



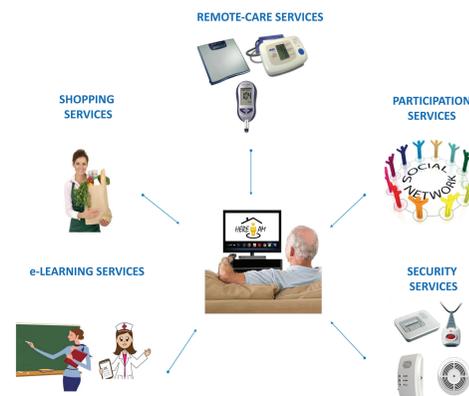
## An interoperable platform for self care, social networking and managing of daily activities

The aim of HEREiAM is to help older adults to stay longer and independent at home by providing an innovative user-friendly technology, accessible by means of TV set, able to support them during daily life activities.

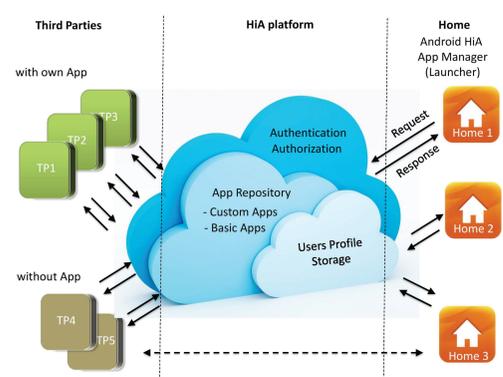
HEREiAM will design, develop and evaluate an integrated, smart platform which will allow **elders to have access to a set of services directly from their TV set** at home. HEREiAM system is targeted to self-sufficient elderly people who want to be independent as long as possible in the management of personal and social tasks.

The system will provide them different kind of services, covering different aspects of their lives: **healthcare services** (e.g. Remote monitoring,...), **security services** (e.g. personal alarm system,...), **welfare services** (e.g. Communication services,...) and **comfort services** (e.g. Shopping, games,...).

HEREiAM platform has been designed as a **flexible system**, defining an easy interface for external service providers who want to expose their services through the HEREiAM platform.



The Consortium includes partners from Italy, Belgium and The Netherlands, and the user requirements collection phase has been carried out in all the involved countries, using interviews and questionnaires. Existing platforms and design alternatives have been compared to achieve the optimal solution for implementation, in order to meet the requirements.

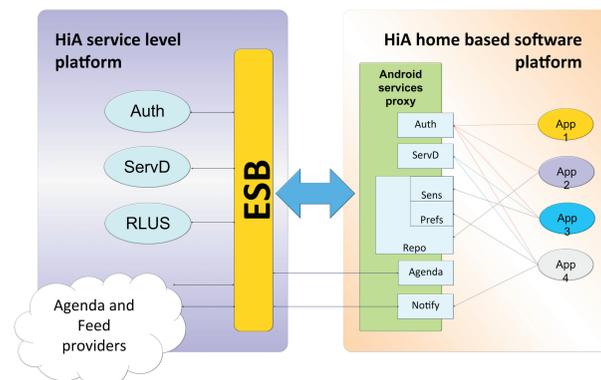


The HEREiAM platform, based on a Service Oriented Architecture, is composed by three main components: **Home based Hardware (HBH)**, **Home based Software (HBS)** and **Service Level Platform (SLP)**.

- **HBH** will be a **digital TV set-top-box (STB)** based on **Android platform**, able to interact with medical device (such as a personal body scale, sphygmomanometer, blood glucometer), sensors (barcode reader, fall detectors, alarms), input devices (wireless keyboard, remote controller).
- **HBS** will provide to users **easy access to remote services** using charming interfaces realised as Android apps, maintaining the same look & feel to avoid troublesome passages among apps.
- **SLP** will provide to third parties a **set of services** to let them expose their Apps on the users' TV, and will provide also its own custom apps. Basic services are going to be developed according to HSSP (Healthcare Service Specification Program) standard, extended to a non-clinical domain.

The box on the left represents the **SLP platform**, where services are published in a mediated manner by an enterprise service bus (ESB). Other services published in the "cloud" (e.g. Agenda, Shopping, ...) will have a very lightweight mediation by the ESB that could be a sort of pass through configuration.

The box on the right represents the **HBS platform**. The invocation of services published by the HEREiAM service level platform, will be wrapped by an Android Service Proxy application. It will expose a set of APIs for accessing to functionality implemented by a set of services published by the server side.



The Consortium will cover project activities as follows:

- Technical partners: Department of Electrical and Electronic Engineering of University of Cagliari (Italy), the coordinator, with the help of the subcontractor TechOnYou (Italy), Dedalus (Italy) and Teamnet (Romania) develop the three components of the platform, while SKYLOGIC (Italy) gives the technical resources for reaching all the European population and paves the way for an extension of the results to other technologies
- Remedus (Belgium), Stichting Smart Homes (The Netherlands) and Kritayuga (Belgium) bridge technology and marketing part of the project with user-needs
- Municipality of Cagliari (Italy), Remedus and KempenLIFE (The Netherlands) will test the solution in three different countries.



And with the endorsement of



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