

H2020 - SAAM

Supporting Active Ageing through Multimodal coaching



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through multimodal coaching



This project has received funding from the European Union's Horizon 2020
research and innovation programme under grant agreement No 769661

THE SAAM PROJECT

- **Objective:** to develop and validate in a controlled environment a Virtual Assistant – “Coach” that supports the process of healthy and active ageing to elderly people that are still active but in risk of disconnecting from the Society.
- **Focus on:** social side of well-being and coaching for the elderly person and for the family, friends care givers and community.
- **Duration:** 3 years. Start in October 1st, 2017
- **Budget:** € 4 Mio

Project Advantages:

- strong partnership with interdisciplinary expertise
- user-centered design approach
- business oriented exploitation strategy
- focus on socially disadvantaged groups
- social circles coaching supporting the human contact



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THE SAAM PARTNERSHIP

- **Coordinator:** BILSP (BG)

- **Scientific R&D partners:**

- Jožef Stefan Institute (SLO)
- University of Edinburg (UK)
- University of Salzburg (AU)

- **Business partners:**

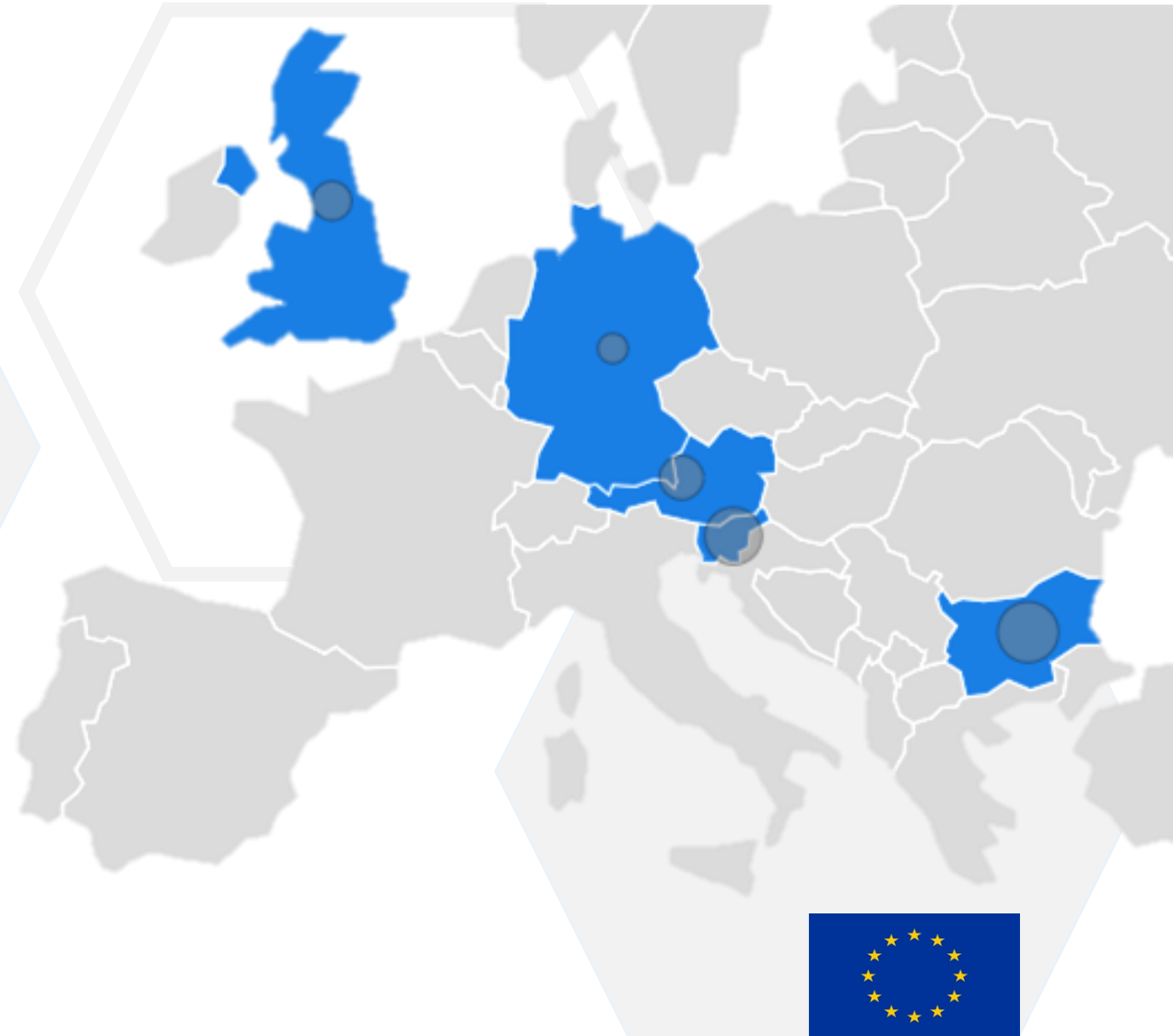
- ScaleFocus (BG)
- Interactive Wear AG (DE)

- **Social service/user partners:**

- University Rehabilitation Institute SOČA (SLO)
 - Caritas Bulgaria
 - Bulgarian Red Cross
 - EURAG Austria

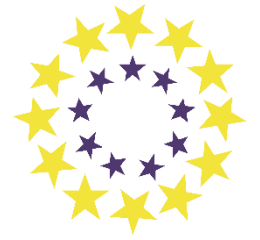


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BILSP BALKAN INSTITUTE FOR LABOUR AND SOCIAL POLICY



Mission:

- Meeting social innovations and new technologies
- Harnessing new technologies in help of disadvantaged groups, including the senior population
- Leading partnerships in the field of R&D in Ambient Assisted Living and Active Ageing

➤ **Towards creating a Bulgarian Factory for Social Innovations**



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Services: expertise in a **policy/legislation level** (research, evaluations, recommendations) and in **project/programme level** (proposal development, management and coordination).

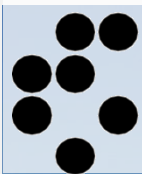
Priority areas: industrial relations and CSR, labour market, HR, social insurance and social protection, OSH, social services.

14 staff | **30** associate experts

70 partners from **34** countries



SAAM SCIENTIFIC PARTNERS



Jožef Stefan Institute



Leading Slovenian research organization in top ten research institutes in Europe. Responsible for the project core technology development. Focus on intelligent data analysis, language technologies, wireless communication and sensor systems, algorithms for parallel and distributed computing and massive-data processing

University of Edinburgh

The Usher Institute of Population Health Sciences and The Centre for Dementia Prevention will investigate early changes of neurodegenerative disease through imaging, cognitive and biomarker analyses.



Paris Lodron University of Salzburg

The Center for Human-Computer Interaction within the University will investigate on persuasive technologies, interactive systems and environments as well as contextual user experience.



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SAAM BUSINESS PARTNERS



(Bulgaria) Total-IT services provider and niche solutions developer.

Over 35 awards and certified internal systems in place, such as ISO 9001, ISO 27001 and ISO 20000-1.

Main contribution: API and interfaces software development, allergy module, GUI and user system management.



INTERACTIVE WEAR

(Germany) Technology and innovation company for integration of semiconductor components into textiles

Main contribution: extensive wearable technologies and smart textiles applications expertise with focus on connectivity and integration, enabling a variety of customized solutions.



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SAAM SOCIAL PARTNERS



University Rehabilitation Institute in Slovenia

National rehabilitation hospital. Smarthome IRIS is a 90m2 flat equipped with domotics, various assistive technologies that enables e-Inclusion and remote control of living environment for variety of patients – elderly people with impairments.

The European Federation of Older People

Representing the interests of older persons in 34 countries, having access to more than 1-500 older citizens. Extensive network of EURAG includes members of the AGE platform. EURAG is having advisory status in the NGO Committee on Ageing of the United Nations



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National Catholic Federation Caritas - Bulgaria

The Home Care services make the older people to receive care, attention and understanding in their homes, taking into account both their health and social needs so they can live their retirement in dignity. Over 400 staff and volunteers

BRC - Bulgarian Red Cross

Provider of different health and social services to vulnerable older people with the objective to improve their quality of life and independence, and develops various activities aiming at enhancing their social inclusion. Access to over 1000 older active citizens across Bulgaria.



SOCIAL IMPACT FOR THE OLDER PEOPLE

SAAM will seamlessly assist the older persons in their everyday tasks and wellbeing at home by:

- Collecting health, emotional and cognitive data from sensors, smart meters, video and audio receivers.
- Monitoring vital functions and medication take-in, and detecting mood and behavior changes.
- Providing recommendations for a healthy diet and hobbies.
- Detecting injuries and preventing risk situations (falls, burning, illness) by monitoring their home environment.



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SOCIAL IMPACT FOR THE OLDER PEOPLE

SAAM will enhance human interaction and prevent isolation and depression of the older person by:

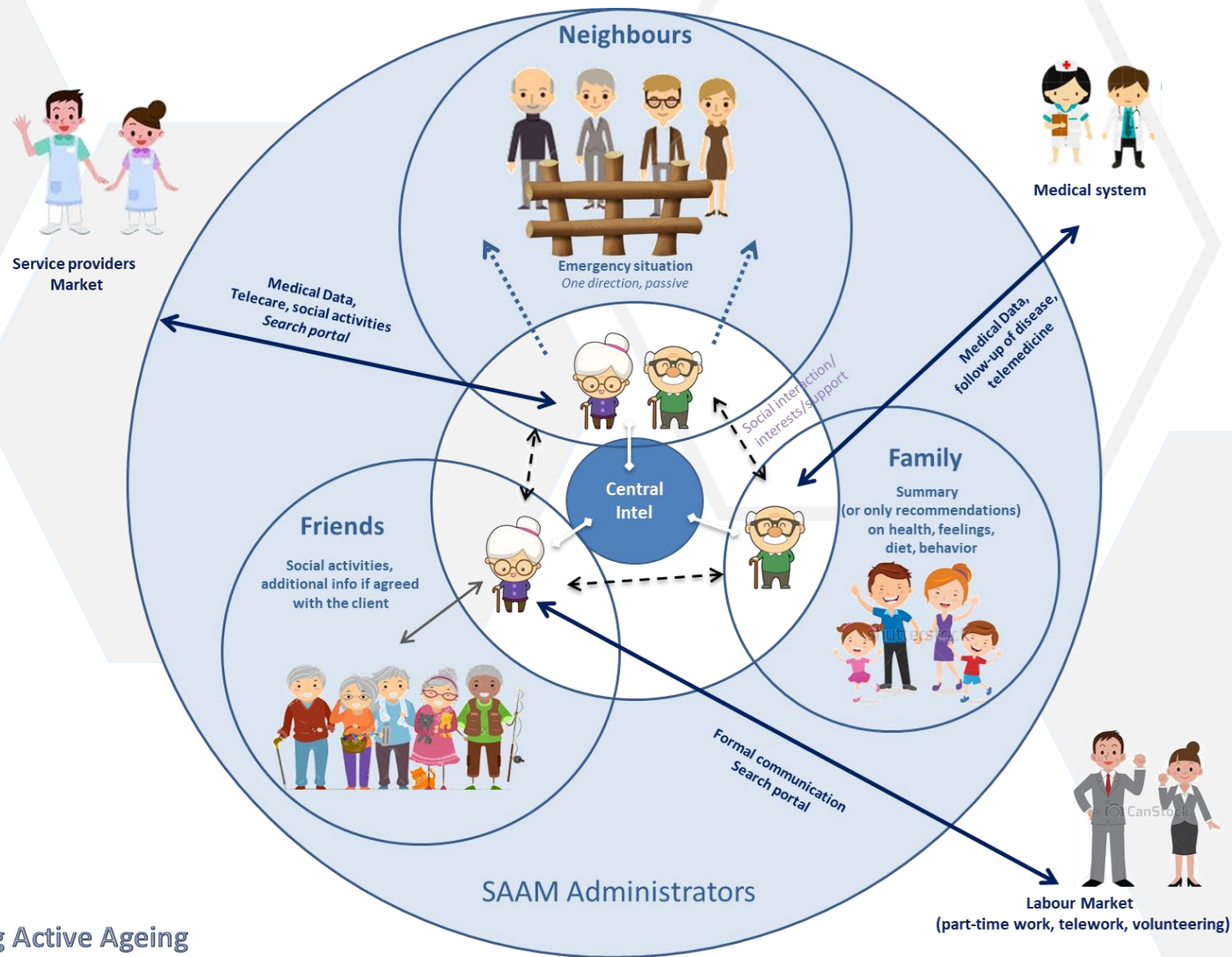
- Coaching the social circle of the older persons to get in touch and support them when needed.
- Suggesting social and cultural events, based on the preferences and interests of the person.
- Supporting interest groups and group activity of seniors.
- Providing a platform for telemedicine, for tele-work and for integrated social services.



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SAAM CLIENTS

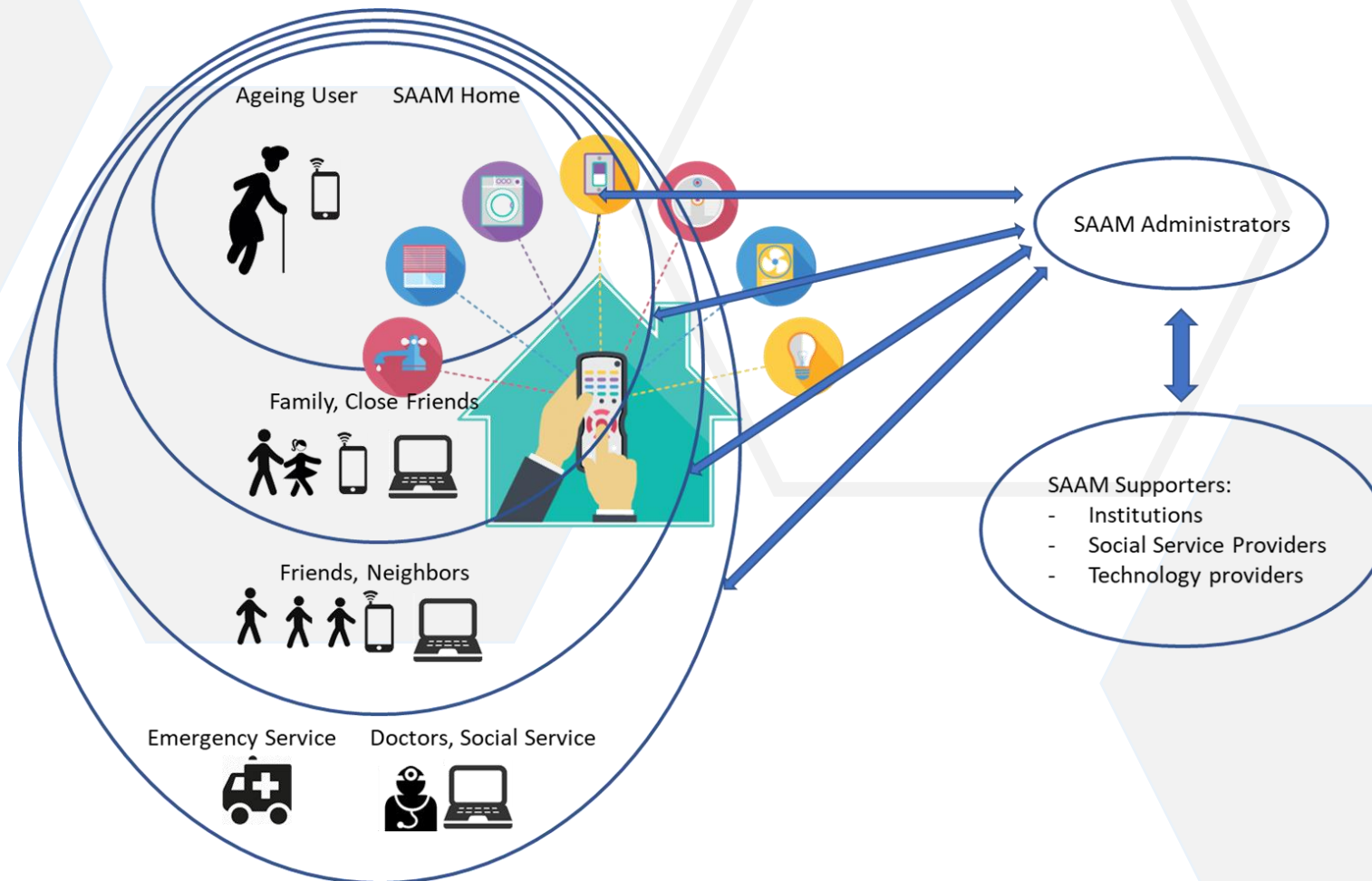


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SAAM MODEL



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SAAM TECHNOLOGY BACKBONE



- Unobtrusive Ambient & Personal Activity Sensing
- Wearable Sensing
- Privacy Preserving Audio and Video Sensing



- User Interfaces Adapted to Elderly Users;
- Natural Language & Tangible User Interfaces,
- Persuasive Strategies and Technologies



- Ontology-Based Data Fusion
- Progression of Ageing and Early Cognitive Decline Detection



- Modelling and Profiling with Machine Learning Methods
- Emotional and Affective Computing
- Intelligent and Autonomous Decision Making
- Social Coaching



- AAL Platforms
- Social Engagement Platform



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THANK YOU

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