
Plan Overview

A Data Management Plan created using DMPTuuli

Title: LENTOON

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Project abstract:

LENTOON project creates a comprehensive and scalable operating model for successful product development of wellness and health technology for companies in Central Ostrobothnia. The operating model takes over the industry's various key product development processes and methods (e.g. BioDesign), takes into account the latest evaluation criteria for wellness and health technology (Health Technology Assessment, HTA) and regulation of medical devices, and fits the industry's best commercialization and user-centered methods comprehensively into product development.

The aim is to improve the success of wellness and health technology innovations in the growing export and domestic markets of the sector. Micro-, small- and medium-sized enterprises that develop technology in the social and health care sector need a new kind of more integrated and comprehensive support and know-how to carry out successful product development processes. Finnish higher education institutions already have many related existing high-quality services, the most essential elements of which must be embraced and learned to apply by the developers of the welfare and health technology of each province. Specific features of product development in health and social services include: (a) strong regulation at all stages of product development of technological products for human health; (b) a multi-layered and variable customer concept; (c) the need to bring together expertise in the marketing and custom-oriented product development, health and social care, and technology, and at all stages of the product development from idea to commercialization.

The multidisciplinary group of research, development and innovation (RDI) actors in wellness and health technology in Central Ostrobothnia has benchmarked good practices and pitfalls from other domestic actors in the field. The key success factors have been identified as managing up-to-date product development support as a scalable step-by-step process that links together commercial, health and social care, and technical know-how at every stage of the product development process. Often, poor attention from a commercial point of view has led developer companies to a pitfall that has only been noticed when a product based on health and social care needs and implemented by applying high-level technical expertise has already been placed on the market at high costs, and sales do not start to drag. The LENTOON project takes lessons from benchmarking experiences and supports operators in Central Ostrobothnia to adopt a comprehensive product development process model for the development of effective, usable, safe and commercially successful wellness and health technology equipment and software.

The project develops, produces and scales an operating model for the development of technology-based products and services for the health and social care sector in the Central Ostrobothnia region.

LENTOON project:

1. Creates a unified, updated, step-by-step, customizable and scalable product development support process to support the successful development of wellness and health technology products.
2. Supports companies in taking over the latest criteria for health and wellness technology assessment (HTA) that is applied in procurement processes of their largest potential customers in order to enable them to produce technology solutions with demonstrated levels of effectiveness and safety for the social and health care sectors.
3. Supports wellness and health technology companies in an efficient, user- and market-driven product development process at every stage of product development.

As a key result of the project, the competence, foresight and innovation activities of the local companies developing and producing technology for the social and healthcare sector, as well as the development of new technologies, have been strengthened by the adoption of a successful product development process models. As a result of the project, cooperation between higher education operators and the business sector has strengthened in Central Ostrobothnia, supporting the growth potential, success and internationalization opportunities of the companies. As the output of project activities, the development, piloting and commercialization of companies' products, services and their production methods have been supported by strengthening their ability to respond to the specific demands of technology development and market structures in the health and social care sector.

As a result of the project, higher education actors in the region will be able to support RDI activities and growth-oriented business activities in wellness and health technology based on the needs of business life more effectively than before. The project promotes the diversification of business activities in the Central Ostrobothnia region by strengthening operations in the strongly growing and export-

oriented health technology sector, and increases the attractiveness of the region as an operating environment for entrepreneurship and work. The project supports the focus of smart specialization in Central Ostrobothnia in 2022-2025 Health services based on digitalization, robotics and electronic solutions" and related cross-regional partnerships.

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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).

LENTOON produces information on the market-driven product development process in the field of wellness and health technologies. The material consists of video, text, images and audio.

1. Making data findable

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

To create knowledge about the market-oriented product development process in the field of wellness and health technologies, in accordance with the project plan. The material will consist of video, text, images and audio produced by the project team and project participants. The material produced will include metadata identifiers, such as titles and keywords, to facilitate discoverability. Metadata standards will be added during the project as the material is produced.

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)?

The finished material produced by the project will be made available through an open website.

3. Making data interoperable

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

The project will make use of standardized thesauri, such as the MeSH thesaurus.

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?

The results of the project will be published under a CC BY licence. The quality of the data will be assessed by a multidisciplinary project team.

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?

The materials are published on the Centria website. The project will not publish sensitive data.