



ISTPD

International S&T Programmes Department

# EU Research&Innovation Programmes: Participation Opportunities & Challenges

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HORIZON 2020



# Brief Outline

- EU R&I programmes: General Overview - Horizon 2020
- Participation support structures in AM (ISTPD, NCP network, etc.)
- Horizon 2020: Overview of relevant open calls for proposals
- Other opportunities: COST, EEN, etc.
- Towards Horizon Europe
- Statistics of AM participation in H2020
- AM Measures to support participation/Concluding remarks



# ISTPD NAS RA

- **NAS RA – main research performing structure with 35 research institutes**
- **International S&T Programs Department of the National Academy of Sciences created in 2008 (on the basis of EU FP6 Information Point)**
  - Main objectives: promotion of participation of NAS RA institutes/researchers in international grant programs via providing consultancy, awareness raising, organization of events, assistance in partner search with main focus to EU programmes
  - Hosting several H2020 National Contact Points (L&F, WIDENING, MSCA, SME,): **Services provided to all R&D-performing organizations of Armenia**
  - Active participation in EU programs (IncoNet CASC, IncoNet EaP, BS ERA Net, ener2i, BSH, IncoNet EaP Plus, COSME EEN, EURAXESS)

# EU RDI PROGRAMMES: HORIZON 2020

- **The** EU funding programme (2014 to 2020)
- **Financial instrument** implementing the Innovation Union, a Europe 2020 flagship initiative aimed at strengthening the Europe's global position in research, innovation and technology
- **The biggest** EU Research and Innovation programme ever, providing funding for multi-national collaboration projects as well as to individual researchers, SMEs with a special funding instrument
- **Budget** €80 billion



# HORIZON 2020

**ASSOCIATION= FULL ACCESS TO ALL ACTIVITIES**

## Excellent Science

European Research Council

Future and Emerging Technologies

Marie Curie Actions

Research Infrastructures

## Industrial Leadership

Leadership in Enabling & Industrial Technologies

- > Information and communication technologies
- > Nanotechnologies
- > Advanced materials
- > Biotechnology
- > Advanced manufacturing and processing
- > Space

Access to Risk Finance

Innovation in SME

## Societal Challenges

- > Health, Demographic Change and Wellbeing
- > Food security, sustainable agriculture, marine and 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

**Joint Research Centre (JRC)**

**Widening Participation**

**Science with & for Society**

**European Institute of Innovation and Technology (EIT)**

**Joint Programming P2P**

**Joint Technology Initiatives P2B**



# H2020: Who Can Participate?

Any company, research center or individual

## ELIGIBLE COUNTRIES

### Member States – 28

Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, United Kingdom

### Associated countries (assumed to be associated to H2020)

Albania, Armenia (2016), Bosnia and Herzegovina, Georgia, Faroe Islands, Former Yugoslav Republic of Macedonia, Iceland, Israel, Moldova, Montenegro, Norway, Serbia, Turkey, Ukraine

### All other countries – Third countries



# Eligible for Funding

- Legal entities established in a Member State or Associated Country
- Legal entities established in the third countries identified in the work programme (140 c)
- Case by case (essential for the action, bilateral agreements)
  - Industrialized countries: US, Canada, Australia, Japan, etc.
  - Emerging economies: Brazil, China, India, Russia, Mexico, SA



# CALLS FOR PROPOSALS

**Generally, twice per year: Spring-Autumn**

**Calls are challenge-based** - more open to innovative proposals

- Calls are less prescriptive
- Topics descriptions allow plenty of scope for applicants to propose innovative solutions of their own choice

**Emphasis on innovation** – all stages in the research and innovation chain including non-technological and social innovation and activities closer to the market

**Different disciplines, sectors and actors** - to tackle specific challenges, scientists, industry, SMEs, societal partners, end-users...





# Conditions for Participation

➤ At least three legal entities. Each of the three shall be established in a different EU MS/AC. All three legal entities shall be independent of each other.

## 1 legal entity:

- ✓ Some Coordination and support actions
- ✓ Training and mobility actions
- ✓ European Research Council
- ✓ SME Instrument

# H2020 Open Calls

**H2020 166 calls currently open!**

## **Research Infrastructures – 2 calls**

1. Centres of Excellence in exascale computing (RIA)

**Deadline 13 November 2019**

2. Design Studies

**Deadline 12 November 2019**

More info:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities>

# Centres of Excellence in exascale computing: Call ID:H2020-INFRAEDI-2018-2020

## Specific Challenge:

- Supporting Centres of Excellence (CoE) that advance and promote the use of upcoming exascale computing capabilities in areas where user communities in collaboration with other High Performance Computer (HPC) stakeholders can develop or scale up existing parallel codes towards exascale performance, resulting into tangible benefits for scientific, industrial or societal challenges.
- Funding: up to 5 mln. Euro/project; from 24 to 36 months
- Cross-cutting priorities: Open Innovation; Open Science, Clean Energy, Gender



# Design Studies:

## Call ID: INFRADEV-01-2019-2020

### Specific Challenge:

The aim of this activity is to support the conceptual and technical design for new research infrastructures forming the basis for identifying and constructing the next generation of Europe's and the world's leading research infrastructures of strategic importance.

- Funding: from 1 to 3 mln. Euro/project;
- Deadline: 12 November 2019



# Forthcoming calls with deadlines in April 2020

- Integration and consolidation of the existing pan-European access mechanism to public research infrastructures and commercial services through the EOSC Portal INFRAEOSC-03-2020
- Co-Innovation platform for research infrastructure technologies INFRAINNOV-03-2020
- Responsible Open Science: an ethics and integrity perspective SwafS-30-2020
- **More info at:** <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/h2020>





# Spreading Excellence & Widening Participation Programme

- Low performing RDI member states & regions = WIDENING countries
- Targeted approach to raise the R&I capacity of participants from “Low performing” countries
- Threshold – below 70% of EU Average
- "Widening" Countries:
- **MS:** Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Luxembourg, Malta, Poland, Portugal, Romania, Slovakia and Slovenia
- **AC:** Albania, Armenia, Bosnia and Herzegovina, Faroe Islands, Former Yugoslav Republic of Macedonia, Georgia, Moldova, Montenegro, Serbia, Tunisia, Turkey and Ukraine



# Open Calls under Widening Programme - Twinning

- WIDESPREAD-05-2020: Twinning
  - Scope: Twinning aims at significantly strengthening a defined field of research in a university or research organization from a Widening country by linking it with at least two internationally-leading research institutions from two different MS or Associated Countries.
  - Funding: up to 0.9 mln. Euro/project; up to 3 years
  - Deadline: 14 November 2019
  - Up to 10% of the budget can be allocated to equipment & research

# Open Calls under Widening Programme – ERA Chairs

- WIDESPREAD-06-2020: ERA Chairs
  - Scope: Create appropriate conditions and bring over outstanding researchers on fulltime basis (The ERA Chair) and their teams to high potential universities and research organisations. Institutions are called to implement structural changes to achieve excellence on a sustainable basis
  - Funding: 2.5 mln. Euro/project; 5 years duration
  - Deadline: 14 November 2019

# COST – European Cooperation in Science and Technology

- Intergovernmental organisation with 39 members, funded from H2020
- Provides funds to bottom-up open networks in a wide range of scientific topics for
  - Meetings/networking
  - short scientific exchanges or other networking activities
  - organising conferences and training schools
- Creates open spaces where people and ideas can grow, COST unlocks the full potential of science
- Prioritization of participants from Neighbourhood countries, including Armenia & other EaP – additional funds



# Benefits of participation in a COST Action

- **Scientific**
  - Work on topics not yet funded by other sources
  - Participate in leading scientific networks
  - Engage with peers
  - Contribute to publications
- **Career**
  - Short-term mobility
  - Increase visibility by hosting and/or participating at scientific events
- **Networking**
  - Initiate and Participate in any H2020 project at the same time
  - Easy access to existing networks
  - Extend one's network
  - Reimbursement





# Opportunities for Engaging

- Possible to join ongoing actions
- Express interest contacting the Coordinator of ongoing action
- 80 new COST Actions approved in 2018/19 (over 330 actions in total)
- **Actions list at:**

<https://www.cost.eu/cost-actions/browse-actions/>



# Enterprise Europe Network

- Helping companies innovate and grow internationally
- Active in more than 60 countries of the world
- 600 member organizations
- AM Consortium
  - SME Development National Center
  - National Academy of Sciences of Armenia (ISTPD)
  - More info at: <https://een.ec.europa.eu/>

## A broad range of services for growth-oriented SMEs

### INTERNATIONAL PARTNERSHIPS

Partnership database

Brokerage events

Company missions

### ADVISORY SUPPORT

Advice on EU laws and  
standards

Market intelligence

IPR expertise

### INNOVATION SUPPORT

Access to finance and funding

Innovation Management  
Services

Technology transfer



# EEN-Armenia

## Innovation Support Services for innovative reserach-oriented SMEs

Access to finance and funding - Horizon 2020 SME Instrument

Innovation Management - EIMC Enhancing Innovation Management Capacity

KAM- Key Account Management Services for beneficiaries of H2020 SME Instrument

TECHNOLOGY TRANSFER

HORIZON 2020



# EEN-Armenia

## Horizon 2020 Services



- ✓ Assistance and consultancy on preparation and submission of project proposals
- ✓ Partner search
- ✓ Continues advice from idea to project submission and project implementation



# H2020 Statistics of Participation – AM

## (by September 2019)

|          | No of Applications | No of Funded Projects | No of organizations | Funding (mln Euro) |
|----------|--------------------|-----------------------|---------------------|--------------------|
| Total AM | 192                | 29                    | 36                  | 3.4                |
| NAS RA   | 60                 | 14                    | 7                   | 1.9                |

# REGISTER AS EXPERT

## Work as an expert

[Online manual](#)  
"Work as an Expert"[HOW TO](#)  
"Expert"

The European Union Institutions appoint external experts to assist in the evaluation of grant applications, projects and tenders, and to provide opinions and advice in specific cases.



In particular, experts assist in:

- **Evaluation** of proposals, prize applications and tenders
- **Monitoring** of actions, grant agreements, public procurement contracts

In addition, experts provide opinion and advise on:

- **Preparation, implementation and evaluation of EU programmes and design of policies.**

In order to select experts, the European Union Institutions publish regularly calls for expression of interest (see list below) detailing the selection criteria, the required expertise, the description of the tasks, their duration and the conditions of remuneration.

**Interested? Please join the database of external experts!**

[Register as expert](#)

As **new expert**, you will be first requested to create your EU login account and register your profile.

**Registered experts** can update the profile via the My Expert Area after

## News

**Thursday, 4 April, 2019 - 00:00**

European Research and Innovation Days 24-26 September 2019 [More...](#)

**Friday, 22 March, 2019 - 00:00**

Call for experts on tasks for the LIFE Technical Assistance [More...](#)

**Thursday, 28 February, 2019 - 00:00**

Call for expression of interest for experts: Innovation Radar [More...](#)

**Tuesday, 19 February, 2019 - 00:00**

Call for volunteer Scientific Expert in business [More...](#)

**Tuesday, 29 January, 2019 - 00:00**

Call for experts to assist the European Defence Industrial Development Programme (EDIDP) [More...](#)

**Wednesday, 17 October, 2018 - 00:00**

Call for experts to assist the European Maritime and Fisheries Fund (EMFF) [More...](#)

**Thursday, 30 August, 2018 - 00:00**

New, improved "My Expert Area" released [More...](#)

**Tuesday, 5 June, 2018 - 00:00**

Expert evaluators needed: help us select high-potential (social) innovators [More...](#)

Quick Links



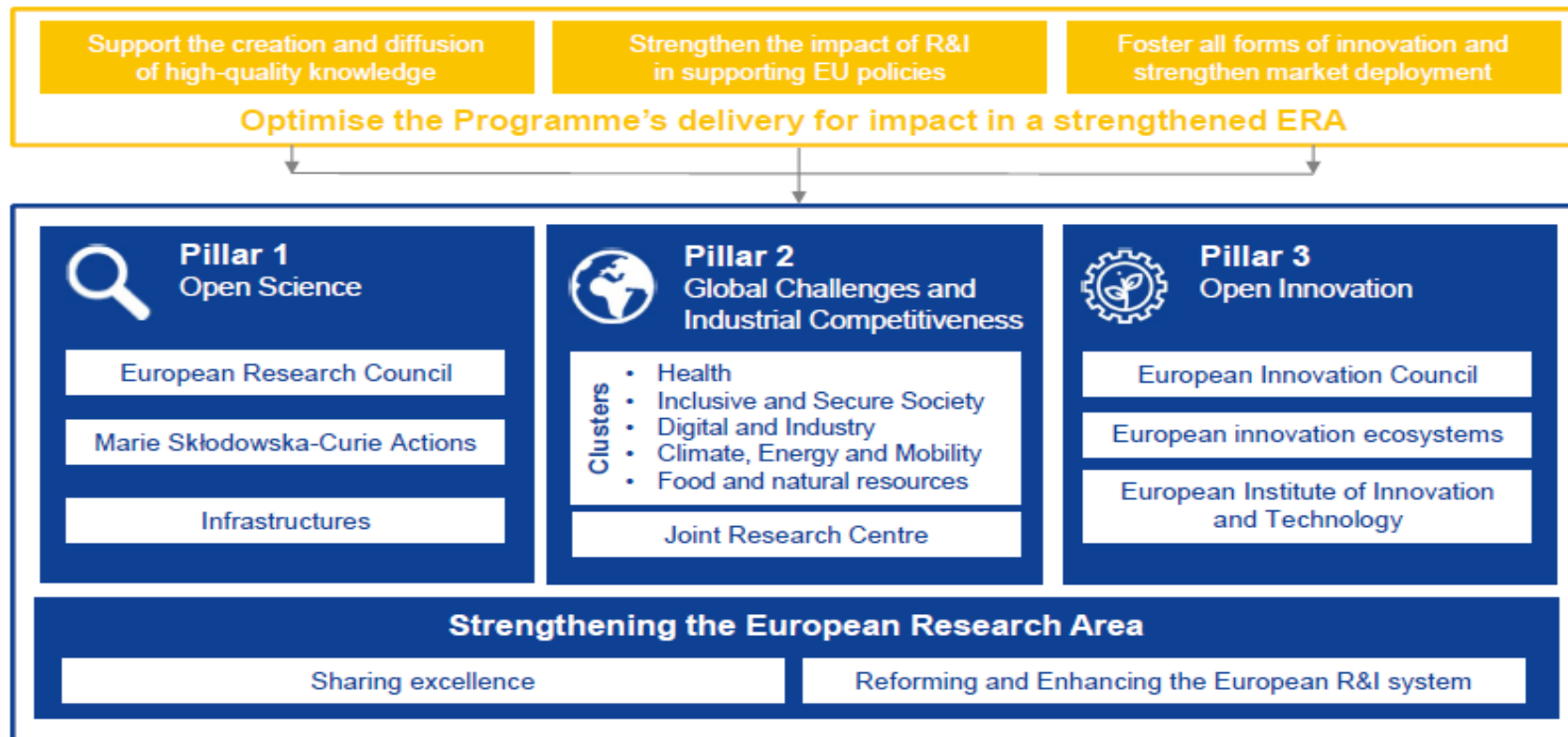


# Towards HORIZON EUROPE (2021-2027)

- The Commission proposal for around € 100 billion research and innovation funding programme for seven years (2021-2027)
  - to strengthen the EU's scientific and technological bases
  - to boost Europe's innovation capacity, competitiveness and jobs
  - to deliver on citizens' priorities and sustain EU's socio-economic model and values

# Horizon Europe: evolution not revolution

## Specific objectives of the Programme





# Get Support: NCP Network

- **NCP System** – in all M/S, A/C, majority of third countries
- **Mission:** Nationally operating NCPs to provide highly professional support services to research community via spreading awareness about H2020, giving specialist advice and on-ground guidance to ensure that the programme is known and readily accessible to all potential applicants, irrespective of sector and discipline.

|  |  |
|--|--|
| <b><u>Coordinating &amp; Legal and Financial Aspects</u></b><br>Tigran ARZUMANYAN, ISTPD NAS RA              | <b><u>Marie Sklodowska-Curie Actions</u></b><br>Anahit KHACHIKYAN, ISTPD NAS RA                                  |
| <b><u>Information and Communication Technologies</u></b><br>Dr. Levon ASLANYAN, IIAP, NAS RA                 | <b><u>Small &amp; Medium Size Enterprises</u></b><br>Anahit KHACHIKYAN, ISTPD NAS RA<br>Lilit Apujanyan, SME DNC |
| <b><u>European Research Council</u></b><br>Davit Piliposyan, IM NAS  | <b><u>Future and Emerging Technologies</u></b><br>Ani Mikaelyan, SCS CANDLE                                      |
| <b><u>European Research Infrastructures</u></b><br>Dr Hrachya Astsatryan, IIAP NAS RA<br>Anna Mkrtchyan, YSU | <b><u>Nanotechnologies, advanced materials ...</u></b><br>Paytsar Mantashyan, IPR, NAS RA                        |
| <b><u>Space</u></b><br>Hripsime Mkrtchyan, YERPHI<br>Gor Mikayelyan, BAO                                     | <b><u>Health</u></b><br>Dr Seyran Kocharyan, YSMU  |
| <b><u>Food security, sust. agriculture, marine, bioeconomy...</u></b><br>Davit Pipoyan, CENS NAS RA          | <b><u>Smart, green &amp; integrated transport</u></b><br>Davit Piliposyan, Institute of Mechanics                |
| <b><u>Climate action...</u></b><br>Vardan Asatryan , CH&I, NAS RA  | <b><u>Inclusive, innovative and reflective societies</u></b><br>Tigran Harutyunyan, PAAA                         |
| <b><u>Security</u></b><br>Hripsime Mkrtchyan, YERPHI   | <b><u>Euratom</u></b><br>Karen Haroyan   |
| <b><u>Joint Research Centre</u></b>  | <b><u>Science with and for Society</u></b>   |



HOME

HORIZON 2020

WHERE TO START

MSCA

EEN

NEWS

NCP NETWORK

CONTACTS

WELCOME TO THE WEBSITE OF THE ARMENIAN  
NATIONAL INFORMATION POINT OF THE  
EU FRAMEWORK PROGRAMME FOR RESEARCH & INNOVATION  
**HORIZON 2020**

The website of H2020 National Information Point (NIP) has been established to serve the needs of H2020 National Information Persons network of Armenia. It is intended to be the main information platform in Armenia towards raising general awareness on H2020, provide information on open calls for proposals, various events and trainings, activities within projects directed to promote international S&T cooperation and NCP projects, providing consultancy to Armenian research community.



The website is maintained by the International S&T Programmes Department of  
The National Academy of Sciences of RA

## RECENT NEWS

**Call for Entries:  
ILUCIDARE Special  
Prizes within the  
European Heritage  
Awards / Europa  
Nostra Awards  
2020**

**H2020 MSCA IF and  
NCP Training was  
held in Yerevan**

**EIF Food Summer  
school on New  
Products  
Development  
2-6 September  
2019**

[APRIL 2020](#)

**H2020 JRC Webinar  
and Infoday was  
held at Yerevan**

**H2020 MSCA IF  
Training in Yerevan**

**H2020 MSCA IF  
CALL 2019 IS  
OPEN!**

**Meeting of local  
H2020 NCPs at NAS**



Business Support on Your Doorstep





# AM Measures Towards H2020

- To stimulate participation targeted activities needed on national level to develop adequate potential, create centers of excellence, to ensure national support to participating entities, etc.
- Some measures to stimulate AM teams in H2020 since 2017
  - Additional National Grants to Coordinating AM teams in successful H2020 projects (RI projects, up to 30000 Euro for two years)
  - Additional National Grants to successful H2020 project participants (RI projects, up to 25000 Euro for two years)
- Importance to keep momentum: Association to Horizon Europe!!!



# Additional Info

- **Funding & tender Opportunity Portal** <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>
- **Horizon 2020 Documents**  
[http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference\\_docs.html](http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html)
- **Horizon 2020 On-line Manual**  
<http://ec.europa.eu/research/participants/portal/desktop/en/funding/guide.html#>
- **Questions? Research Enquiry Service**  
<http://ec.europa.eu/research/enquiries>
- **H2020 National Information Point**  
<http://h2020.sci.am/>



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THANK YOU FOR ATTENTION!

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