



# Horizon 2020 & international funding FLYNET

ETH Zürich, November 3-5, 2014

Karl Kerschbaum | EU GrantsAccess



# Overview

## 1. EU GrantsAccess

## 2. Horizon 2020

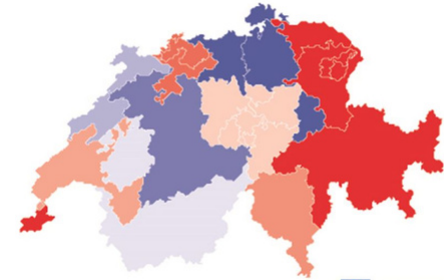
1. concept / programmes
2. swiss participation
3. participant portal

## 3. additional funding opportunities

# EU GrantsAccess is

- the office for information and support regarding European and international research programmes
- Euresearch Regional Office for Zurich and the region
- A joint office at University of Zürich and ETH Zürich since 1997

Click on the map to find your Regional Office.



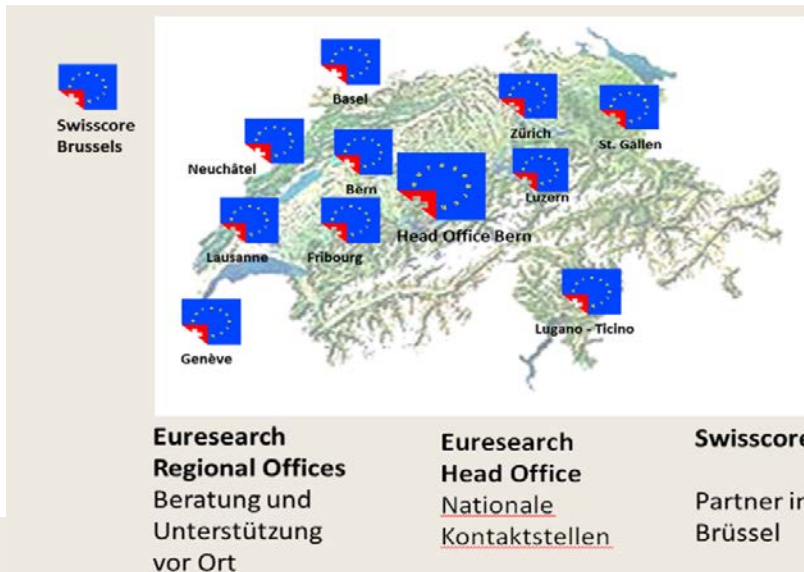
Helpline +41 (0) 848 499 499

 EURESEARCH  
Head Office Bern



# Network and Partners

- The Euresearch Regional Office in Zurich – and part of the Swiss Network for European Research
- Advising researchers from academia and industry in the Region of Zurich



# Services – pre- and post-award

Information on international research programmes  
(H2020, COST, NIH, HFSP, ...)

- Administrative, financial and legal support
- Idea checking
- Proposal pre-screening
- Writing Workshops
- Individual coaching
- Visit of research groups
- Information events

# The EU Framework Programme for Research and Innovation (2014-2020)



# What's new - key features

- One programme integrating Framework Programmes (FP), Competitiveness and Innovation Programme (CIP) and European Institute of Technology (EIT)
- Objectives based on Europe 2020 & Innovation Union (COM(2010))
- Closer linking research & innovation „from research to retail“
- Strong bottom-up support for excellent science
- Top-down focus on societal challenges (impact!)
- Single set of rules, less schemes (simplification, e.g. 100%reimbursement / 25% overhead)

# HORIZON 2020

(2014 – 2020)

## EXCELLENT SCIENCE

European Research Council (ERC)

Future and Emerging Technologies (FET)

Marie Curie Actions

Research Infrastructures

**€22.27 bn**

## INDUSTRIAL LEADERSHIP

Enabling and industrial technologies

- Information and communication Technologies
- Nanotechnologies
- Advanced materials
- Biotechnology
- Advanced manufacturing and processing
- Space

Access to risk finance

Innovation in SMEs

**€15.51 bn**

## SOCIETAL CHALLENGES

- Health, demographic changes and Wellbeing
- Food security, sustainable agriculture, marine, maritime research and the bio-economy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Europe in a changing world: Inclusive, innovative and reflective societies
- Secure societies – Protecting freedom and security of Europe and its citizens

**€27.05 bn**

Joint Research Centre (JRC)

Widening Participation

Science with & for Society

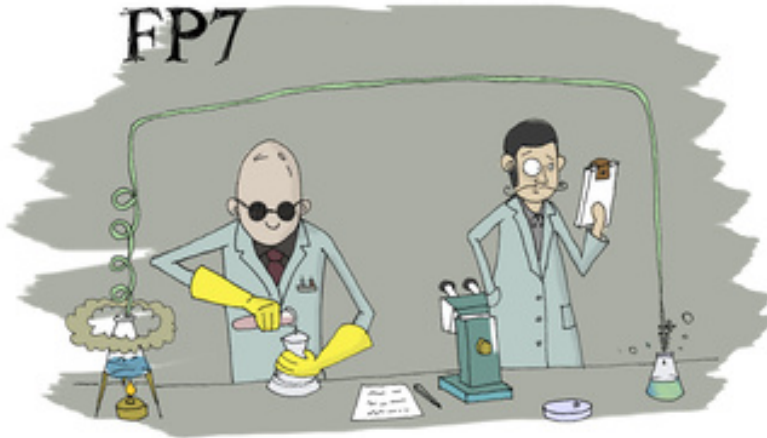
European Institute of Innovation and Technology (EIT)

Joint Programming P2P

Joint Technology Initiatives (JTI)



FP7



HORIZON 2020



andrea g. p. p.

# Partial Association of Switzerland



# Swiss participation in H2020

As Switzerland is not associated to H2020, it is treated as a third industrialized country.

## equal participation in collaborative projects

(add. 3 partners from 3 EU & associated countries)

- no EU funding for CH
- Swiss government intends to fund project by project on a national level

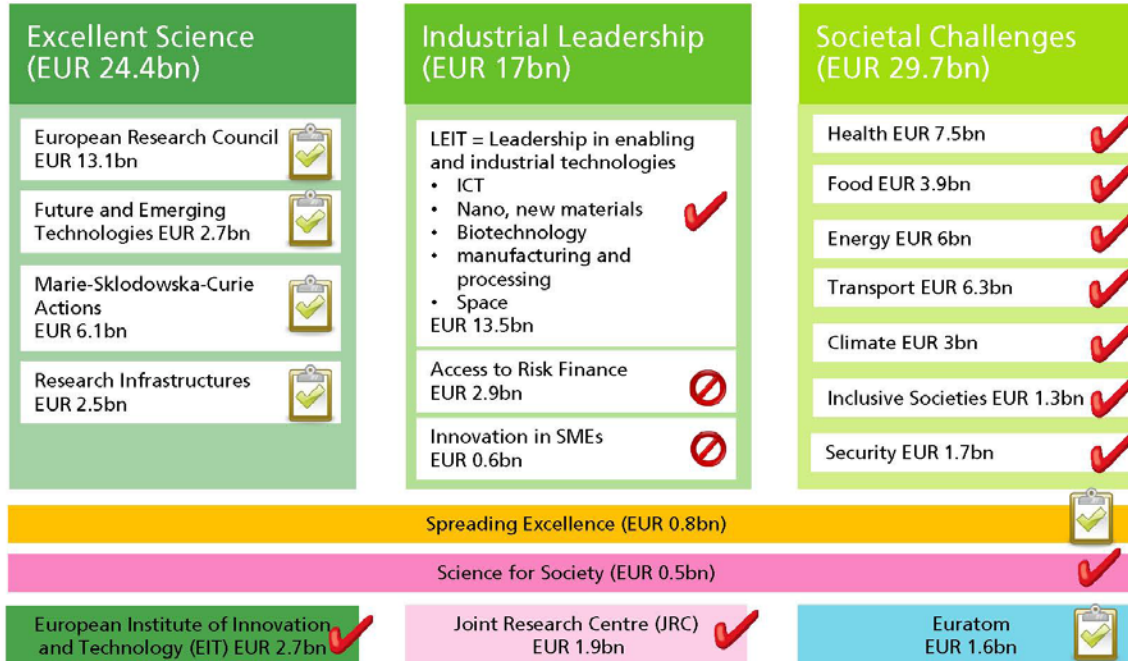
## Part association in Pillar 1: individual grants

- ERC
- MSCA individual with Swiss host institution
- Still: **no** SME instrument


# Partial Association of Switzerland




## Switzerland's participation 2014–2016



Switzerland's participation in Horizon 2020 (As of: 15.09.2014)

 CH Association (Sept. 2014 -Dec. 2016)

 CH participation as third country

 No CH participation

# Opportunity Finding



# Participant Portal



(A-Z) Sitemap About this site Contact Legal Notice English

European Commission

RESEARCH & INNOVATION  
Participant Portal

European Commission > Research & Innovation > Participant Portal > Home

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT

LOGIN REGISTER

## Horizon 2020 Funding

Starting from 1/1/2014

On this site you can find and secure **funding** for research & innovation projects under the following EU programmes:

- 2014-2020 Horizon 2020 - research and innovation framework programme
- 2007-2013 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)

**Non-registered users**

- search for funding
- read the funding guide & download the legal documents
- check if an organisation is already registered
- contact our support services or check our FAQs

**Registered users**

- submit your proposal
- sign the grant
- manage your project throughout its lifecycle

WHAT'S NEW? FUNDING OPPORTUNITIES HOW TO PARTICIPATE WORK AS AN EXPERT MY PERSONAL AREA INFORMATION AND SUPPORT

RESEARCH ON EUROPA CORDIS OLAF

© European Communities

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

# Participant Portal



RESEARCH & INNOVATION  
Participant Portal

European Commission > Research & Innovation > Participant Portal > Funding Opportunities

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT

**Horizon 2020**

- Calls
- Search Topics
- Call Updates

**FP7 & CIP Programmes**

- Calls
- Call Updates

COSME

Other Funding Opportunities

**Funding Opportunities**

Find the European Union funding grouped by the following program

- Horizon 2020 - EU research
- Seventh Framework Program
- Competitiveness and Innovation
- other research and innovation

**Horizon 2020**

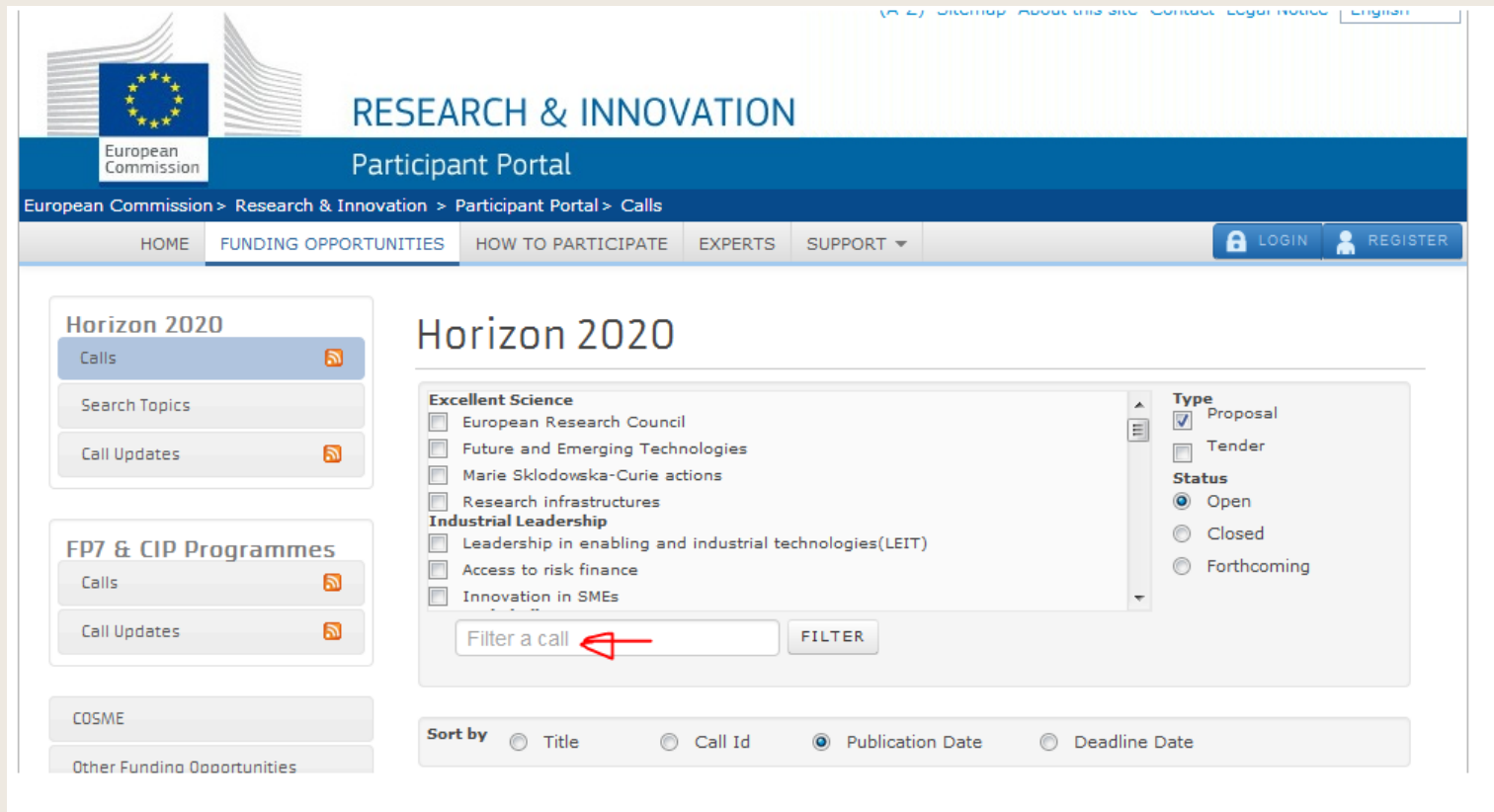
**FP7**

FP7 and innovation from 2007 to 2013: program

**COSME**

Program

# Participant Portal



European Commission > Research & Innovation > Participant Portal > Calls

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT LOGIN REGISTER

## Horizon 2020

Calls Search Topics Call Updates

## Horizon 2020

Filter a call FILTER

**Excellent Science**

- European Research Council
- Future and Emerging Technologies
- Marie Skłodowska-Curie actions
- Research infrastructures

**Industrial Leadership**

- Leadership in enabling and industrial technologies (LEIT)
- Access to risk finance
- Innovation in SMEs

**Type**

- Proposal
- Tender

**Status**

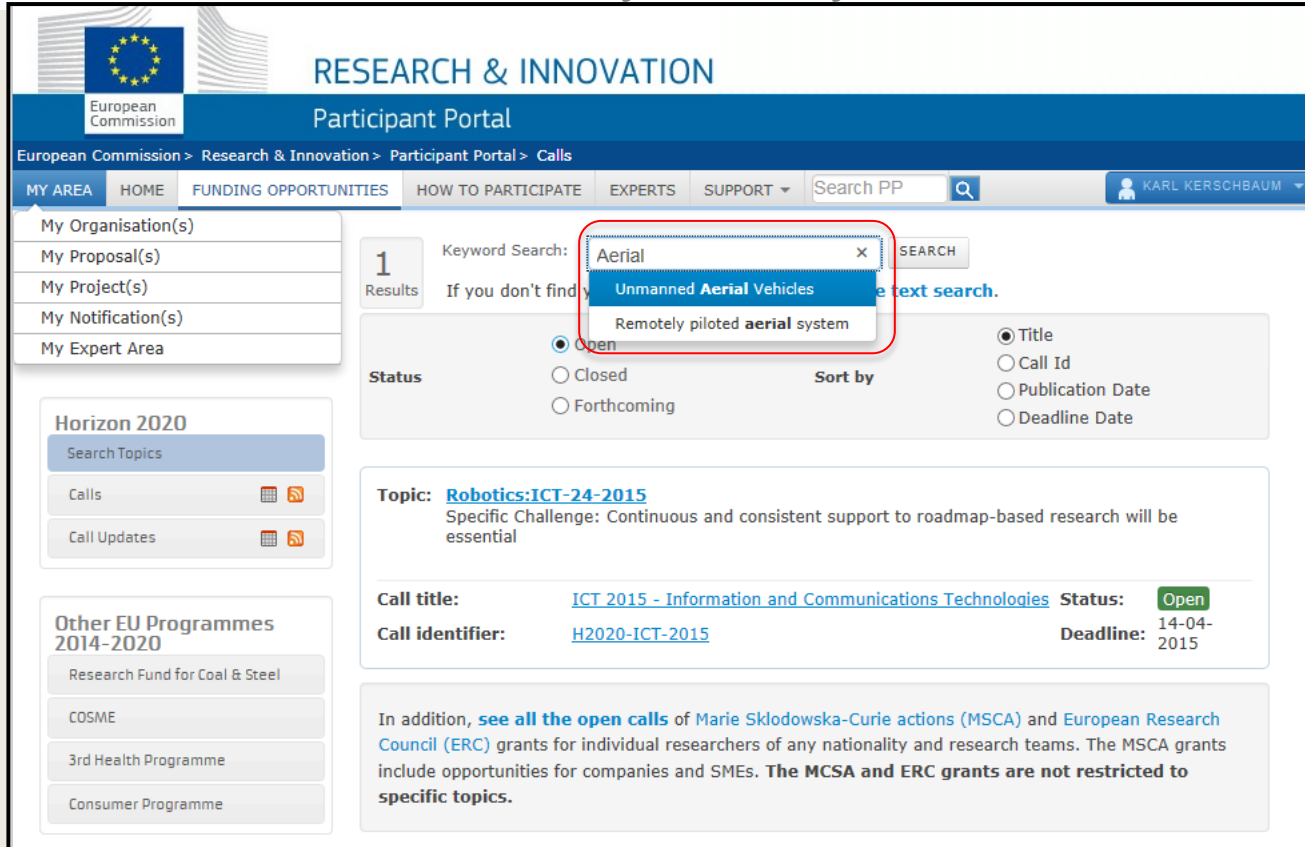
- Open
- Closed
- Forthcoming

Sort by  Title  Call Id  Publication Date  Deadline Date

COSME Other Funding Opportunities



# Search topics: a transversal search for your keywords



RESEARCH & INNOVATION  
Participant Portal

European Commission > Research & Innovation > Participant Portal > Calls

MY AREA HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT Search PP KARL KERSCHBAUM

My Organisation(s)  
My Proposal(s)  
My Project(s)  
My Notification(s)  
My Expert Area

1 Results  
Keyword Search: Aerial SEARCH  
If you don't find what you're looking for, try a [text search](#).

Open  
 Closed  
 Forthcoming

Title  
 Call Id  
 Publication Date  
 Deadline Date

**Topic:** [Robotics:ICT-24-2015](#)  
 Specific Challenge: Continuous and consistent support to roadmap-based research will be essential

**Call title:** [ICT 2015 - Information and Communications Technologies](#) **Status:** Open

**Call identifier:** [H2020-ICT-2015](#) **Deadline:** 14-04-2015

In addition, [see all the open calls](#) of Marie Skłodowska-Curie actions (MSCA) and [European Research Council \(ERC\)](#) grants for individual researchers of any nationality and research teams. The MSCA grants include opportunities for companies and SMEs. **The MCSA and ERC grants are not restricted to specific topics.**

[https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/search/search\\_topics.html](https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/search/search_topics.html)

## Other funding opportunities (examples)

### PPP

- euRobotics AISBL <http://eurobotics-project.eu/>
- SPARC <http://sparc-robotics.eu>

### other European programmes:

- Eurostars <https://www.eurostars-eureka.eu/>

### Search tool:

- Public Tenders <http://www.publictenders.net>

# Other funding opportunities (examples)

## Swiss Programmes

### SNSF grants

- mobility grants for every stage of your career
- national funding in Ambizione or SNSF professorship

<http://www.snf.ch/en/funding/international-funding/Pages/default.aspx>

### international funding

- UAS Fund

[www.uasamericafund.com](http://www.uasamericafund.com)

# ICT-24-2015: Robotics



# ICT 24: Specificities of the Topic

## Budget

- All type of actions → 100% reimbursement rate up to TRL 4, incl. for industry, SME
- Deadline:  
Single Stage 14 April 2015 → detailed budget should be provided already
- EU contribution:

Call	Type of action	Funding
ICT 24.a	Research & Innovation	€ 47 Mio
ICT 24.	Innovation	€ 12 Mio
ICT 24.b	Innovation	€ 12 Mio
ICT 24.d	PCP	€ 5 Mio
ICT 24.e	Coordination and Support	€ 4 Mio

# ICT 24: Specificities of the Topic

## Evaluation criteria and thresholds

Criterion	Threshold
Excellence	3/5
Impact	3/5
Quality and efficiency of the implementation	3/5
Overall	10/15

# <http://ec.europa.eu/digital-agenda/en/news/horizon-2020-ict-23-and-ict-24-robotics>

## Horizon 2020 - ICT 23 and ICT 24 Robotics

Last edited by [Newsroom Editor](#) on 28/01/2014

SHARE THIS

### Update! NEW Q&A (15/9/2014)

#### Horizon 2020 - ICT 23 and ICT 24 Robotics

The first Call for Proposals of H2020 is now [open](#) and will close on 23/04/2014. The Robotics unit of the Communication Networks, Content and Technology Directorate-General held an information event in Luxembourg on the 13th and 14th January 2014 presenting the activities, focus and goals of "Robotics" within the calls.

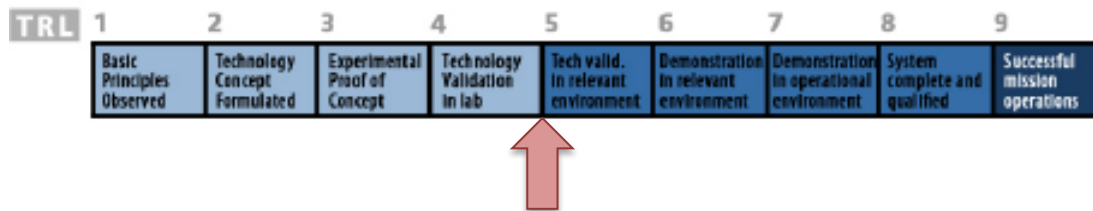
The presentations are available below.

#### Related Documents:

- ▶ [01 Q&A](#)
- ▶ [02 Introduction L. Kral](#)
- ▶ [03 Robotics in H2020 - J. Heikkilä](#)
- ▶ [04 SRA based research - C Huet](#)
- ▶ [05 Robotics use cases - A Puente Rodero](#)
- ▶ [06 Shared resources and assessment - A Bajart](#)
- ▶ [07 industry-academia cross fertilisation community building robotic competitions B Juretzki](#)
- ▶ [08 Pre-commercial procurement -M Baldyga](#)
- ▶ [09 Impact and TRLs - F Mastroddi](#)
- ▶ [10 PCB: an example of the CIVIP project by A. Bledar](#)

# ICT 24: Specificities of the Topic

## Technology Readiness Level



The LEIT-ICT-Robotics Call does **not** specify which TRLs should be targeted. This is up to the proposer. However proposers should indicate the TRL they were starting from and the TRL they are aiming at.

[Questions and Answers on " Horizon 2020 - ICT 23 and ICT 24 Robotics "](http://ec.europa.eu/digital-agenda/en/news/horizon-2020-ict-23-and-ict-24-robotics):  
<http://ec.europa.eu/digital-agenda/en/news/horizon-2020-ict-23-and-ict-24-robotics>



# ICT 24: Specificities of the Topic

## Relevant Types of Action:

RIA: advance key technologies relevant for industrial and service robotics  
- healthcare, consumer, transport

Coordination Actions: Community building and Robotic competitions

[Questions and Answers on " Horizon 2020 - ICT 23 and ICT 24 Robotics "](http://ec.europa.eu/digital-agenda/en/news/horizon-2020-ict-23-and-ict-24-robotics)  
<http://ec.europa.eu/digital-agenda/en/news/horizon-2020-ict-23-and-ict-24-robotics>

# ICT 24: Impact

- Increase **Europe's market** share in industrial and domestic service robots
- Improve the **competitiveness** of Europe's manufacturing sector
- Increase **Industry-Academia cross-fertilisation**
- Deploy robotics technologies in **new application domains**.
- Improve **Technology Readiness Levels**

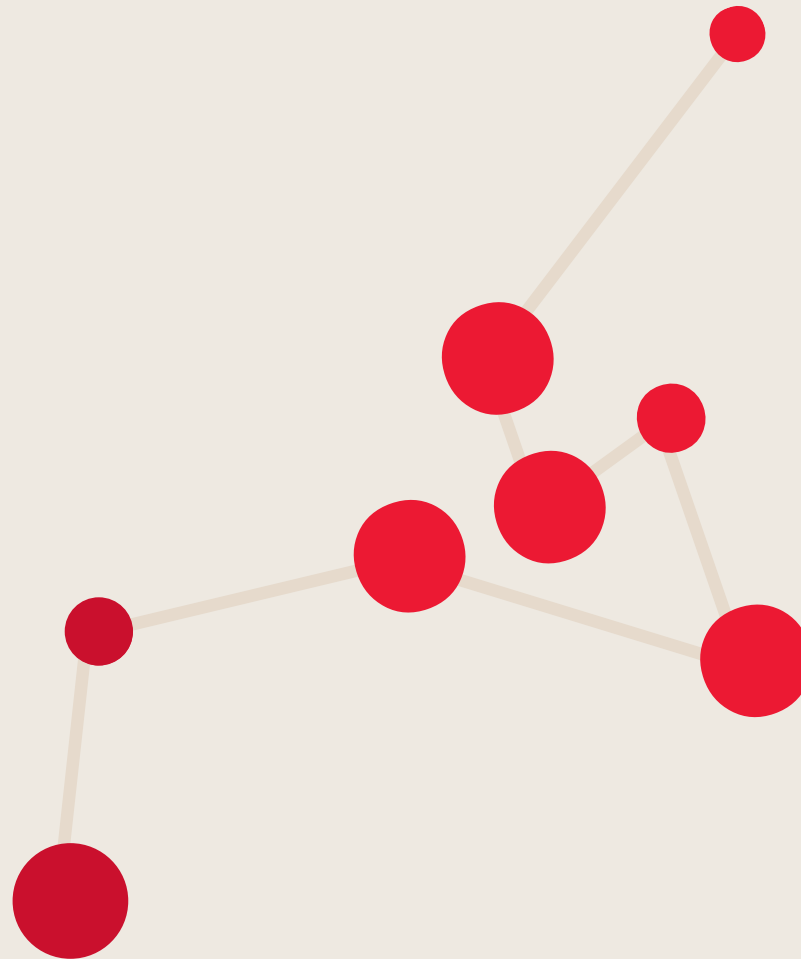
Create and maintain **world class research** in Europe and achieve excellent standards of publications and research outputs.

- Ensure sufficient numbers of **well-trained professionals** required by the growth of the industry.
- Ensure wide use of **shared resources**.

Plus, for ICT 24:

- Contribute to an **inclusive society** through robotic technologies (e.g. exoskeleton, advanced prosthesis).
- Address **ethical, legal and societal** issues and engage the wider public.

# Consortium & Partners



# Consortium & Partners

## A well-balanced consortium

- Scientifically
- Geographically

The selection and number of partners must be exclusively driven by the project's needs in order to achieve its goals. Selection is dictated by the job at hand, based on partners qualifications, scientific track record (reference their most relevant publications), and their ability to complement each other's roles, skills and levels of experience. Make sure you have enough partners to do the job - but not more than needed. Optimise the use of skills available.

[Questions and Answers on " Horizon 2020 - ICT 23 and ICT 24 Robotics "](http://ec.europa.eu/digital-agenda/en/news/horizon-2020-ict-23-and-ict-24-robotics):  
<http://ec.europa.eu/digital-agenda/en/news/horizon-2020-ict-23-and-ict-24-robotics>

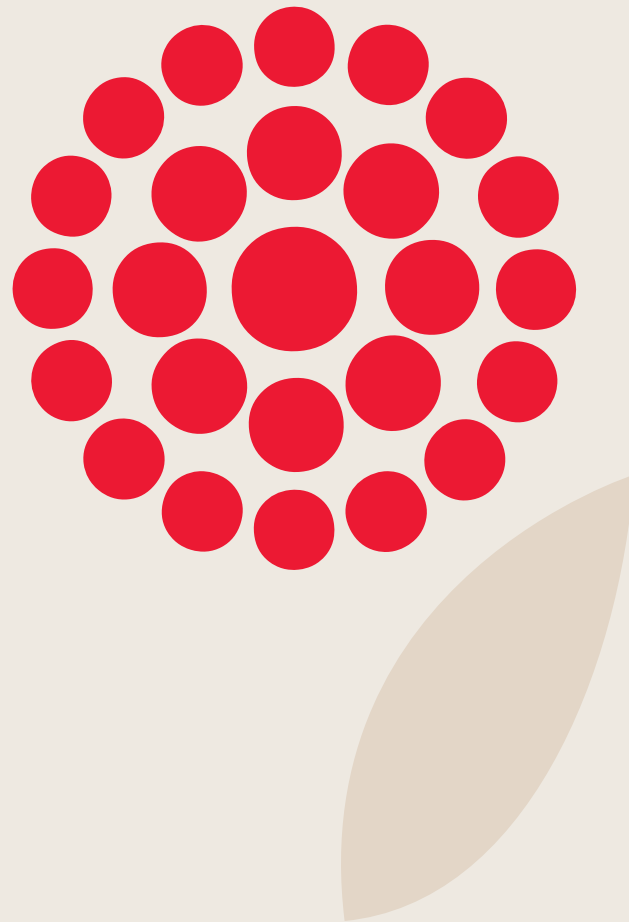
# Finding further partners

Provider	Name of the platform	Link
Partner Search for Robotics	Ideal-ist ICT in H2020	<a href="http://www.ideal-ist.eu">www.ideal-ist.eu</a>
Former FP7 projects	FP7 project database on Cordis	<a href="http://cordis.europa.eu/fp7/projects_en.html">cordis.europa.eu/fp7/projects_en.html</a>

## + Networking

Look for partners who already have experience in FP7 projects, possibly with coordination

# Ethical issues



# Ethical issues

European Commission - Research - Participants  
**Proposal Submission Forms**  
 Directorate-General for Research and Innovation

Proposal ID \_\_\_\_\_ Acronym \_\_\_\_\_

### 4 - Ethics issues table

Section	Question	Yes	No	Page
<b>1. HUMAN EMBRYOS/FOETUSES</b> <sup>i</sup>				
	Does your research involve <a href="#">Human Embryonic Stem Cells (hESCs)</a> ?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
	Does your research involve the use of human embryos?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
	Does your research involve the use of human foetal tissues / cells?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
<b>2. HUMANS</b>				Page
	Does your research involve human participants?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
	Does your research involve physical interventions on the study participants?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
	Does it involve invasive techniques?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
<b>3. HUMAN CELLS / TISSUES</b>				Page
	Does your research involve human cells or tissues? If your research involves human embryos/foetuses, please also complete the section "Human Embryos/Foetuses" [Box 1]	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
<b>4. PROTECTION OF PERSONAL DATA</b> <sup>ii</sup>				Page
	Does your research involve personal data collection and/or processing?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
	Does your research involve further processing of previously collected personal data (secondary use)?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
<b>5. ANIMALS</b> <sup>iii</sup>				Page
	Does your research involve animals?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

European Commission - Research - Participants  
**Proposal Submission Forms**  
 Directorate-General for Research and Innovation

Proposal ID \_\_\_\_\_ Acronym \_\_\_\_\_

### 6. NON-EU COUNTRIES

Question	Yes	No	Page
Does your research involve non-EU countries?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Do you plan to use local resources (e.g. animal and/or human tissue samples, genetic material, live animals, human remains, materials of historical value, endangered fauna or flora samples, etc)?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Do you plan to import any material - including personal data - from non-EU countries into the EU? If you consider importing data, please also complete the section "Protection of Personal Data" [Box 4].	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Do you plan to export any material - including personal data - from the EU to non-EU countries? If you consider exporting data, please also complete the section "Protection of Personal Data" [Box 4].	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
If your research involves <a href="#">low and/or lower middle income countries</a> , are benefits-sharing measures foreseen?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Could the situation in the country put the individuals taking part in the research at risk?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

### 7. ENVIRONMENT PROTECTION

<sup>i</sup> Directive 2002/43/EC, <sup>ii</sup> Directive 2009/4 JEC, <sup>iii</sup> Regulation EC No 1286/2009, <sup>iv</sup> Directive 2006/69/EC, <sup>v</sup> Council Directive 90/453/EEC, <sup>vi</sup> Council Directive 79/409/EEC, <sup>vii</sup> Council Regulation EC No 338/07

Question	Yes	No	Page
Does your research involve the use of elements that may cause harm to the environment, to animals or plants?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Does your research deal with endangered fauna and/or flora and/or protected areas?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Does your research involve the use of elements that may cause harm to humans, including research staff?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

### 8. QUAL USE

<sup>xiii</sup>

Question	Yes	No	Page
Does your research have the potential for military applications?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

### 9. MISUSE

Question	Yes	No	Page
Does your research have the potential for malevolent/criminal/terrorist abuse?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

### 10. OTHER ETHICS ISSUES

Question	Yes	No	Page
Are there any other ethics issues that should be taken into consideration? Please specify	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

I confirm that I have taken into account all ethics issues described above and if any ethics issues apply, I have attached the required documents.

Legal Info

# Ethical issues

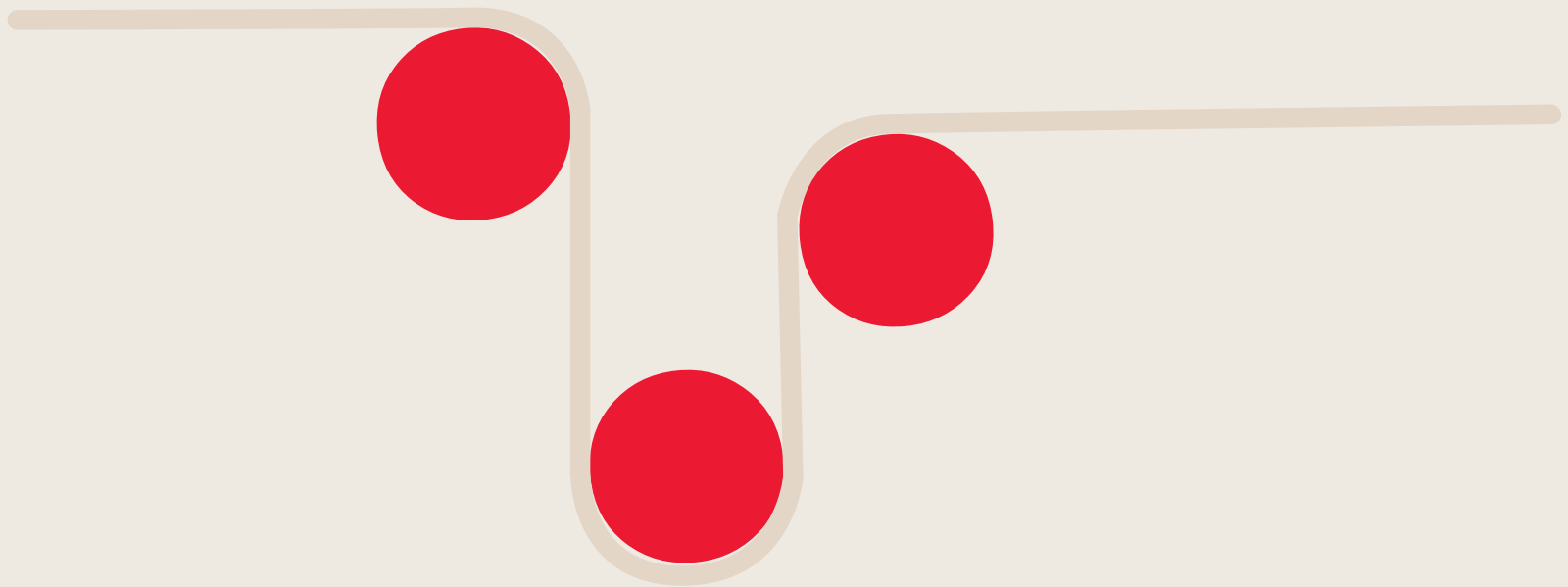
## **What is expected in addressing ethical, legal, societal and economic aspects of robotics?**

Above all, a roadmap is expected to result which can help the robotics community and the public at large keep track of this complex and evolving topic, and help developers and businesses to anticipate or to evaluate ELSE barriers to technology development and deployment of emerging technologies, like driverless cars, civil drones or social robots, taking into account the equally important social and economic aspects. Proposals should address topics such as:

- potential ethical & legal issues surrounding future robotics deployment regarding e.g. data privacy, dealing with the public or vulnerable sections of society, legal rights and liability, potential dual use etc.
- societal concerns such as public attitudes to and acceptance of robots designed to perform social tasks in close contact with citizens,
- economic opportunities and barriers to widespread take up; the scale and effects of automation and robotics on the economy (labour market, wage polarization) etc.



# Proposal writing, Coordination & Management



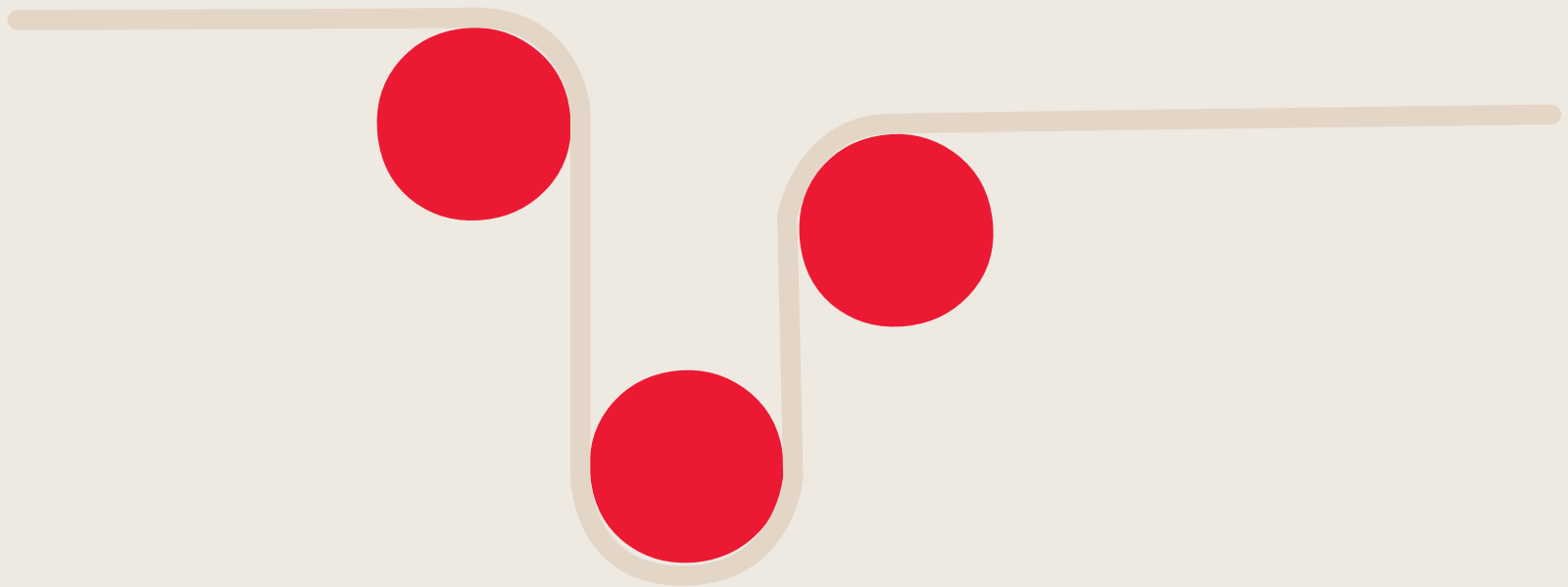
# Grant writing, Coordination and Management

## Coordination and management are complementary

For consortium with fewer than 12 partners:

1. Management **in house**
2. **Hire 1-2 (part-time) persons in house** who will stay the entire duration of the project
3. **External firm:**
  1. by projects with > 10-15 partners
  2. close-by
  3. renowned and with experience IN YOUR FIELD
  4. Most probably as additional Beneficiary to the grant agreement

# Financial aspects



# Financial aspects

European Commission - Research - Participants  
**Proposal Submission Forms**  
 Directorate-General for Research and Innovation

Proposal ID \_\_\_\_\_ Acronym \_\_\_\_\_

## 3 - Budget for the proposal

Participant	Country	(A) Direct personnel costs/€	(B) Other direct costs/€	(C) Direct costs of sub- contracting /€	(D) Direct costs of providing financial support to third parties/€	(E) Costs of inkind contributions not used on the beneficiary's premises/€	(F) Indirect Costs/€ (=0.25(A+B-E))	(G) Special unit costs covering direct & indirect costs	(H) Total estimated eligible costs/€ (=A+B+C+D+F +G)	(I) Reimburse- ment rate	(J) Max. grant / € (=H*I)	(K) Requested grant / €
		0	0	0	0	0	0	0	0	100	0	0
<b>Total</b>		0	0	0	0	0	0	0	0		0	0

not to complete

# Financial aspects

## Basic Rules

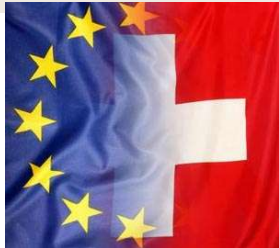
- Overall consortium's budget including CH not higher than EU prescription
- Simplification: 100% funding rate; 25% OH
- Subcontracting:
  - best value for money
  - only for a task, not for a whole Work Package

# Financial aspects

## Funding by SERI

Details to be announced in November on [www.h2020.ch](http://www.h2020.ch)

# Visit our upcoming events



**Conference on European Research Funding: Horizon 2020 and Switzerland: Thinking Ahead**

**Thursday, 6. November 2014,  
10.30 Uhr to 17:00 Uhr**  
Semper Aula der ETH Zürich (HG G 60)  
Rämistrasse 101, 8092 Zürich

<http://grantsaccess.ethz.ch/de/servicesupport/veranstaltungen/6112014-horizon-2020-and-switzerland-thinking-ahead/>

(IDEASLAB: FET AS AN INNOVATION ECOSYSTEM)



**Der SNF besucht die ETH Zürich**

**Mittwoch, 26. November 2014**

ETH Zentrum HG, Eingangshalle / Audi Max

<http://www.snf.ch/en/researchinFocus/newsroom/Pages/news-141002-agenda-tag-der-forschung.aspx>



<http://www.swiss-innovation.com/eureka>

**eu Robotics week**

<http://eurobotics-project.eu/eurobotics-week/about-eurobotics-week/>

Thank you very much for your interest.

**Karl Kerschbaum**

EU GrantsAccess

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