AgeingatWork

Project ID: 826299
Funded under: H2020-EU.3.1.4.1. - Active ageing, independent and assisted living
H2020-EU.3.1.4.2. - Individual awareness and empowerment for self-management of health

Smart, Personalized and Adaptive ICT Solutions for Active, Healthy and Productive Ageing with enhanced Workability

From 2019-01-01 to 2021-12-31, ongoing project

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tbody>
<tr>
<td>EUR 3 995 750</td>
<td>SC1-DTH-03-2018 - Adaptive smart working and living environments supporting active and healthy ageing</td>
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<th>EU contribution:</th>
<th>Coordinated in:</th>
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<td>EUR 3 995 750</td>
<td>Greece</td>
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<th>Call for proposal:</th>
<th>Funding scheme:</th>
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<tr>
<td>H2020-SC1-DTH-2018-1</td>
<td>RIA - Research and Innovation action</td>
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See other projects for this call

Objective

AgeingatWork will develop a novel ICT-based, personalized system to support ageing workers (aged 50+) into designing fit-for-purpose work environments and managing flexibly their evolving needs. Advanced dynamically adapted virtual models of workers will incorporate specificities in respect to skills, physical, cognitive and behavioral factors, being extended from the work context to personal life aspects interacting with workability, health and well-being. Virtual workplace models will encode characteristics of the workplace (factory, outdoor work site, home), at both physical and semantic, resource/process levels. On top of the models, computational intelligence will be responsible to (a) assess user specificities and needs i.r.t. work conditions, both in terms of ergonomics, health and safety issues and task assignments, and (b) perform personalized predictive simulations on workability, health and well-being. Recommendations will then be provided both to the worker and company (under strict privacy restrictions), on how the working conditions must adapt. The worker models will be populated by highly unobtrusive worker sensing, both at work, at home and on the move. To foster workability and productivity, highly personalized, intuitive, age-friendly productivity, co-design enhancement tools will be developed, including ones for AR/VR-based context-awareness and telepresence, lifelong learning and knowledge sharing. On top of these, a novel Ambient Virtual Coach (AVC) will encompass an empathic mirroring avatar for subtle notifications provision, an adaptive Visual Analytics – based personal dashboard, and a reward-based motivation system targeting positive and balanced worker behavior at work and personal life, towards a novel paradigm of ambient support into workability and well-being. The integrated system will be developed by user-centered design and will be evaluated at two pilot sites, related to core Industry 4.0 processes of mining and machines production.
Coordinator
ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS
CHARILAOU THERMI ROAD 6 KM
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EU contribution: EUR 781 250
See on map

Activity type: Research Organisations
Contact the organisation

Participants

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EU contribution: EUR 291 750
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Activity type: Higher or Secondary Education Establishments
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Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
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EU contribution: EUR 203 500
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
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Activity type: Higher or Secondary Education Establishments
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**EU contribution:** EUR 290 125

See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

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**EU contribution:** EUR 174 375

See on map

**Activity type:** Research Organisations

Contact the organisation

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**EU contribution:** EUR 205 000

See on map

**Activity type:** Research Organisations

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**EU contribution:** EUR 400 000

See on map

**Activity type:** Higher or Secondary Education Establishments

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**EU contribution:** EUR 399 750

See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

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EU contribution: EUR 227 500  
Activity type: Other  
Contact the organisation

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EU contribution: EUR 100 000  
Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)  
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HIT HYPERTECH INNOVATIONS LTD  
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EU contribution: EUR 220 000  
Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Contact the organisation

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