

Factory2Fit

Project ID: 723277

Funded under: [H2020-EU.2.1.5.1. - Technologies for Factories of the Future](#)

Empowering and participatory adaptation of factory automation to fit for workers

From 2016-10-01 **to** 2019-09-30, ongoing project

Project details

Total cost: EUR 4 322 462,50	Topic(s): FOF-04-2016 - Continuous adaptation of work environments with changing levels of automation in evolving production systems
EU contribution: EUR 4 322 462,50	Call for proposal: H2020-FOF-2016 See other projects for this call
Coordinated in: Finland	Funding scheme: RIA - Research and Innovation action

Objective

Smart factories are characterized by increasing automation and increasing customization. In these dynamic environments flexible and adaptive work organization is crucial both for productivity and work satisfaction. Factory2Fit project will support this development by developing adaptation solutions with which people with different skills, capabilities and preferences can be engaged, motivated and productive members of the work community in manufacturing industries.

The core idea in Factory2Fit project is that the worker is an expert of his/her own work and thus (s)he shall have an active role in designing his/her work. The proposed adaptive automation solutions are based on a dynamic user model that includes physical and cognitive abilities. The worker him/herself gets feedback of his performance and skills, which supports continuous learning and competence development. Virtual factory models will be used as engaging platforms for participatory design of work practices, knowledge sharing and training, involving all the relevant stakeholders in contributing the organizational development. Contextual guidance and knowledge sharing is supported by augmented reality based tools. The adaptation solutions will be developed within three industrial pilots in actual manufacturing environments. The solutions will be generalized and disseminated widely to the manufacturing industry.

Adaptive automation solutions to be developed in Factory2Fit will support fluent human-automation cooperation and will have impacts in work satisfaction, less occupational health issues, less stress, better ergonomics, better quality, less errors and better productivity. Adaptive automation supports current and forthcoming workers to develop their competences towards knowledge workers of smart factories with fulfilling work careers. This will further improve the competitiveness of European manufacturing industry and support the principle of responsible manufacturing industry.

Coordinator

Teknologian tutkimuskeskus VTT Oy
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Finland

EU contribution: EUR 917
533,75

Activity type: Research Organisations

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Participants

AMORPH SYSTEMS GMBH
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Germany

EU contribution: EUR 295 250

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

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EU contribution: EUR 351 250

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

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EU contribution: EUR 502 500

Activity type: Research Organisations

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EU contribution: EUR 399
062,50

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

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EU contribution: EUR 508
906,25

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

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EU contribution: EUR 562 375

Activity type: Higher or Secondary Education Establishments

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EU contribution: EUR 520 585

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

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EU contribution: EUR 265 000

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

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