

TECHNOLOGY SUPPORT TO IMPROVE QUALITY OF LIFE OF PATIENTS AND CAREGIVERS

Felip Miralles – Director Ehealth Unit

Eurecat on healthcare

The **healthcare sector** is one of the most strategic in which **Eurecat** is driving innovation.

We develop **innovative services and products** in open collaboration with research centres, companies, healthcare providers and administrations.

Mission

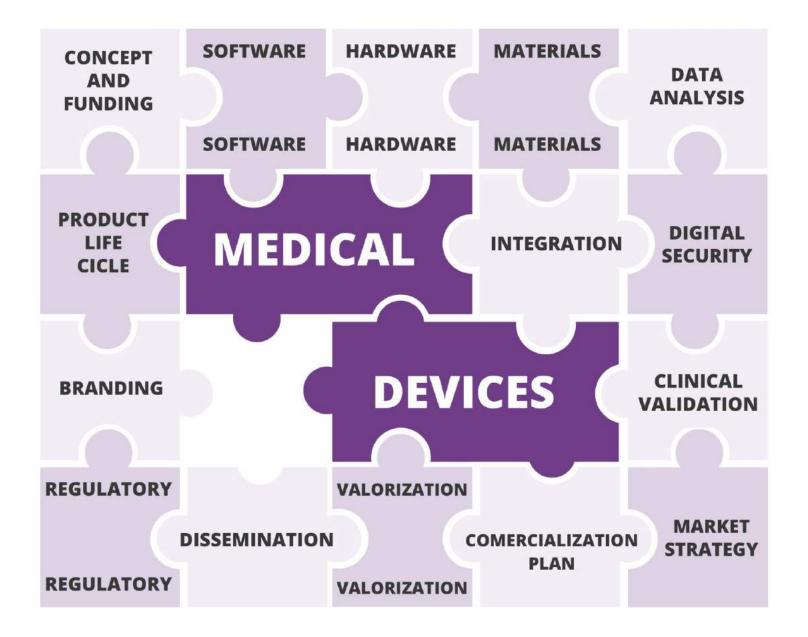
Foster competitiveness of companies and society through applied research, innovation, and knowledge transfer

Vision

Become the referent on industrial research and technology transfer within the innovation ecosystem



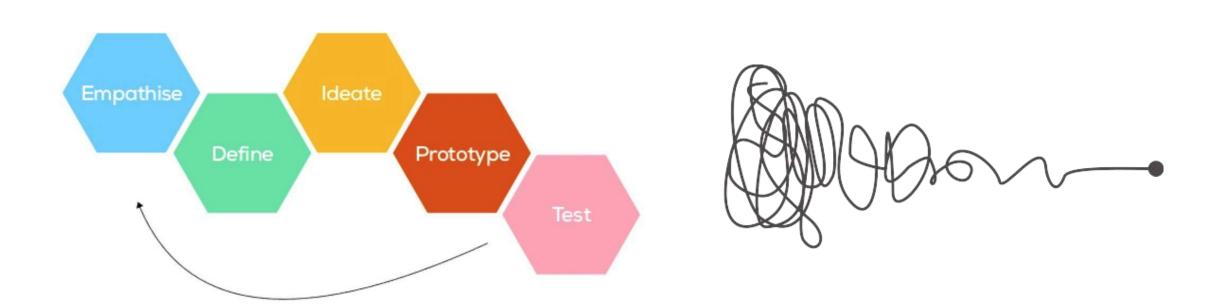
Flagship project in Eurecat



Design thinking in health

Design thinking is a user centred (patient centred) methodology we use to generate innovative ideas which drive efficacy of solutions from the understanding of real unmet needs of users (specially patients, but also caregivers and health professionals)

It is a process which is carried over step by step, but in an iterative way.



Paprika Actual service

Trimodal approach

Program including supervised endurance training & promotion of physical activity, nutritional balance and psychological support (mindfulness).

Currently delivered through face-to-face visits with physiotherapists, nutritionists, psychologists...Need to be scaled up to reach more people, cost less and impact more.







Paprika
Objectives







Modular service workflows

Service accesibility, sustainability and transferability requires modularity of service workflow



Integrated Digital Health Tools

Modular Digital Health tools integrating Adaptive Case Management for professionals and Self-Management apps and devices for patients.



Personalization and Adaption

Service is highly adaptive and individualized by nature, therefore solutions must take into account profile and evolution of patients

Paprika









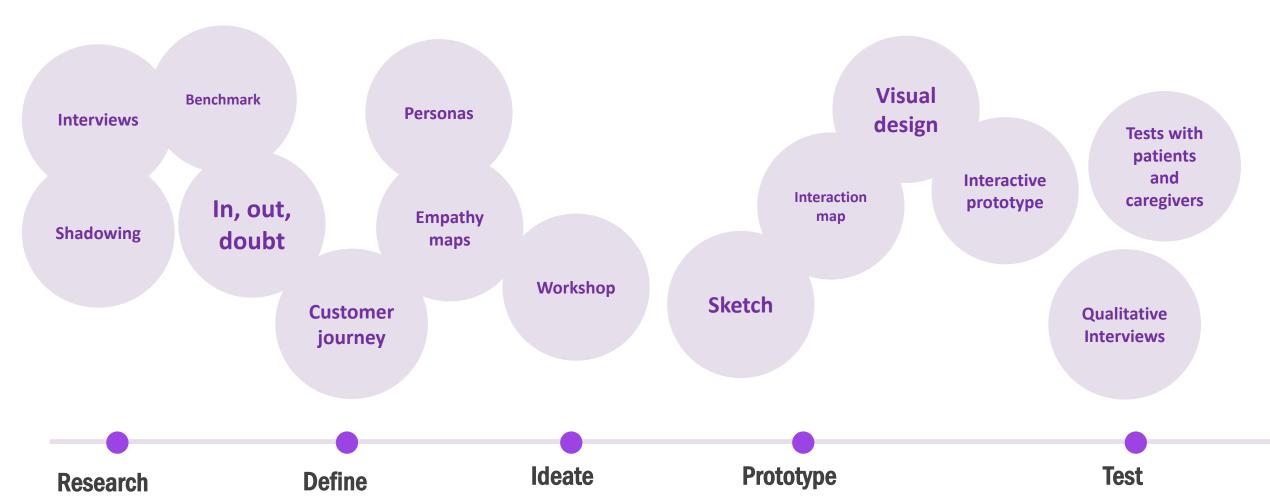


Paprika

How did we reach the solution?



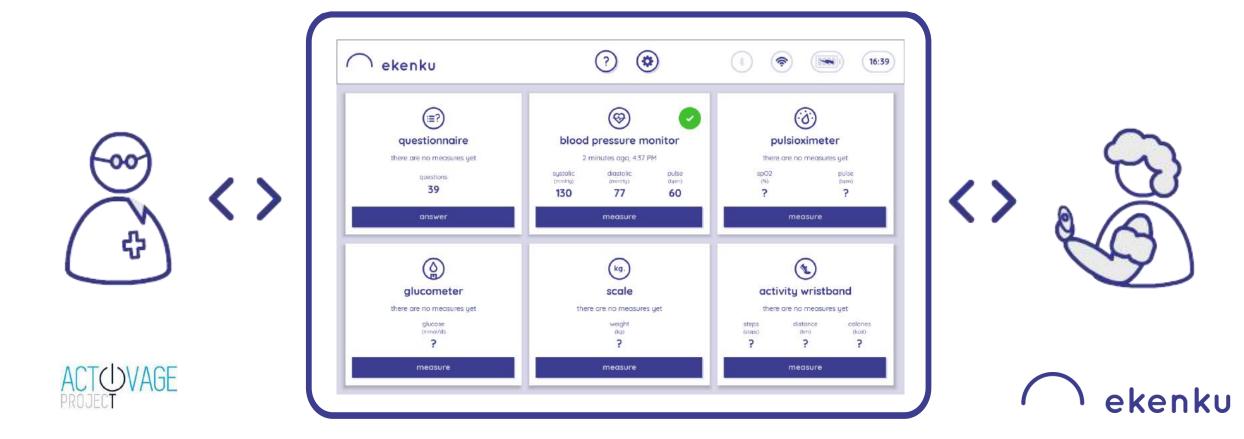




Ekenku

Solution for the remote follow-up of patients at risk of exarcerbation from clinical providers.

ActivAge Project allows lasge-scale deployment of remote care IoT for monitoring and management of vital parameters for elderlies and parkinson's patients



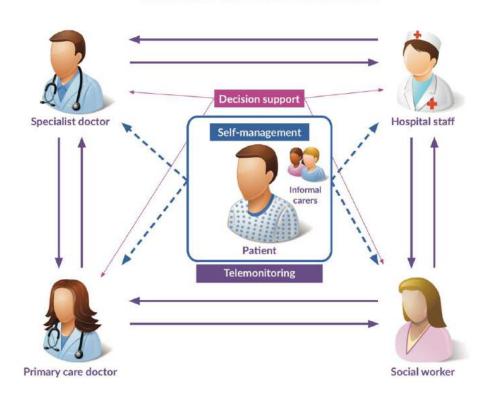
Connecare

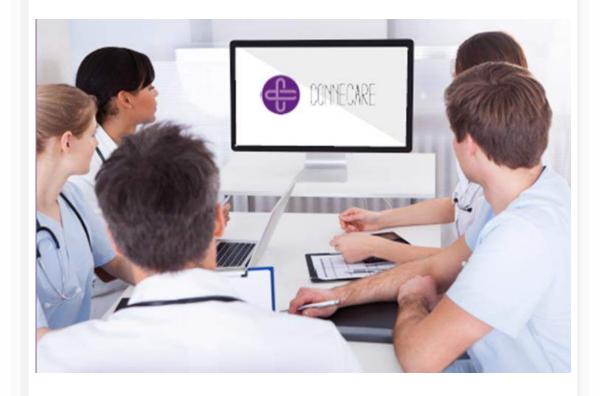


Horizon 2020 European Union funding for Research & Innovation



SMART ADAPTIVE CASE MANAGEMENT





Preventomics

A biomarker and ICT-based system which provides personalized dietary and lifestyle advice with behavioral stimuli to engage users to improve their health habits and help them prevent the onset of diet-related diseases.





Horizon 2020 European Union funding for Research & Innovation







Rehaviour

Behaviour change solution for patients before and after a high risk surgery: drop smoke and alcohol intake and adopt healthy habits in order to positively influence complications and mortality.

European Pre-Comercial Procurement, already in its last stage III, being deployed and adopted in 3 European hospitals





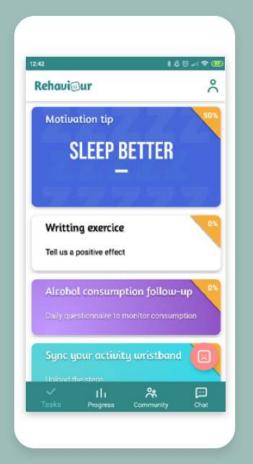


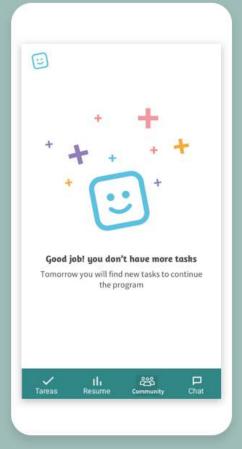


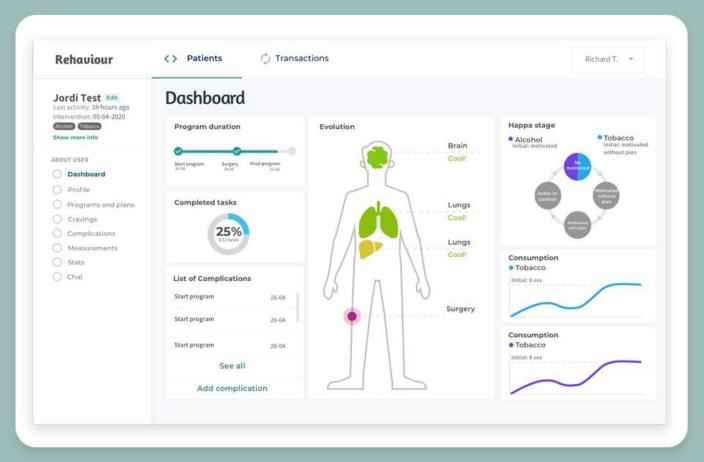




Rehaviour











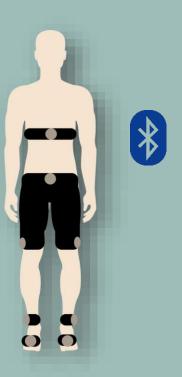
6MWT+ - The Six Minutes Walk Test +

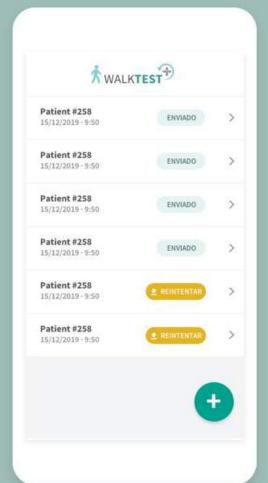
Improvement of diagnosis and follow-up of the Six Minute Walk Test protocol, for instance used in the evolution of chronic neuromuscular diseases, through the integration of biomechanics sensors and data fusion.

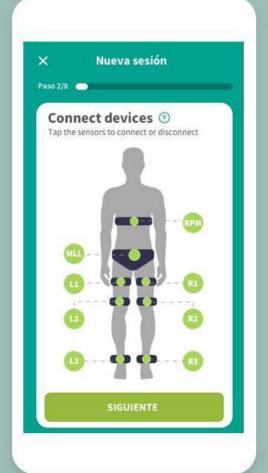


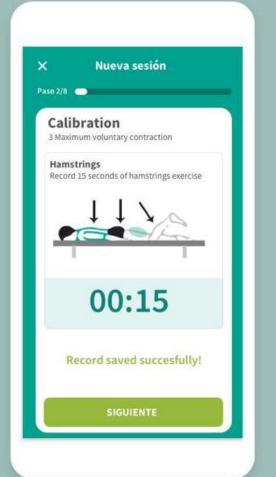


6MWT+





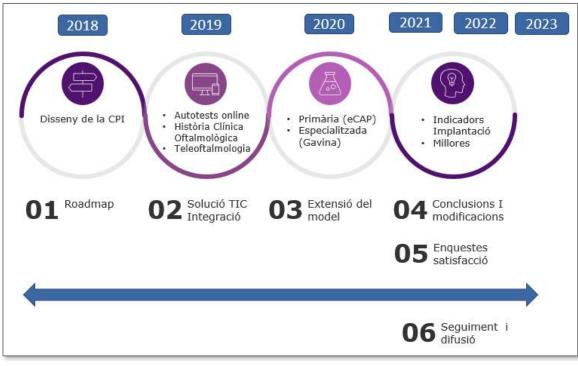




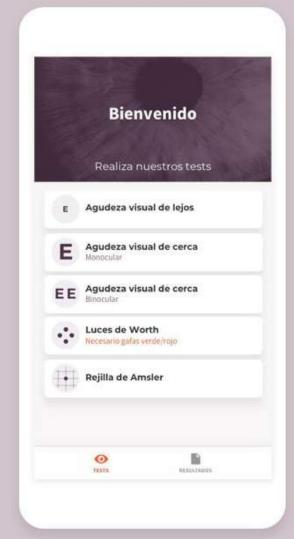




Integrated care to oftalmologic patient













Technology acceptance – meaning for the end user

Design thinking in Health - Benefits:

- Providing a means to listen to patients carefully
- Improving interaction and communication among healthcare teams
- Rediscovering the patient by the professional
- Redesigning more effective and efficient processes and solutions
- Fostering creativity by joining multidisciplinary profiles





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