ABOUT GATEKEEPER

GATEKEEPER is an European Multi Centric Large Scale Pilot on Smart Living Environments. The main objective is enabling the creation of a platform that connects healthcare providers, businesses, entrepreneurs, and elderly citizens and the communities they live in, in order to originate an open, trust-based arena for matching ideas, technologies, user needs and processes, aimed at ensuring healthier independent lives for the ageing populations.

GATEKEEPER will be embodied in an open source, European, standard-based, interoperable and secure framework available to all developers, for creating combined digital solutions for personalized early detection and interventions. The project will demonstrate its value by scaling up, during a 42-months work plan, towards the deployment of solutions that will involve ca 40,000 elderly citizens, supply and demand side (authorities, institutions, companies, associations, academies) in 8 regional communities, from 7 EU member states.

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Strategic Plan

GATEKEEPER (GTKPR)

Stakeholder(s):

European Union:
This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement N° 857223.

Healthcare Providers

Businesses

Entrepreneurs

Elderly Citizens

Communities

GATEKEEPER Consortium

MEDTRONIC IBÉRICA S.A.: (COORDINATOR) INDUSTRY

MYS:
MYSFERA S.L. (MYS) SMEs

BB:
BIOBEAT (BB) SMEs

UOI:
UNIVERSITY OF IOANNINA (UOI) ACADEMIA

HUA:
HAROKOPIO UNIVERSITY (HUA) ACADEMIA

ECHA:
ECHALLIANCE (ECHA) STANDARDIZATION

OE:
OPEN EVIDENCE (OE) STANDARDIZATION

SERVICIO ARAGONÉS DE SALUD: HEALTHCARE PROVIDERS

CSS:
FONDAZIONE CASA SOLLIEVO DELLA SOFFERENZA (CSS) HEALTHCARE PROVIDERS

STM:
ST MICROELECTRONICS (STM) INDUSTRY

MEDISANTÉ A.G.:
SMEs

BIO:
BIOASSIST (BIO) SMEs

UW:
UNIVERSITY OF WARWICK (UW) ACADEMIA

CIBER:
CENTRO DE INVESTIGACIÓN BIOMÉDICA EN RED (CIBER) ACADEMIA

MI:
MANDAT INTERNATIONAL (MI) STANDARDIZATION

UDG ALLIANCE:
(ARCHIMEDE SOLUTIONS SAR) STANDARDIZATION

AMEN:
ARCHANGELOS M. ELDERLY NURSING HOME (AMEN) HEALTHCARE PROVIDERS

PASYKAF:
CYPRUS ASSOCIATION CANCER PATIENTS AND FRIENDS (PASYKAF) HEALTHCARE PROVIDERS

SAMSUNG:
INDUSTRY

MME:
MULTIMED ENGINEERS SRLS (MME) SMEs

OK:
ORTHOKEY (OK) SMEs

FPM:
FONDAZIONE POLITECNICO DI MILANO (FPM) ACADEMIA

CERTH:
ACADEMIA

HL7 FOUNDATION:
STANDARDIZATION

DCCG:
CITIESNET (DCCG) HEALTHCARE PROVIDERS

CCS:
CARUS CONSILIUM SACHSEN GMBH (CCS) HEALTHCARE PROVIDERS

MUL:
MEDICAL UNIVERSITY OF LODZ (MUL) HEALTHCARE PROVIDERS

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Stakeholders (continued)

ENG : ENGINEERING INGEGNERIA INFORMATICA S.P.A. (ENG) INDUSTRY

IBERMÁTICA : SMEs

UU : UNIVERSITY OF UTRECHT (UU) ACADEMIA

OU : THE OPEN UNIVERSITY (OU) ACADEMIA

UPAT : UNIVERSITY OF PATRAS (UPAT) ACADEMIA

FUNDACIÓN TECNALIA R&I : ACADEMIA

OSA : OSAKIDETZA (OSA) HEALTHCARE PROVIDERS

KRONIKGUNE : ASOCIACIÓN DE CENTROS DE EXCELENCIA INTERNACIONAL EN INVESTIGACIÓN SOBRE LA CRONICIDAD (KRONIKGUNE) HEALTHCARE PROVIDERS

HPE : HEWLETT PACKARD ITALIANA S.R.L. (HPE) INDUSTRY

S4C : SENSE4CARE S.L. (S4C) SMEs

UPM : UNIVERSIDAD POLITÉCNICA DE MADRID (UPM) ACADEMIA

TUD : TECHNISCHE UNIVERSITÄT DRESDEN (TUD) ACADEMIA

RSCN : EIP ON AHA REFERENCE SITE COLLABORATIVE NETWORK (RSCN) STANDARDIZATION

FUNKA NU AB : STANDARDIZATION

REGIONE PUGLIA : HEALTHCARE PROVIDERS

GEIE ERCIM EEIG : W3C/ERCIM - HEALTHCARE PROVIDERS

Vision

An open, trust-based arena for matching ideas, technologies, user needs and processes, aimed at ensuring healthier independent lives for the ageing populations.

Mission

To tackle the challenge of improving the quality of life of citizens while demonstrating its significant efficiency gains in health and care delivery across Europe.

Values

Quality of Life: Application of advance ICTs to tackle the challenge of improving the quality of life of citizens while demonstrating its significant efficiency gains in health and care delivery across Europe

Efficiency

Openness: Built on open platforms, APIs among others beyond the state of the art

Security: Data security

Integrity: Data integrity

Sharing: Data sharing

Valorisation: Data valorisation

Interoperability: Interoperability and integration with other domains

Integration
1. Platform

*Deliver the GATEKEEPER DIGITAL PLATFORM*

To deliver the GATEKEEPER DIGITAL PLATFORM implemented through fault tolerant, secure, flexible and scalable micro-services infrastructure, based on open source and data standards, built on top of reference W3C-Web of Things architectural models and including services referred to the health domain through HL7-FHIR and to the home domain through SAREF.
2. Healthcare

Deliver the GATEKEEPER HEALTHCARE SPACE

To deliver the GATEKEEPER HEALTHCARE SPACE, where intuitive and self-configuring dashboards, intelligent services for early risk detection and care plans, and a federated data infrastructure are provided to healthcare professionals.
3. Consumers

*Deliver the GATEKEEPER CONSUMER SPACE*

To deliver the GATEKEEPER CONSUMER SPACE, where certified solutions, services and devices are provided to citizens for the management and prevention of health and social risks.
4. Businesses

Deliver the GATEKEEPER BUSINESS SPACE

To deliver the GATEKEEPER BUSINESS SPACE, where certified companies are able to develop solutions, services and devices alone or in partnership, following a set of standards in order to reach and boost the Digital Single Market.
5. Transactions

*Deliver the GATEKEEPER ECOSYSTEM TRANSACTION SPACE*

To deliver the GATEKEEPER ECOSYSTEM TRANSACTION SPACE, where services for data storage and processing, big data analytics and advanced visualization of business-oriented KPIs are provided for the exchange of solutions among providers and suppliers, based on data sharing and Value-based healthcare paradigms.
6. Pilots

Execute a series of PILOTS

To execute a series of PILOTS to demonstrate the effect, benefit, value and scalability of the GATEKEEPER solutions around REFERENCE USE CASES COVERING PRIMARY, SECONDARY and TERTIARY PREVENTION, initially deployed in 8 regions of 7 European countries.
7. Co-Creation

Provide an ECOSYSTEM COCREATION framework

To provide an ECOSYSTEM COCREATION framework, resulting from Responsible and Social Innovation principles, aiming at engage and generate TRUST from Citizens, Healthcare Professionals, Supply and Demand Side, extended through open calls to SMEs, Start-ups, and new regions in an open innovation fashion.
8. Standardization

Implement a STANDARDIZATION STRATEGY

To implement a STANDARDIZATION STRATEGY that allow the GATEKEEPER solution to be aligned with SDOs around legal and privacy aspects, healthcare, ageing, homes, cities and energies, IoT, Big Data and other Key Enabling Technologies, as well as value-based procurement.
9. Impact

*Transform and process GATEKEEPER results in a reference and sustainable IMPACT FRAMEWORK*

To transform and process GATEKEEPER results in a reference and sustainable IMPACT FRAMEWORK for decision making about procurement of innovative solutions, integrating elements from Value-based Healthcare, Real World Data, and Health-Technology Assessment, involving relevant actors inside and outside the consortium through Communication and dissemination activities, for worldwide outreach of project activities and achievements.