

## Project Overview

MELCO aims the development of a Virtual Mobile Elderly Living Community system integrating innovative personalized ICT based socialization and monitoring services and making use of state-of-the-art mobile wireless technologies to improve the quality of life of elderly people, by stimulating and prolonging independent and active living in an outward environment.

MELCO target group is the big group of healthy elderly or with light physical or psychological health problems who are self-supporting, able to move around, and can still contribute actively. They find pleasure in getting help or stimulation to be active in an outward environment.



### Host Organization University of Cyprus



### Participating Organizations Cyprus University of Technology



### Cosine Consultants LTD



### IPN - Instituto Pedro Nunes



### Elderly Social Service Center, Cyprus



### Contact Information

George Samaras  
[cssamara@cs.ucy.ac.cy](mailto:cssamara@cs.ucy.ac.cy)  
Eleni Christodoulou  
[cseleni@cs.ucy.ac.cy](mailto:cseleni@cs.ucy.ac.cy)  
<http://www.cs.ucy.ac.cy>

# MELCO

MELCO PROJECT

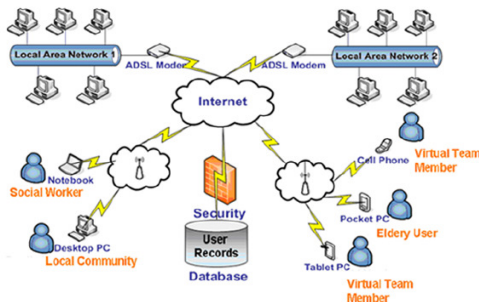
<http://www.melco.cs.ucy.ac.cy>

*Funded by  
Research Promotion Foundation*



## Project Description

MELCO is an Internet (web) based system allowing exchange of information through fast and reliable wireless broadband networks such as Wifi, GPRS and 3G. It employs a central web based database for storage and processing of information, and also a local database is kept on each mobile device, guaranteeing thus continuity of system operation. Uniform access to the common database is achieved via the Virtual Team software which is device access independent from any time and any place.

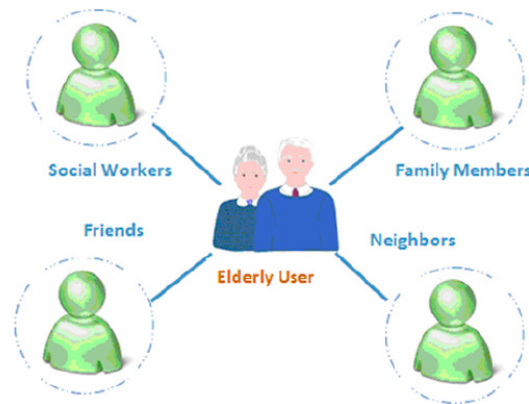


*MELCO Architecture Overview*

Four main care needs categories have been identified and analyzed as regard the elderly socialization and monitoring needs and requirements:

- ✓ Personal Interests and Activities
- ✓ Information and Learning
- ✓ Care and Wellness
- ✓ Mobility.

## MELCO Social Living Community Network



MELCO builds an innovative social living community web based network around the elderly enabling effective management and collaboration of various Social Care Teams and integrating ICT based socialization and monitoring services for continuous care provision. The teams are virtual (they assist and provide care to the elderly without being together physically), dynamic (care is provided by getting different people together as needed and chosen) and collaborative. Development of a practice-oriented social community model that places the elderly person in the centre of the services, making him both a consumer and producer of assistance.

## MELCO innovation

- ✓ Development of a highly innovative Mobile Elderly Living Community Network integrating ICT based services addressing different care categories, making use of state-of-the-art mobile wireless technologies, giving an answer to the research challenge of how ICT technologies can support in an efficient and effective manner the socialization and daily activity monitoring of the elderly at any time in an outward environment.
- ✓ Creation of innovative knowledge in the area of personalized support for the elderly giving new insight in how integrated personalized ICT services can support day to day activities and improve quality of life for each one of the related stakeholders (that is, not only the elderly but also their families, friends, etc.).
- ✓ Adaptive user profiling techniques and interfaces are used to adapt the elderly preferences and capabilities regarding the provision of services. Behavior analysis technologies are used to adapt social relationships and contexts of the elderly people as they age.