WORKINGAGE

Smart Working Environments for All Ages

WORKINGAGE FACT SHEET #1

The project moves forward through this first 12 months with a huge amount of work already done. The user and data requirements document reflecting the theoretical background of strain analysis and the planned measurement methods in the WorkingAge project, the user case context, the WA requirements and system concept.

The WA system can be described as a tool that shall improve the working experience and the work-life balance. Whist working, the working person faces various stressors, leading to individuals experienced mental and physical strain. For this reason, the system will be capturing the working persons' strain via physiological and physical indicators, in a first step. This information will further be evaluated through the system. Therefore, the system requires the interaction of different components, such as sensors, interfaces, data collection, a central processing unit, and the WA tool itself, which is an interface.

An analysis of available and suitable sensors and technologies which will be employed throughout the experiments of the WorkingAge (WA) project has been conducted and, in particular, we have collected detailed descriptions of the sensors and systems for collecting user's subjectivity, behavioural and neurophysiological activity during the next In-Lab and In-Company tests. We have not forgotten to reflect upon the final setup of the sensors for everyday use in realistic settings, taking into account the requirements have to be as less invasive and unobtrusive as possible and, additionally, easy to use and comfortable.

The technical requirements are linked to the general architecture of the WA Tool, including components and functions with regards to the project's theoretical background, project's objectives and limitations.

It also proposes adequate scenarios for integrating WA Tool's systems regarding monitoring, location spotting, data security and privacy and human-machine interaction.

The guidelines for the definition of interventions on participants and the intervention protocol template that will be at the basis of the operational intervention manual have been already developed.
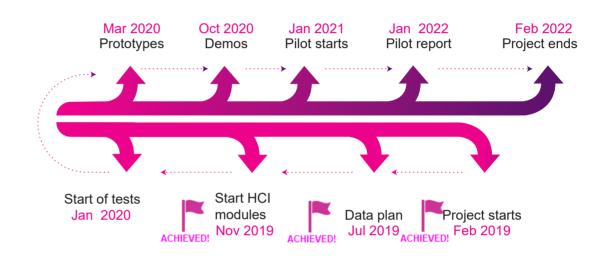
Intervention protocols will allow researchers conducting researching with subjects that will receive one or more interventions and guarantee that the researchers can evaluate their effects. The protocol also includes ethical issues that have to be taken into account during the pilot tests and, in particular, for the interventions.

MILESTONES

Mar 2020	Oct 2020	Jan 2021	Jan 2022	Feb 2022
Prototypes	Demos	Pilot starts	Pilot report	Project ends

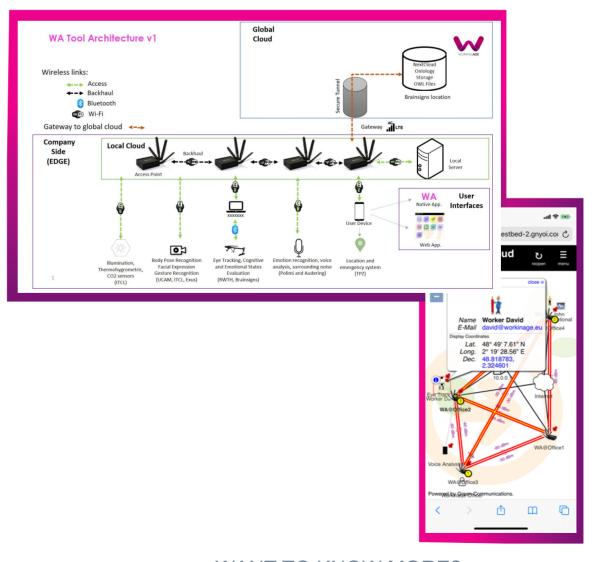| Start of tests Jan 2020 | Start HCI modules Nov 2019 ACHIEVED! | Data plan Jul 2019 ACHIEVED! | Project starts Feb 2019 ACHIEVED! |

WA architecture will be key in the pilot development, with a set of services to provide:
- Monitoring of the worker and its working environment
- Human Machine Interface
- Ontologies describing profiles and behaviour
- Data security and privacy

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