



# HORIZON EUROPE novelties

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# About me

## Background :

- PhD in information technologies

## Employed:

- University Clinical Centre of Republic of Srpska (Expert associated to Research centre)
- Pan European University APEIRON Banja Luka (Assistant professor)

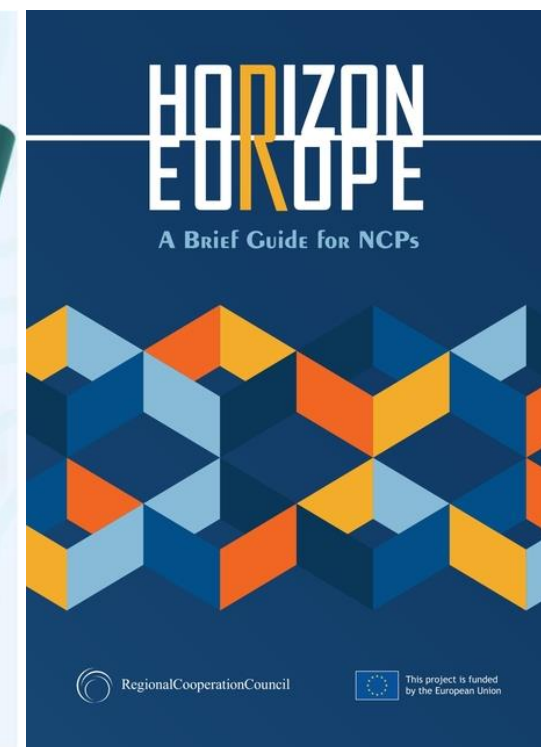
## Experience with EU Programmes:

- Since 1996. (pre-TEMPUS, TEMPUS)
- > 15 years experience in Framework programmes (from FP5)
- NCP and PC member 2007-2020 (FP7 and H2020)
- EURAXESS Bosnia and Herzegovina
- EURAXESS Africa
- EC engaged expert and trainer - South East Asia and Africa

December 2021



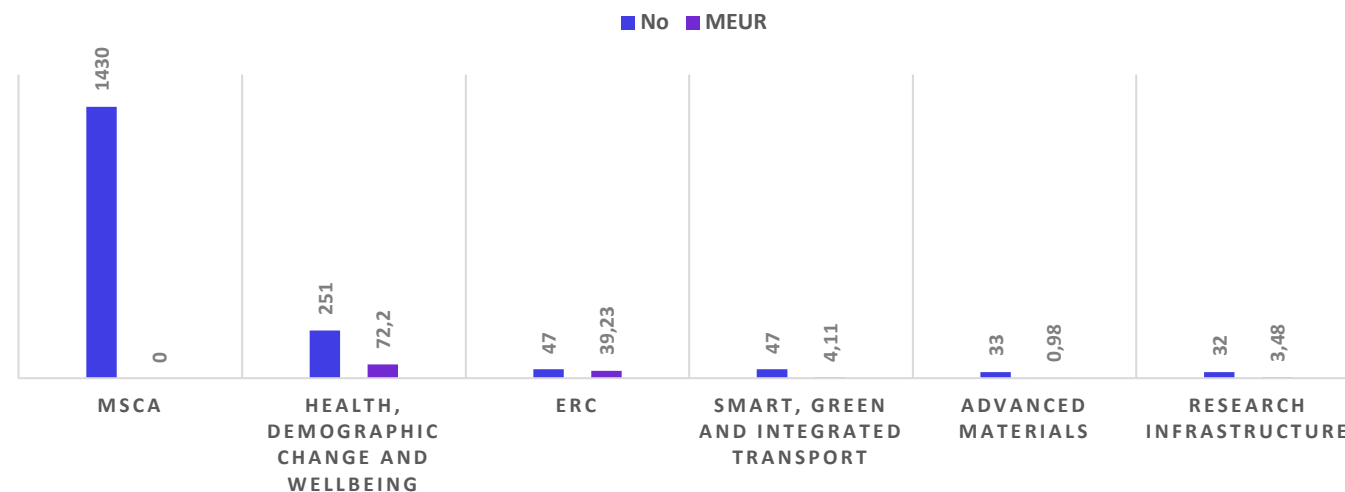
January 2022



# Norht America's participation in H2020

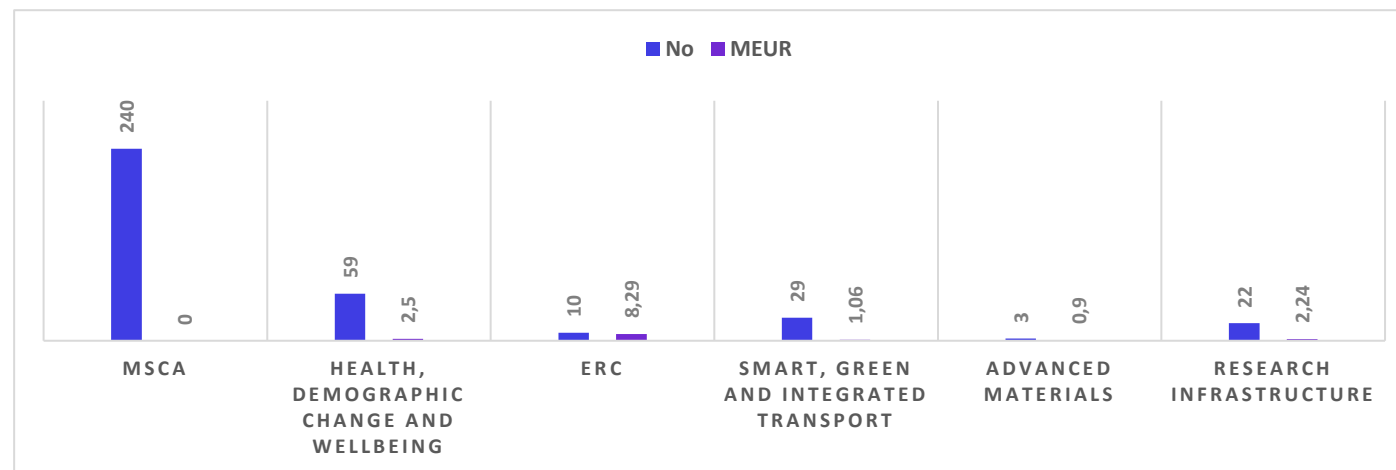
## USA

1561 GA signed	128.8 MEUR NET EU contribution	17,86% success rate
8455 eligible proposals	12 ERC Principal Investigators	9 EIC participations



## Canada

389 GA signed	16.18 MEUR NET EU contribution	18,14% success rate
1968 eligible proposals	2 ERC Principal Investigators	3 EIC participations



# Main novelties



1. Programme structure



2. European Innovation Council



3. EU Missions and Partnerships



4. Participation rules - internationalisation



5. Open Science



6. MSCA Changes

# 1 - Programme structure



- Kept 3-pillar structure
- H2020 „Societal challenges“ become „Global Challenges and European Industrial Competitiveness“ and moved to Pillar 2.
- „Clustering“ in Pillar 2
- Whole Pillar 3 dedicated to the European Innovation Council, EIT and Ecosystems
- Reforming and Enhancing European R&I system
- **Canada has concluded exploratory talks** with the Commission regarding Associated Country status – happy association!!!!

## 2 - European Innovation Council



### EIC Pathfinder (up to 3-4 MEUR) - IDENTIFY

- ex FET
- To **explore** radically new/breakthrough technologies
- **Low** TRLs
- 2 types of calls:
  - bottom-up (only collaborative projects, TRL 1-3)
  - top-down (collaborative and individual projects, TRL 2-4)



### EIC Transition (up to 2.5 MEUR) - DEVELOP

- the maturation and validation of your novel technology in the lab and in relevant application environments
- the development of a business case and (business) model towards the innovation's future commercialization
- a technology that is demonstrated to be effective for its intended application (TRL 5/6) and
- a business model, its initial validation and a business plan for its development to market.



### EIC Accelerator (grant up to 2.5 MEUR, investments up to 15 MEUR) – SCALE UP

- ex **SME Instruments**
- To **develop** radically new/breakthrough technologies so that they become attractive for private investors
- **High** TRLs: 5-6 at the beginning of the project, 8 at the end
- Mostly individual funding – blended finance
- **Transition**: funding of successful ERC or EIC pathfinder facilitated

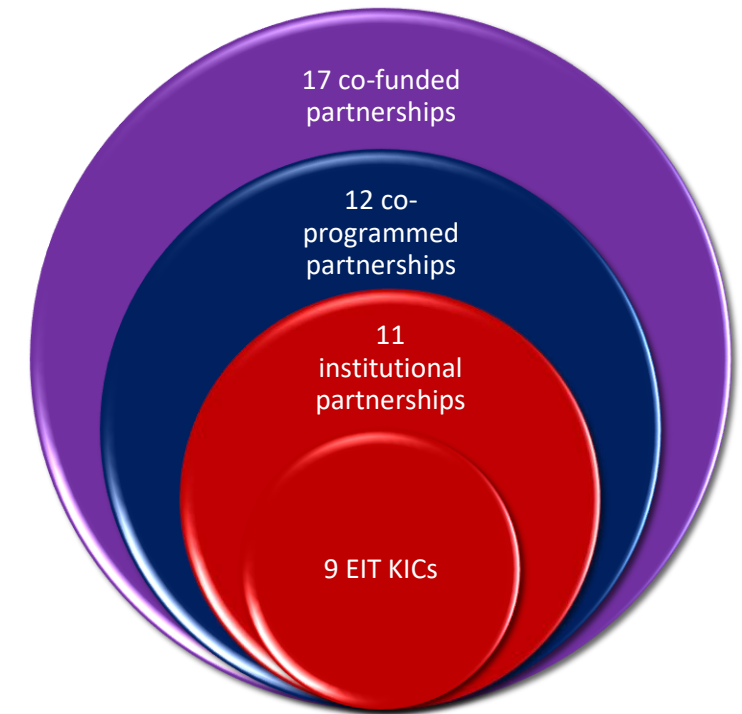
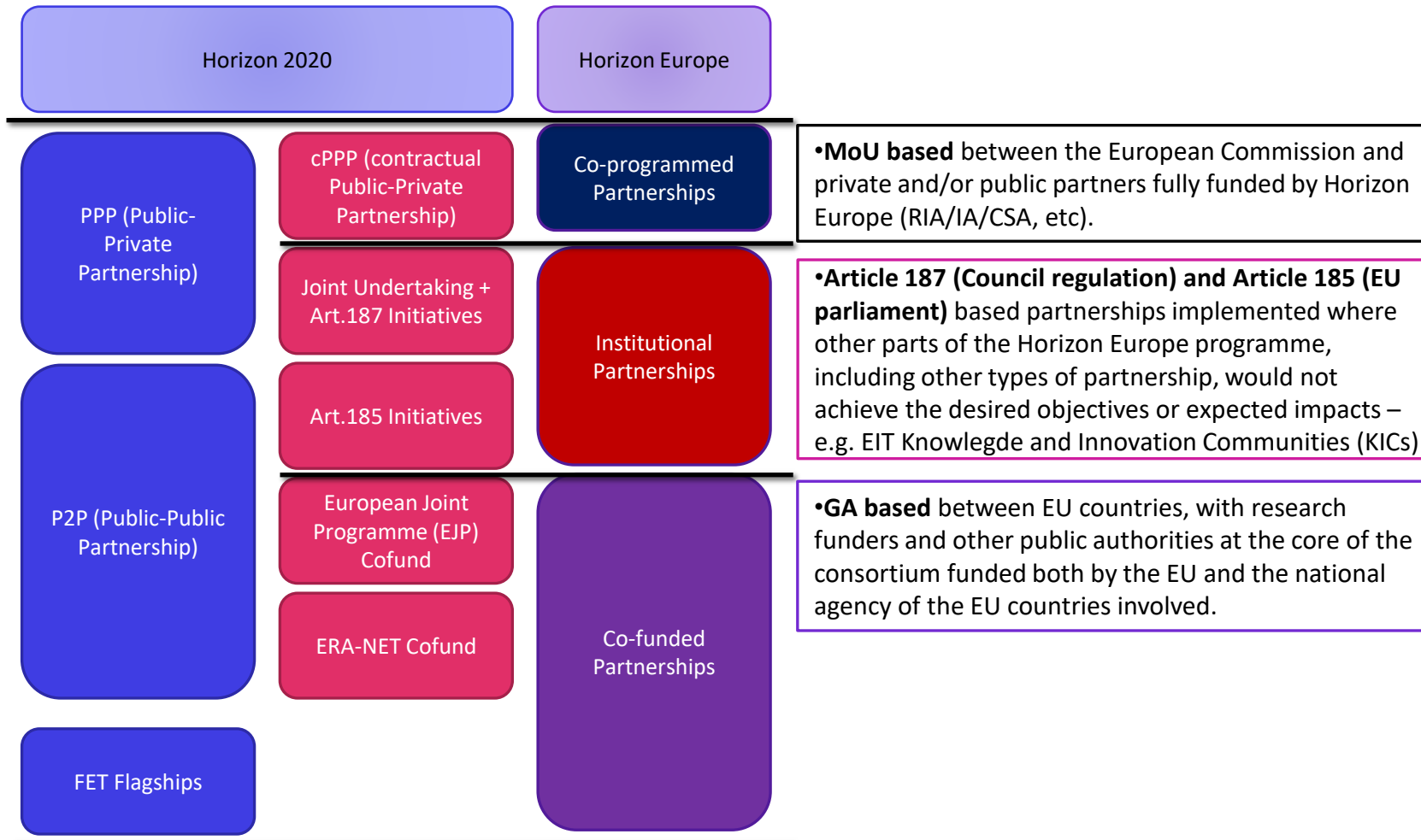


# 3 - R&I Missions

<b>Cancer:</b>	<ul style="list-style-type: none"><li>• by 2030, more than 3 million lives saved</li></ul>
<b>Adaptation to climate change including societal transformation (climate):</b>	<ul style="list-style-type: none"><li>• by 2030, prepare Europe to deal with climate disruptions, accelerate the transition to a healthy and prosperous future within safe planetary boundaries and scale up solutions for resilience that will trigger transformations in society</li></ul>
<b>Healthy oceans, seas coastal and inland waters (oceans):</b>	<ul style="list-style-type: none"><li>• by 2030, cleaning marine and fresh waters, restoring degraded ecosystems and habitats, decarbonising the blue economy in order to sustainably harness the essential goods and services they provide</li></ul>
<b>Climate-neutral and smart cities (cities):</b>	<ul style="list-style-type: none"><li>• by 2030, support, promote and showcase 100 European cities in their systemic transformation towards climate neutrality</li></ul>
<b>Soil health and food (soil):</b>	<ul style="list-style-type: none"><li>• by 2030, at least 75% of all soils in the EU are healthy for food, people, nature and climate</li></ul>



# 3 - R&I Partnerships





# 4 - Participation focus – internationalisation and safety

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**Increased number of associated countries (AC)** – opportunity for inclusion of many countries

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**Increased number of calls and topics** involving 3rd countries (TC) – including participation in calls for missions

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**Mutual Insurance Mechanism (MIM)** – former Guarantee fund - can **vary between 5% and 8%** - from case to case - and defined at the GA preparation phase; deducted from the prefinancing and reimbursed upon final report approval.

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**Impact driven project design** - maximisation of the effects of the R&I investment using new terms such as ‘Destinations’ that are describing the expected impacts identified in different EU strategies, and ‘topics’, describing the related expected outcomes essential for having the impacts

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**Security Appraisal Procedure** ensuring application of security rules and conformity with any relevant Union and national law related to protected information introduced in the Model Grant Agreement (Article 13 and Annex 5).

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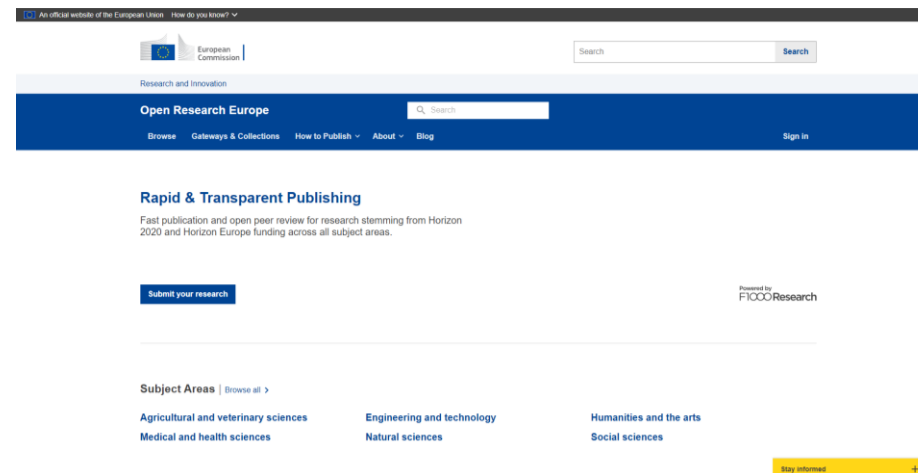
**‘Do No Significant Harm’ principle (DNSH)** - introduced in European Green Deal and other relevant EU regulations; included in the cluster work programmes having in mind their importance for the environmental outcomes and impacts.

# 5 - Open Science

- **Open access publications** is mandatory – still possible to select between **GOLD** and **GREEN** access.
- To generate **FAIR (Findable, Accessible, Interoperable, Re-usable)** and **open data** - **the motto is to be as open as possible, as close as necessary**.
- The **European Open Science Cloud (EOSC)** created to share research results – 150 member institutions.
- **Reciprocity of the openness** will be strongly encouraged for the collaboration with third countries.
- The commission have funded the development of an **open-access publishing platform** to host beneficiaries' publications.



[EOSC Portal \(eosc-portal.eu\)](https://eosc-portal.eu)



[Open Research Europe | Open Access ... | Open Research Europe \(europa.eu\)](https://openresearch.europa.eu)

# 6 - MSCA Changes

## Doctoral Networks (MSCA-DN, former ITN)

- Only one type (industrial or joint doctorate)
- Every student enrolled in PhD programme
- Max. 10 PhD students per project (360 researcher-months, except for industrial - 540)

## Postdoctoral fellowships (MSCA-PF, former IF)

- Only one type of European Fellowship + Global Fellowship
- ERA Fellowships
- Up to 8 years from PhD

## Staff exchange (MSCA-SE, former RISE)

- If interdisciplinary – consortia from single sector
- Promote I3 collaboration approach – international, interdisciplinary and intersectoral

## MSCA COFUND (former COFUND)

- One type of COFUND – not two as in H2020
- Promotion of new institutions participation

## MSCA and Citizens (former MSCA NIGHT)

- No changes





QUESTIONS?



Thank You! Let's collaborate and win together!

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