

Competence for the new era of user- driven Digital Rehabilitation (DIRENE)

1.4.2021-31.3.2023



ΠΑΝΕΠΙΣΤΗΜΙΟ
ΔΥΤΙΚΗΣ ΑΤΤΙΚΗΣ
UNIVERSITY OF WEST ATTICA



build.well.being A
Digital Healthcare
Networking Event



Co-funded by the
Erasmus+ Programme
of the European Union





HS Gesundheit
BOCHUM



Universitat
de les Illes Balears

ifh
st. pölten

jamk



ΠΑΝΕΠΙΣΤΗΜΙΟ
ΔΥΤΙΚΗΣ ΑΤΤΙΚΗΣ
UNIVERSITY OF WEST ATTICA



Co-funded by the
Erasmus+ Programme
of the European Union



Objectives of the DIRENE project

- To increase the resilience of rehabilitation systems through the development of Digital Rehabilitation competences of teachers, students and working life professionals.
- The specific objectives of the project include:
 - 1) developing knowledge in digital rehabilitation for teachers, students and professionals for competence development in digital rehabilitation and,
 - 2) increasing learning opportunities in digital rehabilitation through theory and evidence-based practice.



Co-funded by the
Erasmus+ Programme
of the European Union



Digital Rehabilitation

Digital Rehabilitation (DR) is the **use of digital technologies** (by rehabilitation professionals or self-driven service users) **as part of the rehabilitation process** in its different phases (assessment, goal setting, intervention, reassessment, secondary prevention).

Digital Rehabilitation aims to **optimize functioning and reduce disability** of individuals in interaction with their environment.

Therefore, Digital Rehabilitation has a strong link with the **empowerment** of individuals and communities.

(Direne consortium adapted by Shoneye et al., 2020; WHO, 2022)



Co-funded by the
Erasmus+ Programme
of the European Union



Digital Rehabilitation

jamk | kuntoutus



Co-funded by the
Erasmus+ Programme
of the European Union

 **DIRENE** 
Competences for the new era of user-driven digital rehabilitation

Facilitators / Barriers for using Digital Rehabilitation

Facilitators

- WE LIVE IN A DIGITAL SOCIETY
- Common understanding of DR
- Awareness of DR
- Legal framework
- Getting technical support
- DR organized officially in workplace

Barriers

- **Need of digital competences**
- Digital divide (access, age...)
- New costs, resources
- Technical issues
- Lack of regulation



Co-funded by the
Erasmus+ Programme
of the European Union

Educate / train health care professionals!

- Knowledge about policies and legislation
- Ethics
- Creativity in developing content
- Technical problem-solving
- Communication skills



Co-funded by the
Erasmus+ Programme
of the European Union

Which content needs to be learned to achieve competences in Digital Rehabilitation?

- Adapting the health care process to different digital settings
- Adapted interaction between service provider and service user
- Adapted communication and ethical awareness
- Professional development / professional identity
- Provision of support and “pedagogical” guidance for service users



Co-funded by the
Erasmus+ Programme
of the European Union

How shall educators teach Digital Rehabilitation content and competences?

- Via theory, e.g., through addressing concerns
- Via practice, e.g., of the provision and use of technology
- Via digital technology, e.g., in mobile learning settings



Co-funded by the
Erasmus+ Programme
of the European Union

How should learning with mobile aspects be designed?

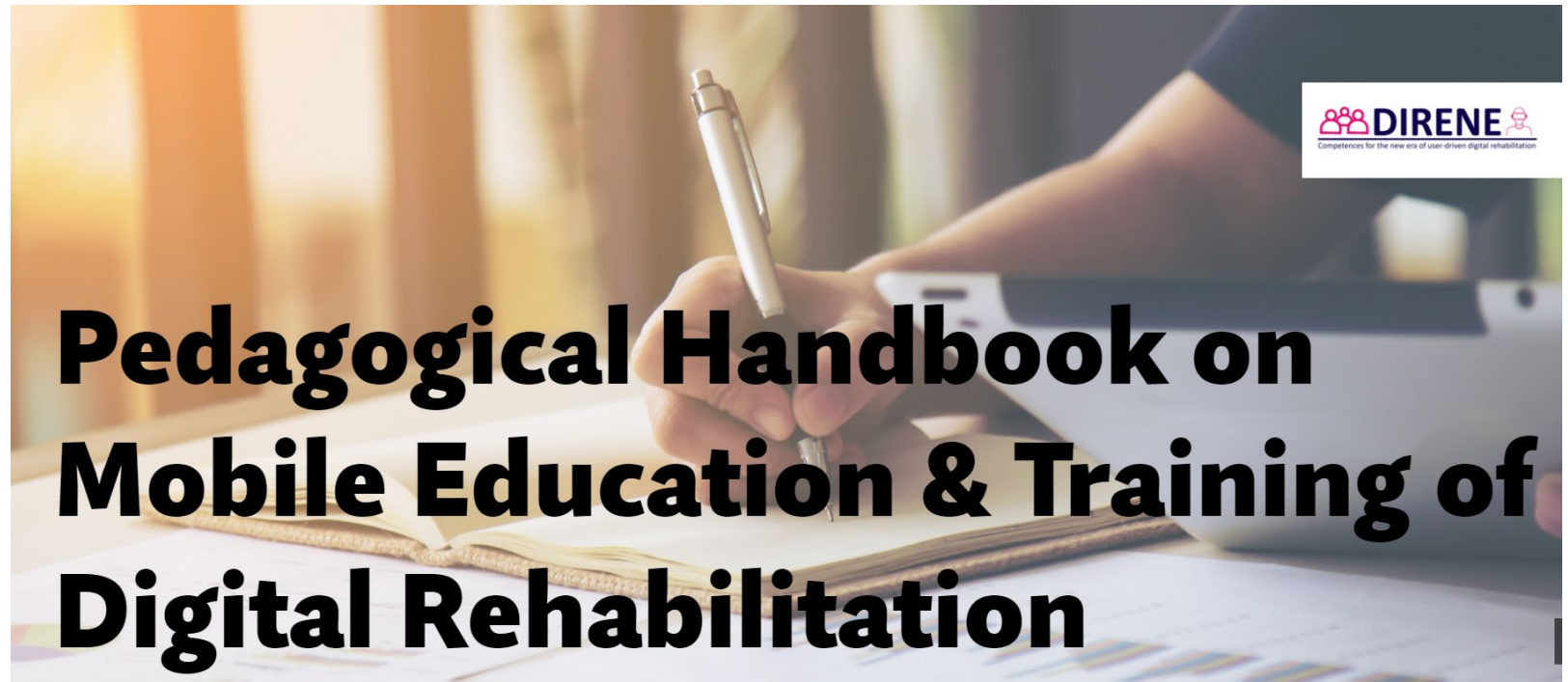
- Usability and learner-centred content
- Availability of learning materials in various forms
- Smooth transition from offline to online



Co-funded by the
Erasmus+ Programme
of the European Union

Handbook for teachers

- Use-case “stories”
- Context
- Competences
- Content
- Methods
- Tools
- Reflection



Co-funded by the
Erasmus+ Programme
of the European Union



Openly available DIRENE-Outputs

- **Discussion papers:** Discovery of megatrends and best practices for the use of new and emerging technologies in rehabilitation
- **Framework:** Understanding knowledge gaps and learning needs related to digital rehabilitation
- <https://www.jamk.fi/en/project/direne/direne-materials>
- **Handbook:** Mobile Education & Training of Digital Rehabilitation Competencies
- <https://www.jamk.fi/en/project/direne/handbook>
- **2023: Study module** in Digital Rehabilitation (10 ECTS, starting with a 2 ECTS MOOC)



Co-funded by the
Erasmus+ Programme
of the European Union



Thank you!



@DireneEu



@direne.erasmus

More information about Direne:

www.jamk.fi/direne

Kaisa Lällä

kaisa.lalla@jamk.fi

+358 40 097 6760



build.well.being A
Digital Healthcare
Networking Event

jamk