

Digital Resources in Education – a master program in b-Learning

Ana Loureiro | ana.loureiro@ese.ipsantarem.pt
Escola Superior de Educação | IPSantarém

Introduction

To be effective in the twenty-first century, citizens must carry functional and critical thinking skills related to **information, media and technology**. [P21, 2016]
The PNL2017-CTES aims to foster a national strategy for **raising literacy levels**, focusing on cultural, scientific and **digital literacy** for children, youth and adults.

Context

Need of empowerment of citizens through media and information literacy (MIL). [UNESCO, 2017]

What for?

- Promote equitable access to information and knowledge;
- Build inclusive societies.

Recent initiatives such as the **Digital Education Plan** [EC, 2018] helps understanding what can be done for a better living in the digital age:

- Through better use of digital technology for teaching and learning;
- By developing the digital competencies and skills needed to live and work in an era of digital transformation;
- Improving education through an analysis and forecast of more refined data.

Today's students are expected to have skills in:

- Critical Thinking; Creativity; Media Literacy; Communication; Information Literacy; Collaboration.

It is important for the school to be able to meet this challenge and for teaching staff to be digitally competent as defined by the **European Framework for the Digital Competence of Educators** [Redecker & Punie, 2017].

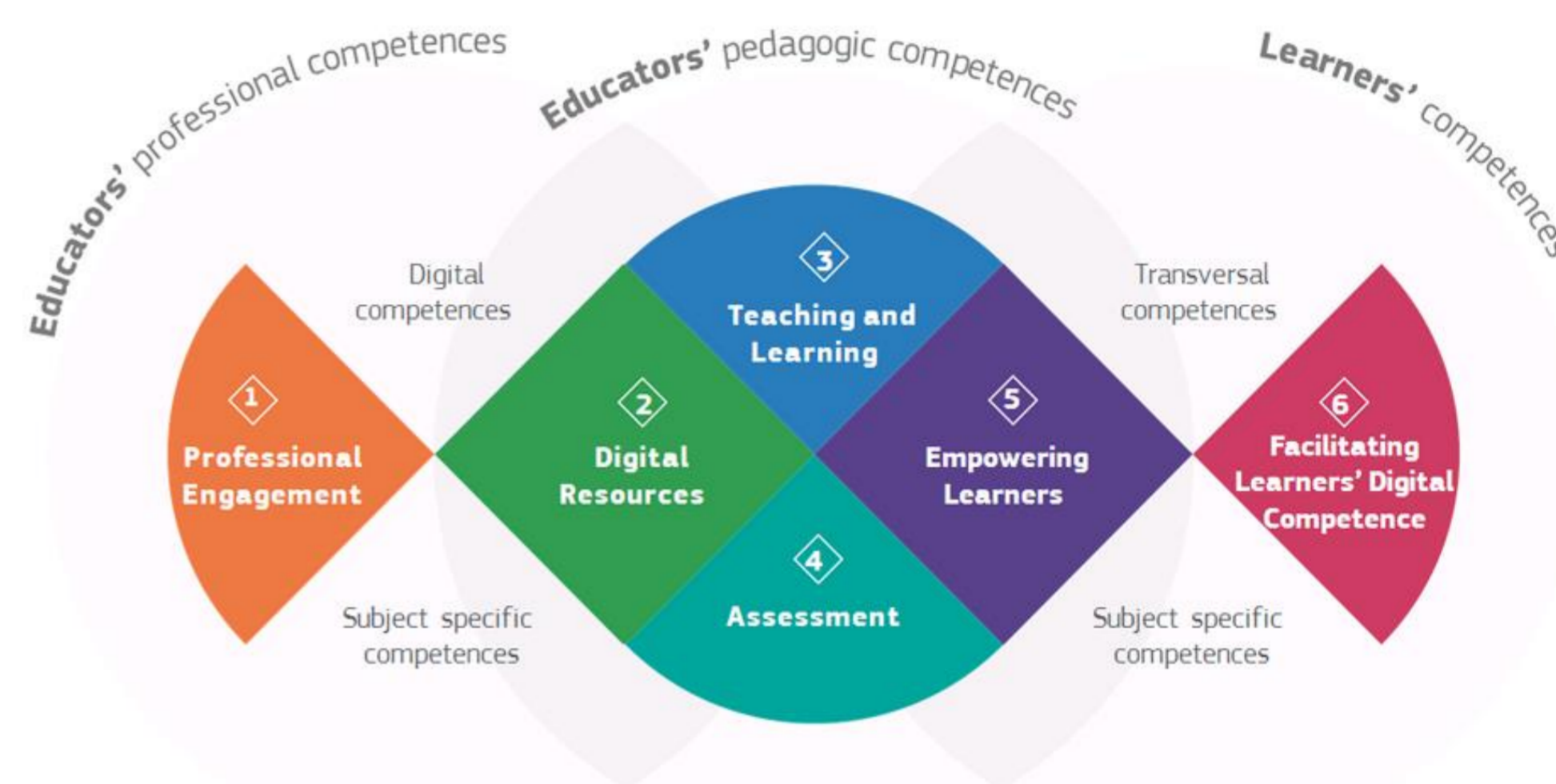


Image 1 – DigCompEdu details 22 competences organised in six Areas

HOW?

B-Learning Master Program in Digital Resources in Education @ Instituto Politécnico de Santarém – Escola Superior de Educação

- Combines an **online** approach and a **face-to-face** approach (with sessions **open** to the community).
- Promotes the development of skills in digital, information and scientific literacy.

It should be noted that the objective is not technical skills, but **how digital technologies can be used to enhance pedagogical innovation**.

Master Program in Digital Resources in Education (DRE)

Learning Objectives

- Analyze and understand the problems and challenges of the integration of Information and Communication Technologies (ICT);
- Select, evaluate and sustainably and creatively use Open Educational Resources (OER);
- Design OER capable of meeting the needs of the educational community;
- Plan and implement innovative and inclusive ICT strategies, methodologies and teaching practices;
- Prepare and integrate development projects and investigative practices for the construction of inclusive and digitally literate communities;
- Critically reflect on teaching and learning practices with a view to improving professional action;
- Recognize the importance of continuing and lifelong learning in the field of educational technology.

DRE – Notes from the 1st year

- Teachers and schools are the gateway to literate societies.
- The master program is intended to be a tool for training **teachers** of all levels of education in the **development of competences** (knowledge, skills and attitudes) in the field of **media and information literacy (MIL)**.
- Focusing on the **pedagogical approaches** needed to enable teachers to integrate these literacies into their classrooms.
- Sessions **open to the community** enabled the contact with peers and experts.

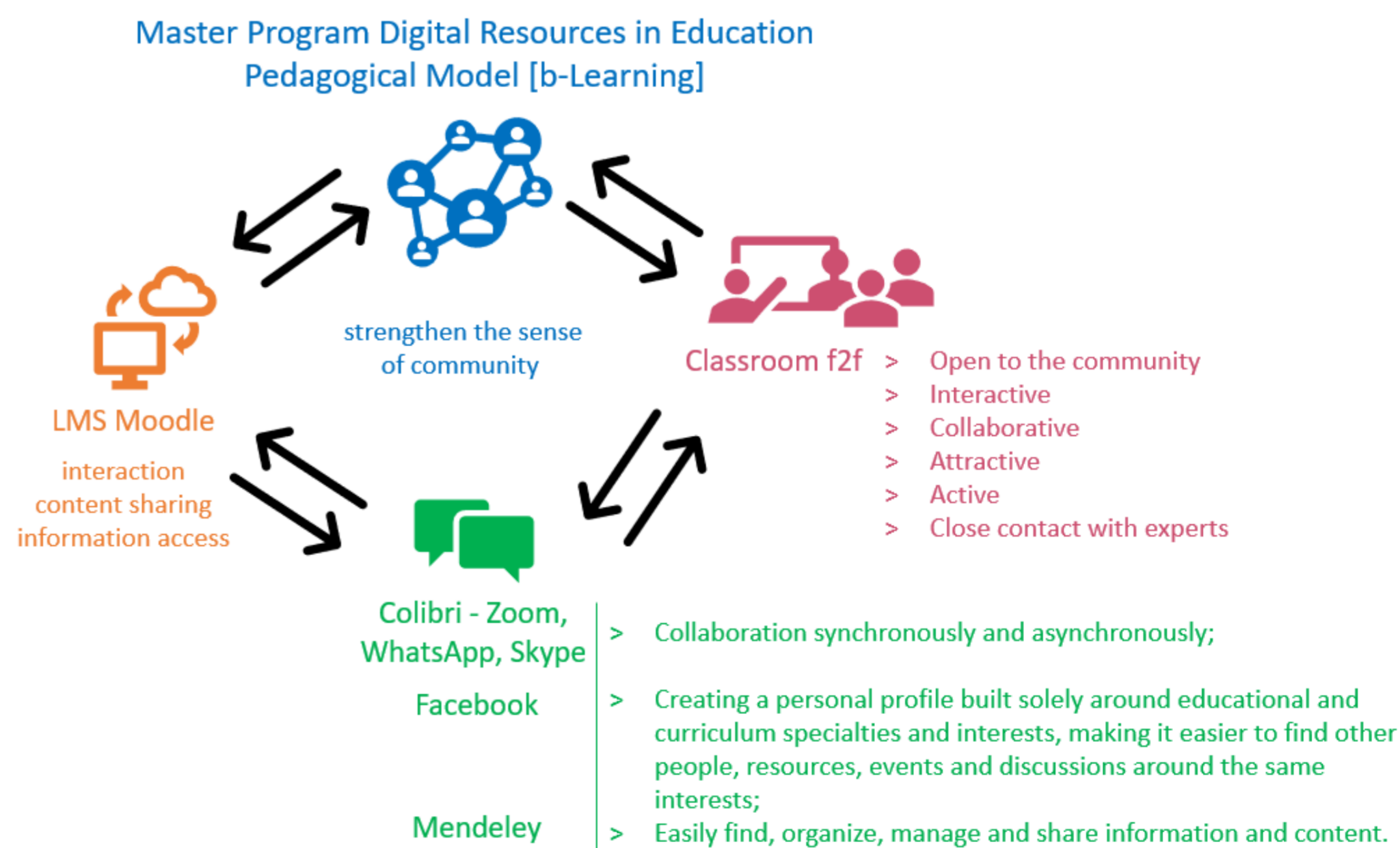


Image 2 – b-Learning Pedagogical Model, Master Program Digital Resources in Education

- UNESCO. (2017). Media and information literacy. Retrieved from: <http://www.unesco.org/new/en/communication-and-information/media-development/media-literacy/mil-as-composite-concept/>
- P21-Partnership for 21st century for learning (2016). Framework for 21st Century Learning. Retrieved from: http://www.p21.org/storage/documents/docs/P21_framework_0816.pdf
- Cordeiro, C. (2018). Plano Estratégico para a área da Ciência Tecnologia e Ensino Superior - PNL2027. Retrieved from: http://www.planonacionaldeleitura.gov.pt/data/quadro_estrategico_pnl_2027.pdf
- European Commission (2018). Digital Education Action Plan. Retrieved from: http://europa.eu/rapid/press-release_IP-18-102_en.htm
- Redecker, C. & Punie, Y. (2017). European framework for the digital competence of educators: DigCompEdu. DOI: 10.2760/159770.