

# IONIS PROJECT- SUPPORTING AUTONOMY OF PERSONS LIVING WITH DEMENTIA AT HOME

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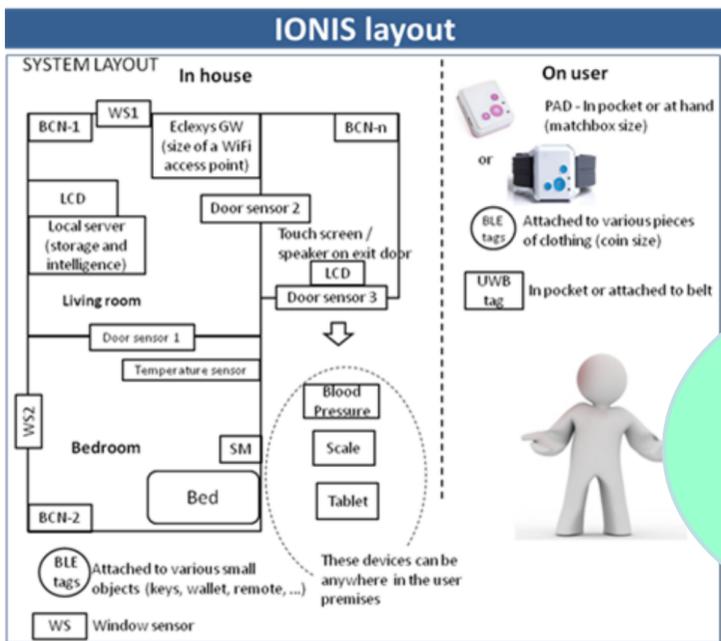
**Aims:** IONIS, a research project co-financed by AAL - Active and Assisted Living, is geared towards easing these issues for both patients and caregivers. The IONIS system is a solution for health style monitoring, home safety automation, and helping with personal agenda using reminders, alerts.

Why do people need to use the presented solution?

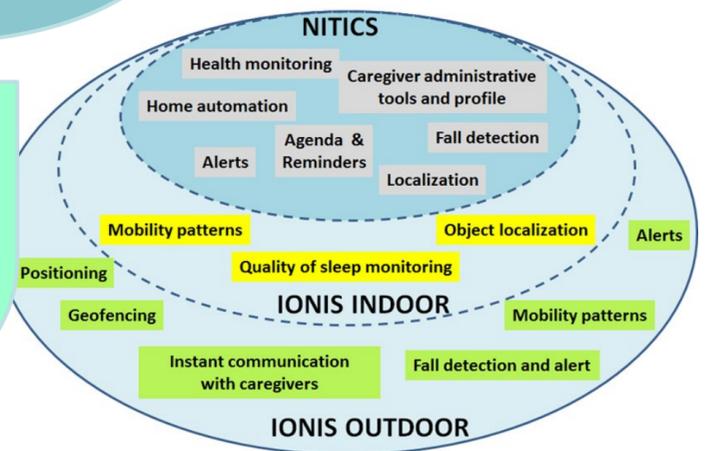
Why should delegates visit the stand with presented solution?

How far is the development/deployment process/phases – innovation cycle stage?

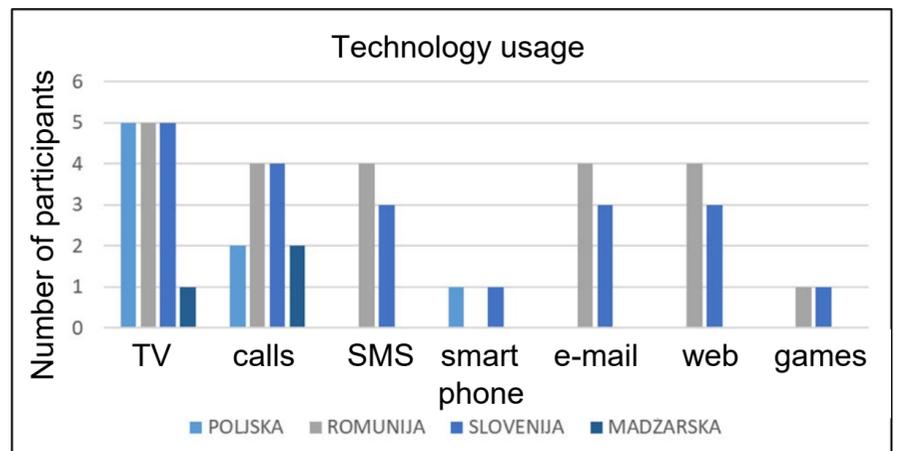
What are key challenges?



What kind of support is needed on the policy level to be able to bring the solution to the market/to scale it up?



**Methods:** When assessing the real needs of persons with mild dementia or MCI and their caregivers, we have conducted a multinational study involving 4 countries, 121 end users and 103 caregivers. The IONIS project is conducting pilots in homes of 10 persons with dementia in every participating country. The pilots consist in implementing intelligent assistive technology like smartwatch, smart bracelet, sleep sensor, smart scale, smart blood pressure sensor, and smart gateway, for monitoring ambient parameters, activities, health and safety.



**Results:** More than 60% of respondents would most likely or likely use assistive technologies to improve their life as a patient or as a caregiver. The other 40% were undecided. The first phase of pilots was successfully concluded in all 4 countries. End users and caregivers have tested and assessed individual devices. The gathered data is used for the development of procedures like wandering detection, sleep quality assessment, all to add new rule engines for the integrated smart platform. In the complete IONIS system piloting 20 end users from each country will participate. Pilots will include testing of indoor and outdoor solution integrated with IONIS platform providing WiFi reminders, alerts and reports on user's status and activities.

**Conclusions:** Development and implementation of the new assistive technologies can significantly contribute to maintaining the autonomy of users. They can increase safety and security in performing everyday activities in and outside of the persons' home.



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