



**inDemand: Demand driven co-creation for public entities**

## **CHALLENGE 2: Remote controlled mobile solution for hospital clients (case: children's asthma examination)**

### **Pitch**

There is a demand for a mobile solution with which to submit easy-to-use materials to clients.

### **Motivation and description**

At present, children's asthma tests start with two appointments. The first appointment is with a nurse and contains a lot of important guidance to promote successful diagnostic tests, including guidance on blowing into the PEF meter, two-week PEF monitoring and instruction on taking inhaled medication. The second appointment is for pulmonary function tests and nurse's and doctor's surgery. Some clients could skip the first appointment with the nurse if they had access to high-quality materials and the asthma tests could be carried out in one visit without compromising the reliability of diagnostic tests.

The application would be available for the purpose of submitting guidance material in various domestic and international units and organisations.

### **Main objective**

A mobile control application for young clients is yet to be developed for mailing easy-to-use guidance materials (including videos, game apps) without the client having to log in. The application should be accessible for various mailing purposes of guidance materials relating to hospital care pathways. In the case of children and young people, login without a banking code or other certificate is important. A mobile apps should include good technical properties for modification of content and adding material. The application shall be clear and easy to use to encourage client's motivation to use it.

### **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 proposals 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**

Asthma is the second most common disease in Finland. In Finland it is affected by about six percent of the population, i.e. almost 250.000 people.

Asthma's self-care means that children suffering from asthma are taught to observe and respond themselves to the changes in asthma symptoms as agreed. The basis for successful self-care is that prescribed medication guidelines are strictly followed. The child should also understand what asthma is about, what are the main features of treatment and how to undertake treatment. If the medication is irregular, increases the risk of repeated recurrence. In addition to hospitals, also e.g. pharmacists give guidance to asthmatic patients.

When a SME succeeds in creating a user-friendly mobile guidance application in InDemand, the solution has a good potential to scale as a supplier of other diseases' mobile guidance application provider.