

# CHS-Care

## Comprehensive monitoring and analysis of older persons' wellbeing

To assist Europe's growing older population, the ITEA project CHS-Care (Integrated Platform for the Provision of Health and Social Care in the Community) will develop an open, integrated and patient-centred remote monitoring platform that leverages wearables, sensors and artificial intelligence (AI) to empower caregivers, reduce hospitalisations and improve patient outcomes.

### Addressing the challenge

An estimated 30% of Europe's population will be 65 or older by 2050. As lifespans grow longer, the likelihood of comorbidities, injuries and chronic diseases increases. This places a tremendous strain on families and governments due to high costs and limited carers and care/nursing homes. Although platforms exist to support healthcare professionals, they address distinct aspects of the integrated care challenge, are not patient-centric, and often lack comprehensive security measures for sensitive health information.

### Proposed solutions

To support older individuals with healthier and more dignified lives, CHS-Care will develop a remote monitoring platform for private/public community health and social organisations, residential/nursing homes, domiciliary care agencies, and elderly individuals who would like to easily monitor their long-term health. This will feature an early warning capability that incorporates accurate, patient-friendly sensors and wearables to collect data, which will be continuously analysed by AI algorithms to provide present conditions and predicted outcomes. AI will also be used to prepare personalised, preventative care plans and explain them to the integrated team, which can then monitor or provide care. For security, the platform will, among other things, prioritise the anonymisation or pseudonymisation of personal data and implement a consent management

system that enables users to manage their data clearly and intuitively. With its support for remote monitoring device integration, data transfer and consolidation, this platform will enable health-based collaboration between patients, practitioners and carers.

the project aims to increase the percentage who can manage their case alone or with a carer from 60% to 95%. This will improve their quality of life by allowing them to stay healthy at home for longer, particularly those dealing with frailty and dementia. Through such results, the project anticipates a 30% reduction in hospital admissions, allowing health providers to work more efficiently and target funds to those in greatest need. The corresponding cost savings will be compounded by the platform's support for streamlined workflows and integration of real-time data, which



^ CHS-Care will offer unified monitoring of an older patient's wellbeing

### Projected results and impact

By providing a comprehensive, real-time view of an older patient's health, CHS-Care will offer unified monitoring of everything from vital signs and physical activity to sleep patterns and potential health issues. This sets the stage for a proactive healthcare approach, which will bring benefits for patients, practitioners and governments. For the older persons,

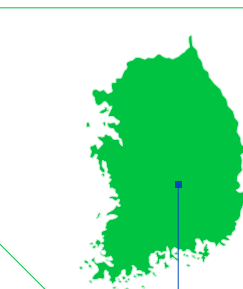
will ease the administrative burden on nurses and carers while contributing to staff retention and satisfaction. Finally, CHS-Care aims for a scalable business model that can be adapted as demand grows, thereby enabling the incorporation of new technological solutions for a long-lasting impact far beyond the project's conclusion.

# Project partners

CHS-Care

23035

Finland



Republic of Korea



Belgium



United Kingdom



Portugal



Project funded by



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Project website  
<https://itea4.org/project/chs-care.html>

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