

General Information

- **Project Title:** USA² (Ubiquitäres und selbstbestimmtes Arbeiten im Alter/Ubiquitous and self-determined work in old age)
- **Project Acronym:** USA²
- **Sponsor/Client:** BMBF, grant number: 16SV6191
- **Budget:** 300.000€
- **Duration:** 2013-2015

Abstract

The elderly can be considered as an important labour force for future industrial development in Germany, in the context of design and production of value-added, personalized products/services that demand skilled and experienced labour. In this context, the project USA², a robotic, mini-factory-like workspace was developed which integrates novel technologies from the field of telepresence, cooperative robotics, seamless interaction, 3D printing and Cloud Manufacturing.

Key Facts

- High-tech working places for an ageing workforce
- USA² developed, classified, evaluated scenarios and prototyped an exemplar future assistive workstation for the elderly allowing them to produce personalized products decentrally and close to the customer for the utilization of Cloud Manufacturing technologies

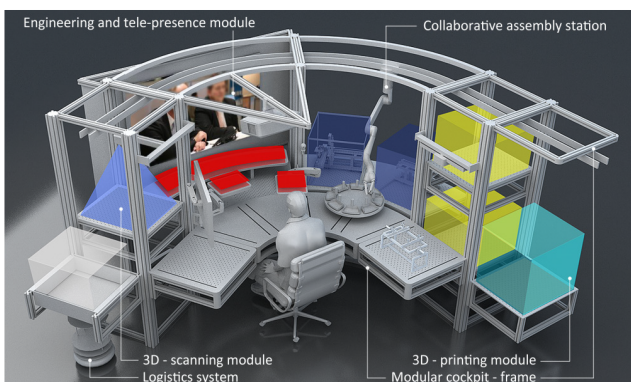


Figure 1: Overview of the assistive CM workstation and its key functions/modules

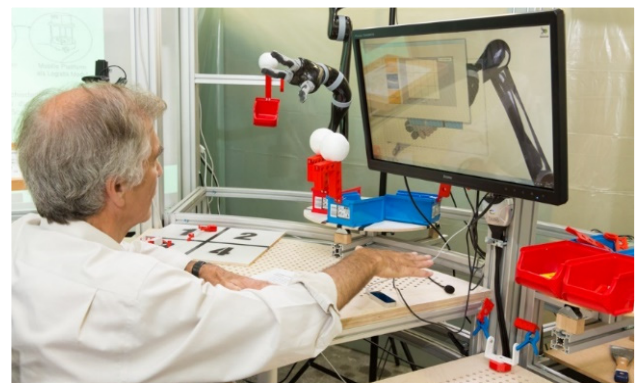


Figure 2: Elderly person producing a personalised product by a collaborative robot system that is informatically and kinematically integrated with the workstation

Contact Information