Project Fact Sheet

Name of the project and acronym

EMILIO Increase sElf Management and counteract social IsoLatIOn using a vocal assistant enabled virtual concierge

Coordinator (company or organization):

Italian National Institute of Health and Science on Ageing – INRCA Mirko di Rosa

Duration (in months) of the project and starting date (format xx/xx/xxxx) :

30 months, starting from 01/02/2022

Partners:

Italian National Institute of Health and Science on Ageing	End-User	Italy	Web address
Solving Team SRL	SME	Italy	Web address
ICT Factory GmbH	SME	Switzerland	Web address
Erdmann Design AG	SME	Switzerland	www.erdmann.ch
Magicview	SME	Belgium Flanders	Web address
ePoint	SME	Belgium Flanders	Web address
Vulpia VZW	End User	Belgium Flanders	Web address

Partners participating without funding

Institute of Space Science, INFLPR Subsidiary	Research	Romania	Web address
Transilvania University of Brasov	University	Romania	Web address

Objective of the project (7 lines sharp -no more no less):

The **EMILIO** Project will enhance self-reliance and will counteract social isolation of elderly clients who live in an assisted facility.

It will manage a comprehensive set of webservices, supporting various use cases to increase their Comfort, Vitality and Safety.

Web services are delivered in an intuitive way, fit for use by the target audience. To this end, an IoT (Internet of Things) infrastructure is deployed in the premise that observes the client's Daily Activities and interacts vocally with the client when needed.

Project Overview (Including technology in use, end-users involvement – 12 lines sharp):

The challenge of the project consists in a complete system of management of the services that can be provided in an assisted living facility, via a single intereface – EMILIO – triggered by a vocal interface and via the analysis of the client's activities of daily living. EMILIO gives access to all available services. Example of linkable services are: as scheduling activities (e.g., physiotherapy, podiatry, courses, trips, social events etc)., daily life management (e.g., ambient temperature, level of lights etc.), telehealth (e.g., telemonitoring, telecare), specific management of problems related to the pandemic, tele-education (e.g., digital literacy). Users (primary, secondary e tertiary) will be involved in all phases of the design of the proposed system. Facilitating access to services and social contacts EMILIO Project is aiming to increase the possibility of self-management and provide an integrated and scalable service platform to counteract social isolation.

Expected results and impact (7 lines sharp):

The EMILIO project will deliver a new system of recognition of the needs of elderly people living in an assisted living facility, triggered by the combination of a vocal interface and the observation of daily activities. This input will communicate to the EMILIO platform, that will connect to relevant web services in an intuitive an simple way. The EMILIO platform will have a large impact on elderly, supporting them in the management of their daily activities and communicate with other people, loved and friends, in a simple way.
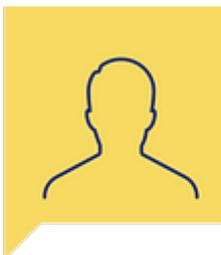
Total budget of the project:

3'215'079.00 Euros

Public Contribution (National + EC):

1'715'987.90 Euros

Images or graphic (Logo, images or photos showing the product or service):

Images or photographs (also graphics where needed) **are mandatory**. Send ftp link or esp file.

Website link(s):

www.emilio-aal.eu

Contact person (e-mail, phone, address):

Mirko di Rosa, m.dirosa@inrca.it, +390718004614

What Application Area does your project fits in? (Tick the appropriate boxes)

Health and Care	X
Living and Buildings	X
Leisure and Culture	X
Vitality and Abilities	X
Mobility and Transport	
Work and Training	
Safety and Security	X
Information and Communication	X

Technology in use:

Technology	Pick the ones that best suits your projects
1. **Sensor technology – provides electronic data for a wide range of AAL solutions[1]**	(X)
2. **Reasoning technology – aggregates, processes and analyses (sensor) data[2]**	X
3. **Acting technology – executes actions or operate components of the system, e.g. raises an alarm in case of an emergency[3]**	X

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[1] **Sensor technology** – provides electronic data for a wide range of AAL solutions - A sensor is a device or system which measures a physical, chemical, electrical, or optical quantity of a phenomenon and produces an output related to that quantity" (Borsella, et al., 2015).

[2] **Reasoning technology** – aggregates, processes and analyses (sensor) data (Reasoning technology components are able to aggregate, process and analyse, for example, sensor data and transform it into knowledge. Reasoning systems use algorithms to predict conditions and (emergency) situations or to classify information.

[3] **Acting technology** – executes actions or operate components of the system, e.g. raises an alarm in case of an emergency - Acting enabling technologies include robotics technologies and are implemented to support health and self-care and monitoring to

4. **Interacting technology – facilitates human-machine interactions**[4]	X
5. **Communicating technology – enables different components of a system to exchange information**[5]	X

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support the independent living of older people. This technology group includes the production of robot companions, collaborative robots and exoskeletons as well as devices that enable changing settings and automating alerts but 'do not move'.

[4] **Interacting technology** – facilitates human-machine interactions. Human-machine-interaction is a key aspect of AAL solutions, leveraging the accessibility and usefulness of the solution to the end-user. Interacting technologies can also be described as interface technologies and can be classified as: Spatial, Sensorial, Natural language, Multimodal.

[5] **Communicating technology** – enables different components of a system to exchange information. Communication technology refer to between systems and system components machine-to-machine communication.