

USEFIL

USEFIL is a collaborative research project funded by the European Union under FP7-ICT-2011-7.

The USEFIL project aims to address the gap between technological research advances and the practical needs of elderly people by developing advanced but affordable in-home unobtrusive monitoring and web communication solutions.

USEFIL intends to use low cost "off-the-shelf" technology to develop immediately applicable services that will assist the elderly in maintaining their independence and daily activities.

Because the system will be "software driven," based on open source platforms, applications can be easily added or subtracted with no real limit to the overall number of services offered.

USEFIL Consortium



TPVISION



*Unobtrusive
Smart
Environments
For
Independent
Living*

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ICT Collaborative Project

INTRODUCTION



The number of elderly citizens in EU as well as the total number of seniors living alone is growing leading to increased demands placed on society's care and medical services. Although ICT technologies can increase safety, independence and quality of life of elderly people while staying at home the adoption rates of such advancements show that these are still undesired by the majority of the population.



Concept of the USEFIL Project

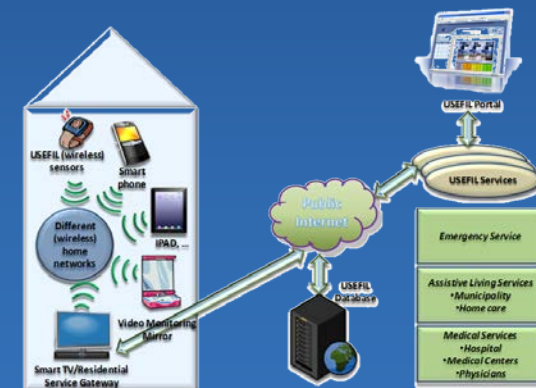
USEFIL Main Objectives

- To generate ease of use systems and services by developing a simplified approach using ease of use unobtrusive low cost ICT solutions. The provided services will be more adaptable to individual needs and preferences.
- To generate useful systems and services (for end users and main stakeholders) by supporting the elderly in maintaining their social activities, supporting Mobility, Providing a new health care paradigm redefining the way of treating elderly people and managing health care services and finally by promoting cost and time effective health care solutions for end users and carers.

USEFIL project will develop a platform, which will consist of the following systems/modules:

- An unobtrusive in nature wrist mobile unit prototype able to recognize daily activities and correlate with user profile information.
- Low cost video cameras equipped with wireless communication devices for monitoring emotional and physiological parameters.
- A "smart" Web TV device within the home environment.
- Demo applications for the systems.
- Social awareness applications
- Decision support system for the sensor's information processing.

USEFIL project intends to provide guidelines for developers to generate applications for the ageing population.



USEFIL

Unobtrusive Smart Environments For Independent Living

UNOBTRUSIVE SMART ENVIRONMENTS FOR INDEPENDENT LIVING

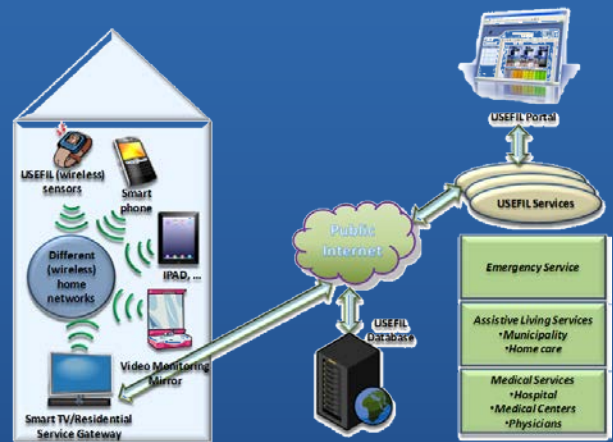
ICT COLLABORATIVE PROJECT

THE USEFIL PROJECT AIMS TO ADDRESS THE GAP BETWEEN TECHNOLOGICAL RESEARCH ADVANCES AND THE PRACTICAL NEEDS OF ELDERLY PEOPLE BY DEVELOPING ADVANCED BUT AFFORDABLE IN-HOME UNOBTRUSIVE MONITORING AND WEB COMMUNICATION SOLUTIONS.



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services. Although ICT technologies can increase safety, independence and quality of life of elderly people while staying at home the adoption rates of such advancements show that these are still undesired by the majority of the population.



Social Objectives

- To support the elderly in maintaining their social activities exploiting unobtrusive low cost ICT solutions..
- To embrace a paradigm shift in health responders and emergency assistance.
- To provide services more adaptable to individual needs and preferences.
- To promote "ageing well" and prevention concepts and reduce both costs and time for carers.
- To develop systems and services that their installation will not require retrofitting of the residence of the elderly people.



“USEFIL project intends to use low cost advanced devices to develop immediate applicable unobtrusive in home monitoring systems and services that will assist the elderly in maintaining their independence and their daily activities.”



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