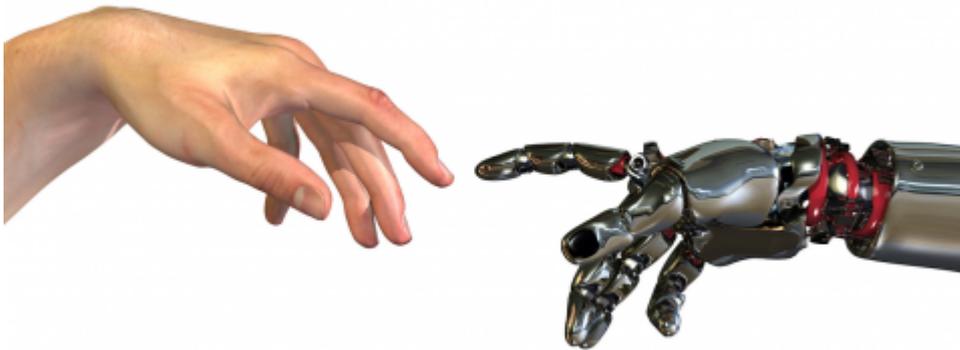**European Commission**

Robotics

The EU actively promotes research, job creation and innovation through better and safer robots, while safeguarding ethical aspects of the progress achieved.

The importance of robotics lies in its wide-ranging impact on Europe's capacity to maintain and expand a competitive manufacturing sector with millions of related jobs at stake. Robotics also offers new solutions to societal challenges from ageing to health, smart transport, security, energy and environment.

The European Commission's focus is on building on our continuous effort to develop a strong scientific base for pushing the limits of the technology, and exploiting such results in real world applications.

Why fund robotics research & innovation?

- Essential for productivity and competitiveness
- Reindustrialisation, ageing workforce
- Essential to address societal challenges
- Health, ageing population, environment, security
- Growth potential
- Service markets, double-digit growth
- Autonomous systems transforming ICT, automotive and other sectors
- Key driver of digital innovation

Robotics is a fast developing market increasingly driven by the development of novel and improved products in areas as diverse as manufacturing, search, rescue and retrieval, inspection and monitoring, surgery and healthcare, homes and cars, transport and logistics, agriculture, and many more.

The rapid increase in the use of robots in our homes and at work, in hospitals and industrial environments provides an inspiring vision about how they can benefit society as a whole. And, how

priorities to stimulate robotics should be defined at this point in their evolution, to best develop the potential for growth, jobs and innovation in Europe.

European Action

Through a portfolio of over 120 research projects and coordination actions, the European Commission has progressively built up a solid base of knowledge-sharing and cooperation across the entire robotics stakeholder community. This base now includes a public-private-partnership on robotics called SPARC.

This work is undertaken in close collaboration with the robotics community, including Member States programmes, industry, universities and research institutions.

SPARC: The Partnership for Robotics in Europe

Follow the latest progress and learn more about getting involved.

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Follow the Commission's work on robotics @RoboticsEU

Latest

Coronavirus: First EU disinfection robots arrive in hospitals

Today two Slovenian hospitals received two of the first robots purchased by the Commission to disinfect patient rooms, thus helping reduce and contain the spread of coronavirus. A further 29 disinfection robots are deployed to hospitals in Belgium, Denmark, Germany, Estonia, Ireland,

Greece, Spain, Croatia, Lithuania, Luxembourg and the Netherlands. These robots can disinfect a standard size patient room in as quickly as 10 minutes by using ultraviolet light and disinfect over 18 rooms in one charge.
Coronavirus: Commission to provide 200 disinfection robots to European hospitals

As part of its continued efforts to tackle the spread of coronavirus and provide Member States with necessary equipment, the Commission launched the purchase of 200 disinfection robots that will be delivered to hospitals across Europe.
Artificial intelligence: Commission kicks off work on marrying cutting-edge technology and ethical standards

The Commission is setting up a group on artificial intelligence to gather expert input and rally a broad alliance of diverse stakeholders.
European Robotics Week 2017 – Robots Discovery

New robotics technologies are expected to have a major impact on the quality of our lives. The European Robotics Week will showcase the newest developments of robotics technologies in fields such as healthcare, education and environment.
Browse Robotics

Related Content

Big Picture

Artificial intelligence

Artificial intelligence (AI) refers to machine-based systems that can make predictions, recommendations, or decisions influencing real or virtual environments.

See Also

Strategy for artificial intelligence

The European Commission has developed a strategy for artificial intelligence that puts European values at its centre.

A European approach to Artificial intelligence

The EU's approach to artificial intelligence centres on excellence and trust, aiming to boost research and industrial capacity and ensure fundamental rights.

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