

FP7 ICT Call 7: Cognitive Systems and Robotics

*NCP Infoday
Brussels, 23 June 2010*

*Unit E5 - Cognitive Systems, Interaction, Robotics
DG Information Society and Media
European Commission*

<http://www.cognitivesystems.eu>

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OBJECTIVE: **2.1 Cognitive Systems and Robotics**

PUBLICATION: **?/?/2010** DEADLINE: **?/?/2011**

BUDGET: **73 M€**

- © Target (a): Robotic systems operating in real-world environments - **IPs and STREPs**
- © Target (d): Fostering communication and co-operation between robotics and cognitive systems research communities - **CA**

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- © Target (a): Robotic systems operating in real-world environments – STREPs and IPs

Expanding and improving the functionalities of robotic systems and further developing relevant features, such as autonomy, safety, robustness, efficiency, and ease of use.

As appropriate, work will include exploring ways of integrating, in robotic systems, new materials and advanced sensor, actuator, effector and leading edge memory and control technologies.

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- © Target (a): Robotic systems operating in real-world environments

STREPs: high-risk endeavours, breaking new grounds, with high potential rewards; also appropriate for component-level research for particular domains.

IPs: for system-oriented efforts; they are expected to encompass all stages of the research and development lifecycle and, where appropriate, cutting across research topics



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Realistic, highly demanding, scalable real-world scenarios will motivate and guide research and serve to validate its results.

Note: The Objective 2.1 work programme is open to all relevant application areas; it does not give priority to any particular application area.

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IMPACT - in particular: Improved competitive position of the robotics industry in existing and emerging markets for instance in the following sectors:

manufacturing; professional and domestic services; assistance and co-working, production, logistics and transport, construction, maintenance and repair, search and rescue, exploration and inspection, systems monitoring and control, consumer robotics, education and entertainment. *)

also: strengthened links between industry and academia; more widely accepted benchmarks; consensus by industry on the need (or not) for particular standards.

*) Note: this list is not exhaustive.

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- © Target (d): Fostering communication and co-operation between robotics and cognitive systems research communities - CA
- identification of common interests and areas of co-operation;
 - knowledge sharing between EU, national, and international initiatives;
 - supporting open-source hardware and software developments;
 - updating R&D roadmaps taking account of work under relevant past and ongoing European programmes;
 - addressing issues such as market potential, user acceptance, standardisation, continuing education, ethics, and socio-economic impacts;
 - outreach to relevant professional and general audiences

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IMPACT:

Stronger cohesion between relevant industrial and academic R&D communities;

a higher level of awareness among wider (including non-professional) audiences of the potential of the technologies at issue.

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Budget allocation:

- © Target (a): 70M€ (of which >50% for IPs, >30% for STREPs)
- © Target (d): 3 M€

Final note:

Challenge 2 participates in the FP7 Open Access Pilot (see:

http://cordis.europa.eu/fp7/find-doc_en.html

http://ec.europa.eu/research/science-society/open_access

http://ec.europa.eu/research/science-society/scientific_information)