



Supporting Global Research for 2020 Manufacturing Vision



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How do manufacturing companies meet the challenges of global change in their industry? As clearly stated by many experts, for these companies it is essential to develop new manufacturing strategies based on research and innovation. The international manufacturing sector calls for a deep industrial transformation in order to meet the needed competitive, environmental and social challenges.

IMS2020 is a project conducted by an international consortium of 15 core partners and a large group of supportive members

from Europe, Japan, Korea, Switzerland and the USA. The project focuses on the creation of roadmaps towards Intelligent Manufacturing Systems (IMS) in the year 2020. The roadmaps highlight the main milestones of innovation activities (research and development, management and policy actions) needed to achieve the desired vision.

IMS2020 identifies relevant research topics and supporting actions to shape the future of intelligent manufacturing through international cooperation.



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IMS2020 is a coordination and support action for strengthening international and interregional co-operation in Intelligent Manufacturing Systems under the IMS initiative. In particular, the project has five main scientific and technical objectives:

- Objective 1: Prepare a roadmap for future manufacturing research in the five IMS Key Areas.
- Objective 2: Identify new schemes & frameworks to support MS research.
- Objective 3: Stimulate small and medium enterprise's participation in international cooperative research and development projects.
- Objective 4: Establish international and inter-regional communities in the five IMS Key Areas.
- Objective 5: Prepare the ground for new IMS proposals and manufacturing projects.

IMS2020 wants to attract interested people and organisations to have the worldwide most qualified actors in the five IMS Key Areas to discover common innovations and potential in manufacturing.

These Five Key Areas are:

- Sustainable Manufacturing
- Energy Efficient Manufacturing
- Key Technologies
- Standards
- Education



With the support of a wide Roadmapping Support Group, made of experts, coming from enterprises, research centers and universities worldwide, the project will discover new destinations for developing Intelligent Manufacturing Systems in the forthcoming decade.

If you are interested in sharing the IMS community's knowledge, and have the chance to shape the future of manufacturing with us, join us. To contact us write to:

Project Coordinator:

Prof. Marco Taisch
Professor of Operations and Supply Chain Management,
Phone: +39 (02) 2399-4815
Email: marco.taisch@polimi.it

Project Manager:

Dr. Ing. Jacopo Cassina
Department of Management, Economics and Industrial Engineering
Phone: +39 (02) 2399-3951
Email: jacopo.cassina@polimi.it



Politecnico di Milano, Department of Management, Economics and Industrial Engineering

Partners



Roadmapping Support Group (RSG)

- Advanced Manufacturing Institute of HKUST, China
- AFM, Spain
- Agenzia per la formazione orientamento e lavoro Est-Milano, Italy
- Anci, Italy
- APS-Mechatronics, Germany
- Assoknowledge, Italy
- Barilla, Italy
- Base Protection, Italy
- BIBA (Bremer Institut für Produktion und Logistik GmbH), Germany
- BMW, Germany
- Bombardier, Switzerland
- Cambridge University, UK
- Cardiff University, UK
- CECIMO (European Committee for Cooperation of the Machine Tool Industries), EU
- Ceta Senai, Brazil
- Clariant, Switzerland
- Cranfield University, UK
- CSEM, Switzerland
- CSMT, Italy
- Daimler, Germany
- DIN, Germany
- Ecole Polytechnique Universitaire de Marseille, France
- The Federation of Finnish Technology Industries (Techind), Finland
- FIDIA, Italy
- H3G SpA, Italy
- HEGAN, Spain
- Helsinki University of Technology, Finland
- Hilti, Liechtenstein
- Hong Kong University of Science and Technology, Hong Kong
- IBARMIA, Spain
- IBM, Italy
- ifak e.V. (Institut für Automation und Kommunikation), Germany
- Institute for Innovation and Development of University of Ljubljana (IRI UL), Slovenia
- Interlink Management Consultant, Australia
- ISVOR FIAT, Italy
- IT Partners Ltd, Bulgaria
- ITQ GmbH, Germany
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- KUHN Technology EOOD, Bulgaria
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- Lappeenranta University of Technology, Finland
- LEIA Centro de Desarrollo Tecnológico, Spain
- Loughborough University, UK
- Lulea University of Technology, Sweden
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- Norsk Industri, Norway
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- ONA Electroerosión, Spain
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- Politecnico di Bari, Italy
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- Raufoss Technology & Industrial Management AS (RTIM), Norway
- Renault Consulting, Italy
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- SAP, Germany
- SCM Group, Italy
- SERCOBE, Spain
- Siemens, Germany
- Spiral Business Services Corp., Finland
- Stadler Stahlguss, Switzerland
- Swiss Association of Mechanical SME, Switzerland
- Tampere University of Technology, Finland
- Technical University of Berlin, Germany
- Tecnica, Italy
- Thales, France
- Toolmakers cluster of Slovenia Zavod C-TCS Celje, Slovenia
- UCIMU, Italy
- UFRGS, Brazil
- Università di Bergamo, Italy
- University "Politehnica" of Bucarest, Romania
- VDI (The Association of German Engineers), Germany
- VDMA (Verband Deutscher Maschinen- und Anlagenbau - German Engineering Federation), Germany
- WZL-RWTH Laboratory for Machine Tools and Production Engineering, Germany
- ZAYER, Spain
- ZENON, Greece