

HEALTHCARE INNOVATION LAB

Large-scale, cross-cutting, Public-Private Innovation Project to test the innovation laboratory of the future in the healthcare sector

The Healthcare Innovation Lab project, the Healthcare Innovation Centre, www.centerforsundhedsinnovation.dk

The Aim of the Healthcare Innovation Lab

The Healthcare Innovation Lab project aims to develop a business plan for an actual Healthcare Innovation Laboratory to serve as the setting for a public-private partnership on innovation (PPI). The partnership includes businesses, hospitals, knowledge institutions and research institutes, as well as patients and their families in the Capital Region of Denmark. The potential for systematically developing and testing the simulation process as a user-driven method will be demonstrated through a number of specific business cases in close collaboration with hospitals, knowledge institutions and the private sector.

The innovation lab is envisioned as a physical meeting place, e.g. organised as an administration centre with departments located at the various hospitals within the region. At these innovation labs, it will be possible to carry out simulation in realistic settings – such as a patient room, an operating theatre, a waiting room, a dayroom, etc. – to develop and test innovative products, services and types of organisation that meet the demands of the future in the healthcare sector.

Commercially viable ideas and concepts will be developed during the course of the project. The project has a clear business-oriented profile and, with the help of simulation, has the potential to make Denmark and Scandinavia the leader of user-driven innovation in the healthcare sector.

The three business cases will identify the simulation potential as a user-driven method in the following areas:

- *Functional and organisational planning of hospital construction.* Using ambulatory care units as the starting point, the project aims to find solutions for establishing coherence between the physical design of the unit and the processes that will take place there.
- *Overview of lab results.* This business case will develop and test IT-based solutions that address problems involving the handling of and overview of analysis results.
- *IT and telecom monitoring, targeted at patients with heart disease.* The purpose of this business case is to use technology to support integrated care pathways for the patient across sectors and over great distances.

Perspectives for a Healthcare Innovation Lab

- A Healthcare Innovation Lab will have all of Denmark as its potential marketplace for regional collaboration.
- A Healthcare Innovation Lab will be an important contribution to the establishment of a Scandinavian healthcare and innovation cluster of international calibre.

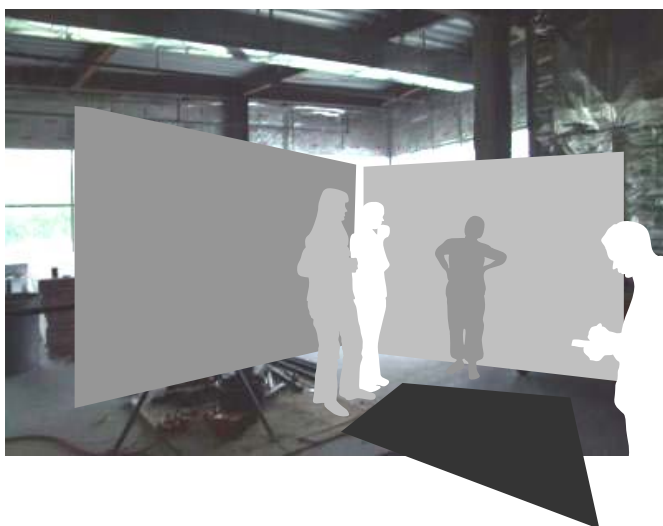


Background

Denmark's public health service will face major challenges in the years ahead, and the need for innovative, out-of-the-box approaches is a top priority. A larger number of better, more efficient health services must be provided to users, primarily patients and relatives, but also to healthcare professionals, as well as between hospitals and across sectors.

In the coming years, DKK 40–50 billion will be invested in hospital construction projects, for things like building new hospitals, implementing new technology and developing new types of treatment and organisation. This will create a huge potential for innovation within a wide range of product and service areas, and will require the involvement and collaboration of many types of users.

Identifying known and unknown needs of patients and employees in connection with hospital design and organisation can provide important new information to enterprises serving as consultants or suppliers for hospital construction, design, technology and organisation in the future.



"It is my hope that this project will enable us to create an 'exploratorium' and a meeting forum where businesses, researchers, clinical staff, patients, designers and architects – together with the Healthcare Innovation Centre – have the opportunity to develop and test new services, products and types of organisation."
Susie A. Ruff, Director of the Healthcare Innovation Centre

Participants in the Healthcare Innovation Lab project

Capital Region of Denmark: Healthcare Innovation Centre, Corporate Management (IT), Corporate Management, Planning and Development, Bispebjerg Hospital, National University Hospital (Rigshospitalet), Bornholm Hospital, Herlev Hospital, Hvidovre Hospital, Glostrup Hospital, and the Danish Institute for Medical Simulation.

Research institutions: DTU Management, the IT University of Copenhagen

Organisations: The medical industry, Medico Innovation, DI ITEK, Danish Patients, Danish Society for Patient Safety

Companies: Grontmij/Carl Bro, Care2Wear, B&O Medicom, CBS Innofactor, In-Jet, Pallas Informatik, CSC Scandihealth, Max Manus, IBM (Acure)

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One of the three business cases will discuss success criteria at the kick-off workshop.