

# Managing active and healthy aging with use of caring service robots

<https://neurodegenerationresearch.eu/survey/managing-active-and-healthy-aging-with-use-of-caring-service-robots/>

## **Principal Investigators**

### **Institution**

### **Contact information of lead PI**

### **Country**

European Commission

## **Title of project or programme**

Managing active and healthy aging with use of caring service robots

## **Source of funding information**

European Commission Horizon 2020

## **Total sum awarded (Euro)**

€ 3,994,857

## **Start date of award**

01/02/2015

## **Total duration of award in years**

3.0

## **The project/programme is most relevant to:**

Alzheimer's disease & other dementias

## **Keywords**

### **Research Abstract**

MARIO addresses the difficult challenges of loneliness, isolation and dementia in older persons through innovative and multi-faceted inventions delivered by service robots. The effects of these conditions are severe and life-limiting. They burden individuals and societal support systems. Human intervention is costly but the severity can be prevented and/or mitigated by simple changes in self-perception and brain stimulation mediated by robots. The proposal is coordinated by the nursing unit of NUI, involves managers of the City of Stockport developing social care and community support programs to older persons, and also involves an important hospital in Italy pushing research boundaries in comprehensive geriatric assessment. Pilot activities and interaction with caregivers, older persons and stakeholders (within a standards based medical assessment methodology) is present from beginning to finish and provides a

user led design ethos. The proposal brings together the well-known Kompai platform and commercial footprint of ROBOSOFT, control expertise of RURobots, advances from the computer laboratory at CNR, and an innovative robot application development platform by Ortellio. Dedicated telecommunication (CNET) and exploitation experts (R2M) widen technical and market outreach potential. From this unique combination, clear advances are made in the use of semantic data analytics, personal interaction, and unique applications tailored to better connect older persons to their care providers, community, own social circle and also to their personal interests. Each objective is developed with a focus on loneliness, isolation and dementia. The impact centres on deep progress toward EU scientific and market leadership in service robots and a user driven solution for this major societal challenge. The competitive advantage is the ability to treat tough challenges appropriately. The path to market deployment by bringing Mario solutions to end users is clearly developed.

### **Lay Summary**

**Further information available at:**

#### **Types:**

Investments > €500k

#### **Member States:**

European Commission

#### **Diseases:**

Alzheimer's disease & other dementias

#### **Years:**

2016

#### **Database Categories:**

N/A

#### **Database Tags:**

N/A