

# HORIZON 2020

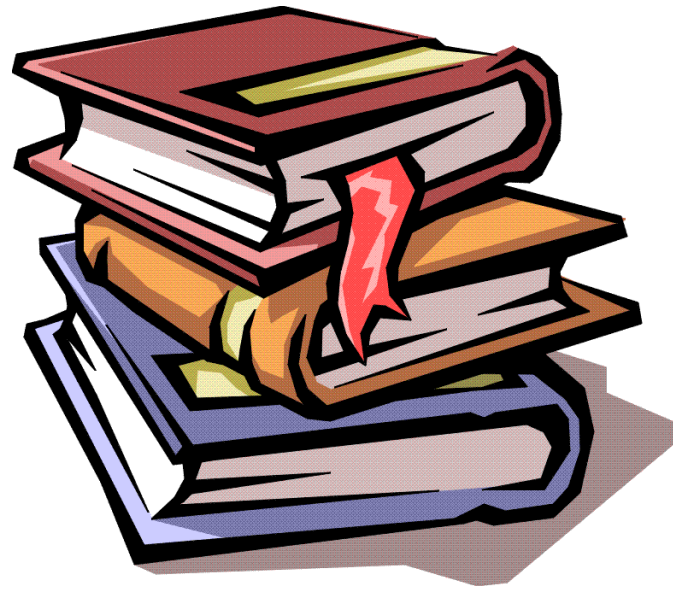
What is new?

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# Agenda

- Introduction and background
- Rules for participation
- Where to find topics? How to apply?
- Get started!
- Switzerland a «third contry»
- Impacts of projects on Swiss economy



# INTRODUCTION AND BACKGROUND

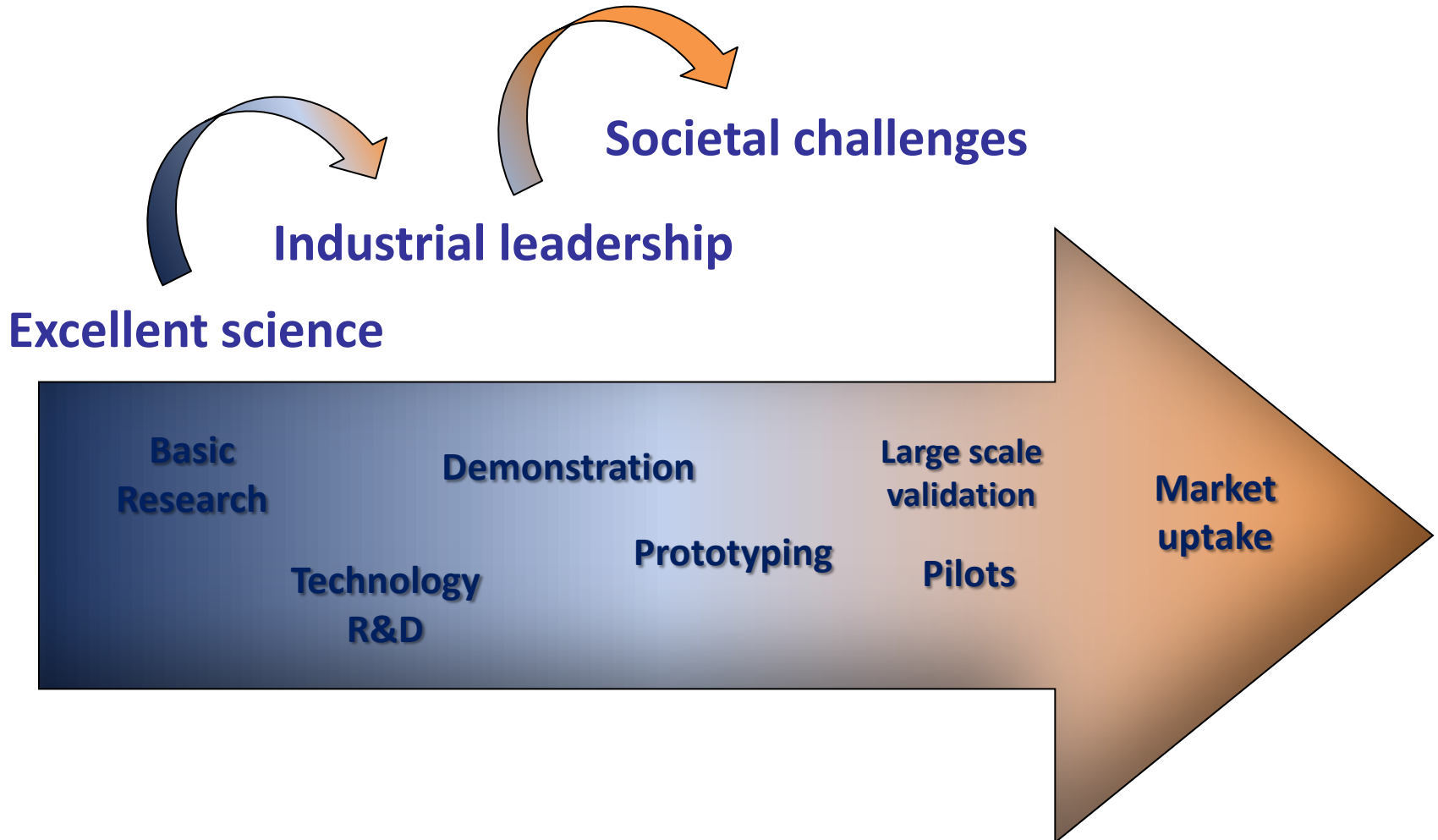
# What is H2020?

- A single programme **bringing together three separate programmes/initiatives\***
- **Coupling research to innovation – from research to retail, all forms of innovation (based on TRLs\*\*)**
- **Focus on societal challenges facing EU society, e.g. health, clean energy and transport**
- **Simplified access, for all companies, universities, institutes in all EU countries and beyond.**

\* The 7th Research Framework Programme (FP7), innovation aspects of Competitiveness and Innovation Framework Programme (CIP), EU contribution to the European Institute of Innovation and Technology (EIT)

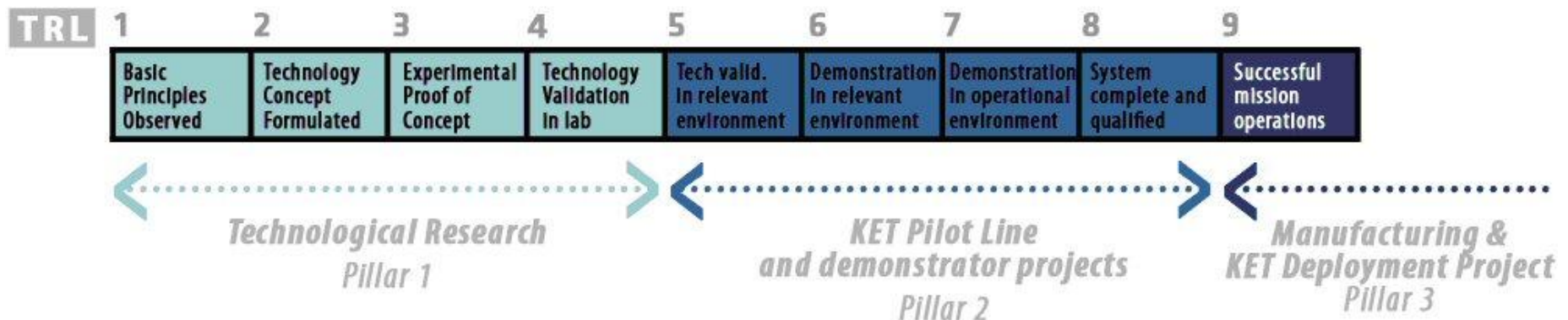
\*\* TRL= Technology Readiness Level

# Coverage of the full innovation chain



# Technology Readiness Levels (TRLs)

## – a useful tool in development and deployment of KETs



- NMP in FP7: TRLs 1 – 4;  
up to 5-6 in 2012-13 (pilots and demonstrators)
- LEIT KETs: TRLs 3/4 – 7; centre at TRLs 5-6

# Key aspects

- Less precise information on cost limits: budget has to be justified
- Reference to Technology Readynes Levels (TRL) has to be met
- Impact session becomes more important (counts 1.5 for innovation actions)
- Business plans are mandatory for innovation actions
- Exploitation plans are key (industrial applications)
- No negotiation (no changes or improvements possible)

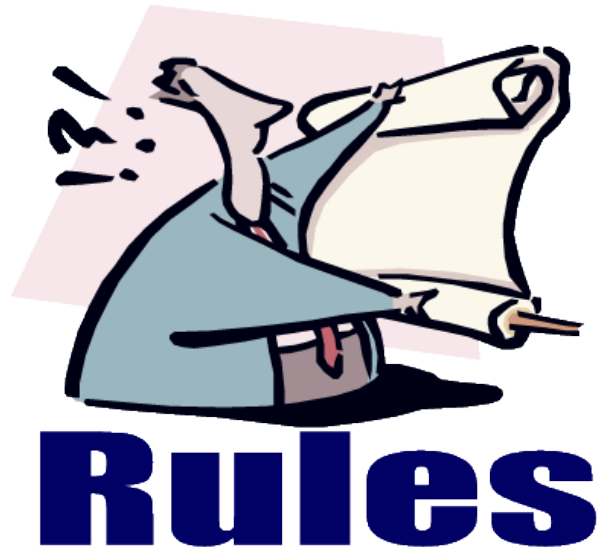


# “Juncker’s agenda”



*Refer to in your impact session!*





*Cooperation projects*

# **RULES FOR PARTICIPATION**

# What are the rules for participation?

- at least 3 independent partners in 3 different Member States (MS) or Associated Countries (AC) + **Switzerland**
- Partners can be European universities, SMEs and large industries, public bodies, NGOs, international organisations..... Practically everybody in Europe!
- top-down: EC defines topics and format (funding scheme) of projects
  - Annual Calls and deadlines
- Electronic submission (at participant portal) by the coordinator
- funding (based on location of partners)
  - 100% for basic research (TRL 1-4)
  - 70% for applied research (TRL 5-8)

**Not funded:** Industrialised third countries: USA, Japan, Canada, BRICs, **CH**

**Also funded:** International cooperation partner countries (ICPC).

# Simplified Funding Model

- **1 reimbursement rate by action** (same rate for all beneficiaries and all activities):
  - Up to 100% for Research and Innovation actions
  - Up to 70% for innovation (non-profit entities up to 100%) and programme co-fund actions
- **1 method for calculation of indirect costs:**
  - Flat rate of 25% of total direct costs, excluding subcontracting, costs of third parties and financial support to third parties
  - If provided in WP, lump sum or unit costs
- Total funding of the action may not exceed the **given limits (incl. Swiss partners)**



*Cooperation projects*

**WHERE TO FIND TOPICS?  
HOW TO APPLY?**

## HORIZON 2020

### Excellent Science

European Research Council (ERC)

Future Emerging Technologies (FET)

Marie Skłodowska Curie Actions (MSCA)

European Research Infrastructures

### Competitive Industries

Enabling and Industrial Technologies

Access to Risk Finance

Innovation in SMEs

### Societal Challenges

Health, Demographic Change and Wellbeing

Food Security, Sustainable Agriculture, etc.

Secure, Clean and Efficient Energy

Smart, Green and Integrated Transport

Climate Action, Resource Efficiency and Raw Materials

Inclusive, Innovative and Reflective Societies

Secure Societies

European Institute of Innovation & Technology (EIT) • Joint Research Centre (JRC)  
• Spreading Excellence and Widening Participation • Science with and for Society

# What you get

*Text for a topic in the work program*

- Specific Challenge

sets the context, the problem to be addressed, why intervention is necessary

- Scope

delineates the problem, specifies the focus and the boundaries of the potential action BUT without describing specific approaches

- Expected Impact

describes the key elements of what is expected to be achieved in relation to the specific challenge

# What they want



Scores single stage proposal		
Award criterion	Threshold	Max Score
Excellence	4	5
Impact	4	5
Quality and efficiency of implementation	3	5
<b>Total</b>	12	15

Impact counts  
1.5 for IA

**Note:** If a proposal fails to achieve the threshold for a certain criterion at any stage, the evaluation of the proposal will be stopped!

# Proposal structure

## 1. Excellence

*1.1 Objectives*

*1.2 Relation to the work program*

*1.3 Concept and approach*

*1.4 Ambition*

## 2. Impact

*2.1 Expected impacts*

*2.2 Measures to maximize impact*

a) Dissemination and exploitation of results

b) Communication activities

## 3. Implementation

*3.1 Work plan — Work packages, deliverables and milestones*

*3.2 Management structure and procedures*

*3.3 Consortium as a whole*

*3.4 Resources to be committed*



# Technology Platforms in Europe

Bio-based economy	Energy	Environment	ICT	Production and processes	Transport
EATIP	Biofuels	WssTP	ARTEMIS	<b>ECTP</b>	ACARE
ETPGAH	EU PV TP		EUROP	ESTEP	ERRAC
Food for Life	TPWind		ETP4HPC	EuMaT	ERTRAC
Forest-based	RHC		ENIAC	FTC	Logistics
Plants	SmartGrids		EPoSS	<b>SusChem</b>	Waterborne
FABRE TP	SNETP		ISI	Nanomedicine	
TP Organics	ZEP		Net!Works	ETP-SMR	
			NEM	<b>Manufuture</b>	
			NESSI		
			Photonics 21		
Cross ETP Initiatives					
Nanofutures					
Industrial Safety					

For more details: [http://cordis.europa.eu/technology-platforms/individual\\_en.html](http://cordis.europa.eu/technology-platforms/individual_en.html)

# Info sources

- Horizon 2020: <http://ec.europa.eu/programmes/horizon2020/>
- Participant portal: <http://ec.europa.eu/research/participants/portal/desktop/en/home.html>
- Industrial technologies EU: [http://ec.europa.eu/research/industrial\\_technologies/index\\_en.cfm](http://ec.europa.eu/research/industrial_technologies/index_en.cfm)
- European technology platforms: <http://cordis.europa.eu/technology-platforms/>
- NCP NMP website: <http://www.nmpteam.com/>
- Project search: Cordis (all projects): [http://cordis.europa.eu/projects/home\\_de.html](http://cordis.europa.eu/projects/home_de.html)



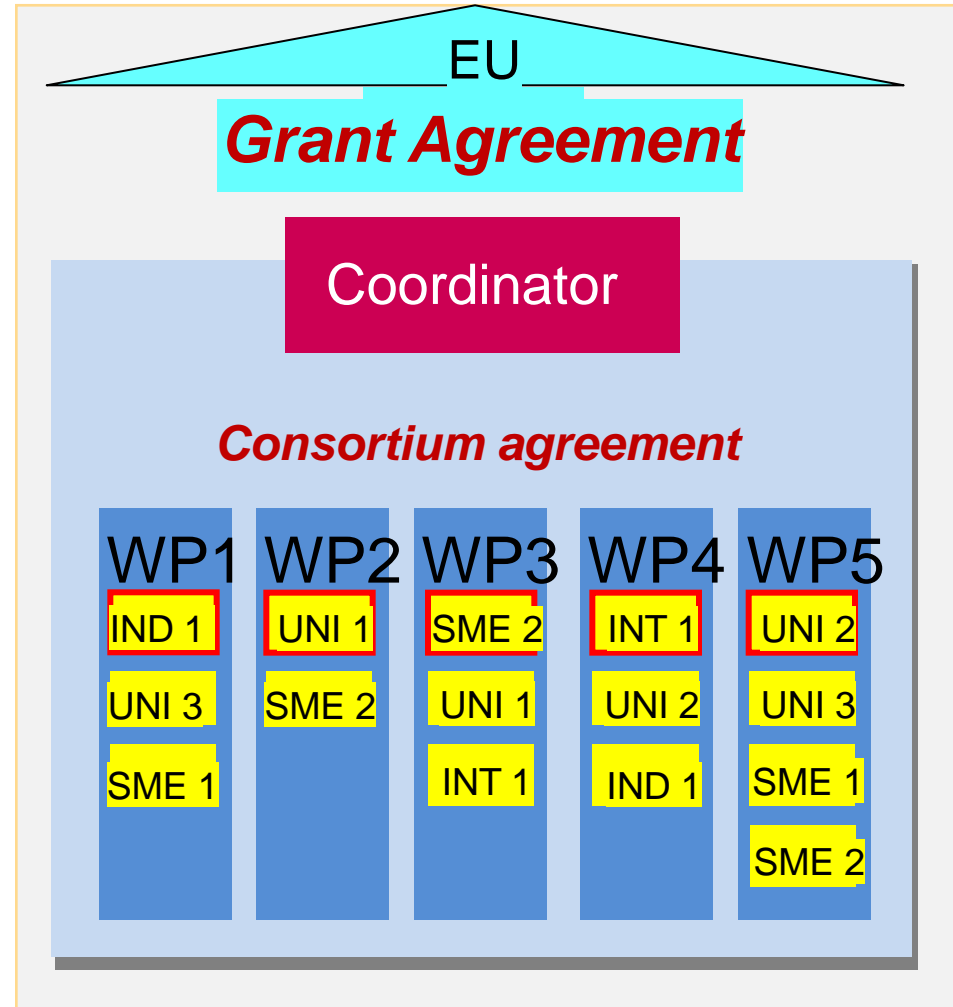
*Your personal approach*

**GET STARTED !**

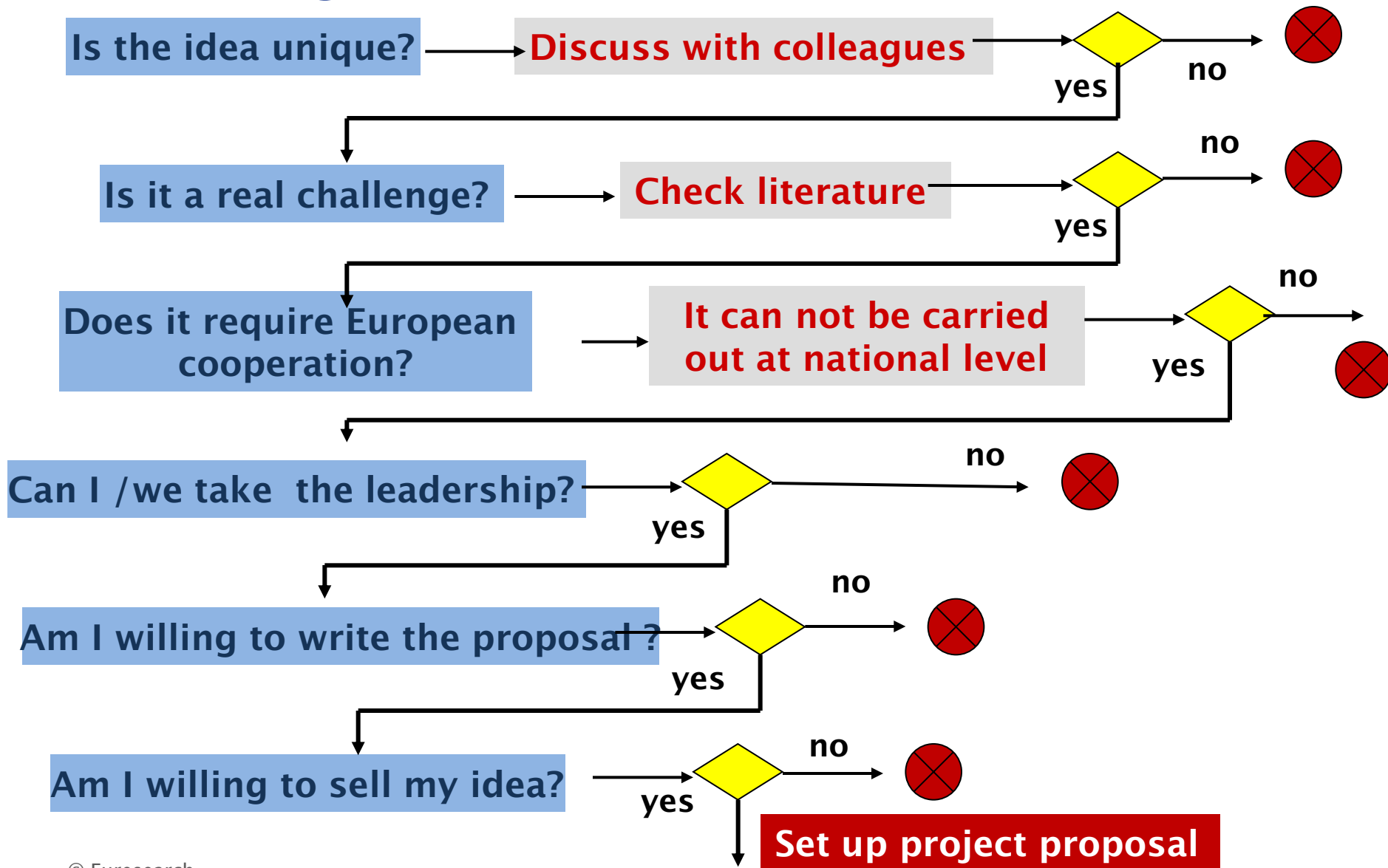
# A typical consortium

At least 3 legal entities from 3 different EU Member States (MS) / Associated Countries (AC)

**Switzerland does not count as AC!**



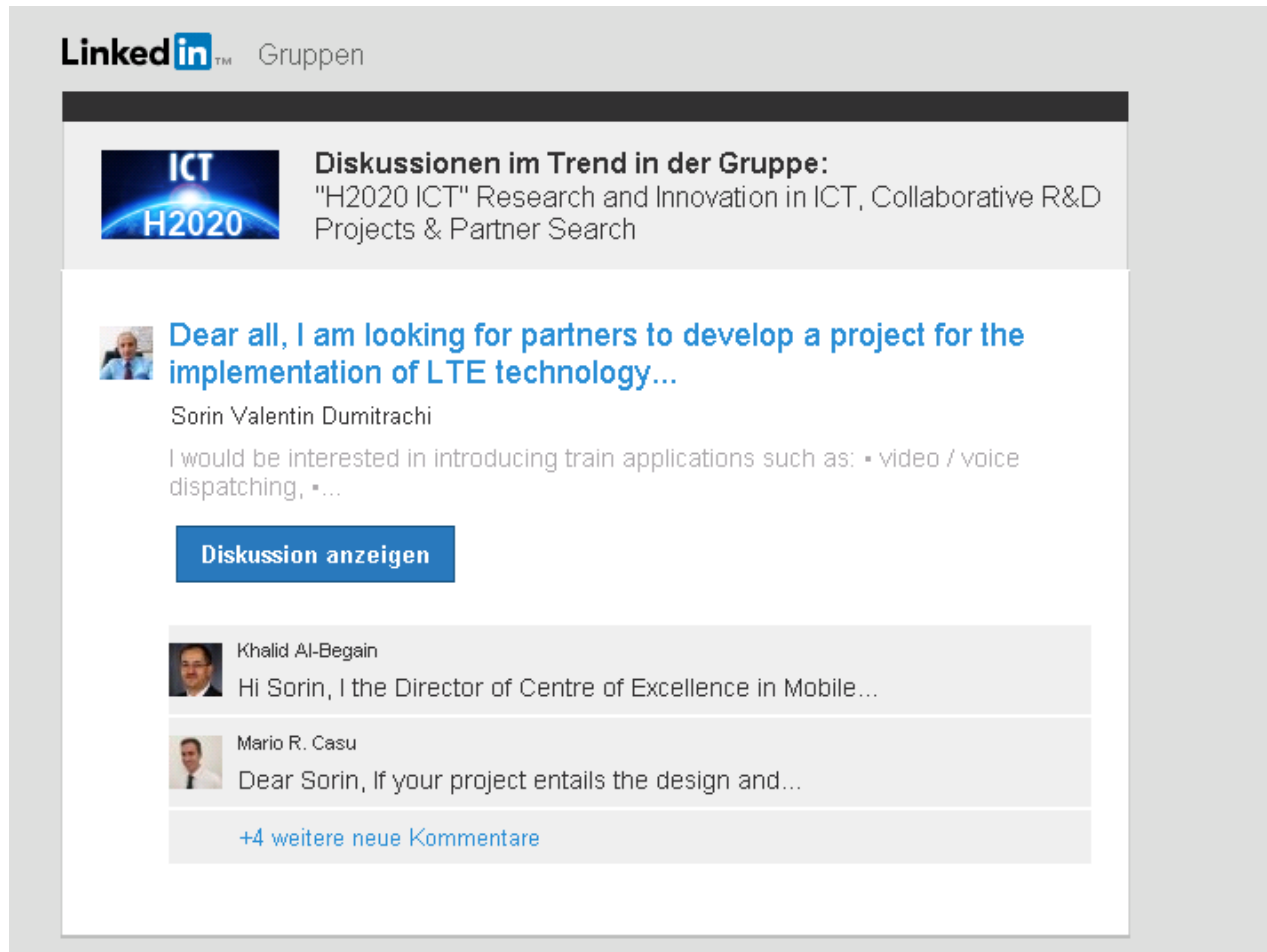
# Key questions before planning a proposal




# How to become involved

- Read the topic in the work program carefully
- Activate your international network
- Motivate a competent and experienced partner for coordination
- Set up a consortium with «top shots» of the requested competences
- Look for forming consortia


# Partner search



The screenshot shows a LinkedIn group page for "ICT H2020". The group title is "Diskussionen im Trend in der Gruppe: 'H2020 ICT' Research and Innovation in ICT, Collaborative R&D Projects & Partner Search". A post by Sorin Valentin Dumitrachi is visible, with the text: "Dear all, I am looking for partners to develop a project for the implementation of LTE technology...". Below the post is a blue button labeled "Diskussion anzeigen". Two replies are shown: one from Khalid Al-Begain saying "Hi Sorin, I the Director of Centre of Excellence in Mobile..." and another from Mario R. Casu saying "Dear Sorin, If your project entails the design and...". At the bottom of the replies, it says "+4 weitere neue Kommentare".

LinkedIn  Gruppen


**ICT H2020** Diskussionen im Trend in der Gruppe:  
"H2020 ICT" Research and Innovation in ICT, Collaborative R&D  
Projects & Partner Search


 **Dear all, I am looking for partners to develop a project for the implementation of LTE technology...**

Sorin Valentin Dumitrachi

I would be interested in introducing train applications such as: • video / voice  
dispatching, •...

[Diskussion anzeigen](#)

 Khalid Al-Begain  
Hi Sorin, I the Director of Centre of Excellence in Mobile...

 Mario R. Casu  
Dear Sorin, If your project entails the design and...

[+4 weitere neue Kommentare](#)

# Brokerage events with profiles

[A to Z](#) | [Sitemap](#) | [Legal notice](#) | [Cookies](#) | [Contact](#) | [Search](#) | [English \(en\)](#)



## RESEARCH & INNOVATION Key Enabling Technologies

[European Commission](#) > [Research & Innovation](#) > [Key Enabling Technologies](#) > [Public Private Partnerships...](#) > [H2020 Information Day on Research PPPs'](#)



### Networking/Brokerage activities

[Home](#) > [Public Private Partnerships in research](#) > [H2020 Information Day on Research PPPs 21 October 2014](#) > **Networking/Brokerage activities**

The brokerage events were organised in collaboration with the four Industry Associations, related to each PPP. The project ideas can be viewed on each Association's website :

[Energy-efficient Buildings \(EeB\)](#)

[Factories of the Future \(FoF\)](#) (in the Innovation Portal)

[Sustainable Process Industry \(SPIRE\)](#)

[EGreen Vehicles \(EGVI\)](#)

Share



[Energy-efficient Buildings \(EeB\)](#)

[Factories of the Future \(FoF\)](#)

[Sustainable Process Industry \(SPIRE\)](#)

[Other PPPs](#)

[Meetings and workshops](#)

**H2020 Information Day for PPPs  
21 October 2014**

- [Programme](#)
- [Practical information](#)
- **[Brokerage activities](#)**
- [Participants](#)



# CORDIS partner search



The screenshot shows the CORDIS website interface. At the top, there is the European Commission logo and the text "CORDIS Community Research and Development Information Service". Below this is a navigation bar with the breadcrumb "European Commission > CORDIS > Partners Service > Guest > Home" and a "Sign in" link. A menu of navigation buttons includes "Home", "News and Events", "Programmes", "Projects and Results", "Top Stories", "research\*eu magazines", "Research Partners" (which is highlighted), and "National and Regional".

## EU Research Partners

Looking for research partners?

You can:

- Search for partners
- Query more with an advanced search
- Browse these active profiles and collaboration requests to build your network:
  - 4483 Partner profiles
  - 91 Open Calls for Proposals
  - 3459 Partnership requests
    - 821 Proposing project
    - 2638 Offering collaboration
  - 332 Groups
- Contact [National Contact Point](#) networks to get further support to find partners in your specific theme
- View the [help pages and video tutorials](#)

Log in to create or update your profile

Username:

Password:

[Forgot your username or password?](#)  
[Not yet registered?](#)



# CORDIS project data base



The screenshot displays the CORDIS (Community Research and Development Information Service) website. At the top, there is a navigation bar with the European Commission logo and the text 'CORDIS Community Research and Development Information Service'. Below this is a breadcrumb trail: 'European Commission > CORDIS > Projects & Results Service > Results page'. A menu bar contains buttons for 'Home', 'News and Events', 'Programmes', 'Projects and Results', 'Top Stories', 'research\*eu magazines', 'Research Partners', and 'National and Regional'. A search box is located on the right side of the menu bar.

The main content area features a search engine interface. On the left, a text box contains the subject 'Biotechnology' with a red 'X' icon, and two download links: 'Download XML' and 'Download CSV'. Below this is a 'Refine by:' section with expandable options for 'Programme', 'Content type', and 'Country', followed by a link to 'Advanced search'. The search results are displayed in a list format. The first result is a report summary titled 'Periodic Report Summary 1 - TREAT&USE (Safe and efficient treatment and reuse of wastewater in agricultural production schemes)'. The second result is a brief titled 'Zum metabolischen Profil von Brustkrebszellen'. Each result includes a brief description, the programme name, record number, and last updated date.

**Search projects**

Free text

Results 1 - 10 of 26415

Results/page: 10

1 2 3 4 5 6 7 8 9 10 > >|

- [REPORT SUMMARY] [Periodic Report Summary 1 - TREAT&USE \(Safe and efficient treatment and reuse of wastewater in agricultural production schemes\)](#)  
 In the last years, the re-use of "reclaimed water" (i.e. treated waste water fulfilling the requirements for a specific use) has increased as alternative water resource for agriculture in Europe. In this sense, the Urban Waste Water Directive (Directive 91/271/EEC) states...  
**Programme:** FP7-KBBE  
**Record Number:** 147565  
**Last updated on:** 2014-09-05
- [RESULT IN BRIEF] [Zum metabolischen Profil von Brustkrebszellen](#)  
 In den westlichen Industriestaaten wird bei jeder achten Frau ein invasives Mammakarzinom diagnostiziert. Das Projekt METACANCER baute auf vorangegangenen Studien zu Genmutationen in Brustkrebszellen auf und untersuchte Stoffwechselveränderungen in nachgeschalteten Kaskaden.  
**Programme:** FP7-HEALTH  
**Record Number:** 90464  
**Last updated on:** 2013-02-21  
**Available languages:** [DE](#), [EN](#), [ES](#), [FR](#), [IT](#), [PL](#)

# When writing your proposal,

## ask the following questions:

- **What problem are you trying to solve? *Is it relevant to the call and roadmap?***  
-> *section excellence 1 and 2*
- **Is it a trans-disciplinary, value-chain problem?**  
-> *section excellence 3*
- **Why you? Are you the best industry and academia people to do this work?**  
-> *section implementation*
- **Why this project now? (are you aiming at industrial standards?)**  
-> *section impact*
- **What is the impact and how will we make it happen?**  
-> *section impacts (industry)*


























*After the Mass Immigration Initiative*


# SWITZERLAND AS «THIRD COUNTRY»


# Partial Association 15.9.2014 - 31.12.2016

Excellent Science (EUR 24.4bn)	Industrial Leadership (EUR 17bn)	Societal Challenges (EUR 29.7bn)
European Research Council EUR 13.1bn 	LEIT = Leadership in enabling and industrial technologies • ICT • Nano, new materials  • Biotechnology • manufacturing and processing • Space EUR 13.5bn	Health EUR 7.5bn 
Future and Emerging Technologies EUR 2.7bn 	Access to Risk Finance EUR 2.9bn 	Food EUR 3.9bn 
Marie-Sklodowska-Curie Actions EUR 6.1bn 	Innovation in SMEs EUR 0.6bn 	Energy EUR 6bn 
Research Infrastructures EUR 2.5bn 		Transport EUR 6.3bn 
		Climate EUR 3bn 
		Inclusive Societies EUR 1.3bn 
		Security EUR 1.7bn 
		
		Spreading Excellence (EUR 0.8bn) 
		Science for Society (EUR 0.5bn) 
European Institute of Innovation and Technology (EIT) EUR 2.7bn 	Joint Research Centre (JRC) EUR 1.9bn 	Euratom EUR 1.6bn 

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

 CH Association (Sent 2014 - Dec 2016)

 CH participation as third country

 No CH participation

**Innovation in SMEs:**  
Note that national funding allows participation in multi beneficiary actions.

## Swiss Participation in Horizon 2020

In its meeting of 22 October 2014, the Federal Council approved the agreement on Switzerland's participation in the Horizon 2020 research programme. The agreement covers Switzerland's **partial association to the programme between 15 September 2014 and 31 December 2016.**

[New Info in German](#)

[New Info in French](#)

[New Info in English](#)

[Swiss Participation in Horizon 2020](#)

[New – SERI Graphic: CH Participation](#)

*For motivation*

# **IMPACT ON SWISS ECONOMY?**

# Impact on Swiss economy

- Private sector: 1.04 permanent work places, 2.27 temporary work places per project
- Private sector: 37% producing industry
- 1 spinn-off per 10 participations
- 7 peer reviewed publications + 4.5 others
- 10 oral presentations given
- 78% aim for a continuation of cooperation after the project





# FAQ

# Entrepreneurship – a spirit not a work



**“If you want to build a ship,  
don't drum up people together  
to collect wood and don't  
assign them tasks and work,  
but rather teach them to long  
for the endless immensity of  
the sea”**

Antoine de Saint-Exupery