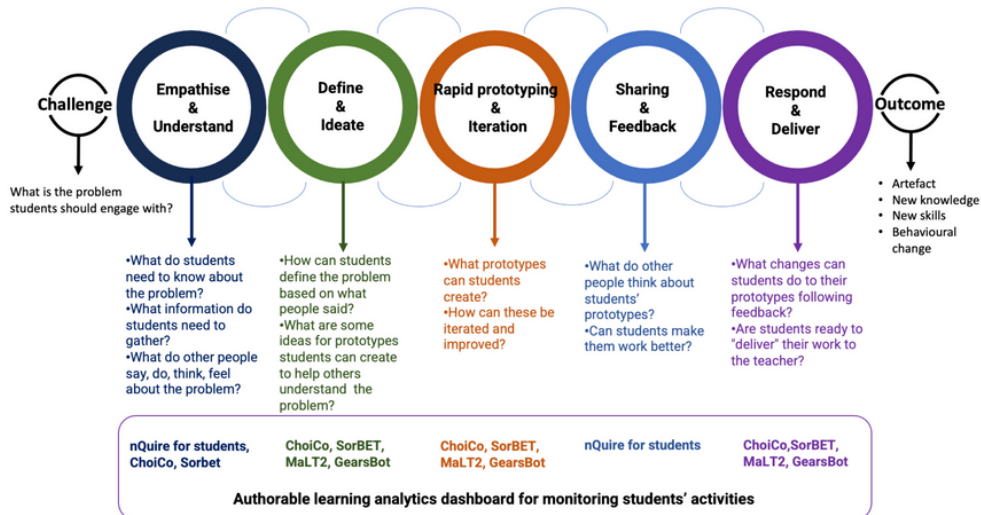# Exten DT²

Extending Design Thinking with Emerging Digital Technologies

A Research & Development Project
funded by Horizon Europe and Innovate UK

Linnæus University Sweden

Guided by the Digital Design Thinking Model
that enables sustainable forms of teaching and learning

Challenge

What is the problem students should engage with?

Empathise & Understand

•What do students need to know about the problem?
•What information do students need to gather?
•What do other people say, do, think, feel about the problem?

nQuire for students, ChoiCo, Sorbet

Define & Ideate

•How can students define the problem based on what people said?
•What are some ideas for prototypes students can create to help others understand the problem?

ChoiCo, SorBET, MaLT2, GearsBot

Rapid prototyping & Iteration

•What prototypes can students create?
•How can these be iterated and improved?

ChoiCo, SorBET, MaLT2, GearsBot

Sharing & Feedback

•What do other people think about students' prototypes?
•Can students make them work better?

nQuire for students

Respond & Deliver

•What changes can students do to their prototypes following feedback?
•Are students ready to "deliver" their work to the teacher?

ChoiCo, SorBET, MaLT2, GearsBot

Outcome

• Artefact
• New knowledge
• New skills
• Behavioural change

Authorable learning analytics dashboard for monitoring students' activities

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Deployed at scale across schools in six countries: Greece, Norway, Belgium, Sweden, UK and Ireland

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Utilises augmented reality, 3D printing, virtual robotics, authorable learning analytics
through educational tools created by project partners:

MaLT2
A tool to create 2D and 3D animated models

ChoiCo
A simulation game about the consequences of the choices we make

SorBET
A sorting game

nQuire for students
A survey tool to collect data

GearsBot
A virtual robotics tool

and enables automated and adaptable learner support within the Exten(DT)² platform

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