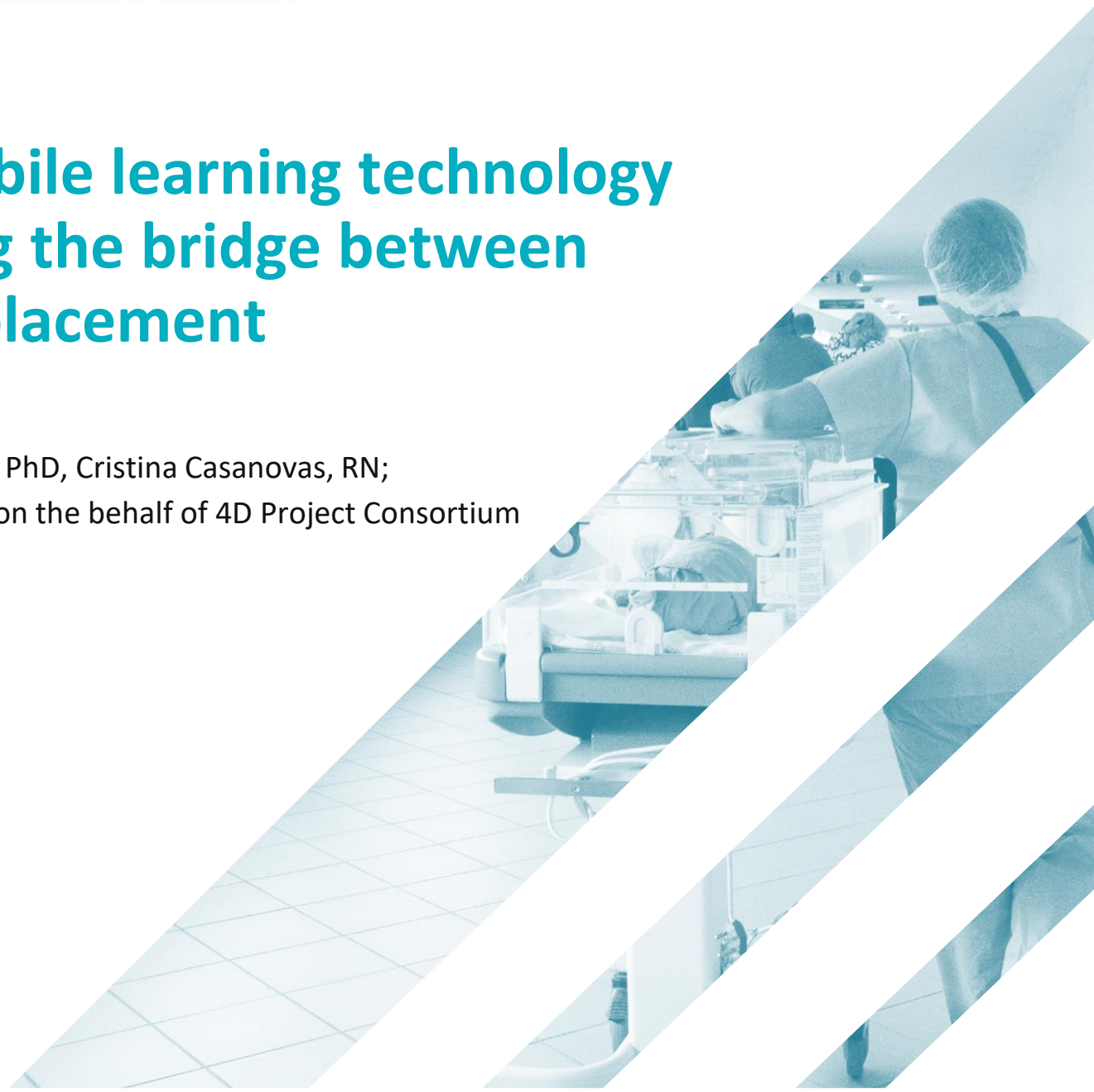
Co-creating the 4DPApp, a mobile learning technology in practice placement: Building the bridge between nursing academy and clinical placement

Carlos Martínez-Gaitero, RN, PhD; Prof. Beata Dobrowolska; RN, PhD, Cristina Casanovas, RN;
Ariadna Huertas RN, PhD; Prof. Esther Cabrera RN PhD, FEANS, on the behalf of 4D Project Consortium



Digitalization in learning practice placement

Co-funded by the European Union

TecnoCampus · Universitat Pompeu Fabra Barcelona · Medical University of Lublin · IGTP · Kubify Learning Toolbox for ePosters · TU Graz · University of Twente. · Universität Duisburg Essen

The Need - The practice placements management

The need, the scenario, the challenge and the 4D project

The Practicum in data - The example of Tecnocampus / Nursing Degree (Academic year 2022-2023)

832 assignments

10 practice periods

173k hours of practice

1667 clinical tutors

30 academic tutors

349 students

173 centers or units

84 institutions

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The scenario, the challenge and the 4D Project

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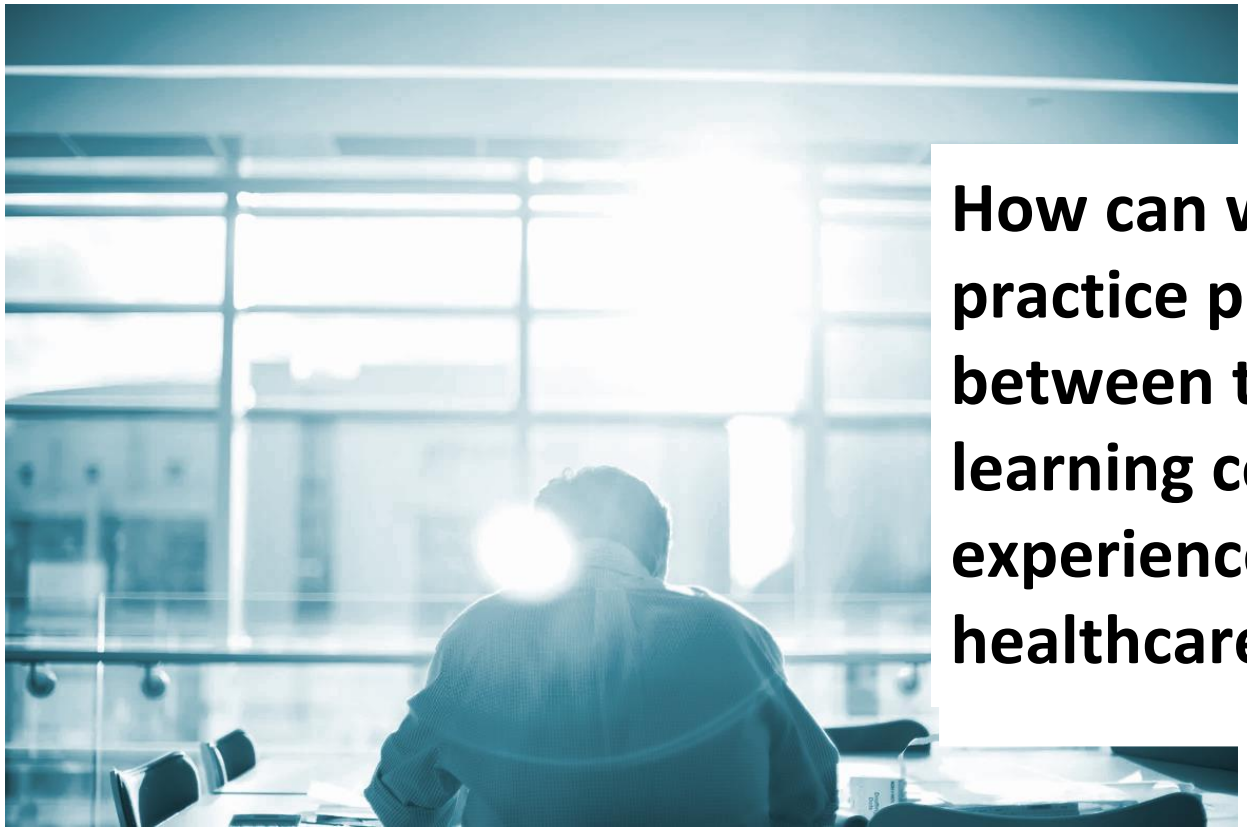
The Challenge

The need, the scenario, **the challenge** and the 4D project



How can we introduce mobile technology in practice placements, creating a bridge between the different actors involved in learning contexts to foster the best experience in practice-based learning in healthcare settings?

4D in the Digitalization of Learning in Practice Placement

The need, the scenario, the challenge and **the 4D project**

European Partnership

Erasmus+ project, co-funded by the European Union

The 4D project aims at not just introducing mobile technology but doing so in a manner that is inclusive, user-centered, and reflective of the core values and needs of all stakeholders involved

TecnoCampus — Affiliated center — Universitat Pompeu Fabra Barcelona

D1 - Determinants

(1) to determine the key factors and the key elements to introduce mobile technology in practice placements.

Medical University of Lublin · IGTP

D2 - Design

(2) to co-design a mobile application for its successful adoption reflecting users' core values and needs

TU Graz · University of Twente.

D3 - Digitalization

(3) to pilot the use of mobile learning in practice placements in three European countries.

Kubify — Learning Toolbox for ePosters

Universität Duisburg Essen

D4 - Dissemination

(5) to exchange and support the practice placement digitalisation around Europe.

The 2nd D. The co-design and co-creation process

The need, the scenario, the challenge and **the 4D project**

Affiliated center
TecnoCampus
upf. Universitat Pompeu Fabra Barcelona

European Partnership

Erasmus+ project, co-funded by the European Union

Aim: To introduce mobile technology in practice placements, creating a bridge between the different actors involved in learning contexts to foster the best experience.

D2 - Design

(2) to co-design a mobile application for its successful adoption reflecting users' core values and needs,

TU Graz
UNIVERSITY OF TWENTE.

Methodology: Design-based research initiative that aims to develop mobile learning applications for practice placements in three European countries (Poland, Germany and Spain).

This co-design process lasted from June 2022 to May 2023 and comprised 5 design methods.

Results and demo presentation

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Results and demo presentation of the 4DPApp

A prototype of the mobile learning technology for practice placement was created during the design phase.

The 4DPApp was carefully designed to meet the specific needs and offers a user-friendly interface that improves communication and interaction among students and mentors.

The 4DPApp facilitates information exchange related to the 3 key elements in practice placement: (1) Onboarding and the welcoming day, (2) Feedback and reflective practice, and (3) Learning goals and student's evaluation.

Onboarding and welcoming day

Feedback and reflective practice

Learning goals and evaluation

Conclusions and Next steps

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Conclusions

Teachers and clinical nurses continually face dynamic challenges in the field of clinical training. It is imperative to bring clinical institutions and HEIs (Higher Education Institutions) closer together.

The 4DPApp is a transformative tool that can help to solve this gap.

The introduction of a digital tool can help nursing students and clinical mentors in effective managing the learning process, promoting the integration of clinical and academic aspects of healthcare education.

Finally, the 4D project will help in the introduction of mobile technologies in practice placements in European Higher Education Institutions.