

## I2M MATCHMAKING: SELECTED NEEDS

### HOME CONTROL

#### *Chronic Care home remote control and assistance for elderly Region Tuscany (Italy)*

##### Context

Based on all demographic trends the Tuscan population, like whole Italy, is rapidly aging. As a result, also population' health needs are rapidly changing, representing a major challenge for the regional health system. There is a growing proportion of the elderly, especially those with chronic conditions, who require a new organizational and care plan.

It is necessary to spread health care from the hospital to the territory and to the single homes, maintaining the effectiveness, efficiency and accuracy of primary care at home.

Tuscany is determined in implementing models for the best prevention and treatment of chronic diseases. In accordance with the recently signed agreement with family General Practitioners' association (2018), all GPs must join a Functional Territorial Aggregation - FTA formed by 30 GPs, one of them acting as a coordinator. The Regional Agency for Health Care with its Territorial Observation Program (PrOTer) makes specialised reports on prevalence, treatment pathways, outcomes and costs for main chronic diseases, with a special focus on long-term care services and rehabilitation programs for elderly people. Administrative data are used to develop algorithms to better identify chronic patients and set up health-monitoring indicators in primary care assistance. 14 chronic diseases are currently monitored with 417 specific indicators.

##### Need description

Tuscany healthcare system is looking for a remote monitoring solution for home assistance (in particular for frail, lonely or chronically sick patients). The system should be able to collect and monitor the vital parameters of the patient, to be sent and analysed by the healthcare provider.

Identified challenges include:

- Generation and management of alerts to reduce admissions by predicting adverse events. Alerts should be managed so they are effective in the long run by, for example, not overloading health professionals
- Identification of the most urgent social and health needs to best allocate human and economic resources.
- Improvement of pharmacological treatment Increase collaboration and integration of care across the organization.

The remote monitoring system must be able to integrate with the current chronic disease management approach for lonely elderly people, allowing elderly patients to remain inside their

domestic and family environment and avoiding unnecessary hospitalizations and access to medical services.

The initial focus is the frailty linked to chronic health conditions. The monitoring system must be extremely simple to use for an elder, and should easily integrate into the regional FTA aggregation system.

The proposed solution should help reducing:

- risks related to medical complications or other unfavourable results,
- use of hospitals or nursing home for the elderly,
- unnecessary patient mobility,
- waiting lists for medical services

Every new technological solution must be able to interact with the PrOTer Programme.

## About us

**The Tuscany Regional Health Authority** provides central governance and plans appropriate synergies and integrations between the Local Health Authority and the University Hospital located in the same sub-region. Such governance model ensures primary and social care, supporting community health services and home care, extending its focus to personalised care according to the population specific healthcare needs. The core innovation of our model is that all the 26 health regional districts become responsible for planning health services in their area, acting through the new organizational tool of “inter-company “ Departments.

## Commitment to fund this innovation

The Tuscany Region has a strong commitment in intensifying welfare care, including care and protection of frail elderly people.

In 2016, Tuscany invested € 4.700.000 in the implementation of his Health initiative model. It also funded with a €9.900.000 a specific regional agreement with GPs for promoting their participation in the FTAs. In the same year, it also funded a call for projects on healthcare continuity from hospital to territory in order to create a standardised multi professional module. The beneficiaries are disabled people aged 65+ years with temporary limitation of autonomy or at risk of limitation within 3 weeks after hospital discharge. The aim of the call was to promote the establishment of the Hospital-Territory Continuity Agency (ACOT). The call, in the framework of European Social Fund - Regional Operational Program, has been funded with a total of € 9,000.000 provided by individual vouchers.

With Resolution No. 805 of July 24th 2017, the Tuscany Region approved the development of a project "Evaluation project of the Territorial TELEmonitoring of Chronicity - TEL.TE.C ". This project aims to introduce and evaluate the impact of innovative economic and organizational management of chronicity. The project involves the collaboration of the FTAs which will make healthcare staff available. TEL.TE.C will be based on the use of advanced telemetry tools customized for the monitoring of the chronic patient and the compliance with drug therapy.