
Plan Overview

A Data Management Plan created using DMPTuuli

Title: RADIC - Rehabilitation for all through digital innovation and new competencies

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Project abstract:

The overall objective of the project is to contribute towards increased capacity of higher education to support and scale digital transformation in Eastern Africa, with the aim to ensure rehabilitation services for all. An estimated 2.4 billion people globally are currently living with health conditions that benefit from rehabilitation. The digital transformation provides an opportunity to have more accessible and personalized model and system of rehabilitation in Eastern Africa. Project specific objectives are: 1) Strengthened role of higher education in the promotion of rehabilitation in the society, including innovation and business ecosystems, 2) Enhanced pedagogical opportunities and increased quality of education in Eastern Africa in digital rehabilitation for the social, health and education sectors. Project reaches the objectives through capacity building and development between the higher education and the working life, promoting on-going cooperation between the project programme and partner countries. Project answers to the need to strategically leverage digital tools, technologies, and services in rehabilitation through educational development. Primary target groups of the project include teachers and professionals, students, and the working life. Other target groups include various professionals in social and health care, the business sector, rehabilitation clients, and the society at large. Persons benefiting directly from the project include 950 persons. Through project activities, the outputs to be established are Eastern Africa digital rehabilitation Innovation Community (IC), enhancing the pedagogical competence/skills and increased knowledge of teachers and students related to digital rehabilitation, renewing partner institutions' curricula on multidisciplinary digital rehabilitation for working life and increasing the awareness and understanding of digital rehabilitation among key stakeholders in Eastern Africa.

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RADIC - Rehabilitation for all through digital innovation and new competencies

Summary

Dataset reference and name; origin and expected size of the data generated/collected; data types and formats (several datasets may be included into a single DMP).

Data collected in this project:

- quantitative and qualitative research data
 - questionnaire results .xlsx, interview litterations .docx, video .mp4, sound files .mp3
- feedback questionnaires, using Webropol
 - results .xlsx
- Approximated size ~100 GB

1. Making data findable

Dataset description: metadata, persistent and unique identifiers e.g., DOI

All data collected in the project is for the use of improvement of the project related activities. The data includes feedback and needs assessment reports from the stakeholders in the East-Africa, evaluation data of the digital rehabilitation competences of the learners and teachers, and also of digital teaching competences of the teachers involved in the project.

The data will be uploaded into Fairdata-service (including data storage system IDA, <https://www.fairdata.fi/en/ida/>) and the metadata will be created by using Qvain-data description service (<https://qvain.fairdata.fi/>). The metadata and parts of the data will be published in the Finnish National Research Information Hub (www.research.fi) and the open access policy will be decided per dataset (depending on the anonymity of the data). The data will receive a DOI-identifier.

2. Making data openly accessible

Which data will be made openly available and if some datasets remain closed, the reasons for not giving access; where the data and associated metadata, documentation and code are deposited (repository?); how the data can be accessed (are relevant software tools/methods provided)?

Some of the data might be made openly available, but the decision is made per dataset. In the project, we are following the EU regulations for data protection and according to this, we have produced a data protection statement.

During the project, the data collected will be stored in project coordinator's Teams/OneDrive and in the local network platform M: and the data including personal data or identifications is accessible for only the people who are responsible of interpreting the data. When viable, no identifications will be collected. If the data doesn't include personal data/identifications, it is openly accessible to anyone working in the project.

After the project the project the data will be stored in the IDA repository. All the data in the repository will have open metadata information and parts of the data will be openly accessible. The metadata and the data can be accessed through research.fi -website.

All the openly accessible data in the project will be licensed under CC_by_SA4.0.

3. Making data interoperable

Which standard or field-specific data and metadata vocabularies and methods will be used?

The openly accessible data will be published using common formats, including .docx and .xlsx -formats and the data will thus be widely interoperable. The metadata will be created with the Qvain-metadata service and it will provide standard metadata description of the data.

4. Increase data re-use

What data will remain re-usable and for how long, is embargo foreseen; how the data is licensed; data quality assurance procedures?

Re-usability of the data:

- All publicly available data, which will be decided per dataset, will be licensed by a creative commons license CC_by_SA4.0.
- The openly accessible data will be published after the project ends, however if there is any publications pending, the data used in the publication will have embargo
- The datasets which will be opened for public use is stored in a trusted repository (IDA) and will be accessible and re-usable for decades

Ensuring the data quality:

- We are adopting and enforcing formal version control processes, e.g. simply shared and documented file naming conventions, using always a copy for modifications so the original will be intact
- Transcriptions of audio or video interviews are always checked by someone other than the transcriber (another researcher)
- Analog material (e.g. questionnaires or feedback papers) will be digitised in the highest resolution possible for accuracy.
- In all conversions, maintaining the original information content will be ensured.
- We will organise training sessions and set guidelines to ensure that everyone in the project can implement quality control and anticipate the risks related to the quality of the data.

5. Allocation of resources and data security

Estimated costs for making the project data open access and potential value of long-term data preservation; procedures for data backup and recovery; transfer of sensitive data and secure storage in repositories for long term preservation and curation?

All collected and produced data will be stored within the O365-services provided by the project coordinator's organisation (e.g., Teams and OneDrive). The systems will produce data backups automatically.

All persons working with the project have access to project related files, but if there is datasets including personal data or identifications, the datasets will be protected with passwords and the passwords will be known only to the persons responsible of the use of such data.

Any additional financial resource won't be required, as the organisation provide the O365-services, and the IT-Center for Science (CSC, <https://www.csc.fi/>), providing IDA and Qvain, is managed by Finnish higher education institutions and the use is free of charge for the HEIs. The data stewardship services are provided by the project coordinator's organisation.