

**HORIZON
2020**

Enabling Robot and assisted living environment for Independent Care and Health Monitoring of the Elderly

Results

Project Information

ENRICHME

Grant agreement ID: 643691

[Project website](#) 

DOI

[10.3030/643691](https://doi.org/10.3030/643691) 

Project closed

EC signature date

3 February 2015

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1 March 2015

End date

28 February 2018

Funded under

SOCIETAL CHALLENGES - Health, demographic change and well-being

Total cost

€ 3 990 002,50

EU contribution

€ 3 990 002,50

Coordinated by


ALTHEA ITALIA SPA



This project is featured in...



CORDIS provides links to public deliverables and publications of HORIZON projects.

Links to deliverables and publications from FP7 projects, as well as links to some specific result types such as dataset and software, are dynamically retrieved from [OpenAIRE](#) .

Deliverables

Other (2)

[ENRICHME Networked Care Platform](#)

The functioning ENRICHME platform is delivered on M17. Revised version will be delivered on M28.

[Implementation of services for assisted living](#)

The Ambient Intelligence software of the ENRICHME system is delivered on M17. Revised version will be delivered on M28.

Documents, reports (9)

[Report on testing in AAL laboratories](#)

This report will describe the testing activities and summarize the achievements, findings and analysed results of these testing activities.

[User manual](#)

User manual with operational flow will be given to all the people involved in the study.

[Ethical and legal issue report](#)

It will explore all the relevant ethical and legal issues at national and international level. It will contains also the legal documents for users involvement and the template of informed consent form and its translations)

[Plan for the exploitation and dissemination of the results](#)

The document will be yearly reviewed and updated with plan and strategies in exploitation and dissemination activities. Revised version is delivered on M25. Final version is delivered on M36.

[DMP report](#)

The agreed data Management procedure will be described at M6. At month M20 is planned a document revision. Revised version is delivered on M26.

[Testing activities protocol](#)

It contains the testing activities protocol, the informed consent and legal documents to be submitted to the local ethical committee for users' involvement in testing activities. It is delivered on M7. Revised version will be delivered on M25.

[ENRICHME User Requirements Report](#)

It will report the user abilities, preferences and needs identifying the possible uses cases.

[Validation report](#)

It will describe the validation activities and summarize achievements. The results of validation activities are analysed.

[Ethical and legal issues final report](#)

Starting from D1.2, it contains all the relevant updates in matter of ethical and legal issues at national and international level. It describes also the actions done throughout the project to comply and respect them. If any, it will contain also integrative documents required by the local ethical committee related to the clinical protocol, patient information, patient consent, privacy and their approval.

Demonstrators, pilots, prototypes (2)



[ENRICHME prototypes](#)

2 ENRICHME prototypes will be delivered by PAL for the testing activities in AAL facilities on M26.

[Release of ENRICHME systems](#)

The system improvement done in parallel with the testing in AAL laboratories will allow the release of 6 complete ENRICHME systems to be used in the validation phase.

Websites, patent fillings, videos etc. (2)

[Production of ENRICHME video](#)

A professional demo video describing the system and the explanation of how the system works and the anticipated benefits to the society will be produced.

[ENRICHME logo and website](#)

An ENRICHME recognizable logo will be published. Friendly website will be a public one with private access to confidential documents. The initial version of the project website will include at least the project's Research Objectives and contact details. ENRICHME website will be continuously enhanced throughout the project to include public downloadable results and links to related news and initiatives.

Publications

Conference proceedings (26)

News Application Adaptation based on User Sensory Profile

Author(s): Agrigoroaie, Roxana; Ciocirlan, Stefan,; Tapus, Adriana

Published in: <https://hal-ensta.archives-ouvertes.fr/hal-01591718>, Issue 1, 2017

Publisher: Springer

[The EnrichMe Project](#)

Author(s): Claudia Salatino, Valerio Gower, Meftah Ghrissi, Adriana Tapus, Katarzyna Wieczorowska-Tobis, Aleksandra Suwalska, Paolo Barattini, Roberto Rosso, Giulia Munaro, Nicola Bellotto, Herjan van den Heuvel

Published in: 2016, Page(s) 326-334

Publisher: Springer International Publishing

DOI: 10.1007/978-3-319-41264-1_45

[Social Facilitation in a Game-Like Human-Robot Interaction Using Synthesized Emotions and Episodic Memory !\[\]\(c1168d6a8b365d11e842ece304635fa7_img.jpg\)](#)

Author(s): Arturo Cruz-Maya, François Ferland, Adriana Tapus

Published in: 2015, Page(s) 164-173

Publisher: Springer International Publishing

DOI: 10.1007/978-3-319-25554-5_17

[Reliable stress measurement using face temperature variation with a thermal camera in human-robot interaction](#)

Author(s): Mihaela Sorostinean, Francois Ferland, Adriana Tapus

Published in: 2015 IEEE-RAS 15th International Conference on Humanoid Robots (Humanoids), 2015, Page(s) 14-19, ISBN 978-1-4799-6885-5

Publisher: IEEE

DOI: 10.1109/HUMANOIDS.2015.7363516

[THE ROBOTS IN ELDERLY CARE](#)

Author(s): Mirosława Cylkowska-Nowak

Published in: 2nd International Multidisciplinary Scientific Conference on Social Sciences and Arts SGEM2015, 2015, ISBN 9786-197105445

Publisher: Stef92 Technology

DOI: 10.5593/SGEMSOCIAL2015/B11/S2.130

[Social activity recognition based on probabilistic merging of skeleton features with proximity priors from RGB-D data](#)

Author(s): Claudio Coppola, Diego R. Faria, Urbano Nunes, Nicola Bellotto

Published in: 2016 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2016, Page(s) 5055-5061, ISBN 978-1-5090-3762-9

Publisher: IEEE

DOI: 10.1109/IROS.2016.7759742

Active Human Detection with a Mobile Robot

Author(s): Mohamed Heshmat, Manuel Fernandez-Carmona, Zhi Yan, Nicola Bellotto

Published in: 2017

Publisher: UK-RAS Conference on Robotics and Autonomous Systems

Entropy-based Abnormal Activity Detection Fusing RGB-D and Domestic Sensors

Author(s): M. Fernandez-Carmona, S. Cosar, C. Coppola and N. Bellotto

Published in: 2017

Publisher: IEEE

[Improving User's Performance by Motivation: Matching Robot Interaction Strategy with User's Regulatory State](#)

Author(s): Arturo Cruz-Maya, Roxana Agrigoroaie, Adriana Tapus

Published in: 2017, Page(s) 464-473

Publisher: Springer International Publishing

DOI: 10.1007/978-3-319-70022-9_46

Automatic Detection of Human Interactions from RGB-D Data for Social Activity Classification

Author(s): C. Coppola, S. Cosar, D. Faria and N. Bellotto

Published in: 2017

Publisher: IEEE

[A Robotic Solution for Assisting People with MCI at Home: Preliminary Tests of the ENRICHME System](#) 

Author(s): Salatino C., Pigini L., Van Kol M.M.E., Gower V., Andrich R., Munaro G., Rosso R., Castellani A.P., Farina E.

Published in: 2017

Publisher: IOS Press

DOI: 10.3233/978-1-61499-798-6-484

Contactless Physiological Data Analysis for User Quality of Life Improving by Using a Humanoid Social Robot

Author(s): Agrigoroaie, R. and Tapus, A.

Published in: 2017

Publisher: Springer

Learning Users' and Personality-Gender Preferences in Close Human-Robot Interaction

Author(s): Cruz, A and Tapus, A

Published in: 2017

Publisher: IEEE

Detecting Deception in a Human-Robot Interaction Scenario

Author(s): Agrigoroaie, R. and Tapus, A.

Published in: 2017

Publisher: ACM

Crowd Sourcing Approach Behavior Control

Author(s): Ferland, F., and Tapus, A.

Published in: 2017

Publisher: IEEE

ENRICHME Integration of Ambient Intelligence and Robotics for AAL

Author(s): N. Bellotto, M. Fernandez-Carmona and S. Cosar

Published in: 2017

Publisher: AAAI 2017 Spring Symposium

Opinions about robots in care for older people

Author(s): Tobis S., Salatino C., Tapus A., Suwalska A., Wieczorowska-Tobis K.
Published in: 2017
Publisher: SGEM

[Volume-based Human Re-identification with RGB-D Cameras](#) 

Author(s): Serhan Cosar, Claudio Coppola, Nicola Bellotto
Published in: Proceedings of the 12th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications, 2017, Page(s) 389-397, ISBN 978-989-758-225-7
Publisher: SCITEPRESS - Science and Technology Publications
DOI: 10.5220/0006155403890397

Teaching Nutrition and Healthy Eating by using Multimedia with a Kompai Robot: Effects of Stress and User's Personality

Author(s): Cruz, A., and Tapus, A.
Published in: 2016
Publisher: IEEE

The ENRICHME Project: Lessons Learnt from a First Interaction with the Elderly

Author(s): Agrigoroaie, R., Ferland, F., and Tapus, A.
Published in: 2016
Publisher: Springer

Influence of user's personality on task execution when reminded by a robot

Author(s): Cruz, A., and Tapus, A.
Published in: 2016
Publisher: Springer

On-Line Inference Comparison with Markov Logic Network Engines for Activity Recognition in AAL Environments

Author(s): Fernandez-Carmona, Manuel and Nicola, Bellotto
Published in: 2016
Publisher: IEEE

[RFID-based Object Localisation with a Mobile Robot to Assist the Elderly with Mild Cognitive Impairments](#) 

Author(s): Broughton, George and Krajnik, Tomas and Fernandez-carmona, Manuel and Cielniak, Grzegorz and Bellotto, Nicola
Published in: 2016
Publisher: IOS Press
DOI: 10.3233/978-1-61499-690-3-366

[Learning temporal context for activity recognition](#) 

Author(s): Coppola, Claudio and Krajnik, Tomas and Duckett, Tom and Bellotto, Nicola

Published in: 2016

Publisher: IOS Press

DOI: 10.3233/978-1-61499-672-9-107

System Integration for the ENRICHME Project: A Service Robot for Care Facilities for the Elderly

Author(s): Ferland, F. and Tapus, A

Published in: 2016

Publisher: Bailar WS as part of RO-MAN 2016

Applying a 3D qualitative trajectory calculus to human action recognition using depth cameras

Author(s): Claudio Coppola, Oscar Martinez Mozos, Nicola Bellotto

Published in: 2015

Publisher: IEEE/RSJ IROS Workshop on Assistance and Service Robotics in a Human Environment

Peer reviewed articles (5)

[Occupational Therapy Students' Perceptions of the Role of Robots in the Care for Older People Living in the Community](#) 

Author(s): Sławomir Tobis, Mirosława Cylkowska-Nowak, Katarzyna Wieczorowska-Tobis, Mariola Pawlaczyk, Aleksandra Suwalska

Published in: Occupational Therapy International, Issue 2017, 2017, Page(s) 1-6, ISSN 0966-7903

Publisher: Whurr Publishers Ltd.

DOI: 10.1155/2017/9592405

[What has been missed for predicting human attention in viewing driving clips?](#) 

Author(s): Jiawei Xu, Shigang Yue, Federica Menchinelli, Kun Guo

Published in: PeerJ, Issue 5, 2017, Page(s) e2946, ISSN 2167-8359

Publisher: PeerJ

DOI: 10.7717/peerj.2946

[P-390: Robots in the care for elderly – defining users requirements](#) 

Author(s): K. Wieczorowska-Tobis, A. Suwalska, M. Cylkowska-Nowak, S. Kropinska, S. Tobis, A. Tapus, C. Salatino, H. van den Huevel, P. Barattini, M. Ghrissi, R. Rosso

Published in: European Geriatric Medicine, Issue 6, 2015, Page(s) S136, ISSN 1878-7649

Publisher: Elsevier Masson

DOI: 10.1016/S1878-7649(15)30487-3

Enriching elderly care

Author(s): N. Bellotto

Published in: Horizon 2020 Projects Portal, 2016, ISSN 2054-2631

Publisher: Pan European Networks

Opinie osób starszych na temat robota społecznego i jego zastosowania

Author(s): Sławomir Tobis, Jacek Suwalski

Published in: GERIATRIA, Issue 9, 2015, Page(s) 267-273, ISSN 1898-7486

Publisher: Wydawnictwo Akademia Medycyny

Book chapters (1)

The use of robots for a positive modification of ageing proces, on the example of the ENRICHME project

Author(s): Tobis S., Suwalska A., Cylikowska-Nowak M., Wieczorowska-Tobis K.

Published in: Starzenie się a może długowieczność, 2017

Publisher: Uniwersytet Zielonogórski

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