@OuluHealth

Oulu Capital of Northern Scandinavia

THE ECOSYSTEM TO BOOST YOUR BUSINESS

OULU HEALTH

www.ouluhealth.fi

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European Union
European Regional Development Fund

Leverage from the EU 2014–2020

ECHAlliance

OuluHealth Labs

Innovation, testing and development environment for companies & medical professionals

OULU HEALTH LABS

OuluHealth Labs Concept

Idea

Is it a good one?

Development

Does it really work?

Testing

Is it easy to use?

Oulu Capital of Northern Scandinavia

Oulu WelfareLab

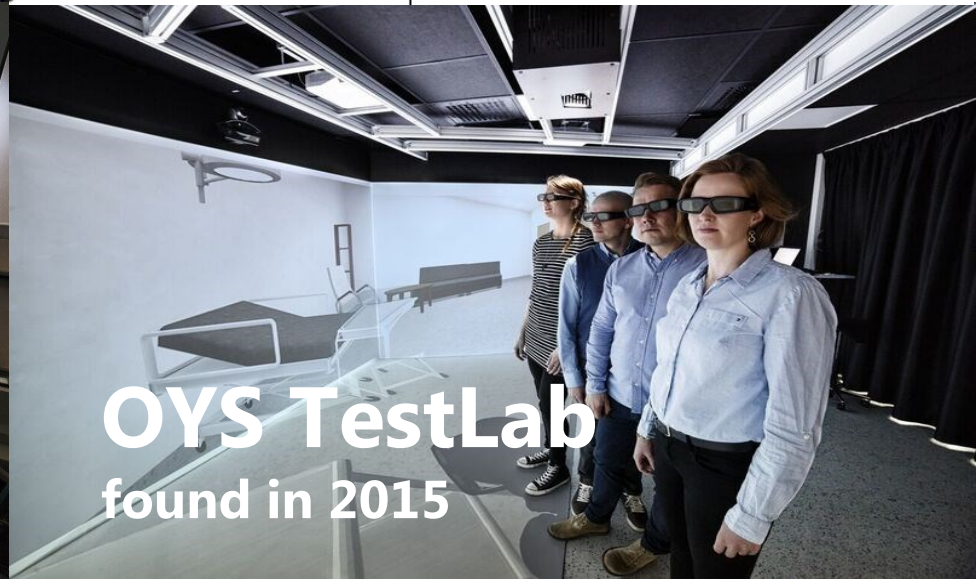
found originally in 2008

OULU HEALTH LABS

found in 2015

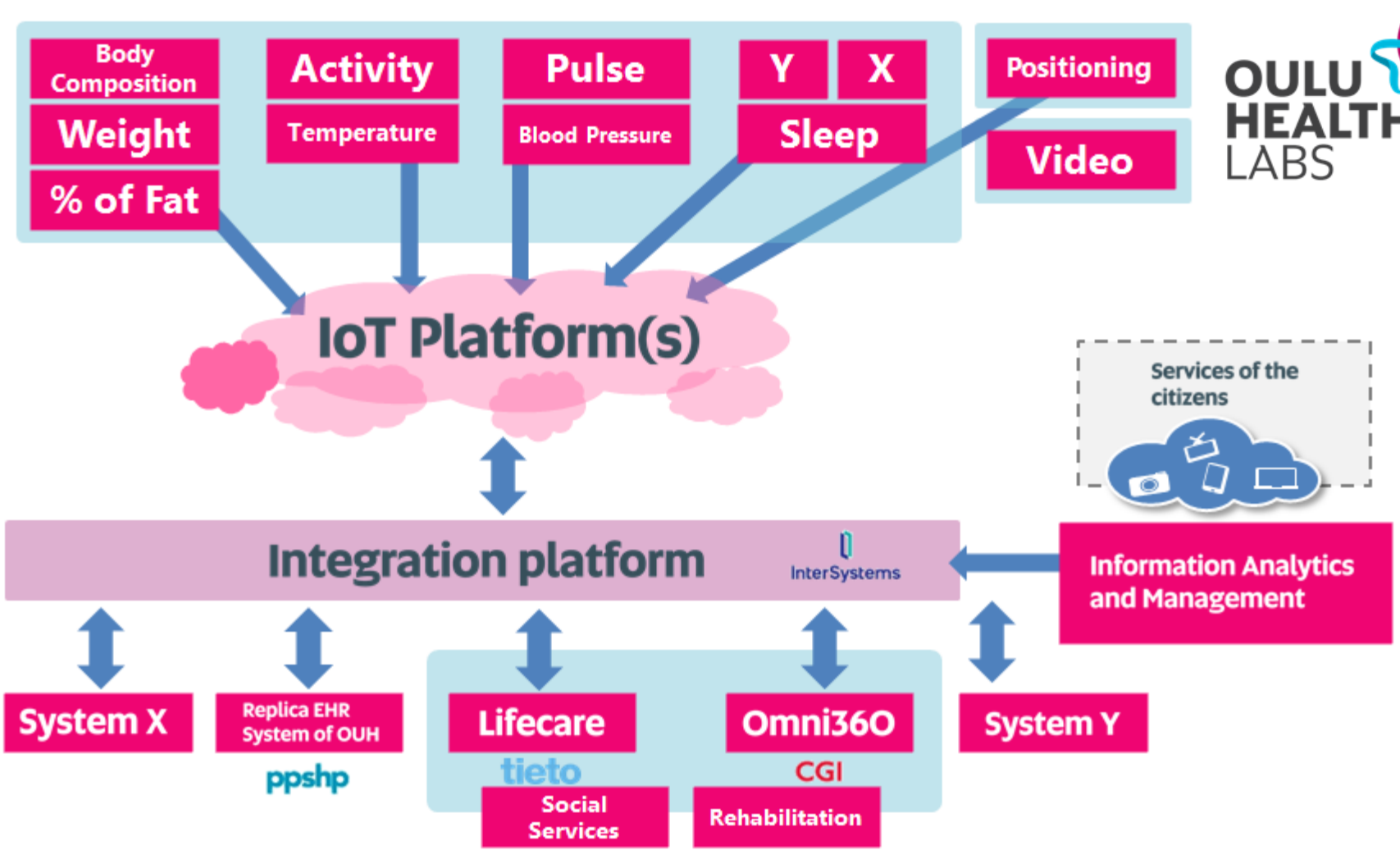
Oamk SimLab

found originally in 2009



OYS TestLab

found in 2015


Body Composition
Weight
% of Fat
Activity
Temperature
Pulse
Blood Pressure
Y
X
Sleep
Positioning
Video
OULU HEALTH LABS
IoT Platform(s)
Services of the citizens
Integration platform
InterSystems
Information Analytics and Management
System X
Replica EHR System of OUH
ppshp
Lifecare
tieto
Social Services
Omni360
CGI
Rehabilitation
System Y

Oulu HealthLabs offering

Oulu WelfareLab
(healthcare centers, social care & patients' home)

1. FAST TRACK FEEDBACK 450 €
Evaluation session with specialists

2. FEEDBACK PANEL 880 €
Prepared evaluation session with specialists

3. PRODUCT TRIAL
Testing in authentic environment with genuine end users
Level 1 (days, few participants) 1050 €
Level 2 (1 month, few participants) 2200 €
Level 3 (several months, more participants) 4950 €

OYS TestLab
(hospital environment)

1. FAST TRACK FEEDBACK 580 €
One hour evaluation session with specialists

2. FEEDBACK PANEL / PROTO END-USER TRIAL 1080 €
Prototype end-user trial & feedback by spec. panel

3. REAL-LIKE PROTOTYPE TRIAL 2000 €
Prototype trial at simulated scenario by end-users

4. RENT-A-LAB 500 € + 100 € /h
Training session in OYS TestLab

5. LAUNCH-IN-LAB 500 € + 100 € /h
Make your launch a success in OYS TestLab.

6. 30-DAY TRIAL 1000 €
Product trial run by experts for a month or longer

7. INTERFACE IT (starting from 3000 €)
IT interface design with OYS TestLab digital platform

8. LAB TOUR 550 €

Oamk SimLab
(simulation environments)

1. LABTOURS
LabTour 1 (presentation 1 hour) 120 €
LabTour 2 (more indepth) starting from 200 €
LabTour 3 (3 hours) 420 € (ALV0%)

2. PROTOTYPE TESTING
Students testing the product under teacher's supervision, including feedback and report
Price: negotiable

3. PRODUCT TEST USE
Students test the product according to company's usability, icluding feedack and report
Price: negotiable

4. PREMISE RENTAL FOR TRAINING
Technical support available during session
Price: 450 € for minimum 4 hours,
extra hours 100 €/h

OULU HEALTH LABS

Research and Development

Oulu Capital of Northern Scandinavia

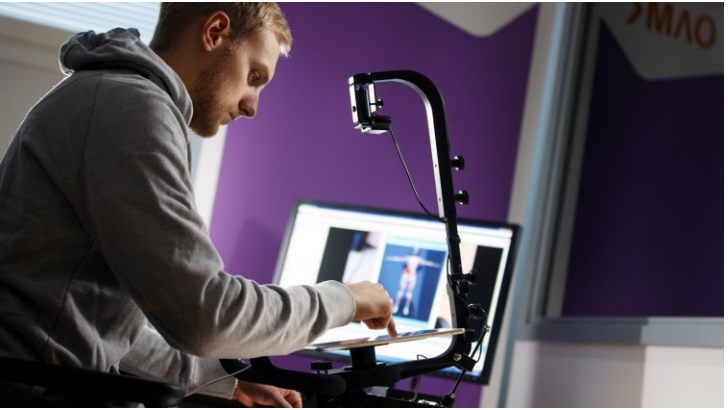
OULU UNIVERSITY HOSPITAL

OULU HEALTH LABS

Simulated Operations

Oulu Capital of Northern Scandinavia

OuluHealth Labs in numbers

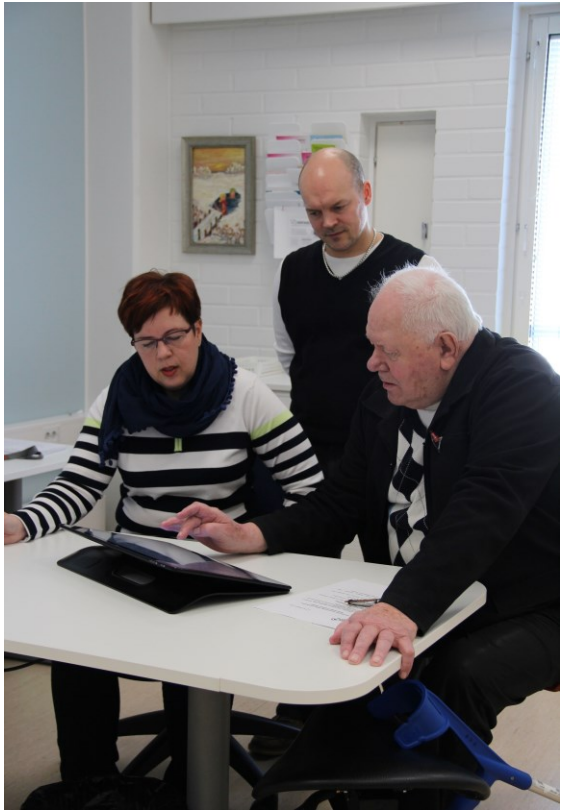


50+ completed pilots

100+ innovation sessions

120+ companies

2000+ people involved



OULU HEALTH LABS

Facilitating Cooperation

Oulu Capital of Northern Scandinavia

OULU HEALTH LABS

For Every Phase of Your R&D Process

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Kiitos!

OYS OULU UNIVERSITY HOSPITAL

OAMK OULUN AMMATTIKORKEAKOULU

OULU

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Oulu Capital of Northern Scandinavia

OuluHealth Labs covers the whole patient chain from home to hospital through 3 collaborating testbeds

Oulu WelfareLab
(healthcare centers, social care & patients' home)

End-users are at customers' and patients' homes and in all social and health care services within in the City of Oulu. Professional and customer feedback on products in a real, everyday social and health care environment.

contact: Jaana Kokko
City of Oulu
jaana.a.kokko@ouka.fi

OYS TestLab
(hospital environment)

Various hospital units can be built into open spaces: an operating theatre, clinics, wards, control rooms, waiting areas etc. Includes a digital testbed for EHR integrations, a 3D virtual space and a 5G test network.

contact: Timo Alalääkkölä
Oulu University Hospital
timo.alalaakkola@ppshp.fi

Oamk SimLab
(simulation environments)

Covers bioanalytics, nursing and emergency nursing, optometry, oral health care, radiography and radiation therapy as well as rehabilitation learning, and student collaboration.

contact: Helena Heikka
Oulu University of Applied Sciences
helena.heikka@oamk.fi

OuluHealth Videos

OuluHealth Labs in action (2min)
https://youtu.be/oeLajg0u4FQ

OuluHealth ecosystem on CNN (5min)
http://www.cnn.com/video/data/2.0/video/world/2016/02/12/digital-state-finland-new-technologies-pkg.cnn.html

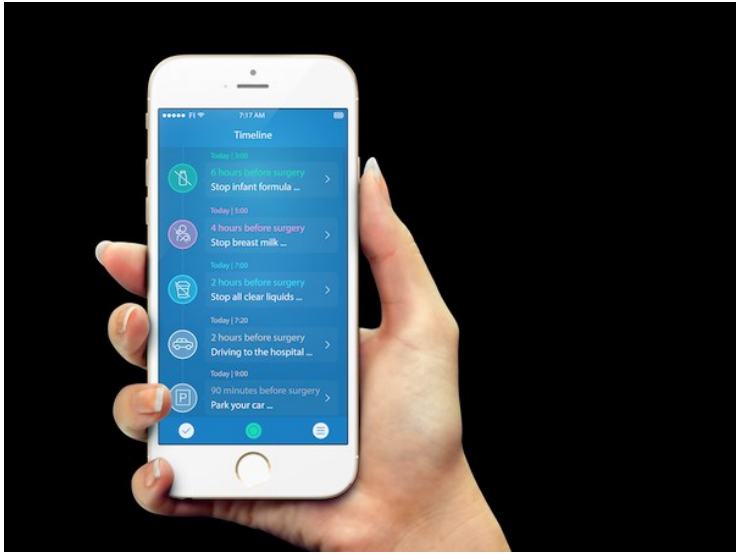
Examples of completed pilots

OULU HEALTH LABS

Buddy Healthcare: Testing a practicality of a patient informing system

What did you want to test?
We wanted to test how our BuddyCare solution supports families preparing for surgeries and streamlines their entire surgery experience. Furthermore, we tested how the information provided by patients through BuddyCare supports healthcare professionals in their daily activities.

What are the test results?
OuluHealth labs provided a modern and unique environment for us to test and validate the feasibility of our solution. The nurses and doctors were really interested in helping us to continuously develop our product.



tested in 2017 by:
OYS TestLab

CompactaSteril: Testing product usability in a hospital environment

What did you want to test?
The objective was to allow healthcare personnel to test the usability of CompactaSteril in a hospital environment.

What are the test results?
Overall, the feedback we received was positive, and the intended usage of the product was supported. The hospital personnel provided us with useful suggestions for the further customization and improvements to CompactaSteril.
We will finalize the development of this prototype and then perform the studies needed to obtain regulatory approval. The results of the usability testing and the feedback we obtained will contribute to the development of the final CompactaSteril's solution.

tested in 2017 by:
OYS TestLab

Near Real: Testing user-friendliness of a product under real-life conditions

What did you want to test?
We wanted to test the user-friendliness of our product under real-life conditions. The solution was tested in cooperation with the City of Oulu's social and health care services, housing assistance and mental health services by customers, as well as professional users.

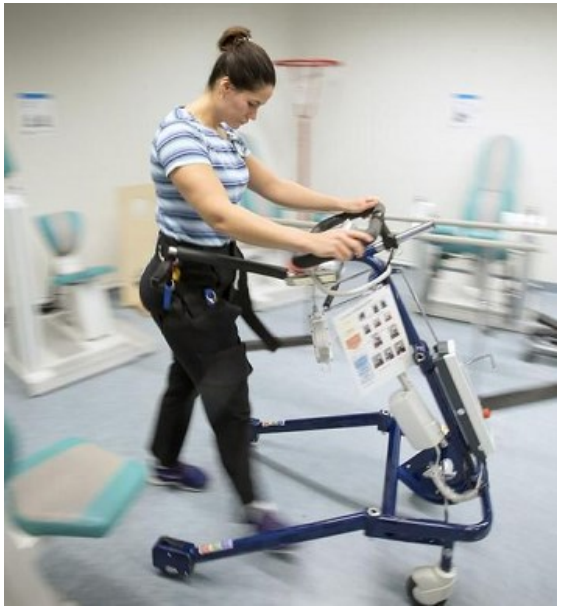
What are the test results?
Cooperation with organizations such as Oulu Health Labs helps us reach established goals and further develop services. Global digitalization and transformation in Finland's social and health care system offer Near Real excellent prospects for the future. Near Real's open API- application program interface offers a particularly promising opportunity. In this way, for example, integration with hospital appointment booking and the patient-data system is easy.

tested in 2017 by:
Oulu WelfareLab

Daiwa House: POPO robot for rehabilitation

What was tested?
POPO is already in use in many hospitals and rehabilitation clinics in Japan, and the company is now seeking experience about its use in a European culture. The company tested the robot in three different user environments at the City of Oulu (one month test in each): At the rehabilitation ward in the city hospital, at open rehabilitation and in an elderly care unit in Haukipudas.

What are the results?
The city of Oulu gained experience on robotics in rehabilitation, and the company learned about Finnish healthcare system and end users. They learned for example that in Finland, rehabilitation in homes is a growing method in the future and mobile devices like POPO will be needed.



tested in 2017 by:
Oulu WelfareLab

Sonera: Piloting new solution for communication among palliative care stakeholders

What did you want to test?
We wanted to test the Sonera Vihko solution's operations in the palliative care process within several different professional groups (nurses, oncologists, anaesthesiologists, social workers, etc.).

What are the test results?
We got proof that our idea for the communication model and the appropriate solutions in a challenging, multi-organizational environment were correct. The deployment of new practices requires determined management of change and active practical implementation.

tested in 2016 by:
Oulu WelfareLab
& OYS TestLab

Monidor: Usability and user interface testing for infusion therapy monitoring

What was tested?
Monidor needed feedback for the product development. Interesting questions were for example:

- Do you think the product is useful?
- In what kind of situations the product would be at its best?
- What are the most urgent development needs of the product?
- Would the product facilitate your work?
- Would you use the product?

What are the results?
The nurses gave highly positive feedback concerning the user-friendly user interface (UI) and small-sized product. The product development and the company management received valuable information for developing the product's next phase and its readiness fro the market.

tested in 2015 by:
Oamk SimLab
& OYS TestLab