

eWall for Active Long Living

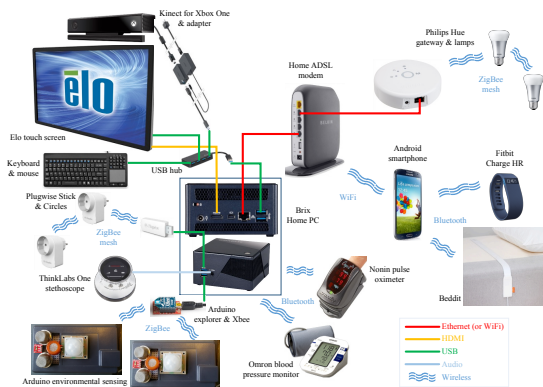
European Commission FP7-ICT-2013-10 Cooperation, Objective 2013.5.1: Personalised Health, active ageing and independent living (c) – Grant agreement no: 610658, eWALL Project
Large-scale integrating project (IP)

Start date: November 2013, Duration: 36 months
Total Funding: 5.980.000 € AIT's Funding: 373.750 €

Project Summary

Independent living of senior citizens is one of the main challenges linked to the ageing population, due to the impact on: (a) the life of the elderly people, (b) the national health systems, (c) the insurance companies, (d) the relatives and (e) the care-givers. Senior citizens may suffer from a number of diseases, including the decline in cardiopulmonary conditions, weaker muscle functions and a declined neuromuscular control of the movements, which result in a higher risk of fall and a higher vulnerability for cardiovascular and pulmonary diseases. With respect to cognitive functions, senior citizens may suffer from a decline of memory function, less ability to orientate and a declined ability to cope with complex situations. Mild dementia is another disease affecting this population, which requires either the institutionalization or the constant support from care-givers. eWALL will be an affordable, easy-to-install prefabricated wall that can be mounted on an existing wall and includes, into the background, all the ICT

technology needed to enable a number of services for the senior citizen to cover the major ontologies of Active and Healthy Ageing. The project will carry out high-risk and multidisciplinary research and will have a large-scale demonstrator exercise for validating the concept with solid clinical evidence. This will include technical-, user- and legal-evaluation, to measure with advanced tools and methodologies the impact on the QoL. The eWALL system will extend the state-of-the-art of Assistive Platforms and will significantly increase the independent living of seniors.



AIT's Role

Leader of the Workpackage on devices and processing algorithms. Main contributions on Smart home design (devices, signal processing algorithms & metadata handling) and user applications (web and mobile).

Project partners

AAU, AIT, RRDTU/e, HP, ENT, IRCCS, CURE, UPB, UKIM, UOM, TUS, UNIZG-FER, STELLAR, ATE.

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