



The **Coordination Action for Robotics in Europe (CARE)** is a project funded by the European Commission (Directorate Information Society and Media) under the 6th Framework Programme (FP6-IST-045058, 01.11.2006 – 31.10.2009).

Objectives

The objective of CARE is to coordinate actions and initiatives in the field of robotics in Europe for the first three years of the 7th Framework Programme (FP7). CARE covers the complete robotics picture including industrial, professional service, domestic service, security and space robotics.

The main goal was to develop the Strategic Research Agenda (SRA) for robotics in Europe addressing in detail the technological challenges with a strong focus on research & technology cross-fertilisation in order to facilitate the synergies in the community and to optimise the resources. Besides these technical topics, this SRA also addresses the broader impact of advanced robotics on society. To this purpose it considers the legal, social and ethical issues surrounding the introduction of advanced robots that directly interact with their users in everyday human environments.

The SRA establishes a coherent and integrated European robotics research and technology development (RTD) strategy, lead by industry and backed by the commitment of the European stakeholders. This process was driven by the CARE Consortium (see next page), but would not be possible without countless contributions from the community.

Further information regarding the partners can be found on the following pages. Please also consult the CARE website: <http://www.robotics-care.eu>.

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1. The CARE Partners



- **KUKA Roboter GmbH**, Augsburg, is a member of the KUKA Aktiengesellschaft and ranks among the world's leading suppliers of industrial robots. Core competencies are the development, production and sale of industrial robots, controllers, software and linear units. The company is the market leader in Germany and Europe, and the number three in the world. The KUKA Robot Group employs about 2,200 people worldwide. Of these, 1,200 are employed in Germany, either at the KUKA Robot Group headquarters in Augsburg, or at various subsidiaries. In 2008, sales totalled 474 million Euro. 25 subsidiaries provide a presence in the major markets of Europe, America and Asia. KUKA Roboter GmbH is coordinator of the CARE project.
- **Alenia Aeronautica** is the Italian leader in the aeronautic sector and a major international player in the aerospace industry, with full system development and integration capabilities in the most advanced fields, including high performance aircraft, military and commercial transport aircraft, unmanned aerial vehicles, mission systems aircraft, advanced aerostructures for airliners, overhaul, maintenance and modification of military and commercial aircraft.

- **CEA** is the French Atomic Energy Commission (Commissariat à l'énergie atomique). It is a public body established in October 1945 by General de Gaulle. The partner in CARE is the Laboratory of Applied Research on Software-Intensive Systems (CEA LIST), which comprises a staff of 450 researchers and engineers. Its Research and Development programs are focused on three major segments: embedded systems (dedicated microelectronic architectures, software tools for system design and safety, vision systems), interactive systems (robotics, virtual reality and interfaces, knowledge engineering), sensors and associated signal processing (instrumentation, ionising radiation metrology, non destructive test, optical fibre sensors and systems).
- **LAAS** (Laboratoire d'Analyse et d'Architecture des Systèmes, 530 persons) is a research unit of the French CNRS (National Centre for Scientific Research) associated with Toulouse Universities and Schools (UPS, INP, INSA). Its domains are Automatic Control, Computer Science, Microelectronics, and Robotics. LAAS contributes to the project through one of its 15 research groups, the Robotics and Artificial Intelligence group.
- **COMAU** is a global supplier in the manufacturing of automatic flexible systems. It has a leader position in Europe and North/South America where its main customers include all the major vehicle manufactures. As a system integrator, COMAU provides complete engineering solutions. It has specific know-how in production systems and equipment.
- **Deltatron** is an engineering office for robotics and assembly techniques in Finland and Baltic states. The offices are located in Helsinki, Finland and Tallinn, Estonia. The company has 12 employees. The main activity is at the assembly automation business, software development and equipment design. Deltatron manages the mechanical engineering development programme, Masina, funded by Tekes, the National Technology Agency.
- **EUnited** - The European Engineering Industries Association - is a non-profit organisation which was founded in 2004 and which is located in Brussels. The aim of EUnited is to promote and support the European engineering industries at an international level. EUnited Robotics, a sector association of EUnited also founded in 2004 is the voice of the European robotics

manufacturers and system integrators in Europe creating a network of the industry leaders.

- **The Fraunhofer-Gesellschaft** undertakes applied research of direct utility to private and public enterprise and of wide benefit to society. The Fraunhofer-Gesellschaft maintains roughly 80 research units, including 58 Fraunhofer Institutes, at over 40 different locations throughout Germany. A staff of some 12,500, predominantly qualified scientists and engineers, works with an annual research budget of over one billion Euro.
- **Selex Galileo** is a Company of Finmeccanica, the main Italian industrial group in aerospace, defence and security, and one of the world's leading groups in helicopters and defence electronics. The company leverages on international strengths to deliver powerful, innovative solutions and by forging and sustaining leading partnerships, provides proven capabilities to its customers. Selex Galileo is a leader in surveillance, protection, tracking, targeting, navigation & control and imaging systems.
- **Indra** is the leading Spanish Information Technologies company, with revenues of 2,000 million Euro (pro forma revenues). Indra is now the reference Spanish company in Information Technologies, and comprises over 20,000 professionals. More than 75% of the company's total workforce is made up of graduates and highly specialised technicians.
- **iTechnic** provides consultancy in the design and development of autonomous systems with particular interest in the domestic service domain and in distributed sensor networks. It provides customised hardware and software solutions based on its own embedded sensor architecture as well as technology assessment and review services.
- **ROBOSOFT**, established in 1985 by INRIA researchers, is recognised as a leading supplier of advanced robotics solutions throughout Europe and beyond. It is a profitable and independent SME of 25 persons with a turnover of 3.2 million Euro. ROBOSOFT has been building a unique expertise in service activities automation. Its experience in robotics, more precisely in subsets integration and automatic control, allows it to provide operational robotic solutions in many areas: automatic transport of goods and people, cleanliness, security and health.

- **R U Robots (RUR)** is a small and independent advanced robotics company providing custom robotic solutions for a range of clients. Although only set up in 2003, RUR can directly trace its roots to the setting up of UK National Advanced Robotics Research Centre (UK NARRC) in 1988 which was part of the UK government Advanced Robotics Initiative.
- **Scuola di Robotica (SdR)** is a non-profit cultural association whose aim is to promote the knowledge of robotics among students, teachers and the general public. Its mission is to develop a chain of transmission between research laboratories, education, industry and society at large, because without an effective translation between the language of science and common language, communication of science is incomplete.
- The **Scuola Superiore Sant'Anna (SSSA)** is participating to CARE with two laboratories: the ARTS Lab and the CRIM Lab. The ARTS Lab (Advanced Robotics Technology and system Laboratory) has been purposely established on 1989 by Prof. Paolo Dario with the aim of carrying out theoretical and experimental research in biomedical robotics and bioengineering.