

Robotics in Horizon 2020 *Innovation Actions: Technology transfer – Robotic use cases*

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Type of actions and budget

Innovation actions requesting small and large contributions

Budget: **12 € million** on each call



Excerpt from the Work-Programme

"Using leading edge science and technology, including results from EU-funded projects, a targeted effort will aim at introducing, testing and validating promising and innovative robotics solutions in real-world conditions. The focus will be on the robust operational deployment of these robotic solutions, based on performance objectives, metrics, and user needs. The strong involvement of stakeholders such as robotics industry, system integrators and end-users is essential."



Recipe for a good use-case proposal

- State of the art robotic technology
- Real-world use cases
- Validation/demonstration supported by metrics such as performance, cost, quality, cycle times...
- Clear exploitation plans with economic potential beyond the end of the project
- Balanced consortium including:
 - research/technology providers
 - end users
 - robotics industry and/or system integrators



Typical consortium



Validation

Technology

transfer

Supply SotA technology

Conduct experiments

Research

- Define user needs
 Provide real-world test environments
 Validate results
- Integrate solutions for real-world problems
 - Generalize results
 - Market outreach

Robotics industry



Technology Readiness Levels

	TRL	H2020 description
	1	Basic principles observed
	2	Technology concept formulated
	3	Experimental proof of concept
	4	Technology validated in lab
	5	Technology validated in relevant
		environment
	6	Technology demonstrated in relevant
		environment
	7	System prototype demonstration in
		operational environment
	8	System complete and qualified
	9	Actual system proven in operational
		environment



Application domains

There are no limitations, provided that the applications are taken from the **real-world**:

- industry (all kinds),
- utilities,
- transport and logistics,
- farming and fishing,
- civil engineering and building,
- mining and quarrying,



- private and public services (including health and education),
- emergency and rescue,



Exploitation

The economic potential of the intended results should be demonstrated by means of:

- market screening,
- competitive position,
- marketing goals,
- business plans,







Can proposals include some research?

Yes but ...

... keep in mind that the main focus is technology transfer.



Inspirational examples

Some projects from FP7-call 10:



Petrobot ReMeDi

Dronic

Robinspect

Stamina

Vinerobot

http://cordis.europa.eu/fp7/ict/robotics/docs/call10projects.pdf



Thank you!