

# Movement Assisting Devices

## MANUFACTURING OF PERSONALISED KINETO-DYNAMICS PARTS AND PRODUCTS FOR WORKERS, ELDERLY AND CHILDREN



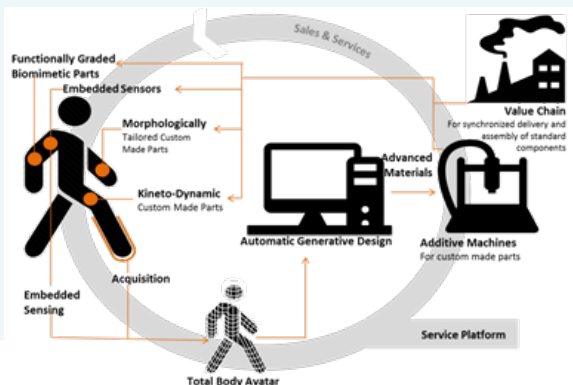
The project “MovAiD - Movement Assisting Devices: Manufacturing of personalised Kineto-Dynamics parts and products for workers, elderly and children” aims at developing technologies assisting the manufacturing of intelligent, “passive” and highly personalised kineto-dynamic equipment (Movement Assistive Devices) to enhance or compensate human movements.

By aiding the disabled, elderly and workers, the project seeks to address several important challenges that society is facing today: a growing aging population with more and more elderly people requiring mobility aids or orthoses; musculoskeletal disorders in over forty million workers in the EU as a result of working in painful or tiring positions; and neuromuscular disorders affecting children’s motor patterns in the limbs and causing motion deficits.

## OBJECTIVES

A Total Body Avatar will be created to store personalised information about the MAD’s user, gathered using state-of-the-art scanning tools. MovAiD will also advance engineering solutions to enable automatic generation of a personalised design of the MADs.

The long-term vision of MovAiD is to promote the development of smart, innovative and low-cost solutions and technologies, with a view on enabling emergence of new-generation Movement Assistive Devices, as well as increasing the competitiveness of the European manufacturing industry. Such devices will bridge the gap between exoskeletons and classic orthotic devices, representing highly personalised solutions and featuring morphological and kinematic characteristics tailored the needs of the individual user.



## PROJECT PARTNERS

MovAiD is a cross-disciplinary project that started in 2015 under the European Union Horizon 2020 Research and Innovation Programme. The international consortium is composed of 13 partners representing academia, industry and non-profit organisations.

 <b>blatchford</b>	 <b>Brunel University London</b>	 <small>Istituto di Tecnologie Industriali e Automazione Consiglio Nazionale delle Ricerche</small>
	<small>Scuola universitaria professionale della Svizzera italiana</small> <b>SUPSI</b>	 <b>Synesis</b>
	<b>ANYBODY™</b> <small>TECHNOLOGY</small>	 <b>Technology Transfer System</b>
  	<b>ALSTOM</b>	 <small>MICHELOTTI ORTOPEDIA</small>
		

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