



inDemand: Demand driven co-creation for public entities

CHALLENGE 1: A solution supporting resource planning for more efficient implementation of rooms

Pitch

An electronic application is needed for real-time monitoring of the occupancy rate of hospital rooms.

Motivation and description

In the future hospital, the occupancy rate of rooms shall raise in accordance with space requirements. For instance at outpatient clinics, the number of rooms will be smaller in future in spite of the fact that even now, as it is, the hospital does not always have a sufficient number of rooms available. An electronic application is needed for real-time monitoring of the occupancy rate of hospital rooms so that when staff and patients vacate a reception or an operation room, it will be available for others to use. Oulu University Hospital requires such an application as probably do also other hospitals in Finland and in other countries.

Main objective

An electronic application is needed for real-time monitoring of the occupancy rate of hospital rooms. Once staff and patients vacate a reception or an operation room, other users shall be aware of the change of the room status. The information is available in real time and professionals are continuously aware of the available space(s). Public screens and door displays in the unit and mobile devices of the personnel should allow the monitoring of occupancy rate of the rooms. Booking of a room can be made on a mobile device. The solution should indicate e.g. if the room is occupied for patient visit, for internal use or if it is free. Also location information of the professionals is seen as useful feature. This is significant information for a teaching hospital where plenty of consultation requests are made.

Requirements for the proposals

Through the inDemand Project you have an opportunity to present your proposal for solution to Northern Ostrobothnia Hospital District and develop it further in cooperation with healthcare professionals.

The proposals shall respond to the challenges discovered in the hospital environment. The best proposal will be accepted into a unique process where hospital services are developed in cooperation with professionals and other stakeholders providing national and international visibility through the organisations implementing the inDemand Project.

- Shall respond to one of the development needs described here
- Must be an e-health application
- Equal to TRL 7

Business opportunity

Improving the occupancy rate of hospital rooms is one of the key ways to achieve cost savings and streamline the operations in the future hospital. By optimizing the utilization rate of hospital rooms, the SME can help the customer - hospital and healthcare professionals - to serve patients with shorter waiting times and guide them efficiently to the operating rooms. This will help reducing the time the patient spends in the hospital and improving the patient's customer experience.