Delegation of the European Union
駐日欧州連合代表部

Opportunities for Research Collaboration under Horizon 2020 programme

Tohoku University
3 September 2018

Tom Kuczynski
Science and Technology
EU Delegation to Japan

- EU-Japan S&T Cooperation
- Horizon 2020
  - Overview (3 pillars):
  - Excellent Science (supporting researchers' mobility (MSCA) and frontier research grants (ERC))
  - Industrial Leadership
  - Societal Challanges
  - Work Programme 2018-2020
  - Beyond Horizon 2020 (Horizon Europe)
  - Japan's participation in Horizon 2020

- Useful tools
  Horizon 2020 Participant Portal
  Country page
  CORDIS – Partner Search / Database with FP projects

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Areas of EU-Japan Research Cooperation

Current priority areas:

- Information and Communication Technologies(5 joint calls)
- Critical Raw Materials (2 joint calls)
- Aeronautics (2 joint calls)

Other important areas:

- Renewable Energies
- Health/Medical
- Space
- Security
- High Energy Physics
- Polar Research
- Nuclear Safety (Under EURATOM)
- Fusion Energy (Under EURATOM)

Multilateral cooperation:

- Human Frontier Science Program
- ITER
- G7

WHAT IS HORIZON 2020?

- *A single programme: €80 billion research and innovation funding programme (2014-2020)*
- *30 years history*

- *28 Member States*
- *24% of world expenditure on research*
- *32% of high-impact publications*
- *32% of patent applications*
- *16 Associated Countries*

- *Coupling research with innovation: 'from lab to market'*

- *Focus on societal challenges: health, clean energy, transport, etc.*

- *Open to participation: companies, universities, institutes in the EU and beyond*

Benefits of collaboration under Horizon 2020

- Open to the world *– join top level research teams*
- Networks
- all TRL (from basic research to market)
- high level joint publications in EN
- communication in EN
- learning and training programmes (for young researchers, support staff)
- one entry point, one sets of rules (leading role of the coordinator)
- success rate ca. 15%

- internationalization (average project 10 organisations 5-7 countries)
- exchange / receive researchers (IF, RISE)

- standardization / trends
- competition / collaboration

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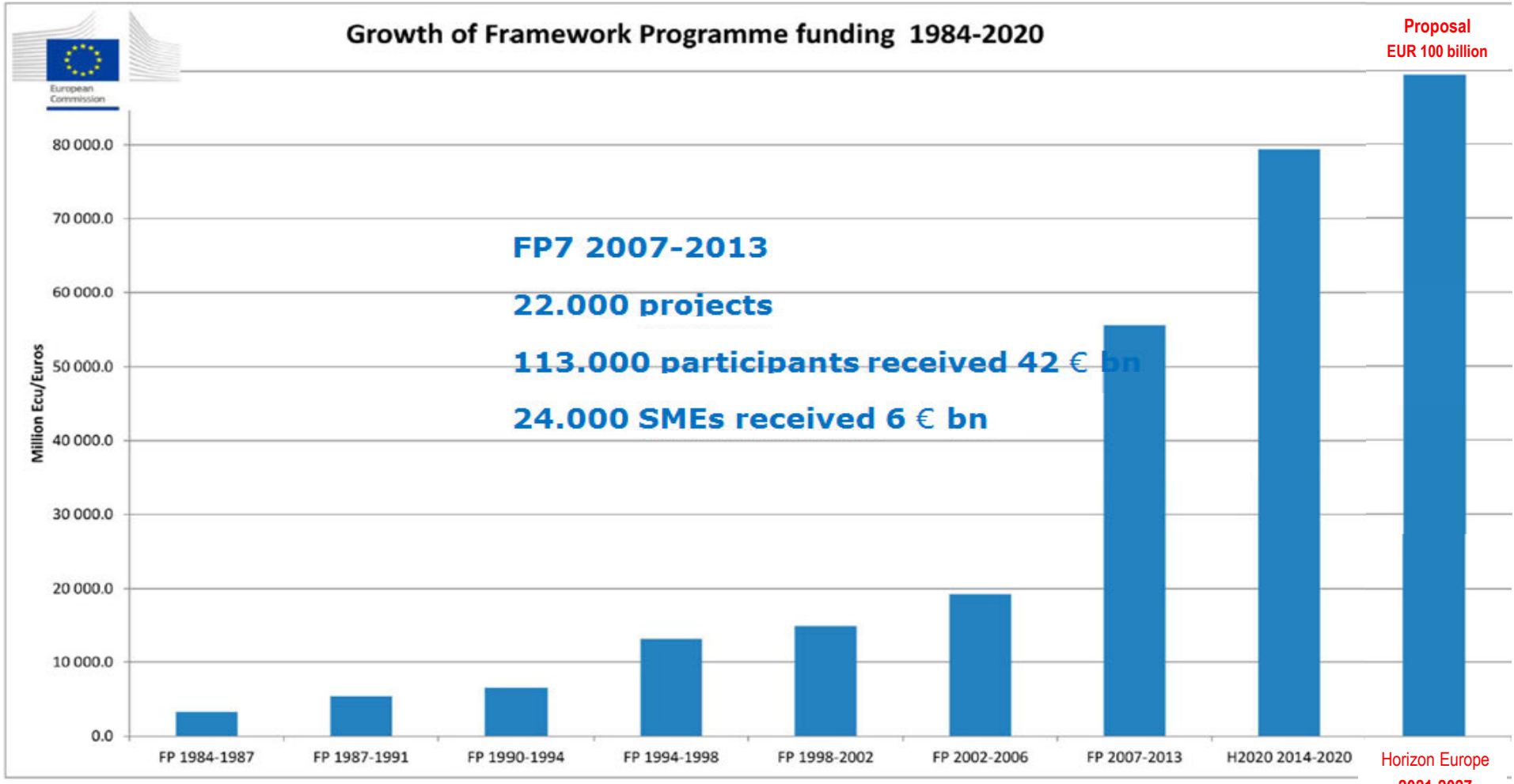
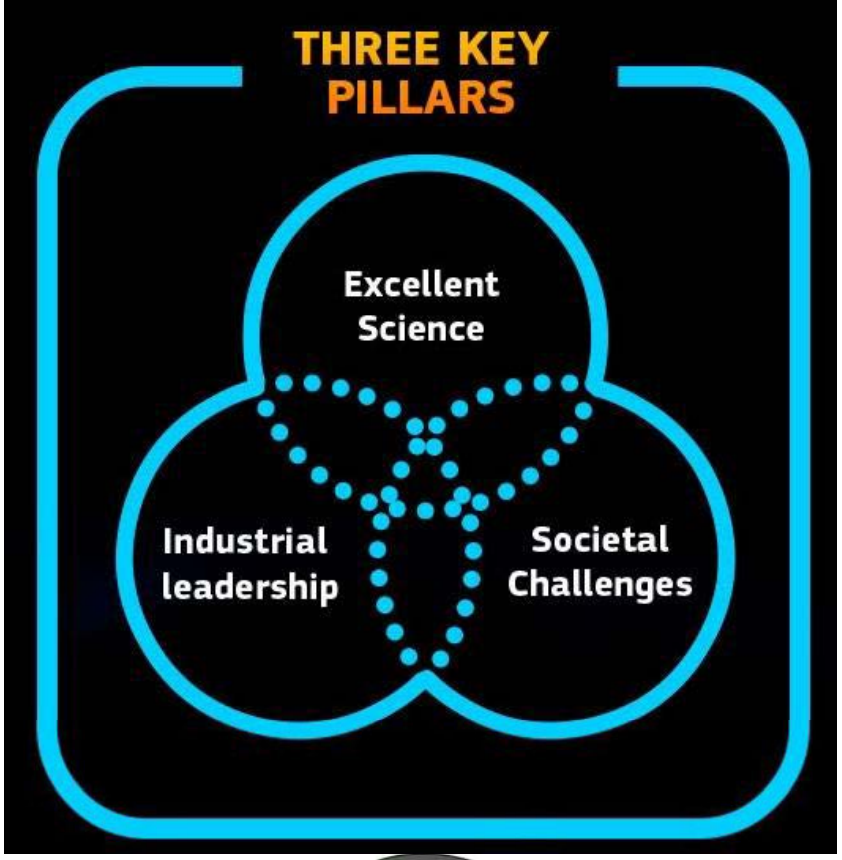
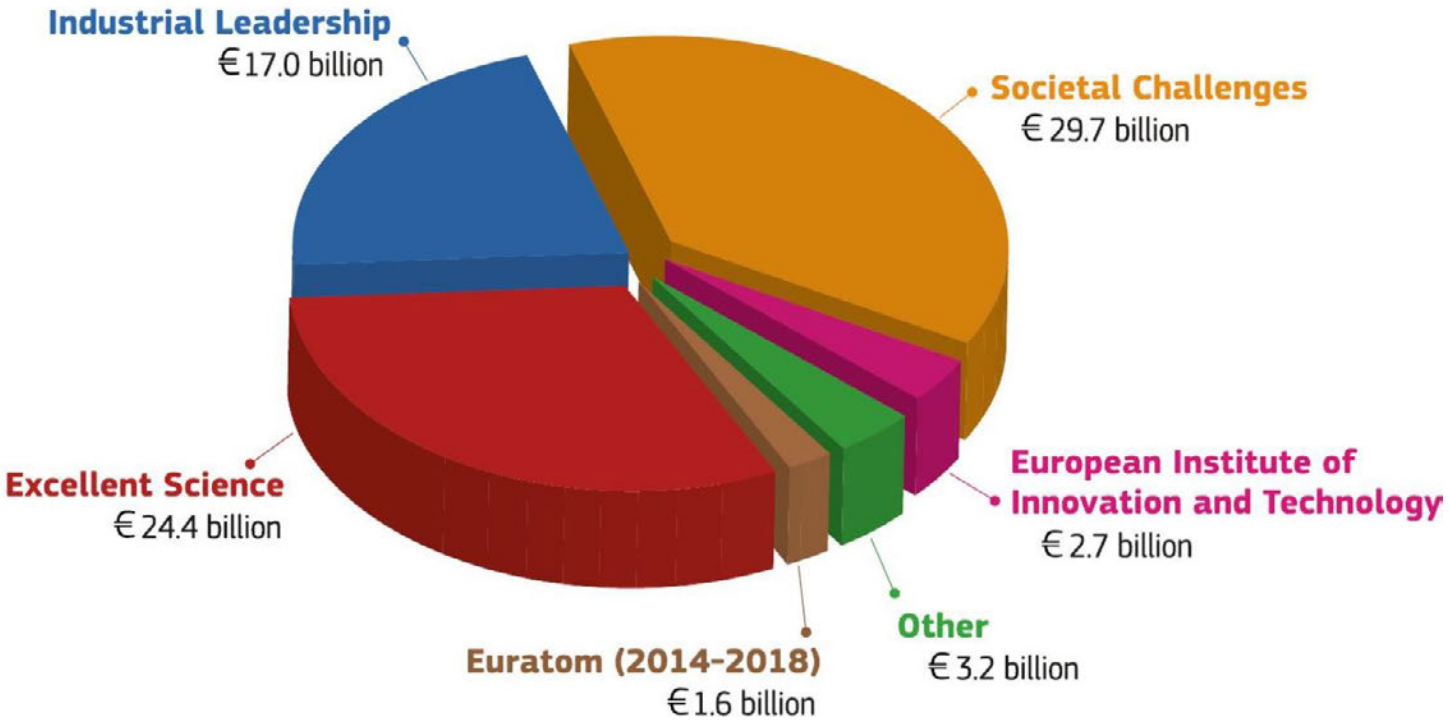
How has EU Research and Innovation funding evolved over recent years?




THREE KEY PILLARS
Excellent Science
Industrial leadership
Societal Challenges

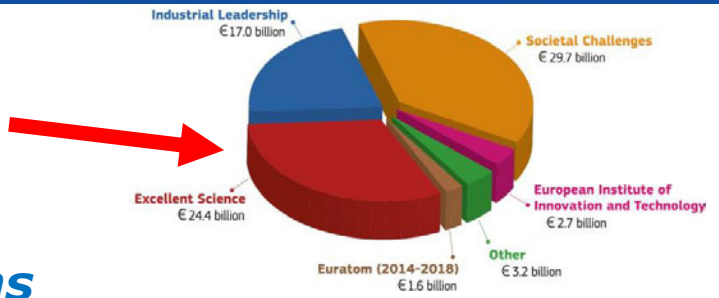

Societal challenges
Industrial leadership
Excellent science
Basic Research
Technology R&D
Demonstration
Prototyping
Pilots
Large scale validation
Market uptake

Horizon 2020 budget (2014-2020)



Excellent science

(EUR 24 billion)



- ***Marie Skłodowska-Curie actions***

Providing opportunities for training and career development of individual researchers

- ***European Research Council***

Supporting top researchers from anywhere in the world to work in Europe

- ***Future and Emerging Technologies***

Supporting visionary thinking through collaborations between science and engineering

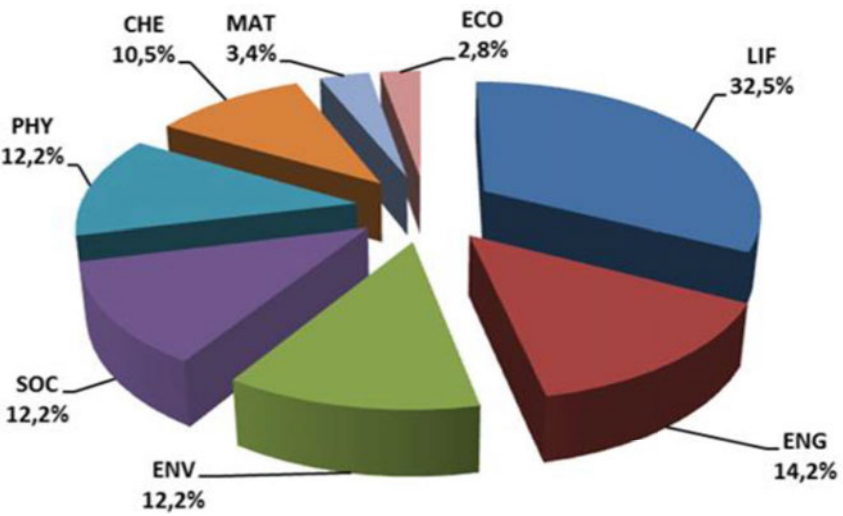
- ***Research infrastructures****- including e-infrastructure*

Ensuring access to world-class facilities

Bottom-up approach

MSCA open to **all domains of research and innovation**

> 10 600 projects funded (2007-2013):

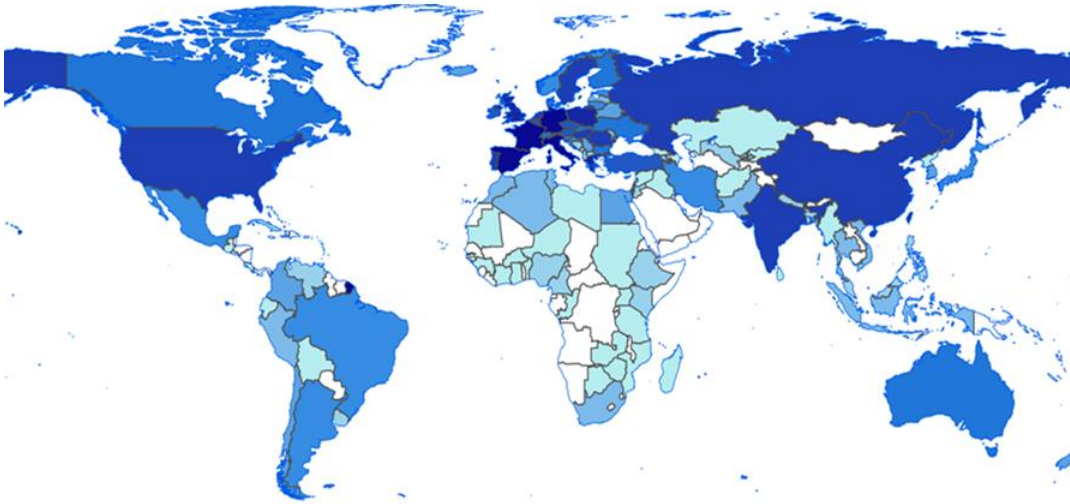


Mobility

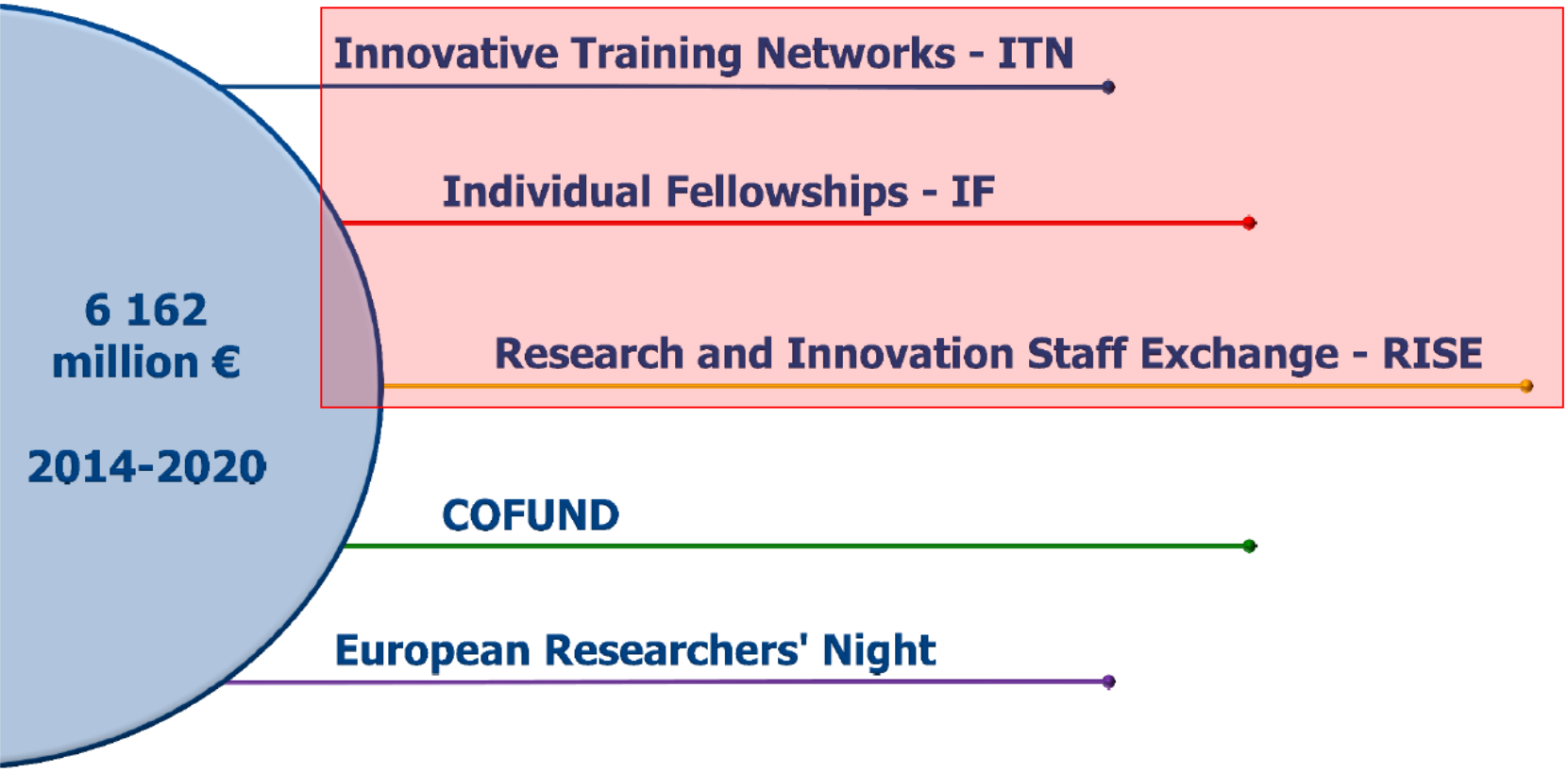
Requirement in all projects

Global reach

130 nationalities, 80 countries



Marie Skłodowska-Curie Actions



1.1 MSCA
- **ITN (training, PhD)**
- **IF (postdoc+)**
- **RISE (institutional)**

Innovative Training Networks (ITN)

- Doctoral-level programme run by an international network of organisations, develops both research and transferable skills
- Training through undertaking personalised, multidisciplinary research projects
- Fellowships of 3-36 months that include time in the non-academic sector
- Possible industrial doctorate (joint supervision with business) or a joint doctorate

1.1 MSCA
- **ITN (training, PhD)**
- **IF (postdoc+)**
- **RISE (institutional)**

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Innovative Training Networks - ITN

Structured doctoral training for early-stage researchers based on cross-sector and cross-border partnerships

The financial dimension (for eligible participants)

~38万円(89)

Research, networking, training costs	1800 €	Living allowance	3110 €
Management and indirect costs	1200 €	Mobility allowance	600 €
		Family allowance	500 €

*The living allowance base rate is multiplied by Country Correction Coefficient

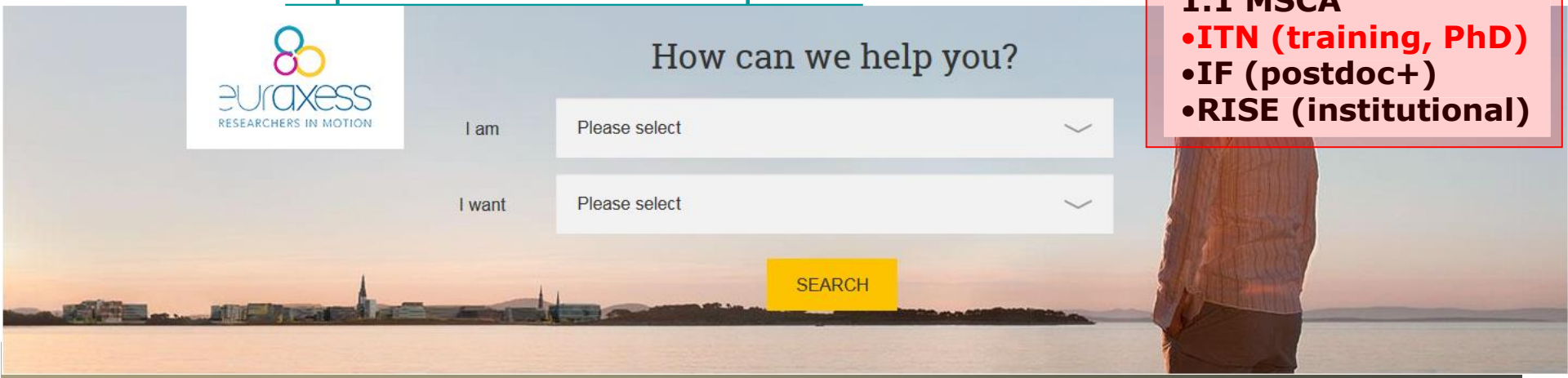
Opportunities:

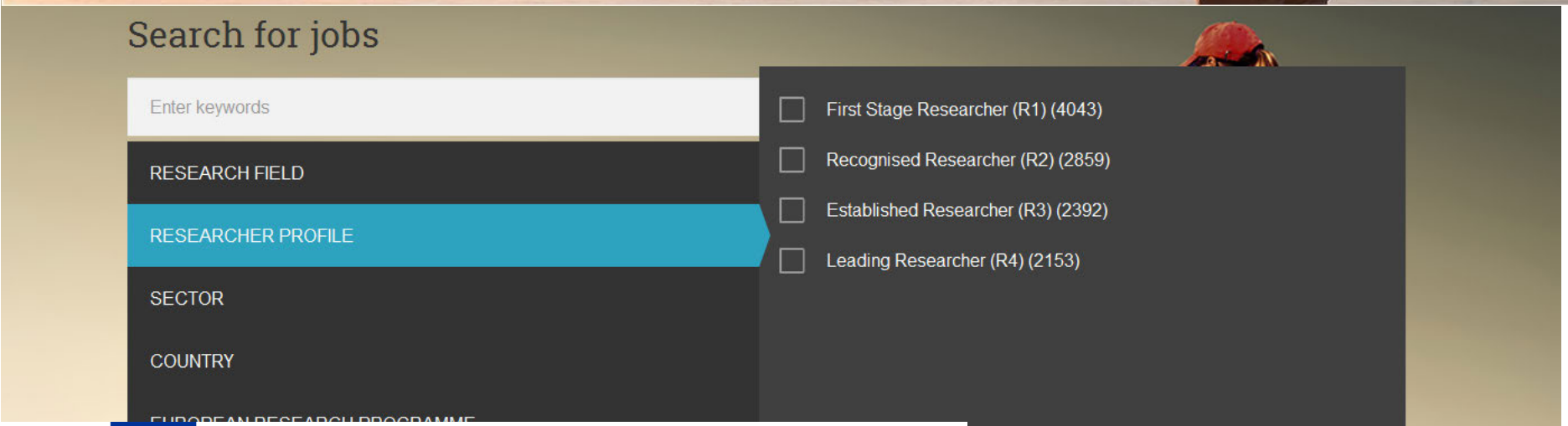
1. European Training Networks
2. European Joint Doctorates
3. European Industrial Doctorates

- ✓ 3-36 months fellowships
- ✓ Joint supervision with business and industry
- ✓ Projects up to 4 years with 540 researcher-months

EURAXESS https://euraxess.ec.europa.eu/

1.1 MSCA
- **ITN (training, PhD)**
- **IF (postdoc+)**
- **RISE (institutional)**





07/02/2017

Marie Curie Actions

PhD scholarship in "3D perfusion LOCs with integrated bioreactors and sensors for modelling...

READ MORE

APPLICATION DEADLINE

RESEARCH FIELD

LOCATION

COMPANY/INSTITUTE

1.1 MSCA
- **ITN (training, PhD)**
- **IF (postdoc+)**
- **RISE (institutional)**

European Fellowships

For fellows coming to or moving within Europe (12-24 months)

Any Experienced Researcher may submit only one proposal to the call for proposals in any given year

Global Fellowships

For fellows from Europe going to Third countries (12-24 months) and returning (12 months)

1.1 MSCA
- **ITN (training, PhD)**
- **IF (postdoc+)**
- **RISE (institutional)**

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Individual Fellowships - IF

Individual cross-border fellowships for the most promising experienced researchers

The financial dimension

Employment contracts with full social security

~58万円(87)

Monthly rates

Research, networking, training costs	800 €	Living allowance	4650 €
Management and indirect costs	500 €	Mobility allowance	600 €
		Family allowance	500 €

*The living allowance base rate is multiplied by Country Correction Coefficient

Opportunities:

1. European Fellowships
2. Global Fellowships

- ✓ 12-36 months fellowships
- ✓ Optional 3 - 6 months secondments
- ✓ Open to academic and non-academic hosts
- ✓ Strengthening networking capabilities for involved organisations and researchers

1.1 MSCA
- **ITN (training, PhD)**
- **IF (postdoc+)**
- **RISE (institutional)**

Research and Innovation Staff Exchange - RISE

International and inter-sector collaboration through exchange of staff working on a joint research project

The financial dimension (for eligible participants)

Research, networking, training costs	1800 €	Top-up allowance	2000 €
Management and indirect costs	700 €		

Opportunities:

- ✓ Involve staff working in support of research projects
- ✓ Work with partners from Europe
- ✓ Work with partners from third countries
- ✓ Projects up to 4 years and 540 researcher-months
- ✓ Individual exchanges between 1 and 12 months

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Participation of Japan in MSCA

FP7 (2007-2013)

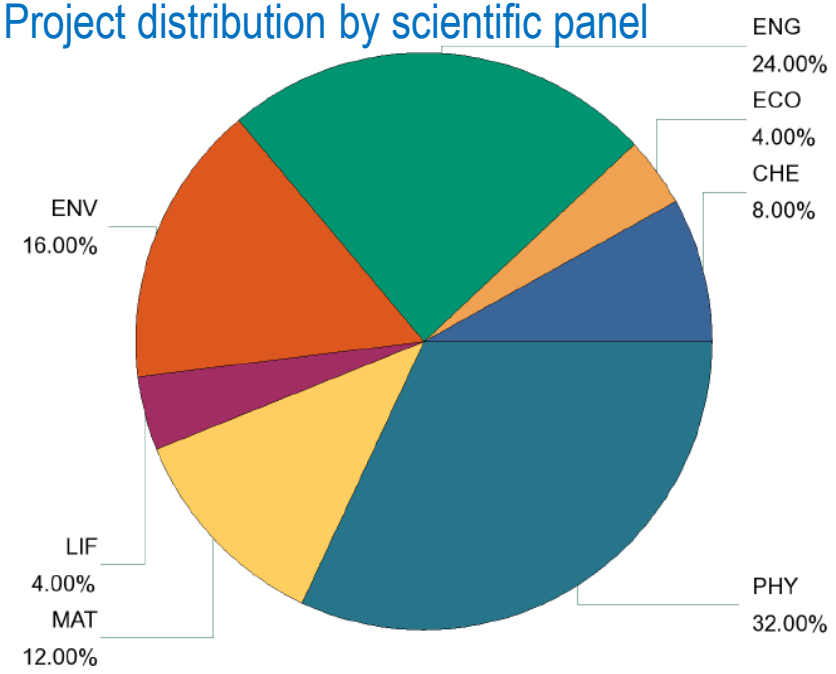
IF – 9

ITN – 17

IRSES (RISE) – 49

Total 75

Project distribution by scientific panel



Horizon 2020 so far (2014 – June 2017) (projects)

IF – 4

ITN – 13

RISE – 21

Total number of projects - 38

Total number of Japanese organisations - 33

Total number of Japanese researchers – 57

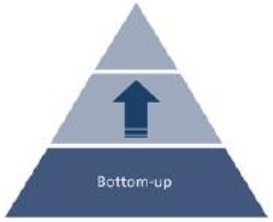
1.2. ERC Grants

The European Research Council

What is ERC?

European Research Council
Established by the European Commission

1.2. ERC Grants



The ERC supports excellence in frontier research through a bottom-up, individual-based, pan-European competition

Budget: € 13 billion (2014-2020) - 1.9 billion €/year

Legislation

- Scientific governance: independent Scientific Council with 22 members including the ERC President; full authority over funding strategy
- Support by the ERC Executive Agency (autonomous)
- Excellence as the only criterion

Strategy

- Support for the individual scientist – no networks!
- Global peer-review
- No predetermined subjects (bottom-up)
- Support of frontier research in all fields of science and humanities

European Commission

Horizon 20
European U
for Research & Innovation

ERC Grant Schemes

European Research Council
Established by the European Commission

1.2. ERC Grants

Starting Grants
starters
(2-7 years after PhD)
up to € **1.5** million
for 5 years

Consolidator Grants
consolidators
(7-12 years after PhD)
up to € **2** million
for 5 years

Advanced Grants
track-record of
significant research
achievements in the
last 10 years
up to € **2.5** million
for 5 years

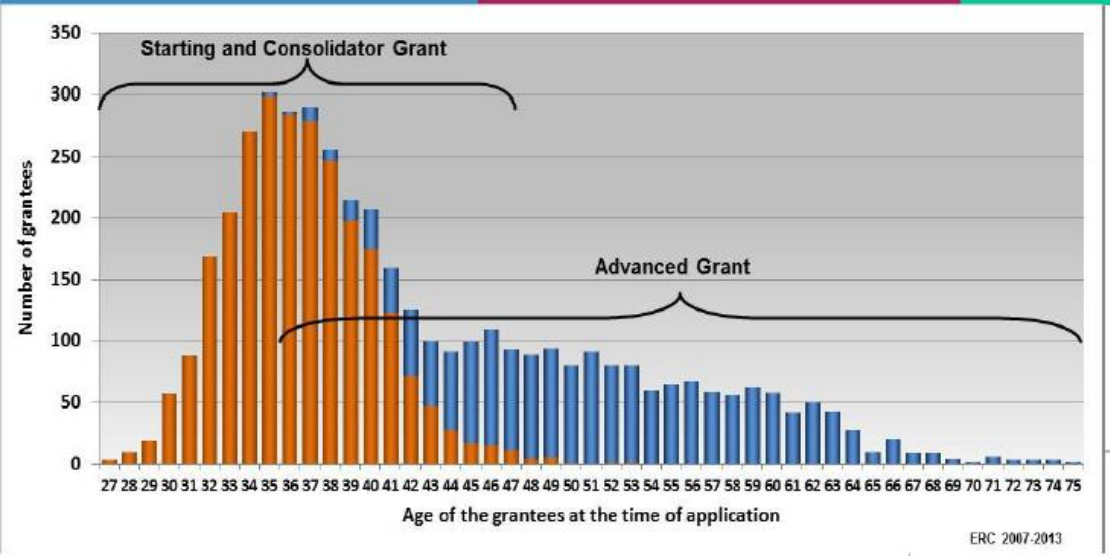
Proof-of-Concept
bridging gap between research - earliest
stage of marketable innovation
up to €150,000 for ERC grant holders

Synergy Grants
2-4 excellent PIs with
complementary skills
Interdisciplinary skills
Up to 15 million for 6 years

Priority to Young Scientists

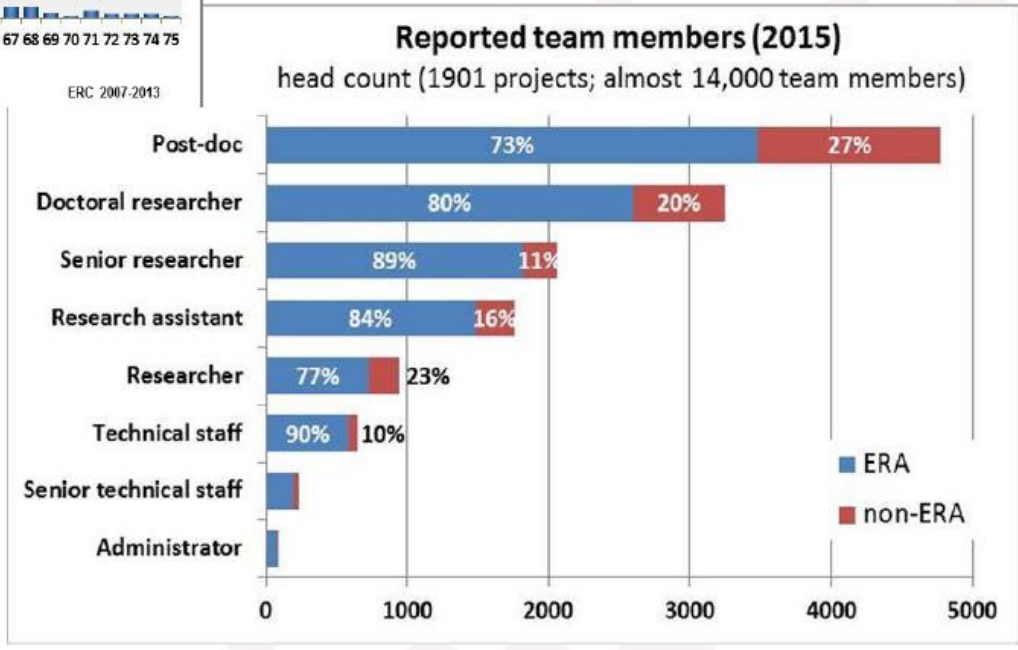
European Research Council
Established by the European Commission

1.2. ERC Grants



+ 22 000 PhD and post-doc researchers working in ERC teams.

Two-thirds of ERC grants to early-stage Principal Investigators.



European Commission
Horizon 2020
European Union funding
for Research & Innovation

ERC-JSPS Scheme

- Recipients of the JSPS's Research Fellowships, are able to temporarily become part of teams led by ERC grant holders (visit to Europe 1-12 months).

2. Industrial Leadership

Industrial Leadership

(EUR 17 billion)

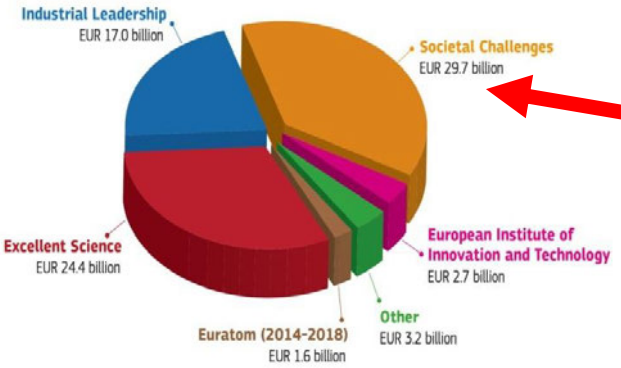
- **Leadership in enabling and industrial technologies**
  Advanced manufacturing, microelectronics, nanotechnology, biotechnology, ICT and space
- **Access to risk finance**
  Leveraging private finance and venture capital for research and innovation
- **Innovation in SMEs**
  Fostering all forms of innovation in all types of SMEs

***Collaborative research**: >3 independent participants from different Member States or Associated Countries. In addition, participants from any other country can also be included*

*Participate in a **regular call**: join a consortium and sign a grant agreement or*
*Participate in a **joint call** (e.g. in ICT, supported by MIC/NICT)*

3. Societal Challanges

HORIZON 2020 BUDGET (in current prices)



Societal Challenges

(EUR 29.7 billion)

- Health, demographic change and wellbeing
- Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, environment, resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Secure societies

***Collaborative research**: >3 independent participants from different Member States or Associated Countries. In addition, participants from any other country can also be included*

*Participate in a **regular call**: join a consortium and sign a grant agreement or*
*Participate in a **joint call** (e.g. in ICT, supported by MIC/NICT)*

Horizon Europe: evolution not revolution

Specific objectives of the Programme

Support the creation and diffusion of high-quality knowledge

Strengthen the impact of R&I in supporting EU policies

Foster all forms of innovation and strengthen market deployment

Optimise the Programme's delivery for impact in a strengthened ERA

Pillar 1
Open Science

- European Research Council
- Marie Skłodowska-Curie Actions
- Research Infrastructures

Pillar 2
Global Challenges and Industrial Competitiveness

Clusters

- Health
- Inclusive and Secure Society
- Digital and Industry
- Climate, Energy and Mobility
- Food and natural resources

Joint Research Centre

Pillar 3
Open Innovation

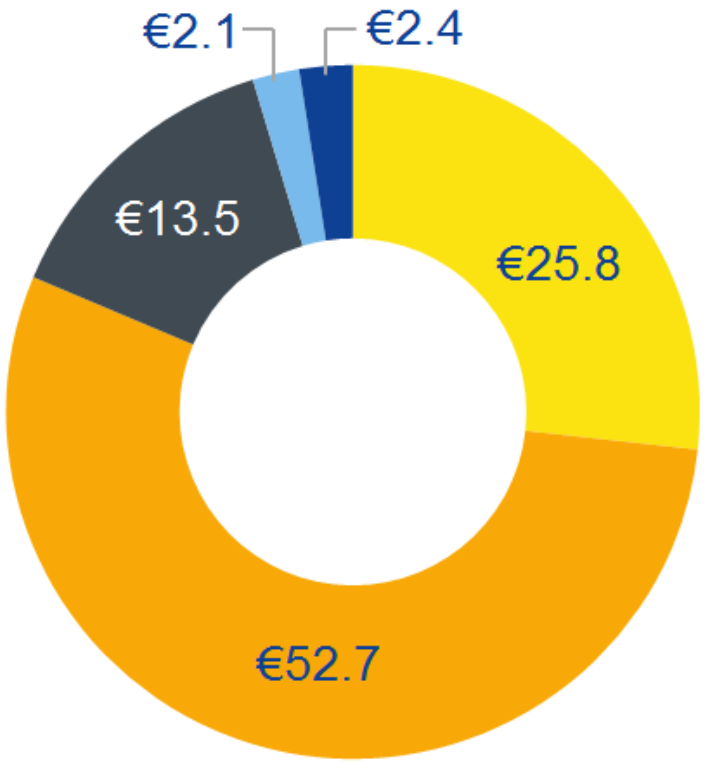
- European Innovation Council
- European innovation ecosystems
- European Institute of Innovation and Technology

Strengthening the European Research Area

- Sharing excellence
- Reforming and Enhancing the European R&I system

European Commission

Budget: €100 billion*



€ billion
In current prices

- Open Science
- Global Challenges & Ind. Competitiveness
- Open Innovation
- Strengthening ERA
- Euratom

* This envelope includes EUR 3.5 billion allocated under the InvestEU Fund.

European Commission

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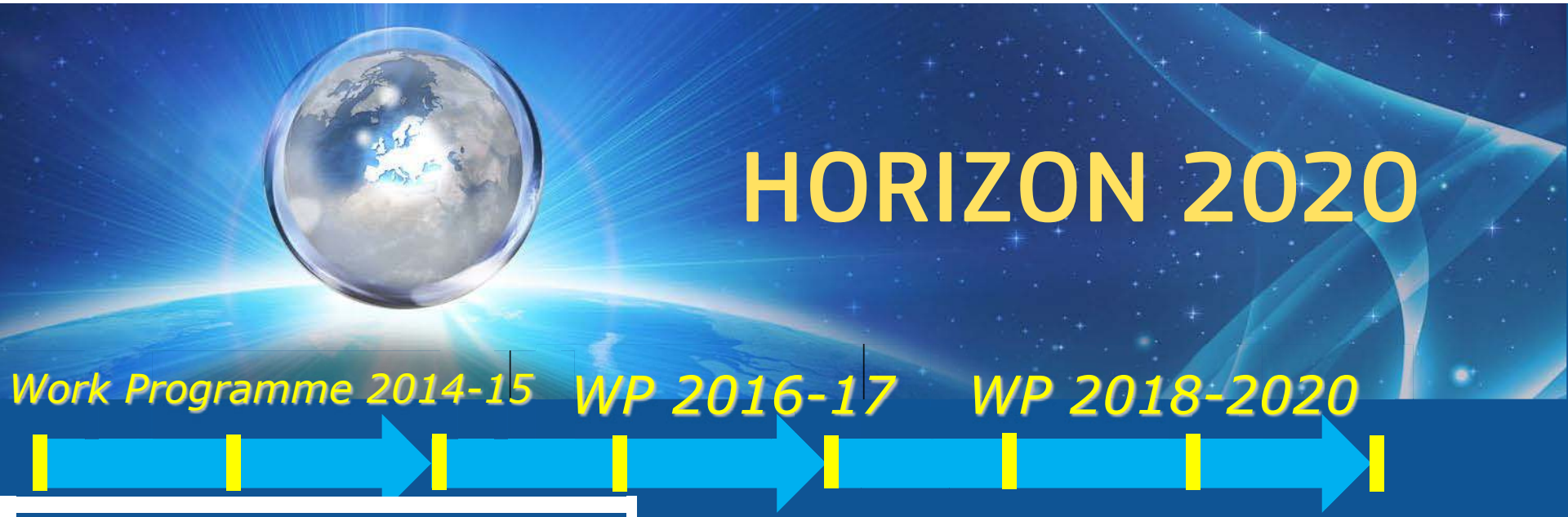

Results in brief for the first 3 years:

- *329 calls for proposals*
- *115 235 proposals submitted (requesting contribution of EUR 182.4 billion)*
- *13 903 grants awarded (a total EU financial contribution of EUR 24.8 billion)*
- *The average success rate 12.6%.*
- *54% of the Horizon 2020 participants are newcomers.*
- *56% of grants fall under the Excellent Science pillar, mainly under the MSCA.*
- *25% of grants fall under the Societal Challenges pillar (most for Transport).*

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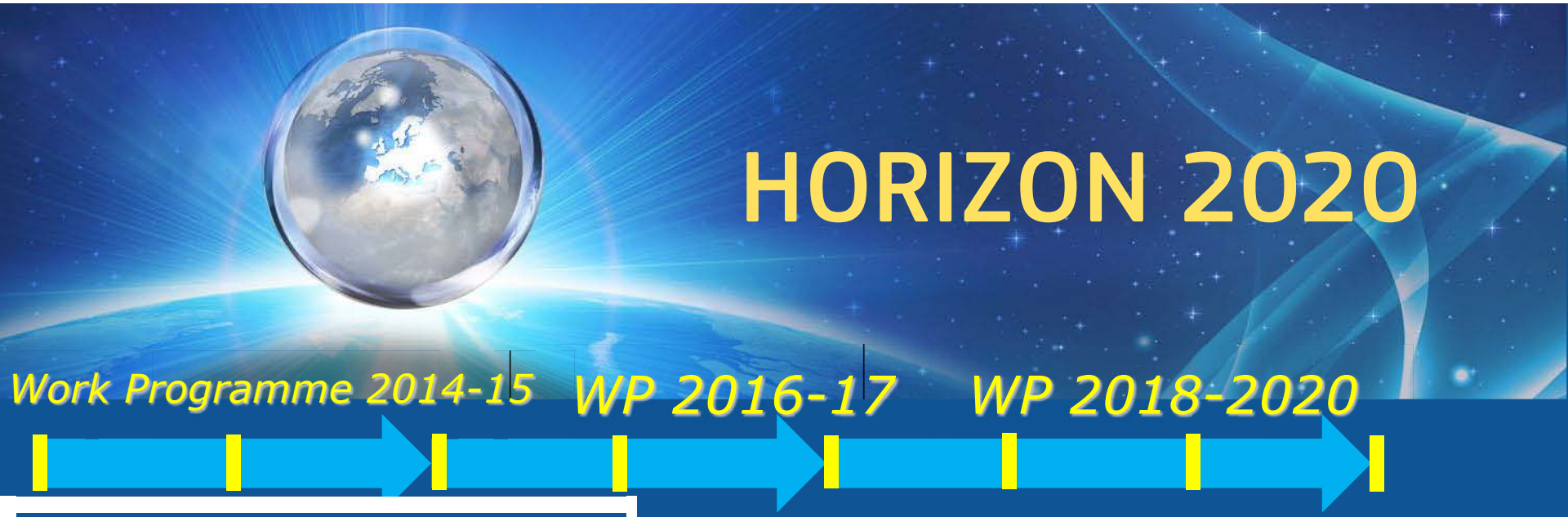

Projects resulted in:

- *11 894 publications, 9615 open access articles.*
- *8414 prototypes, 695 clinical trials, 408 patent applications, 141 patents awarded.*
- *664 projects with new innovative products, 329 projects with new innovative processes, 321 projects with new innovative methods.*
- *65% of the fin.contr.is sustainability related (target: 60%), with EUR 15.7 billion.*
- *28% is climate related (target: 35%), representing EUR 6.6 billion.*
- *17.8% of contribution attributed to signed grants relevant for SSH (EUR 4.4 b).*
- *27.1% of contribution attributed to signed grants related to ICT (EUR 6.7 billion).*

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#InvestEUresearch

Horizon 2020
Work Programme
for Research & Innovation
2018-2020

Open to the World

HORIZON 2020

Work Programme 2014-15

WP 2016-17

WP 2018-2020

- *Published on 27 October 2017*
- *Budget of approximately **EUR 30 bn (68 calls)***
- *30 flagship initiatives of mutual interest with a budget of > € 1 billion (**8 areas** targeting Japan)*
- ***22 topics** explicitly inviting cooperation with Japanese researchers*
- *Practically all topics are open for collaboration with research organisations in Japan*

Horizon 2020 flagships targeting Japan in 8 thematic areas

- **ICT**: Bilateral Flagship through "*Coordinated Call on 5G communication networks, security, cloud, IoT, Big Data*".
- **Transport**: Targeted in Flagships on "*Greener and safer aviation*", "*Automated road transport*", "*Integrated multimodal freight transport systems and logistics*", and "*Reduction of transport impact on air quality*".
- **Energy**: Bilateral Flagship on "*Advanced biofuels*". Targeted in Flagship on "*Mission Innovation*" on clean energy in general.
- **Health**: Cooperation through several multilateral initiatives. Targeted in Flagship on "*Technologies for global health care*".
- **Disaster Risk Reduction**: Targeted in Flagship on "*Operational forecasting of earthquakes and early warning capacity for more resilient cities*".
- **Security**: Targeted in Flagship on "*Technologies for first responders*".
- **Nanotechnologies**: Targeted in Flagship on "*Nanosafety*".
- **Climate Action**: Targeted in Flagship on "*Arctic research*".

Horizon 2020 – Work Programme 2018-20
22 Call topics encouraging cooperation with Japan

Year	Call identifier	Call topics
2018	DT-ART-01-2018	Testing, validation and certification procedures for highly automated driving functions under various traffic scenarios based on pilot test data
	DT-ART-02-2018	Support for networking activities and impact assessment for road automation
	EUJ-01-2018	Advanced technologies (Security/Cloud/IoT/BigData) for a hyper-connected society in the context of Smart City
	EUJ-02-2018	5G and beyond
	INFRAIA-01-2018-2019	Integrating Activities for Advanced Communities
	MG-2-5-2018	Innovative technologies for improving aviation safety and certification in icing conditions
	NMBP-13-2018	Risk Governance of nanotechnology (RIA)
	NMBP-14-2018	Nanoinformatics: from materials models to predictive toxicology and ecotoxicology (RIA)
	SC1-HCC-03-2018	Support to further development of international cooperation in digital transformation of health and care
	SC5-17-2018	Towards operational forecasting of earthquakes and early warning capacity for more resilient societies
	SU-DRS01-2018-2019-2020	Human factors, and social, societal, and organisational aspects for disaster-resilient societies
	SU-DRS02-2018-2019-2020	Technologies for first responders
2019	DT-ART-03-2019	Human centred design for the new driver role in highly automated vehicles
	DT-ART-04-2019	Developing and testing shared, connected and cooperative automated vehicle fleets in urban areas for the mobility of all
	ICT-06-2019	Unconventional Nanoelectronics
	LC-CLA-07-2019	The changing cryosphere: uncertainties, risks and opportunities
	LC-MG-1-7-2019	Future propulsion and integration: towards a hybrid/electric aircraft
	MG-2-9-2019	Integrated multimodal, low-emission freight transport systems and logistics (Inco Flagship)
	NMBP-15-2019	Safe by design, from science to regulation: metrics and main sectors (RIA)
	SU-SPACE-22-SEC-2019	Space Weather
2020	NMBP-16-2020	Safe by design, from science to regulation: behaviour of multi-component nanomaterials (RIA)
	NMBP-17-2020	Regulatory science for medical technology products (RIA)

災害初期対応技術

JAPAN – COUNTRY PAGE

1. Available local programmes/funds that could provide support to Japanese Horizon 2020 participants

Japanese researchers, universities, research organisations and enterprises can team up with European partners to participate in projects under Horizon 2020 and use the excellent opportunities Europe offers in research and innovation. Through participation in Horizon 2020, Japanese partners can benefit from access to talent, knowledge, data and infrastructures, and connect to world-leading teams, networks and value chains.

As a high-tech country, well advanced in research and innovation, Japanese participants are, however, not automatically funded through Horizon 2020. Japanese participants have to determine themselves the sources of funding and find the resources for their part of the project. These may be own funds, as well as funds received from Japanese ministries, agencies, foundations and other organisations that fund research and innovation activities in Japan.

In Horizon 2020 Work Programme 2018-20, the Japan Science and Technology Agency (JST) is providing funding opportunities for Japanese partners in the following call topic:

- SU-DRS02-2018-2019-2020: Technologies for first responders

For further information, please consult the following web page:

http://www.jst.go.jp/sicp/announce_eujoint_04_GeneralInfo.html

You can also contact: Mr. Takashi MURAKAMI, Department of International Affairs, Japan Science and Technology Agency at jointeu@jst.go.jp.

Strategic International Collaborative Research Program (SICORP)

Information on Japan–EU Joint Call

Last update: October 31, 2017

The Japan Science and Technology Agency (JST), through its Strategic International Collaborative Research Program (SICORP), will support Japanese applicants who participate in HORIZON 2020. The following is a preannouncement only, details will be posted on this website later.
>>日本語(Japanese page)

Research Field

Disaster Resilient Society: Technologies for first responders
Corresponding call in the HORIZON 2020:
SU-DRS02 Technologies for first responders.
・Sub-topic 1 :Victim-detection technologies
・Sub-topic :Open

Support by JST

JST will support Japanese applicants who participate in the above-mentioned 2 sub-topics. Projects selected for funding in this call will receive support for a period of 3 years totaling no more than approximately 60 million JPY including indirect costs of 30% of direct costs.

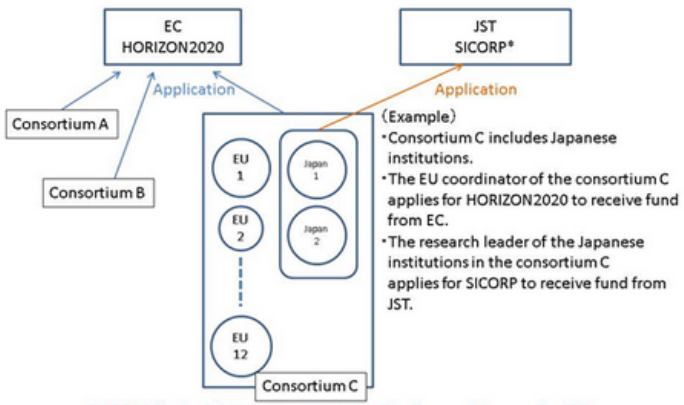
Applicant Eligibility

Researchers working in Japanese universities, research institutions, companies, first responders' organizations etc., are eligible to apply for this call. In addition to researchers, end users and practitioners of the corresponding technologies are also eligible to apply.

Application Procedure

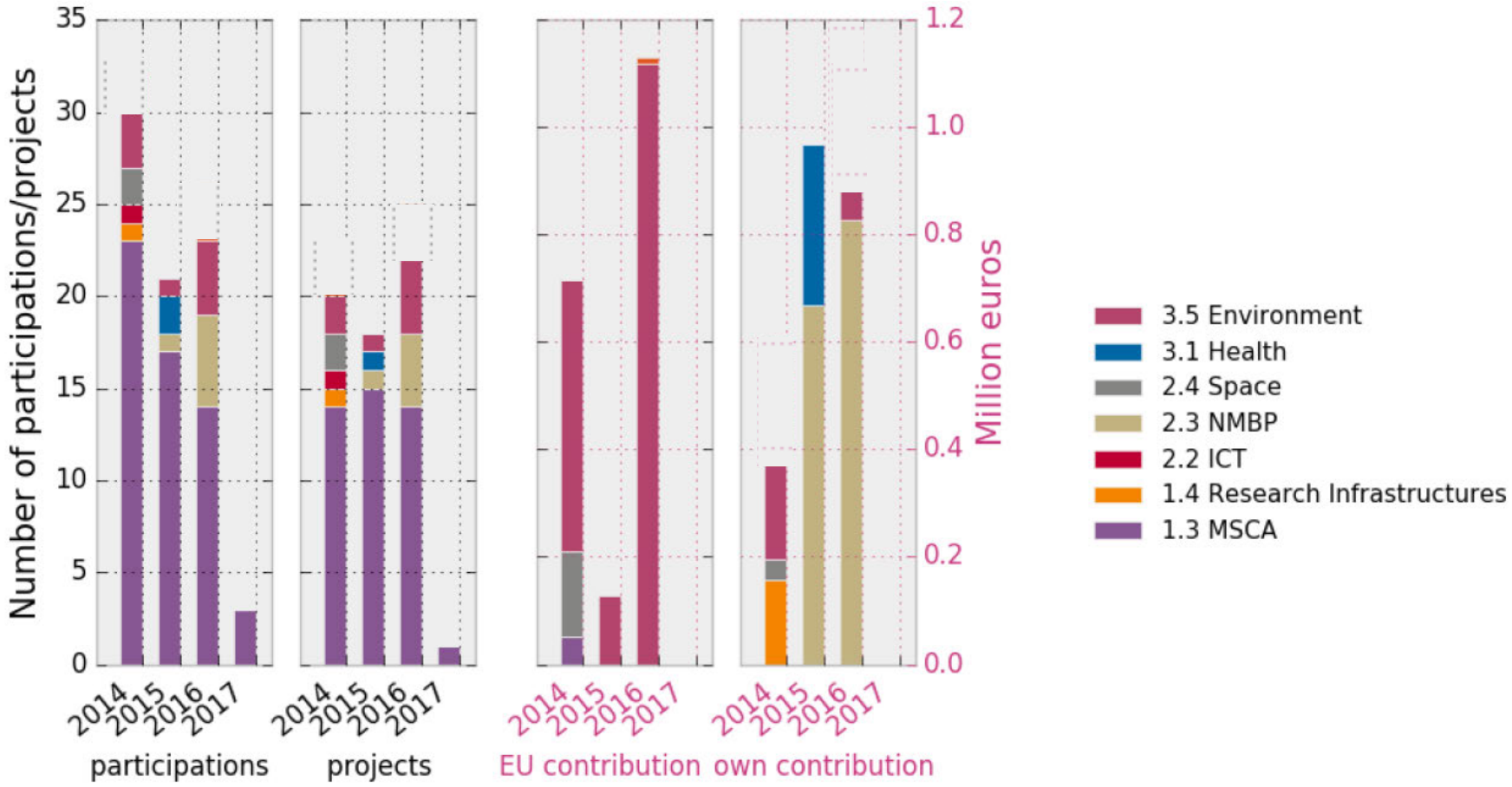
All Japanese applicants must submit an application directly to JST through details to be posted in this site later. In addition, the coordinator of the project consortium must also submit an application via the HORIZON 2020 portal.

The Image of joining the HORIZON 2020 call
SU-DRS02: "Technologies for first responders"



SICORP*:Strategic International Collaborative Research Program by JST

Participation of Japan in Horizon 2020 collaborative research projects



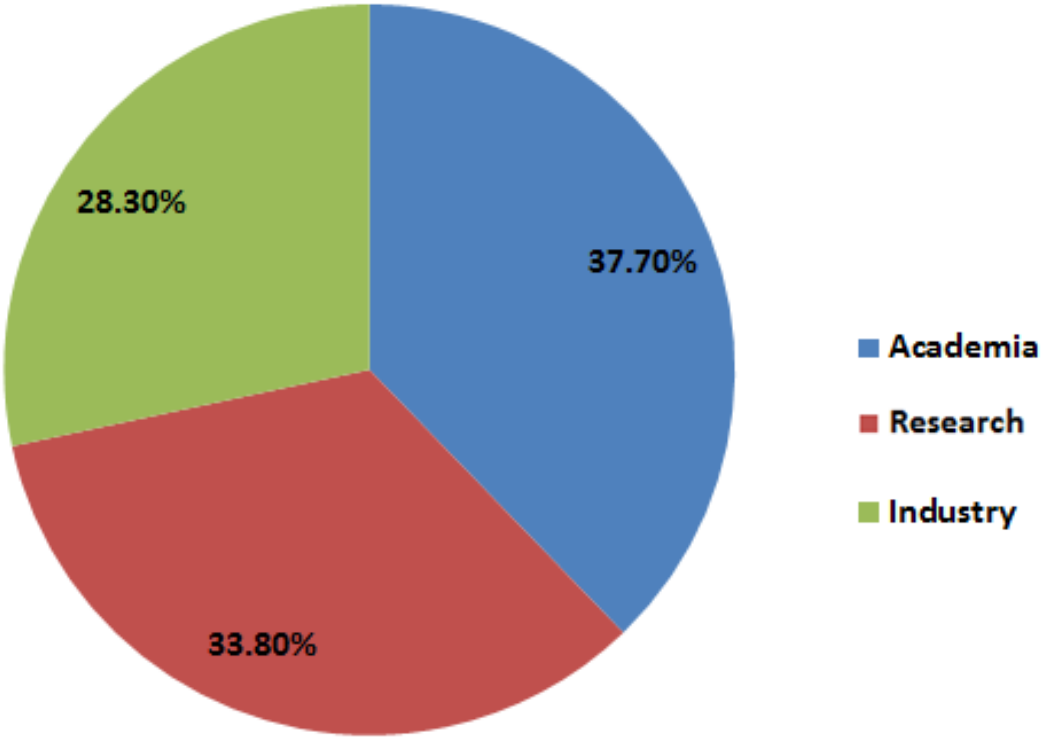
Note: Participations of beneficiaries, third-parties and partner-organisations.
Source: DG Research and Innovation - International Cooperation
Data: CORDA (JRC, EIT and art.185 not included); extraction date: 17/10/2017

Horizon 2020 : Main Japanese Participant Institutions

Framework Programme 7 (2007-2013)		Horizon 2020 (2014-2017)	
University of Tokyo	18	University of Tokyo	11
RIKEN	7	NTT	5
Waseda University	7	Tohoku University	5
Hokkaido university	6	KDDI Research Institute	4
Kyoto University	5	JAXA	3
NICT	5	KEK-High energy Accelerator Research organsiation	3
JAXA	4	Osaka University	3
Osaka University	4	RIKEN	3
Keio university	4	Waseda university	3
NTT	4	Electronic Navigation research Institute (ENRI)	2

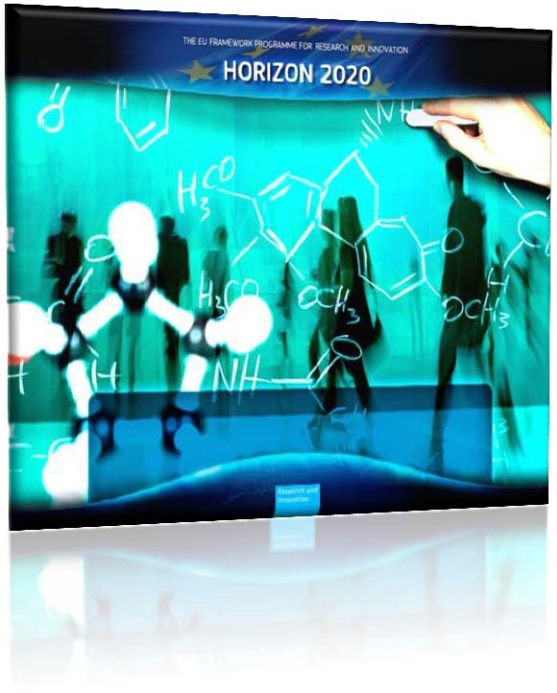
Source : **http://www.jeupiste.eu/ja/node/452**

Distribution of academia, research institutions and industry from Japan in collaborative research projects under Horizon 2020



Source : European Commission /CORDIS DATA BASE, June 2017.

Rules of Participation



Minimum Conditions:

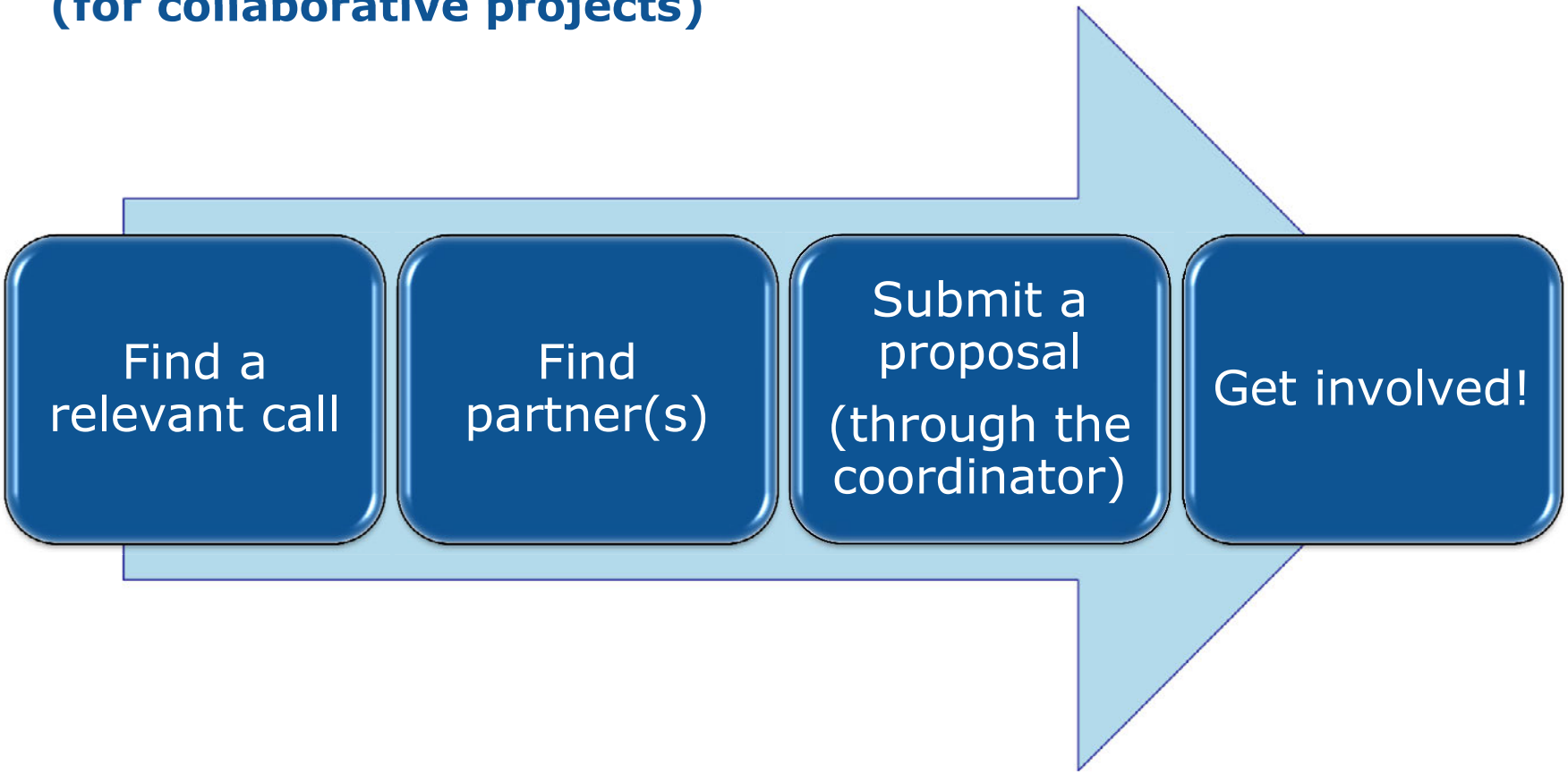
- For cooperative research projects and ITN (MSCA)
  - ➢ 3 independent participants from different Member States (MS) or Associated Countries (AC)

  In addition, participants from any other country can also be included
- For actions aimed at individuals, like European Research Council or under Marie Skłodowska-Curie Actions (MSCA):
  - ➢ 1 researcher
  - ➢ 1 host institution
  - ➢ 1project
- For RISE under MSCA:
  - 2 participants MS or AC and 1 from Third Country (TC)

  - Or if no TC
  - 3 participants from MS or AC (at least 1 academic and 1 industrial)

How does it work?

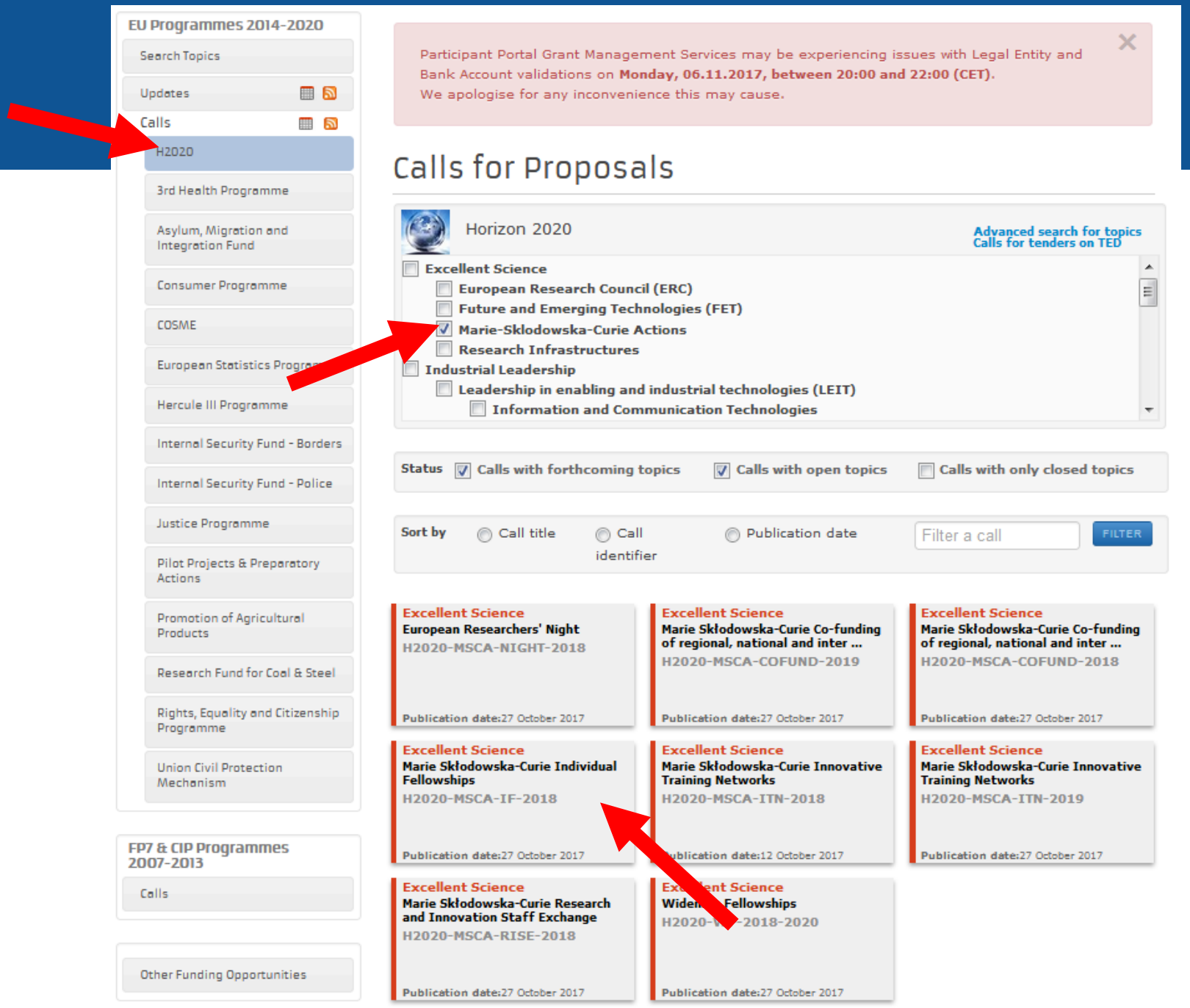
(for collaborative projects)



http://ec.europa.eu/research/horizon2020

- ✓ **Search:** horizon 2020 participant portal

- ✓ or
- ✓ http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html


EU Programmes 2014-2020
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Asylum, Migration and Integration Fund
Consumer Programme
COSME
European Statistics Progra
Hercule III Programme
Internal Security Fund - Borders
Internal Security Fund - Police
Justice Programme
Pilot Projects & Preparatory Actions
Promotion of Agricultural Products
Research Fund for Coal & Steel
Rights, Equality and Citizenship Programme
Union Civil Protection Mechanism
FP7 & CIP Programmes 2007-2013
Calls
Other Funding Opportunities
Participant Portal Grant Management Services may be experiencing issues with Legal Entity and Bank Account validations on Monday, 06.11.2017, between 20:00 and 22:00 (CET).
We apologise for any inconvenience this may cause.
Calls for Proposals
Horizon 2020
Advanced search for topics
Calls for tenders on TED
Excellent Science
European Research Council (ERC)
Future and Emerging Technologies (FET)
Marie-Sklodowska-Curie Actions
Research Infrastructures
Industrial Leadership
Leadership in enabling and industrial technologies (LEIT)
Information and Communication Technologies
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Calls with forthcoming topics
Calls with open topics
Calls with only closed topics
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Publication date
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Excellent Science
European Researchers' Night
H2020-MSCA-NIGHT-2018
Publication date:27 October 2017
Excellent Science
Marie Skłodowska-Curie Co-funding of regional, national and inter ...
H2020-MSCA-COFUND-2019
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H2020-MSCA-COFUND-2018
Publication date:27 October 2017
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Publication date:27 October 2017
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Marie Skłodowska-Curie Innovative Training Networks
H2020-MSCA-ITN-2018
Publication date:12 October 2017
Excellent Science
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H2020-MSCA-ITN-2019
Publication date:27 October 2017
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H2020-MSCA-RISE-2018
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Excellent Science
Publication date:27 October 2017

EU Programmes 2014-2020

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European Statistics Programme

Hercule III Programme

Internal Security Fund - Borders

Internal Security Fund - Police

Justice Programme

Pilot Projects & Preparatory Actions

Promotion of Agricultural Products

Research Fund for Coal & Steel

Call budget overview

CALL: MARIE SKŁODOWSKA-CURIE INDIVIDUAL FELLOWSHIPS
Call identifier: H2020-MSCA-IF-2018
Publication date: 27 October 2017

Horizon 2020 H2020 website
Pillar: Excellent Science
Work Programme Year: H2020-2018-2020
Work Programme Part: Marie Skłodowska-Curie actions

Topics and submission service

To access the **Submission Service**, please **select the TOPIC** of your interest and then open the Submission Service tab.
To access **existing draft proposals**, please login to the portal and select My Proposals from the My Area menu.

Status ☑ Forthcoming ☑ Open ☑ Closed

Sort by ○ (Planned) opening date ○ Deadline ○ Topic title ◉ Topic identifier

Topic: MSCA-IF-2018: Individual Fellowships **Forthcoming**
Publication date: 27 October 2017

Types of action: MSCA-IF-EF-CAR Career Restart panel, MSCA-IF-EF-RI Reintegration panel, MSCA-IF-EF-SE Society and Enterprise panel, MSCA-IF-EF-ST Standard European Fellowships, MSCA-IF-GF Global Fellowships
DeadlineModel: single-stage
Opening date: 12 April 2018
Deadline: 12 September 2018 17:00:00
Time Zone : (Brussels time)

TOPIC : Individual Fellowships

Topic identifier: MSCA-IF-2018
Publication date: 27 October 2017

Types of action: MSCA-IF-EF-CAR Career Restart panel , MSCA-IF-EF-RI Reintegration panel , MSCA-IF-EF-SE Society and Enterprise panel , MSCA-IF-EF-ST Standard European Fellowships , MSCA-IF-GF Global Fellowships

DeadlineModel: single-stage
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Deadline: 12 September 2018 17:00:00

Time Zone : (Brussels time)

Horizon 2020 H2020 website
Pillar: Excellent Science
Work Programme Year: H2020-2018-2020
Work Programme Part: Marie Skłodowska-Curie actions
Call : H2020-MSCA-IF-2018 Call budget overview

Topic Description

Objective:

The goal of the Individual Fellowships is to enhance the creative and innovative potential of experienced researchers, wishing to diversify their individual competence in terms of skill acquisition through advanced training, international and intersectoral mobility.

Individual Fellowships provide opportunities to acquire and transfer new knowledge and to work on research and innovation in a European context (EU Member States and Associated Countries) or outside Europe. The scheme particularly supports the return and reintegration of researchers from outside Europe who have previously worked here. It also develops or helps to restart the careers of individual researchers that show great potential, considering their experience.

Scope:

Support is foreseen for individual, trans-national fellowships awarded to the best or most promising researchers of any nationality, for employment in EU Member States or Associated Countries. It is based on an application made jointly by the researcher and the beneficiary in the academic or non-academic sectors.

Only one proposal per individual researcher will be evaluated.

Fellowships take the form of European Fellowships or Global Fellowships. European Fellowships are held in EU Member States or Associated Countries and are open to researchers either coming to Europe from any country in the world or moving within Europe. The researcher must comply with the rules of mobility in the country where the European Fellowship is held.

Return and reintegration of researchers into a longer term research position in Europe, including in their country of origin, is supported via a separate multi-disciplinary reintegration panel of the European Fellowships. For the reintegration panel, there shall be mobility into Europe.

Support to individuals to resume research in Europe after a career break, e.g. after parental leave, is ensured via a separate multi-disciplinary career restart panel of the European Fellowships. To qualify for the career restart panel, researchers must not have been active in research for at least 12 months immediately prior to the deadline for submission.

Researchers seeking to work on research and innovation projects in an organisation from the non-academic sector will be supported via a separate multi-disciplinary society and enterprise panel of the European Fellowships. The objective of this panel is to facilitate career moves between the academic and non-academic sectors and to open attractive career opportunities for researchers outside academia.

Global Fellowships are based on a secondment to a third country and a mandatory 12 month return period to a European host. The researcher must comply with the rules of mobility in the country where the Global Fellowship secondment takes place, not for the country of the return phase.

Researchers receiving an Individual Fellowship may opt to include a secondment phase in Europe, notably in the non-academic sector, within the overall duration of their fellowship. For a fellowship of 18 months or less, the secondment phase may last up to three months. For a fellowship of more than 18 months, the secondment phase may last up to six months. The secondment phase can be a single period or be divided into shorter mobility periods. The secondment should significantly add to the impact of the fellowship.

A Career Development Plan should be established jointly by the supervisor(s) and the researcher. In addition to research or innovation objectives, this plan comprises the researcher's training and career needs, including training on transferable skills, planning for publications and participation in conferences.

Expected Impact:

At researcher level:

- Increased set of skills, both research-related and transferable ones, leading to improved employability and career prospects both in and outside academia
- Increase in higher impact R&I output, more knowledge and ideas converted into products and services
- Greater contribution to the knowledge-based economy and society

At organisation level:

- Enhanced cooperation and stronger networks
- Better transfer of knowledge between sectors and disciplines
- Boosting of R&I capacity among participating organisations

At system level:

- Increase in international, interdisciplinary and intersectoral mobility of researchers in Europe
- Strengthening of Europe's human capital base in R&I with more entrepreneurial and better trained researchers
- Better communication of R&I results to society
- Increase in Europe's attractiveness as a leading destination for R&I
- Better quality research and innovation contributing to Europe's competitiveness and growth

Cross-cutting Priorities:

Socio-economic science and humanities
Gender
International cooperation

- Spain (406)
- Italy (372)
- United Kingdom (315)
- Turkey (222)
- Ukraine (170)
- Germany (165)
- Greece (151)
- Poland (123)
- France (119)
- Portugal (102)
- Romania (100)
- Bulgaria (57)
- Netherlands (51)
- Belgium (48)
- Slovenia (46)
- Hungary (42)
- Czech Republic (40)
- Croatia (38)
- Sweden (33)
- Finland (31)
- Austria (29)
- Israel (28)
- Cyprus (25)
- Kazakhstan (22)
- Norway (21)
- Denmark (18)
- Macedonia, the former Yugoslav Republic of (15)
- Bosnia and Herzegovina (14)
- Belarus (13)
- Albania (12)
- Tunisia (11)
- Jordan (8)
- Estonia (6)
- Argentina (5)
- Chile (4)
- Armenia (3)
- Australia (2)
- Afghanistan (1)

https://cordis.europa.eu/partners/web/guest

European Commission

CORDIS

Community Research and Development Information Service

Research Partners

You can:

- Search for partners [Search]
- Query more with an advanced search
- Browse these active profiles and collaboration requests to build your network:
  - 6068 Partner profiles
  - 6 Open Calls for Proposals
  - 4585 Partnership requests
    - 1180 Proposing project
    - 3405 Offering collaboration
  - 406 Groups
- Contact National Contact Point networks to get further support to find partners in your specific theme
- View the help manual

Create or update your profile

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The Participant Portal has recently launched a **partner search service of organisation profiles**. At the end of 2017 it will also be possible to launch a partner request related to a specific call for proposals and in the first half of 2018 it will provide the option to publish profiles of individual persons.

http://cordis.europa.eu/projects/home_en.html

European Commission

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- Content type
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The **Projects & Results Service** is your one stop for information on EU-funded research projects and project results.

Read more...

Horizon 2020 project information and now also report summaries are available on CORDIS. All H2020 projects can be downloaded from the EU Open Data Portal .

Search projects and results

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Latest Results in Brief

The evolution of social and political ranking in medieval Europe

2016-08-30

An EU-funded project comparatively examined how princely elites were formed and differentiated in premodern European rank societies. Research focused on the period of the late Middle Ages (1200-1500) in

CORDIS database with past and currently running collaborative research projects

http://cordis.europa.eu/projects/home_en.html

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Horizon 2020 project information and now also report summaries are available on CORDIS. All H2020 projects can be downloaded from the EU Open Data Portal.

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Advanced search

Search projects and results

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Results 1 - 5 of 5 | Results/page: 10

1

[REPORT SUMMARY] Final Report Summary - ARTIPHYCTION (Fully artificial photo-electrochemical device for low temperature hydrogen production)
The time has indeed come to establish an extensive research effort to develop concepts and technologies to exploit the enormous amount of solar energy, which falls on our planet. The annual global energy consumption rate at present is about 16 TW and will rise towards 20 TW...
Programme: FP7-JTI
Record Number: 188122
Last updated on: 2016-08-11 | Booklet

[REPORT SUMMARY] Final Report Summary - SUPER-IRON (Exploring the potential of Iron-based Superconductors)
Executive Summary:Iron-based superconductors (FeSC), discovered in 2008 in Japan by the group of Prof. Hosono, are the newest entry among the superconducting materials, with the second record critical temperature Tc, after the high-Tc cuprate superconductors (HTSC). FeSCs...
Programme: FP7-NMP
Record Number: 171066
Last updated on: 2015-09-15 | Booklet

[REPORT SUMMARY] Final Report Summary - ECNIS2 (ECNIS2: towards ECNIS Centre for Research and Education on Cancer, Environment and Food)
As a result of common effort of the ECNIS researchers a number of initiatives important for European integrative research on cancer, biomarkers, and food have been performed in the course of ECNIS2 project including, among others, so called "ECNIS ...
Programme: FP7-KBBE
Record Number: 140190
Last updated on: 2014-08-01 | Booklet

[PROJECT] **InRel-NPower** - Innovative Reliable Nitride based Power Devices and Applications
ID: 720527
Start date: 2017-01-01, **End date:** 2019-12-31
The main objective of this proposal is to develop reliable GaN-based power devices and systems for high and medium power electronics targeting industrial and automotive applications and bringing the GaN

InRel-NPower

Project ID: 720527
Funded under:
H2020-EU.2.1.3. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Advanced materials

Innovative Reliable Nitride based Power Devices and Applications

From 2017-01-01 **to** 2019-12-31, ongoing project

Project details

Total cost: EUR 7 691 466,25	**Topic(s):** NMBP-02-2016 - Advanced Materials for Power Electronics based on wide bandgap semiconductor devices technology
EU contribution: EUR 7 190 000	**Call for proposal:** H2020-NMBP-2016-two-stage See other projects for this call
Coordinated in: Italy	**Funding scheme:** RIA - Research and Innovation action

Objective

The main objective of this proposal is to develop reliable GaN-based power devices and systems for high and medium power electronics targeting industrial and automotive applications and bringing the GaN power devices another step towards the wide usability in the energy saving environment to further tap the full potential which this new material brings along. This proposal addresses two subjects, one of which is medium power (till 10kW) GaN-on-Si based lateral HEMT structure...

Coordinator

UNIVERSITA DEGLI STUDI DI PADOVA — Italy
VIA 8 FEBBRAIO 2
35122 PADOVA
Italy
EU contribution: EUR 650 000
Activity type: Higher or Secondary Education Establishments
Contact the organisation

Participants

Expand all

CONSTRUCTIONS ELECTRONIQUES + TELECOMMUNICATIONS	Belgium
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	France
ROBERT BOSCH GMBH	Germany
FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	Germany
SIEMENS AKTIENGESELLSCHAFT	Germany
EPIGAN NV	Belgium
ON SEMICONDUCTOR BELGIUM BVBA	Belgium
UNIVERSITEIT GENT	Belgium
NATIONAL UNIVERSITY CORPORATION MIE UNIVERSITY	Japan
NATIONAL UNIVERSITY CORPORATION KYUSHU UNIVERSITY — HAKOZAKI 6-10-1 HIGASHI KU, 812-8581 FUKUOKA, Japan — **EU contribution:** EUR 0	Japan

Activity type: Higher or Secondary Education Establishments
Contact the organisation

Horizon 2020 Participant Portal
http://ec.europa.eu/research/participants/portal/desktop/en/home.html

Participant Portal, Japan page :
http://ec.europa.eu/research/participants/data/ref/h2020/other/hi/h2020_localsupp_japan_en.pdf

National Contact Point Japan
(Horizon 2020 helpdesk in Japan)
http://ncp-japan.jp/
ncp-japan@eu-japan.gr.jp

NCP Japan
National Contact Point in Japan

Horizon 2020 NCP Japan はEUが持つ世界に開かれた研究イノベーションプログラム Horizon 2020 への日本からの参加支援などを行っています。

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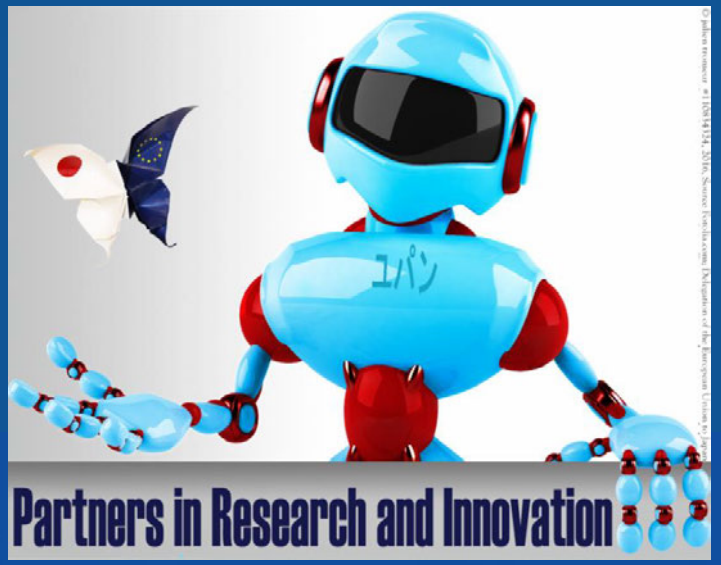

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Delegation of the European Union
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