



#InvestEUresearch



# Horizon 2020 Work Programme for Research & Innovation 2018-2020

## Horizon H2020 - Open to the world

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Research and  
Innovation



# Overview

- 1 Warm-up session
- 2 Horizon 2020 – Open to the World
- 3 Opportunities for researchers and entities from Montenegro in Horizon 2020
- 4 Proposal preparation and submission
- 5 Closure

# 1. Warm-up session



# 1. Warm-up session

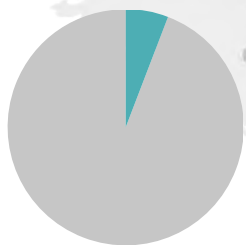
- Do you have any experiences in or knowledge about Horizon 2020?
- Why do you want to do research with European partners or in a European context?



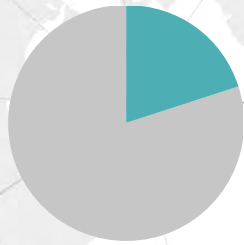
## 2. Horizon 2020 – Open to the World



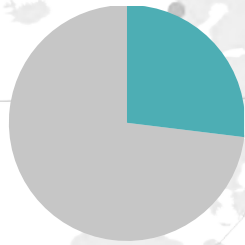
# Did you know? The European Union: 500 million people – 28 countries - one single market



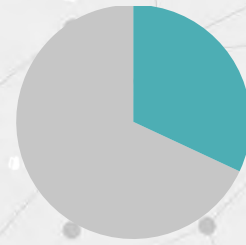
**6%** of the  
World's  
population



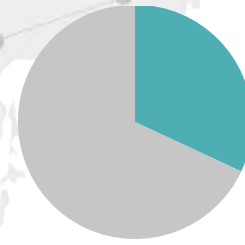
**20%** of  
world  
expenditure  
on research



**27%** of  
world  
scientific  
publications



**32%** of  
high-impact  
publications



**32%** of  
patent  
applications

Some of the best  
universities in the world

Some of the most innovative  
companies in the world

# What is Horizon 2020?

- Your access to European research and innovation

## Horizon 2020 is open to the world!

- The EU Framework Programme for **Research & Innovation**
- The **biggest multinational** programme of its kind with a budget of almost € 80 billion
- Horizon 2020 welcomes **researchers & institutions**, public or private, **from all over the world**

# Why should you participate in Horizon 2020?

1 Ambitious research and innovation projects

4 Mobility to Europe

5 Access to new networks and alliances

2 Access to world class research infrastructures

6 New business opportunities and visibility of your research

3 Tackle global challenges together with excellent European and International scientists



7 Research funding



# Why is international research cooperation important to the EU?

1 Access to markets



4 Higher global profile

2 Access to knowledge

3 Attracting talent and investment

5 Better research and exploitation

# Horizon 2020 covers three priority areas:

1 Excellent science

**Researcher driven:**

The foundation of tomorrow's technologies, jobs and wellbeing

Industrial leadership

2

**Industry driven:**  
Strategic investments in key technologies

3 Societal challenges

**Society driven:**

Tackling the great challenges of our time of citizens and society

### **3. Opportunities for researchers and legal entities from Montenegro in Horizon 2020**



# How can you participate in Horizon 2020?

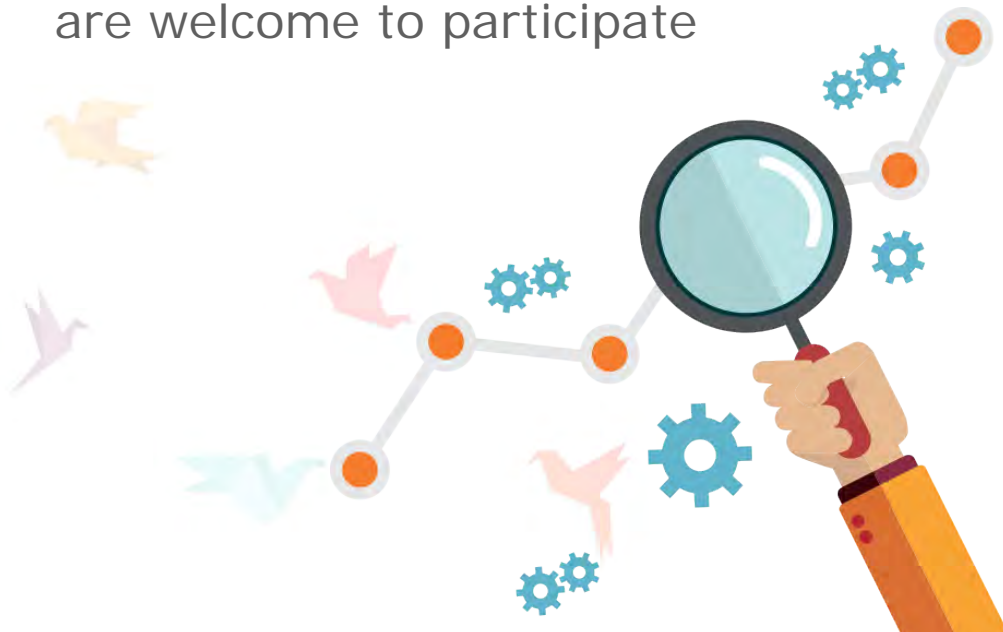
There are two ways to participate:

- **There is funding for individual researchers**

Researchers of all nationalities are welcome to participate

- **There is funding for collaborative research**

Together with at least 3 entities from 3 different countries of the EU or from Countries Associated to Horizon 2020




# Funding for individual researchers in Horizon 2020!



# 1. Where in Horizon 2020 can you find funds for individual research?

- **The European Research Council (ERC)**  
= excellent research
- **Marie Skłodowska-Curie Actions (MSCA)**  
= mobility of researchers and technical staff



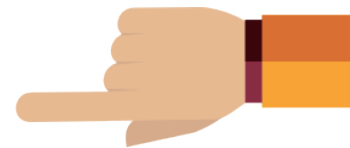
Excellent  
Science

**These opportunities are for researchers who want to work in Europe.**



# a) What does the European Research Council (ERC) offer?

- For **excellent researchers** wishing to conduct their groundbreaking research in **Europe**
- No thematic priorities → bottom-up approach
- Investigator-driven
- **ERC Principles:**
  - 1 Principal Investigator and team
  - 1 Host institution in the EU/country associated to Horizon 2020
  - 1 Selection criterion: EXCELLENCE
  - At least 50% research has to be done in Europe
  - Project duration: Up to 5 years



## a) Four ERC main funding lines

### **Starting Grant:**

Early career top researchers, 2-7 years after PhD | €1.5 mio.

### **Consolidator Grant:**

Top researchers, 7-12 years researchers after PhD | €2 mio.

### **Advanced Grant:**

Senior researchers with significant research achievements  
€2.5 mio.

### **Synergy Grant:**

2-4 excellent researchers and their teams, researchers with complementary skills, knowledge and resources, project duration max. 6 years | €10 mio.



European Research Council



## a) Researchers can join running ERC projects as a team member

- Researchers from Montenegro can apply to join existing ERC teams in Europe
- More information about Implementing Agreements can be found: <https://erc.europa.eu/funding/additional-opportunities>




European Research Council



## b) What do Marie Skłodowska-Curie actions (MSCA) offer?

- Opportunities for training and career development
- **Mobility of researchers is mandatory**

An illustration of a hand with a brown sleeve and a dark red cuff, pointing its index finger towards a light gray circle. The circle contains the text "Excellent Science".

Excellent  
Science

### MSCA principles:

- Open to all career stages and nationalities
- Bottom-up approach
- International, intersectoral and interdisciplinary career and knowledge-exchange

## b) Three MSCA main funding lines

### **Individual Fellowships (IF):**

- Supporting experienced international researchers to do research in Europe for 12-24 months
- Host institutions: from academia or industry

### **Innovative Training Networks (ITN):**

- Networks of organisations offering research and training to early-stage researchers

### **Research and Innovation Staff Exchange (RISE):**

- International and inter-sectoral cooperation



# Funding for collaborative research in Horizon 2020!



# How to participate in a collaborative project?

- As an entity from Montenegro you can take part in collaborative projects of Horizon 2020
- You can receive funding
- You can even coordinate a project
- Remember! All proposals must meet certain minimum conditions:
  - 3 participants from different EU member states or associated countries



# Where to find collaborative calls?

1 Excellent science

- Marie Skłodowska Curie Actions
- FET open
- Research Infrastructures

In Leadership in enabling and industrial technologies (LEIT)

Industrial leadership

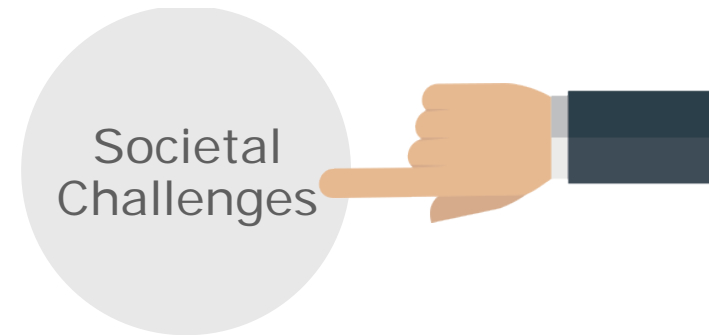
2

3 Societal challenges

In all seven societal challenges

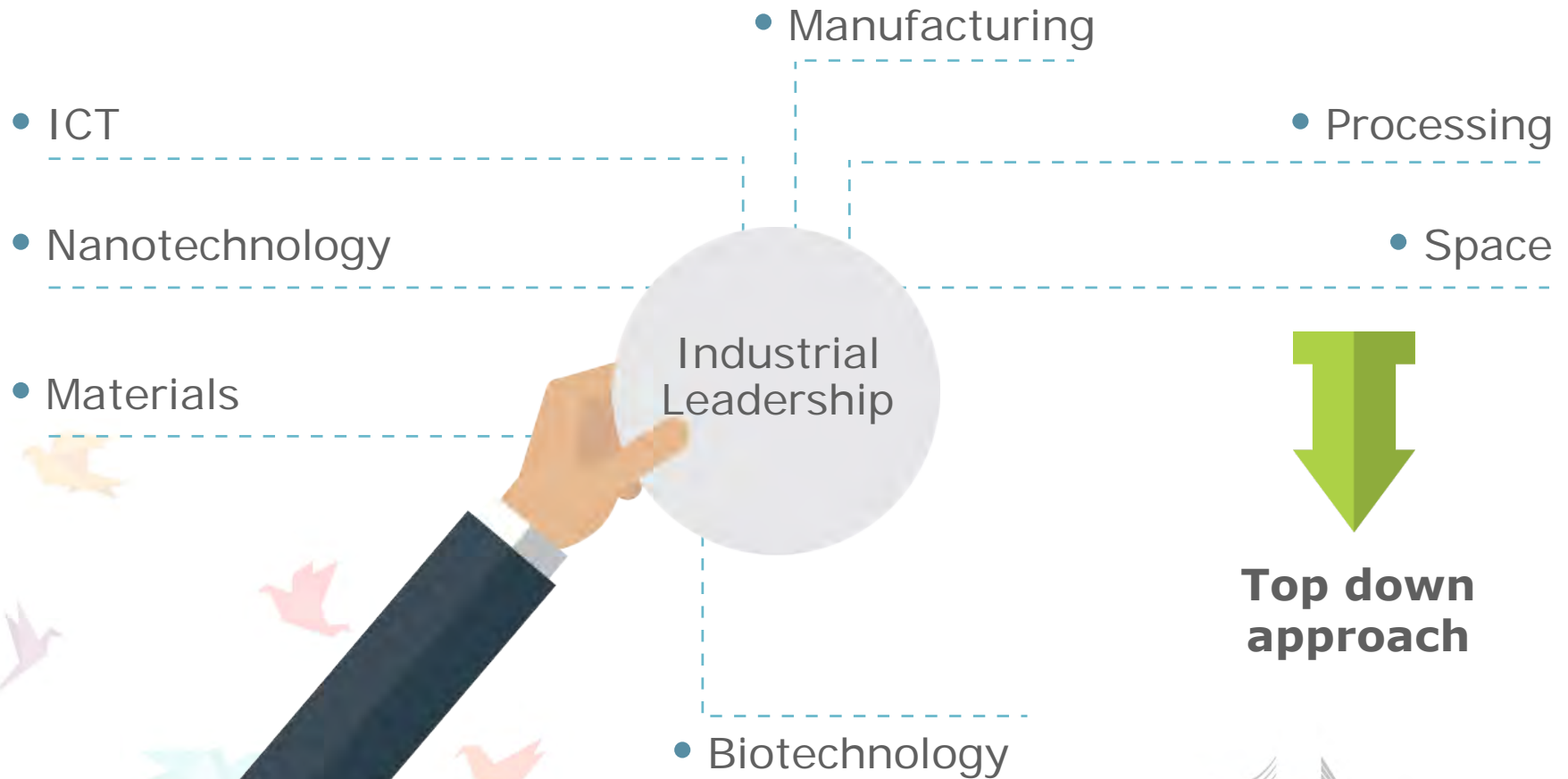
# Societal Challenges

- **Health**, demographic change and wellbeing
- **Food** security, sustainable agriculture and forestry, marine and maritime and inland water research and the bio-economy
- Secure, clean and efficient **energy**
- Smart, green and integrated **transport**
- **Climate** action, environment, 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



**Top down  
approach**

# Leadership in enabling and industrial technologies (LEIT)





# Future Emerging Technologies (FET)

- Collaborative research for **radically new lines of technology**
- Supports frontier research: alternative ideas, concepts or paradigms of risky or non-conventional nature (similar to ERC)



- 3 main pillars:

**Open, Proactive,  
Flagships**



**Top down  
approach**



**Bottom-up  
approach**

# Specific topics targeting cooperation with Western Balkan Countries/Associated Countries

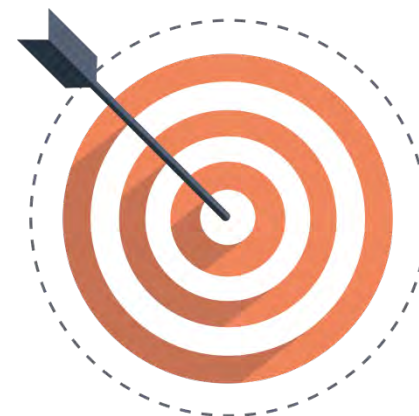
Generally, **ALL** calls are open for Associated Countries and should be screened by interested parties, however, there are also 2 targeted calls:

## Calls under Work Programme 2018-2020

### Europe in a changing world

- Towards forward-looking migration governance
  - <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/migration-02-2018.html>
- Drivers and contexts of violent extremism in the broader MENA region and the Balkans
  - <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/su-governance-10-2019.html>

*"Inclusion of partners from EU and non-EU transit and destination countries is encouraged" (...)*



**Targeted Opening**

# Eligibility for Funding – General Rules

## Automatically funded:

- Member States
- **Associated Countries**
- Countries listed in Annex A of the Work Programme

**Montenegro**

## Other Partner Countries are funded when:

- Agreement exists between 2 funding bodies
- Provision made in the call text
- Commission deems participation essential

# European Union Member States and Countries Associated to Horizon 2020

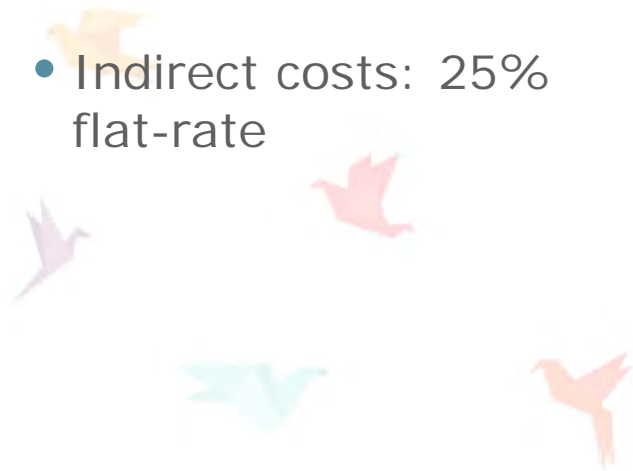
## EU Member States (28)

## Associated Countries (16)

Albania  
Armenia  
Bosnia & Herzegovina  
Faroe Islands  
Georgia  
Iceland  
Israel  
The Former Yugoslav Republic of Macedonia  
Republic of Moldova  
Montenegro  
Norway  
Serbia  
Tunisia  
Turkey  
Ukraine  
Switzerland

# Horizon 2020 funding rates and evaluation

- Basic funding rates:
  - 100% for Research and Innovation
  - 70% for Innovation/close-to-market
- Indirect costs: 25% flat-rate
- Three evaluation criteria:
  - Excellence
  - Impact
  - Implementation



# 5. Proposal preparation and submission



# Where to find opportunities to participate?

## The Participant Portal

The screenshot shows the 'RESEARCH & INNOVATION Participant Portal' website. The header includes the European Commission logo and navigation links: HOME, FUNDING OPPORTUNITIES, HOW TO PARTICIPATE, EXPERTS, SUPPORT, and a search bar. A 'LOGIN' and 'REGISTER' button are also present. The main content area features a banner for 'Horizon 2020 Funding Starting from 1/1/2014'. Below the banner, it states: 'On this site you can find and secure **funding** for projects under the following EU programmes:'. A list of programmes follows: '2014-2020 Horizon 2020 - research and Innovation framework programme', '2007-2013 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)', and '3rd Health Programme, Asylum, Migration and Integration Fund, Consumer Programme, COSME, Internal Security Fund Borders, Internal Security Fund Police, Justice Programme, Promotion of Agricultural Products Programme, Rights, Equality and Citizenship Programme and Research Fund for Coal & Steel'. Two columns of user instructions are provided: 'Non-registered users' (search for funding, read the H2020 Online Manual, check registration status, contact support) and 'Registered users' (submit proposal, sign grant, manage project, register as expert). At the bottom, there are six navigation tiles: 'WHAT'S NEW?', 'FUNDING OPPORTUNITIES', 'HOW TO PARTICIPATE', 'WORK AS AN EXPERT', 'MY PERSONAL AREA', and 'INFORMATION AND SUPPORT'. The footer contains the text: 'HORIZON 2020 RESEARCH ON EUROPA HORIZON 2020 & FP7 PROJECTS & RESULTS OLAF'.

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

# How does it work?

**OPEN COMPETITION  
+ PEER REVIEW**





# 12 facts you need to know about Horizon 2020 proposal preparation I

Funding opportunities published in the Participant Portal

1

2

Proposal submission in response to „calls for proposals“ only

3

Typically calls open annually

4

Calls open at different times

# 12 facts you need to know about Horizon 2020 proposal preparation II

Calls are open for at least 3 months

5

6

Calls describe in detail what is expected from the applicants

Call template defines structure for proposal

7

8

Proposals consist of an administrative and descriptive part

# 12 facts you need to know about Horizon 2020 proposal preparation III

Proposal structure is oriented towards evaluation criteria

9

10

One-stage or two-stage proposal submission

Online proposal submission only

11

12

Time to grant max. 8 months

# 4. Project examples for Montenegro



# Examples for Montenegro participation (running projects)

## GN4-2 Research and Education Networking - GÉANT

<b>Total cost:</b> EUR 95 904 005,75	<b>Topic(s):</b> <a href="#">GEANT-2016 - Research and Education Networking – GÉANT</a>
<b>EU contribution:</b> EUR 59 000 000	<b>Call for proposal:</b> H2020-IBA-SGA-INFRA-GEANT-2016 <a href="#">See other projects for this call</a>
<b>Coordinated in:</b> United Kingdom	<b>Funding scheme:</b> SGA-RIA - SGA-RIA

## CROSS Border management of variable renewable energies and storage units enabling a transnational Wholesale market

<b>Total cost:</b> EUR 22 093 478,75	<b>Topic(s):</b> <a href="#">LCE-04-2017 - Demonstration of system integration with smart transmission grid and storage technologies with increasing share of renewables</a>
<b>EU contribution:</b> EUR 17 287 742,88	<b>Call for proposal:</b> H2020-LCE-2017-SGS <a href="#">See other projects for this call</a>
<b>Coordinated in:</b> Spain	<b>Funding scheme:</b> IA - Innovation action

Source: [http://cordis.europa.eu/projects/home\\_en.html](http://cordis.europa.eu/projects/home_en.html)

## Facts and figures about proposal applications including at least one partner from Montenegro in H2020

	Applications	Mainlisted applications	Success rate of applicants (%)
Albania	244	15	6,1
Bos. & Herz.	305	44	14,4
The Former Yugoslav Republic of Macedonia	477	47	9,9
Kosovo*	60	11	18,3
<b>Montenegro</b>	<b>143</b>	<b>19</b>	<b>13,3</b>
Serbia	2068	222	10,7
<i>Total</i>	<i>3297</i>	<i>358</i>	<i>10,9</i>

Source: DG RTD – International Cooperation  
Data: CORDA; extraction date: 23/11/2017

\* This designation is without prejudice to positions on status and is in line with UNSCR 1244/99 and the ICJ Opinion on the Kosovo declaration of independence

## Facts and figures about funded projects with participation of at least one partner from Montenegro in H2020

	Participations	Projects	EU contribution (million euros)
Albania	17	15	1,59478176
Bos. & Herz.	41	26	3,54986622
The Former Yugoslav Republic of Macedonia	46	37	4,6883329
Kosovo*	9	8	0,67603525
<b>Montenegro</b>	<b>19</b>	<b>11</b>	<b>0,8254382</b>
Serbia	243	169	58,06813447
<i>Total</i>	<i>375</i>	<i>225</i>	<i>69,4025888</i>

Source: DG RTD – International Cooperation  
Data: CORDA; extraction date: 23/11/2017

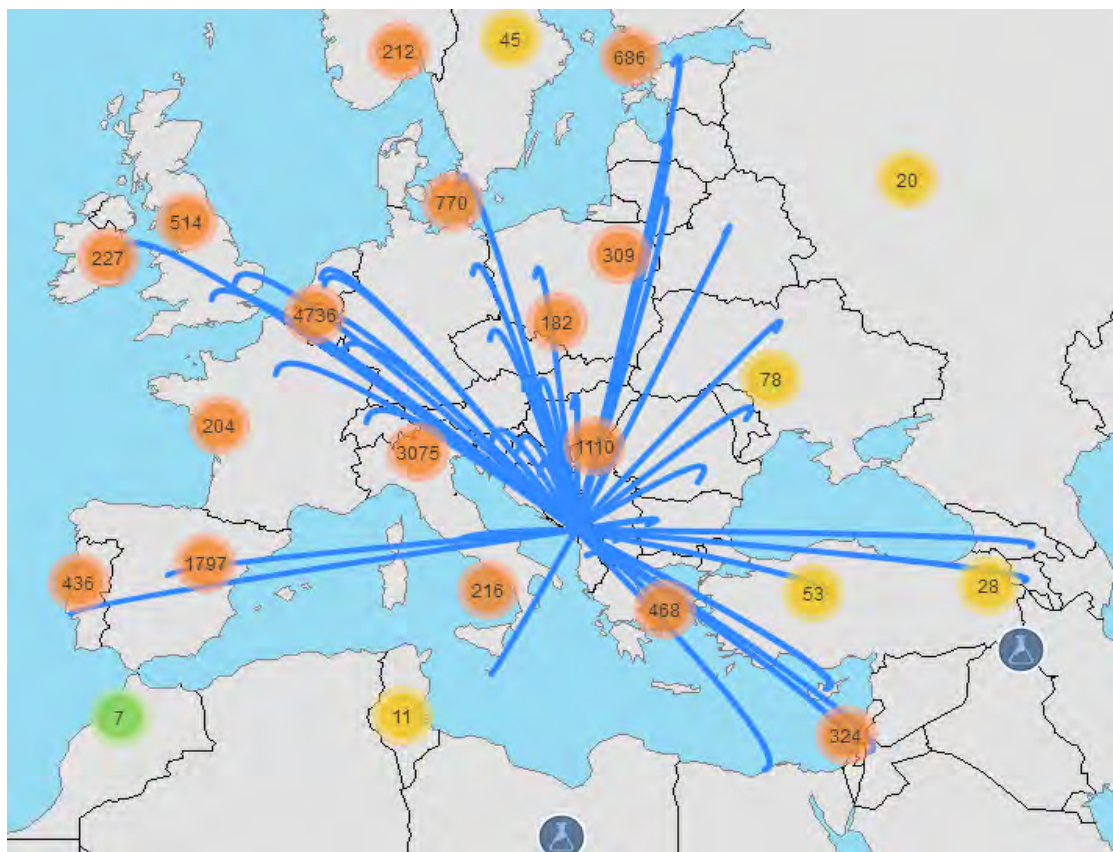
\* This designation is without prejudice to positions on status and is in line with UNSCR 1244/99 and the ICJ Opinion on the Kosovo declaration of independence





# Facts and figures about Montenegro participation in H2020

Existing H2020 networks: CORDIS DataLab (interactive map)



📍 JAVNA USTANOVA UNIVERZITET CRNE GORE  
PODGORICA  
CETINJSKA 2  
81000 PODGORICA  
Montenegro  
[www.ucg.ac.me](http://www.ucg.ac.me)

## Projects

VI-SEEM  
GN4-1  
MontEENegro  
GN4-2  
BELLA-S1  
MontEENegro

Source: <http://cordis.europa.eu/datalab/datalab.php>



## 6. Closure - final Q&A



# Key message for Montenegro researchers and entities

- Horizon 2020 is the largest research and innovation programme in the world;
- Montenegro is associated to H2020 (Associated Country; short "AC") thus eligible to apply under same conditions like EU MS;
- Montenegro nationals or institutions are eligible to take part in Horizon 2020 and receive funding as **individual researchers** or **in collaborative projects**;
- Participation in Horizon 2020 projects offers exciting opportunities to extend your research field, your network and your career options;
- International cooperation is encouraged in Horizon 2020.

# National Contact Points Horizon 2020

- Established, operated and financed by EU Member States, associated countries and third countries
- Nominated by national ministries to the European Commission
- For all specific areas of Horizon 2020
- **NCPs give personalised support on**
  - application process
  - grant preparation and project management
- Organisation of workshops and information events
- Contact details of Montenegro NCPs on the Participant Portal ([http://ec.europa.eu/research/participants/portal/desktop/en/support/national\\_contact\\_points.html](http://ec.europa.eu/research/participants/portal/desktop/en/support/national_contact_points.html))

# Montenegro NCPs in Horizon 2020

## **Mrs Marijeta Barjaktarović Lanzardi - Montenegro**

Marie Skłodowska-Curie actions on skills, training and career development - European Research Infrastructures - Joint Research Centre - Space -

Organisation name: Ministry of Science

Address: Rimski trg 46, 81 000, Podgorica, Montenegro

Tel: +382 20 405 315 - Fax: +382 20 234 168

marijeta.barjaktarovic@mna.gov.me - Website: <http://www.mna.gov.me>

## **Mrs Ljiljana Belada - Montenegro**

SMEs - Access to Finance -

Organisation name: Directorate for Development of Small and Medium Enterprises

Address: Rimski trg 46, 81 000, Podgorica, Montenegro

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ljiljana.bozovic@nasmе.me - Website: <http://www.nasme.me>

## **Mrs Milena Ivanović - Montenegro**

Legal and Financial Aspects

Organisation name: Ministry of Science

Address: Rimski trg 46, 81 000, Podgorica, Montenegro

Tel: +382 20 405 350 - Fax: +382 20 234 168

milena.ivanovic@mna.gov.me - Website: <http://www.mna.gov.me>

# Montenegro NCPs in Horizon 2020

## Mr Saša Ivanović - Montenegro

Future and Emerging Technologies - Information and Communication Technologies (ICT) - Secure, clean and efficient energy - Smart, green and integrated transport - Security -

Organisation name: Ministry of Science

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Tel: + 382 20 234 577 - Fax: +382 20 221 577

sasa.ivanovic@mna.gov.me - Website: www.mna.gov.me

## Mrs Milena Milonjić - Montenegro

European Research Council - Health, demographic change and wellbeing - Nanotechnologies, advanced materials, biotechnology, advanced manufacturing and processing - Climate action, environment, resource efficiency and raw materials -

Organisation name: Ministry of Science

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## Mr Filip Petrović - Montenegro

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fpetrovic@ac.me - Website: <http://www.ucg.ac.me/>



European  
Commission

# Montenegro NCPs in Horizon 2020

## **Mrs Branka Žižić - Montenegro**

Inclusive, innovative and reflective societies - Spreading excellence and widening participation - Food security, sustainable agriculture, marine and maritime research and the bio-economy; & Biotechnology - Science with and for Society - National NCP coordinator -

Organisation name: Ministry of Science

Address: Rimski trg 46, 81 000, Podgorica, Montenegro

Tel: + 382 20 405 331 - Fax: + 382 20 234 168

branka.zizic@mna.gov.me - Website: <http://www.mna.gov.me>



# Useful links

- Horizon 2020: <http://ec.europa.eu/programme>
- Participant Portal:  
<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>
- Reference Documents (incl. e.g. Work programme 2018-2020)  
[http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference\\_docs.html#h2020-work-programmes](http://ec.europa.eu/research/participants/portal/desktop/en/funding/reference_docs.html#h2020-work-programmes)
- Marie Skłodowska-Curie Actions:  
<http://ec.europa.eu/research/mariecurieactions/>
- European Research Council:  
<http://erc.europa.eu/>
- EURAXESS: [www.euraxess.org](http://www.euraxess.org)



# JOIN NOW:

## Expert Evaluators Needed!

<https://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>

**The new Horizon 2020 Work Programme and Calls for 2018/2020 are open for application!**

<http://ec.europa.eu/programmes/horizon2020/en>



# Thank you!

#InvestEUresearch

[www.ec.europa.eu/research](http://www.ec.europa.eu/research)

Participant Portal

[www.ec.europa.eu/research/participants/portal](http://www.ec.europa.eu/research/participants/portal)

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