
 - Need to clarify to teachers how the project technologies bring added value
 - Duration of the interventions & context (in - out of school)
 - Ages: 11-18
- **1st version of Activity Plan Template** (after refinement) [HERE](#)

Task 5.2

- Dec 14^h WP5 meeting: **All countries** need to do pilot intervention
- Greece: 4 or 5 Teachers ~60 students. in-person teacher meeting next weeks
- OU: ~20 students 1 or 2 teachers

To Dos:

- **NKUA can organize separate small meetings with 1-2 partners for discussing the school interventions (Activity Plan, Use of Technologies etc.) in January**
- **March - June: Y1 interventions**

WP6: Professional Development

- Literature on designing the PD activities
- Looking for examples of PD activities involving several days/afternoons and their organisation/communication
- Online meeting: 23 -01-2023, 11.00-12.00 CET

WP7 Updates

Task 7.1

- Collating preliminary Research Qs from WPs in underway
- Collating Ethics overview from WPs
 - Ethics Board will meet in February
 - **To Do:** WPs please send on any potential ethical implications of the work that will conducted (thanks to those who have already sent it to WP7)
- Draft evaluation plan for WP3 Co-Design process
 - Ethics will be progressed locally via OU at this stage
 - Perhaps other WPs can use this as a template for their immediate work

Task 7.2

- Systematic Literature Reviews are progressing
 - Design Thinking
 - 21st Century Skills
 - Digital Competencies

WP8: 10 Dec 2022 – 13 Jan 2023

Updates:

- Dissemination deliverable M6: a first version has been drafted
- Meeting to define how each partner can support dissemination activities and clarify some issues with the deliverable.
- Slidedeck with all partner and funder logos (updated) - see WP8 folder

Next steps:

- Buy copyright free images and replace current ones on the project website
- Produce a final draft of Dissemination deliverable by end of Jan for review

Other:

- Issuing a UK visa for the researcher (by end of Jan)
- **Action ALL:** Add your dissemination activities here:
https://docs.google.com/spreadsheets/d/1dY063q-GulfrVW_eiUMBj-8q0bLWCXnlEecJgtqyY_U/edit