

January 2018

## eWare Newsletter

eWare will be present:

- January 23-24th EKTG (European Knowledge Tree Group for eHealth) meeting in London ;
- May 23-25th ICIC18 - International Conference on Integrated Care in Utrecht;
- June 1st Supportin Health by Technology in Enschede
- And more....

The next consortium meeting will be on May 15-16th in Rotterdam

### eWare PARTNERS



### eWare info

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AAL-eWare



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### Issue

«Why the community needs of eWare?»

### Market Potential

In Europe different forms of dementia are effecting more than 8.7 million people. 70% live at home: 6.1 million people. Of these population 30% is living alone, meaning circa 1.8 million people in the current situation which represents the EU-market for eWare solution. The number is expected to rise to approximately 6 million in 2060.

Project number:  
AAL-2016-071



## Welcome from the coordinator

**Henk Herman Nap:** « I'm glad to present the project eWare, This project was born as an idea of some of the consortium partners to develop a friendly platform to help people with dementia and their caregivers during the daily life. For this reason, the choice to merge the social robot Tessa of Tinybots and the Sensara sensor network in the same ICT architecture has been realized with eWare.

eWare aim is to support people with dementia (in the mild to middle stage), living alone at home, to be independent, improving their wellbeing and reducing subjective stress of the patient community and their caregivers but also, to introduce the eco-system in to the market after 1 year of the project end bringing benefits to many stakeholders».

The main target groups are people with dementia and their informal carers. Additional target groups are professional caregivers and older people who want to live independently in their homes and avoid institutionalization as long as possible.



Early Morning Monitoring | Robotics Excellence



## eWare use case

Ronald turned 79 years old last week. His daughter Susan bought the eWare system for Ronald, which gives him some extra help at times that he needs it. It is not intrusive and has an intuitive and modern-looking interface, so Ronald likes having the eWare system in his home and using it. The interaction with the eWare-Tinybot called Tessa is also fun! On Monday morning Ronald wakes up when Tessa says: "Hi there, Ronald! Did you sleep well?" Ronald: "Well good morning! It was a great night; Tessa says: "Susan comes at 10 o'clock for a cup of coffee, you need to get into the shower and have some breakfast then!"

Ronald takes a shower and get dressed. He sees the newspaper and starts reading it in his armchair. The eWare-Lifestyle monitoring system recognized that Ronald has not opened the fridge and notifies Tessa.

Tessa: "Aren't you forgetting something, Ronald?"

Ronald: "What do you mean? Oh I feel a bit hungry... ah wait! I need to get some breakfast. Can you tell Susan that I will be a bit late, tessa?"

Tessa: "Of course, enjoy your meal!"

The eWare-system automatically informs Susan by explaining what happened in a calm and explanatory way.



## eWare at the Italian National Forum of Measurements

eWare was presented at the Italian National Forum of Measurements from 2 representatives: Prof. Gian Marco Revel and Prof. Lorenzo Scalise from Università Politecnica delle Marche (UNIVPM). The Forum was in Modena on September 2017 and the eWare poster was presented to show the importance of the measurement system at home for the ageing society. UNIVPM is also involved in a project called Health@Home funded by MIUR (Ministry of Instruction and Research) that now is in the phase of experimentation and data collection in 8 flats, in a town in Veneto region, where 13 older adults are daily monitored. The results of Health@Home are related to eWare because H@H integrates domotic and biomedical devices in the houses.



PROJECT HEALTH @ HOME

### On the Target

- People in an early to a middle stage of dementia;
- Frontotemporal demntia users;
- Caregivers;
- Impression on the robot
- Looks fine and adapts to the surrounding;
- Easy to use;
- For patients with hallucinations;



### Highlights From EIP on AHA

- AAL info day of the Call 2018 and the Consortium Building Seminar, 31 st January 2018 in Brussels;
- Conference of partners – February 27 – 28 th 2018 in brussels;

## eWare at the AAL FORUM 2017 in Coimbra

On the 2-4 of october 2017, eWare representatives from: Vilans, Univpm, Sensara and TerzStiftung took part at the AAL Forum in Coimbra, Portugal.

The Project has been presented at the poster session and during the workshop, *Better education and understanding adoption of AAL solutions in practice*, from the coordinator, Henk Herman Nap. A representative of Sensara participated to the debate during a Plenary session to demonstrate the value of the AAL solutions.



## eWare creative session



A fundamental part of eWare is the interviews with target groups. **Sandra Suijkerbuijk** is a representative for Vilans and she is responsible for the **eWare co-design**.

Sandra: «Brainstorming with dutch informal caregivers of people with dementia is important to understand the desired functionalities for the eWare system. Vilans and ZZGzorggroep made a fruitful creative session.»

## Some results

The first year of the project has already produced interesting results:

- 1) A list of the fundamental ADLs, to be monitored for dementia users;
- 2) Methodologies to individualize these ADLs with a simple sensor network and a social robot;
- 3) Services for the target groups;
- 4) Possible functionalities to be extracted from the available data;
- 5) The design of a tailored user-interface.



## CONSORTIUM MEETINGS

- The **kick-off meeting** of eWare was on June 6-7th 2017 at Vilans (Utrecht, Netherlands). During this meeting the first activities to develop the eWare architecture and define the pilot cases in Netherlands, Italy, Switzerland and Norway have been defined. With the kick-off meeting started also the dissemination activity of eWare.
- The **first eWare meeting** was made on December 12-13th 2017 at INRCA and UNIVPM (Ancona, Italy). This meeting was fruitful and lots of results came out, in particular, to build the eWare architecture and define the functionality of the eWare system.

## Interview with Wang Long Li, Robert A. Paauwe and Erik Hoogeveen from Tinybots



What does Tessa do?

«Tessa helps you, your partner, your friend, or your parents with their daily routines. You can schedule reminders via an app and Tessa will verbally announce these messages at the scheduled time. For example, Tessa could help you to remind you that it is the time to make lunch, that your family will visit later today, or that the care professional will be there at 14:00. tessa can also improve the mood by asking if she should play some nice music.»

How does Tessa work?

«Tessa works through an easy-to-use app that works on a smartphone, tablet or computer. In this app, you can schedule reminders and activities by typing simple text messages. When it is the scheduled date and time, Tessa will speak these messages with her friendly voice. These messages could be «it is time to lunch» or «did you take your medication?» but also «it's quiet here, would you like me to play some music for you?»



«Teresa, What do you think about the eWare system?»  
«I like it. I feel more safe at home and in contact with my family and friends»

AAL Joint programme Call  
AAL 2014-2020



Duration  
01 June 2017 – 31 May 2020



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