0. About the DUAL.AI.TEACHer Playbook

Playbook Objectives

This playbook is aimed at teachers, school principals and university lecturers who wish to acquire the necessary knowledge about using Artificial Intelligence (AI) in schools and about changing their institutions for (better) AI use. AI in school and in teacher education could be used for a variety of purposes. With regard to teaching, we distinguish "teaching about AI" and "teaching with AI" to impart subject-specific knowledge.

The development of Artificial Intelligence is advancing at an extremely rapid pace, and its use is increasingly permeating our society, entering aspects of everyday life as well as education. This pervasiveness brings with it multiple and often interconnected implications, spanning ethical, social, economic, legal, and cultural dimensions, touching on issues such as data protection, fairness and non-discrimination, algorithmic transparency, technical safety, and accountability. Precisely because of the speed of this diffusion and the scale of its consequences, there is a growing need for shared guidelines, regulatory frameworks, and governance tools capable of steering technological development in a responsible and sustainable direction.

Playbook Structure

To address all these aspects, we have structured the handbook as follows:

- **Chapter 1** highlights the key aspects that are essential to understand in order to use AI in education.
- **Chapter 2** deals with teaching practice, providing a series of examples relating to various school subjects.
- **Chapter 3** describes the competence framework proposed as part of the DUAL.AI.TEACHer Project. All the examples provided in Chapter 2 have been linked to the competence model and the learning objectives derived from it.
- **Chapter 4** explains how to acquire the necessary qualifications to use AI in an educational context.
- **Chapter 5** is aimed at schools and universities wishing to systematically improve the AI skills of their current and future teachers and to integrate AI into everyday school life.

- **Chapter 6** contains a list of references, as well as a comprehensive glossary of specific terms relating to artificial intelligence used in the Playbook.

How to Navigate the Playbook

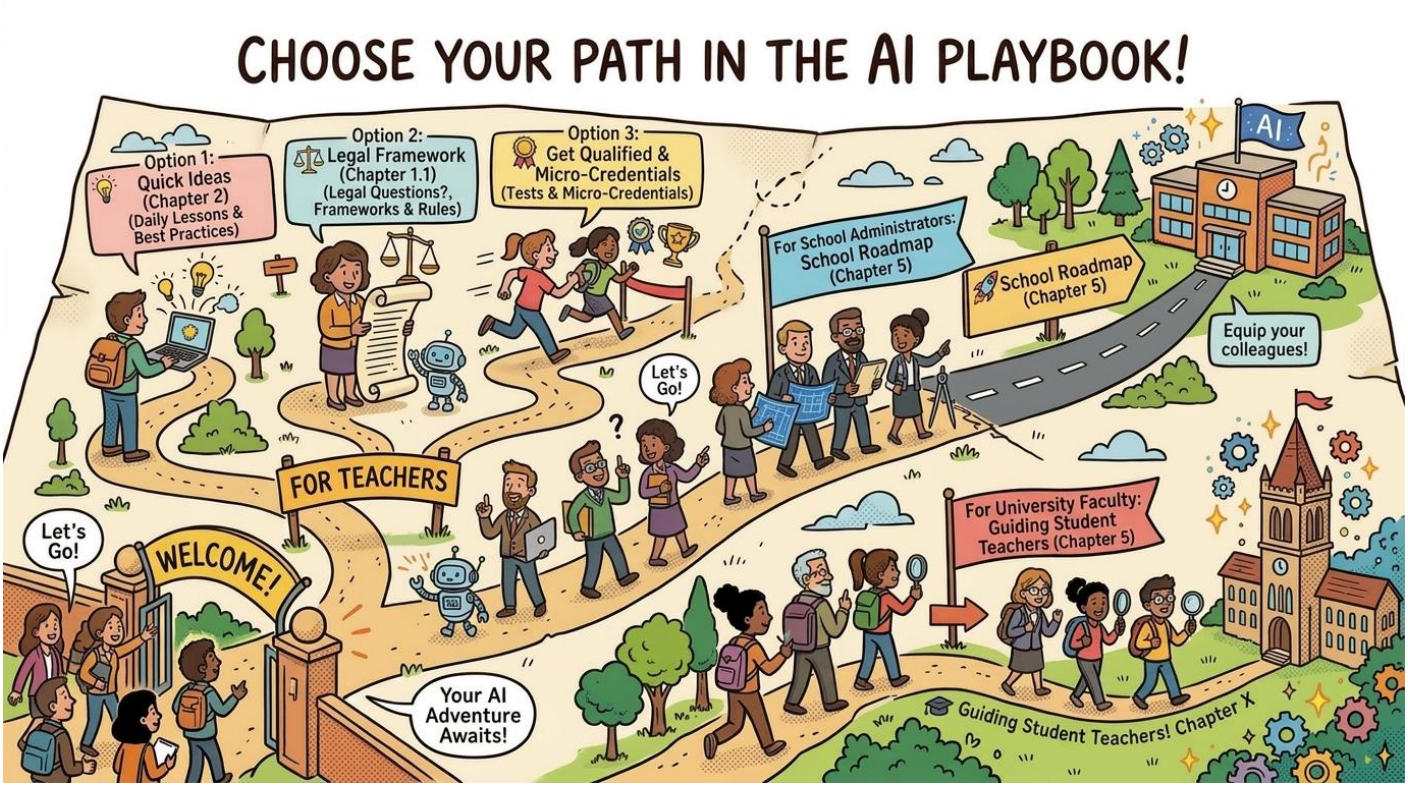


Fig. 1: "The pathways to expertise" (AI-generated image, Google Gemini)

For Teachers

There are different ways you can use the Playbook.

Option 1: You're looking for ideas for your next school day to teach students about AI or to use AI to teach subject-specific content.

In this case, go directly to Chapter 2, where we're continuously adding new best practices. We hope you'll find what you're looking for. If not, please email us so we can develop a new resource to address the gap you've identified.

Option 2: You want to learn about the legal framework governing the use of AI.

In this case, go to Chapter 1.1.

Option 3: You would like to gain the qualifications needed to teach about AI effectively and incorporate AI into your subject-specific instruction.

In this case, we invite you to take our initial test and then follow our qualification modules. By earning micro-credentials, you can pursue comprehensive professional development tailored to your expertise.

For School Administrators

Are you ready to set out with your school on an exciting journey to bring AI into your professional world? In Chapter 5, we chart a clear roadmap to guide you every step of the way. Our qualification programme empowers you to equip your colleagues for the adventure that lies ahead.

For University Faculty

AI is making its mark on teacher education, sometimes in bold strokes, sometimes in subtle ways. Viewing teacher education as a journey that begins at university and builds over time, Chapter 5 offers you a roadmap to inspire and support student teachers as they explore the evolving landscape of AI.

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