

# Call for SMEs HealthChain Follower SMEs Centro (Portugal)

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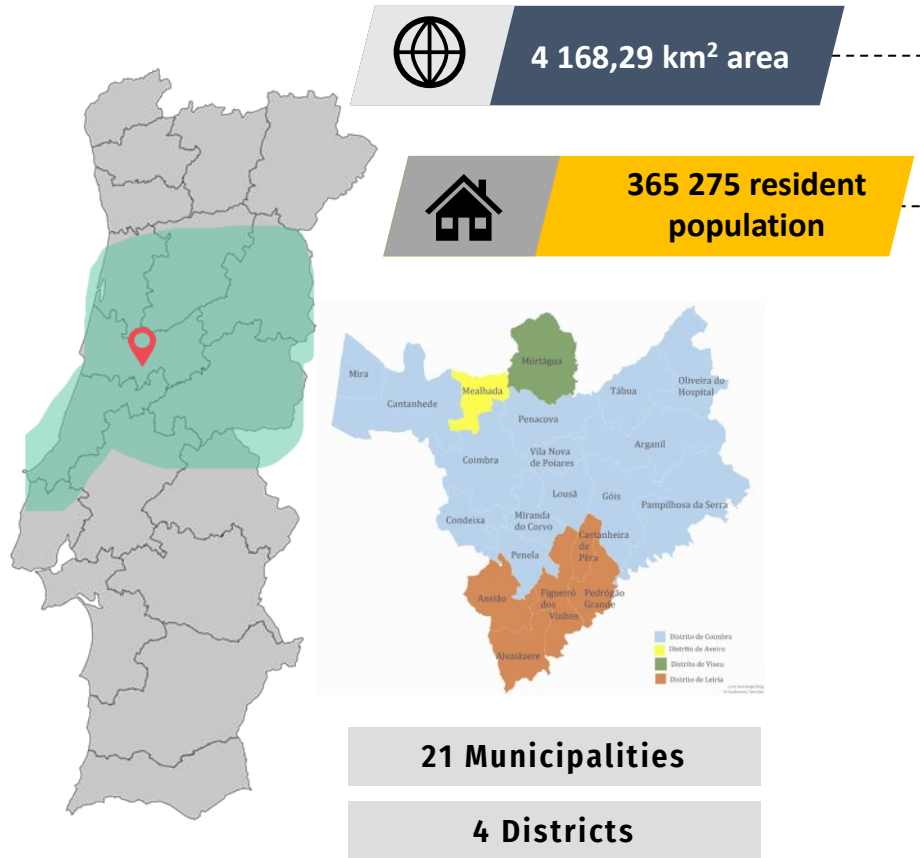
UNIDADE LOCAL DE SAÚDE  
COIMBRA

# Coimbra's Healthcare Integrated Delivery System

01



## About us



**workforce**  
11 000



**patients**  
> 400 000



**ULS  
Coimbra**



**infrastructures**

**09 hospital centres**

**26 primary care centres**

**and long-term care facilities**

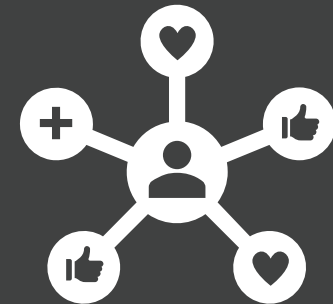


**main services**

- hospital emergencies
- basic emergencies
- hospitalisation
- general consultations
- speciality consultations
- complementary diagnostic and therapeutic exams

# CHALLENGES, SOLUTIONS & FOLLOWER SMES WORK

02



## Challenge 1

### Reabilitar@mente

*Effectiveness of cognitive rehabilitation programs for hospitalized elderly people.*

- Implement cognitive rehabilitation programs to improve orientation, memory, and functional independence concomitant with a complementing rehabilitation nursing interventions in the area of functionality.
- The cognitive rehabilitation programs should include exercises on topics related to each person's personal tastes, as well as some occupational activities from their current and past life.

# CogniViTra 2.0

Facilitating functional rehabilitation and adaptation for patients during hospitalization and discharge.

## Description of proposed solution

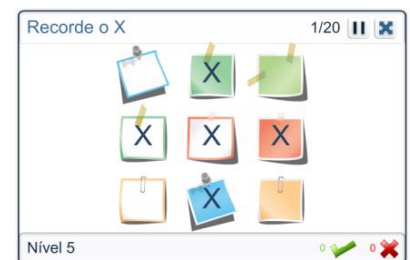
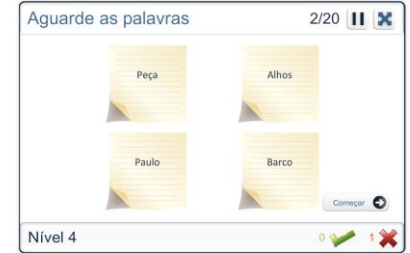


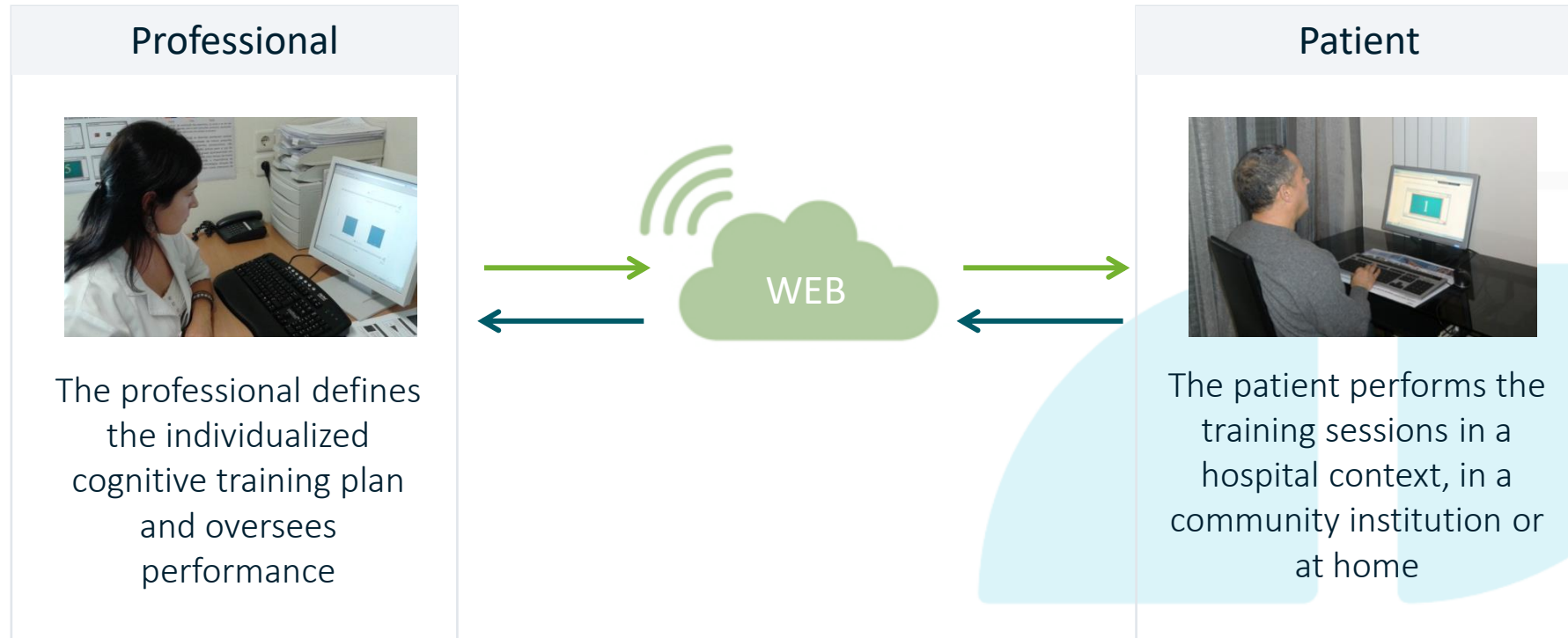
- We propose the development of an advanced cognitive training programme complemented by the prescription of simple motor tasks, adapted to the needs and tastes of each patient, and programmed to improve user's functionality-CogniViTra2.0.
- This solution incorporates a range of new functionalities aimed at facilitating functional rehabilitation and adaptation for patients during hospitalization and discharge.



# COGWEB®

- Is a tool for the implementation of online cognitive training plans
  - Over 150 computerized exercises
  - Organized by cognitive function  
Attention, memory, language, executive functioning, calculation, constructive capacity
  - Various levels of difficulty and initial level selection
  - Level progression or regression according to performance





The intervention plan, the exercises to be prescribed and the model of the sessions (face-to-face or distance) are defined by the clinical team, according to each specific situation

## Requirements covered by Neuroinova (Leading SME)

- Tool to create flexible and personalized intervention plans, tailored to the user's characteristics, to be carried out both during hospitalization and after discharge, at home;
- Deliver engaging content tailored for cognitive rehabilitation, considering the unique characteristics of the targeted population;
- Possibility to adjust the type of cognitive training exercises, the degree of difficulty, the type of content and the type of response (mouse, touch or motor) to cognitive exercises;
- Prescription of simple motor tasks;
- Adapted for use by people with low levels of education and digital literacy;
- Continuous monitoring by accessing patient performance records and graphs.

## Work to be done by the Follower SME

- Design user-friendly interfaces ensuring usability.
- Integrate assessment tools.
- Accessibility, to guarantee that the interfaces are adapted to be used by people with low digital literacy and with disabilities, including requirements about colour contrast, fonts;
- Responsive design, to assure that the interfaces adapt to different types of screens providing a consistent user experience across platforms;
- Usability testing, participating in the evaluation of the effectiveness and usability of the interface design;
- Document design standards, namely creating design specifications, style guides and other relevant documentation
- Create educational videos to promote health literacy in active aging.

## Challenge 2

### RecoMed

*Boost medication safety in Plastic Surgery and Burns department.*

- Improve the accessibility and update of the medication list of patients, avoiding communication errors and negative consequences in terms of patient safety.
- Ensure accurate and complete knowledge of a patient's medication information in order to prevent medication-related incidents at all transition points in healthcare interfaces.

# MediRecon

Streamlining the process of obtaining and updating patients' medication lists.

## Description of proposed solution

- MediRecon is a digital solution designed to address the challenges associated with medication management and reconciliation.
- Key features:
  - Medication List Acquisition from multiple sources (EHRs, pharmacy database).
  - Prescription Compatibility Check, identifying potential discrepancies.
  - Discrepancy Resolution, generating a report with the identified inconsistencies and recommended solutions.
  - Integration with Hospital Systems, allowing for real-time updates and synchronization of patient medication information.
  - Alert Notifications, when potential discrepancies are detected.
  - Database Harmonization, a centralized component specifically designed to collect and manage adverse drug reactions (ADRs) recorded across various systems at CHUC.

## Requirements covered by VirtualCare (Leading SME)

- Technical Requirements of Data and Information Sources
- Interoperability development
- Functional Requirements
- Data Aggregation and Intelligence Development
- Pilot and Implementation Strategy
- Desired Outcomes and Impact Measurement





## Work to be done by the Follower SME

- The primary objective of the Follower SME is to ensure that MediRecon is fully prepared and compliant with regulatory requirements for certification as a medical device.
- Regulatory strategy:
  - Develop a comprehensive strategy for medical device certification, including identifying the specific standards and regulations applicable.
- Documentation:
  - Prepare all necessary documentation required for certification, such as the Device Master Record (DMR), risk management files, and clinical evaluation reports.
- Quality Management System:
  - Assist in the implementation of a Quality Management System compliant with ISO 13485, focusing on the development, production, and post-market surveillance of medical devices

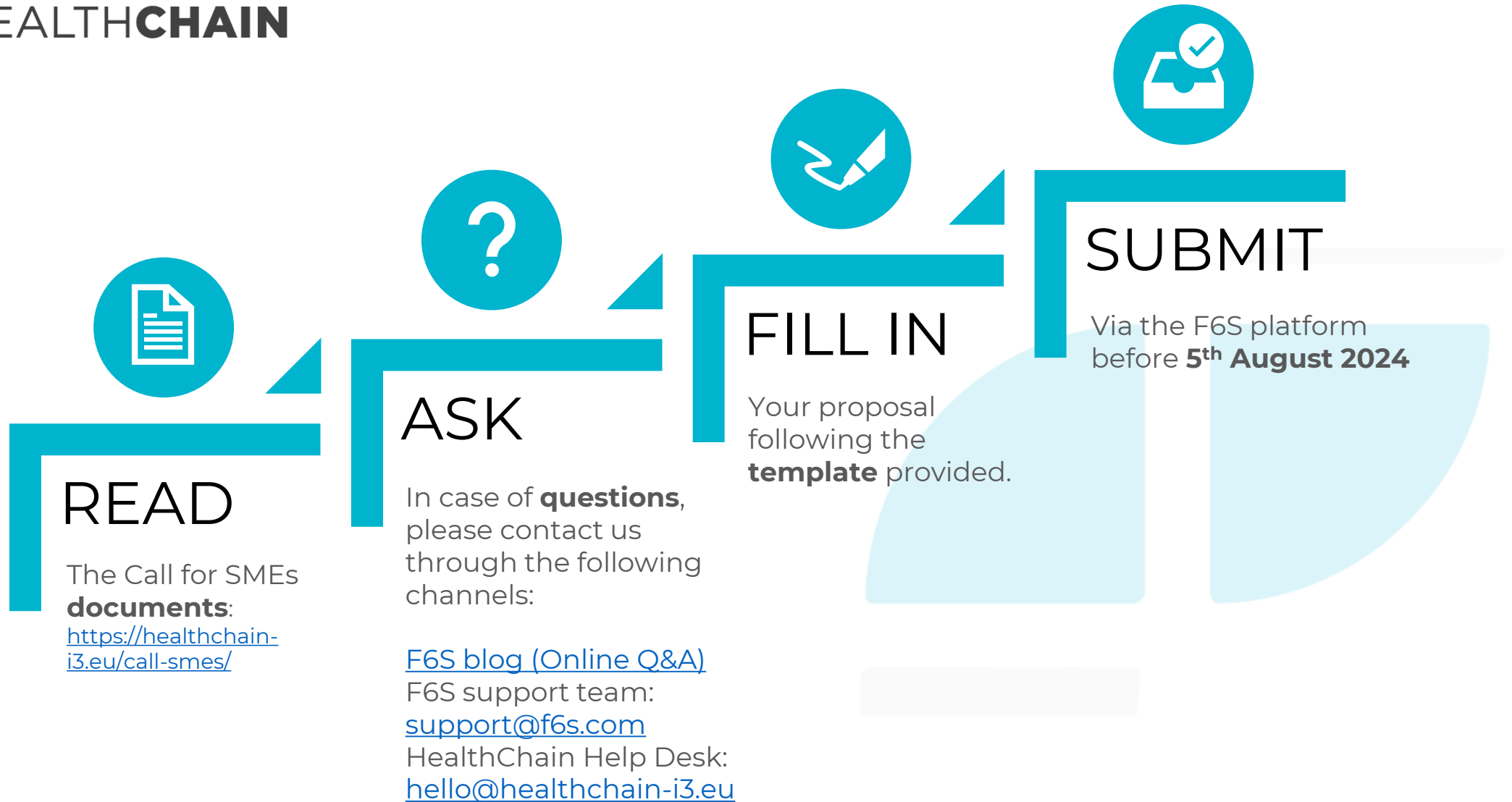
## Work to be done by the Follower SME

- Testing and validation:
  - Oversee the execution of comprehensive testing protocols to validate the safety, functionality, and performance of the MediRecon system under various conditions.
- Audit and Inspection Preparation:
  - Prepare and support the MediRecon team for audits and inspections conducted by regulatory authorities or certification bodies.
- Certification Submission and Liaison:
  - Coordinate the submission of all necessary applications and documents to the appropriate regulatory bodies.
  - Act as the primary liaison between the MediRecon project team and regulatory agencies.

# NEXT STEPS

03





# Q&A

04



# Thank you!

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