

SYMPAB - (16657) - EDUCATIONAL DESIGN RESEARCH FOR TEACHER PROFESSIONAL LEARNING

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Short Abstract

The overall aim of the Three Dimensions of Inquiry in Physics Education (3DIPhE) project was to enhance the understanding and use of inquiry approaches in the physics classroom as well as in physics teacher education. A challenge of the 3DIPhE project was to develop a suitable method to monitor and evaluate the impact that the project had on its participants over a three year duration. Given the complex nature of this various dimensions of this project, Educational Design Research (EDR) was selected and used to inform, structure and elicit learnings from all aspects of the 3DIPhE project. The design of the 3DIPhE EDR framework will be presented along with evidence of how it guided the overall project implementation. Guided by this EDR framework, project partners were able to systematically collect various types of data and use this data to write case studies to document their own and teachers' experiences of participating in in two iterations of a Professional Learning Community. This study will discuss the key learning as evidenced from the case studies developed by each of the project partner across four European countries (Belgium, Ireland, Poland and Slovakia) during each iteration.