



#1 Newsletter sustAGE

Smart environments for person-centered sustainable work and well-being

About

The sustAGE partnership is very pleased to introduce you to the first newsletter that aims to bring to you project updates, news and events. In this issue, you will learn more about the project, its past meetings and fresh publications, and how the project fits to a broad range of technology applications.

Main Aims of sustAGE

As the prevalence of health problems increases with age, more employees are likely to develop health problems while still at work. Vice versa, cumulative exposure to demanding work can have a significant impact on health and functional abilities, wellness in work and productivity. As age itself is not a modifiable health factor, it is vital to target modifiable individual factors that affect ageing workers productivity, and build on them in order to prolong a sustainable working life.

sustAGE aims to develop a person-centered smart solution to support the well-being, wellness at work and productivity, and promote the concept of "sustainable work" for EU industries through three main dimensions. The first dimension is directed towards improving occupational safety and health via risk assessment and prevention strategies based on workplace and person-centered health surveillance monitoring.

The second dimension aims to promote the wellbeing of employees via personalized recommendations for physical and mental health improvement and the third dimension supports decision making related to task/job role modifications aiming to optimize the overall workforce productivity by assessing the abilities of individual persons (e.g. physical, mental, social) in relation to work demands and risks. The projects aims towards a paradigm shift in human-computer interaction building upon strategic technology trends, such as IoT, computer vision, machine learning, micro-moments, temporal reasoning, recommender systems, data analytics and gamification, to deliver a composite system integrated with the daily activities at work and outside.

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Progress

Within the first 6-months all partners have worked collaboratively to address the Ethics requirements that the project must comply with. In parallel, the user interaction requirements were set describing the functionalities that the system should offer to its targeted users. A list of information-rich micro-moments were defined and linked to measurements collected from different devices and modules of the system to support the design of the sustAGE interface, user profile updates, recommendations and notifications.

The sustAGE IoT ecosystem was defined and the system architecture was established, describing the individual components, their role and interactions between the different components. The basic workflows were defined along with the integration aspects that will drive the implementation of the sustAGE system, providing the main reference point for the developments that will be conducted in all technical work packages and towards the delivery of the minimum viable product (MVP) and the integrated prototypes.

Beyond the ethical and technical aspects of the project the instruments were selected to assess work-related and individual factors related to cognition, physical activity and wellbeing of employees. Furthermore the scenarios, the initial design of the experimental protocol and evaluation strategy were drafted.

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Industry Domains

Manufacturing

There are hundreds of tasks in the manufacturing assembly process, which differ in terms of posture, workload and complexity, and require both manual labor as well as significant cognitive workload

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Transport Logistics

Port work activities involve loading procedures, unloading, transport and storage of goods, such as container movement and roll on/roll off, as well as pilotage, workboat and tug operation, ship repairs, vessel traffic management and similar marine activities.

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Latest Blog Post



written by FORTH
Project Coordinator sustAGE

Environmental monitoring and IoT platforms

Environmental monitoring encompasses a broad range of IoT applications that involve online monitoring of environmental parameters, such as temperature, humidity, noise levels, air pollutant concentrations, etc, that affect people's safety and well-being, especially when it comes to work environments.

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Did you miss it ?

Why training in Gerontology is important

UNED members develops abundant research around the concept of active aging in addition to training specialists in gerontology.

[Find out more →](#)

Preparations for the sustAGE Pilot Plant

FORTH members visited the Commercial Port Free Zone of Heraklion Port Authority to discuss installation aspects of the sustAGE system.

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Upcoming Technical Meeting

Technical Meeting, Heraklion, Greece, 23-25 July, 2019

Past Meetings



Plenary Meeting, 11-12 April 2019, Melfi, Italy

During the meeting, the progress within the first four months of the project across all workpackages was discussed as well as the upcoming actions by each partner towards the minimum viable product evaluation.

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Kick Off Meeting, 16-17 January 2019, Heraklion, Greece

This was the first face to face gathering of the sustAGE partners, ranging from academic and research organisations to market oriented companies.

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Publications

The first scientific publications of the sustAGE project have been published

- [CVPR 2019](#)
- [IEEE-FG 2019](#)
- [INTERSPEECH 2019](#)

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Partners

The sustAGE consortium comprises an ideal blend of partners from disciplines that span a broad spectrum and, at the same time, with high complementarity in terms of competence, organizational, industry and market experience are all essential to the project.

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