

# H2020 BIZTONSÁGOS TÁRSADALMAK – SECURE SOCIETIES (7. TÁRSADALMI KIHÍVÁS – SC7)

**2019. ÉVI PÁLYÁZATI FELHÍVÁSOK A KRITIKUS INFRASTRUKTÚRA-VÉDELEM, A KATASZTRÓFAVÉDELEM, A HATÁRVÉDELEM, A SZERVEZETT BŰNÖZÉS ÉS TERRORIZMUS ELLENI KÜZDELEM, ILLETVE A PÁN-EURÓPAI HÁLÓZATOSODÁSI AKCIÓK TERÜLETÉN, PRAKTIKUS TANÁCSOK A PÁLYÁZÓKNAK**

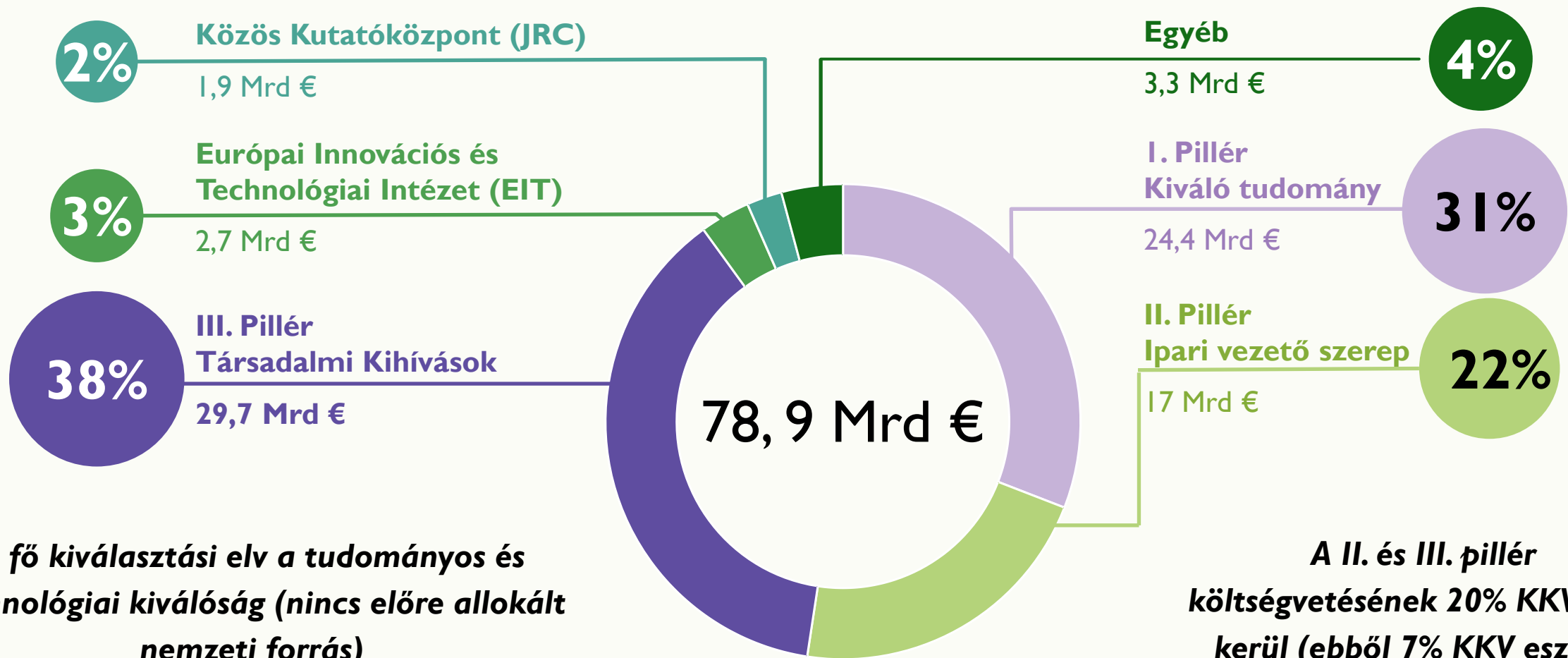
Mészáros Gergely, Programbizottsági Tag (PC) és Nemzeti Kapcsolattartó (NCP)  
Nemzeti Kutatási, Fejlesztési és Innovációs Hivatal

Budapest, 2019. április 30.



# Horizont 2020

az Európai Unió kutatási, fejlesztési és innovációs keretprogramja (2014-2020)



*A fő kiválasztási elv a tudományos és technológiai kiválóság (nincs előre allokált nemzeti forrás)*

*Közvetlenül Brüsszelből nemzetközi konzorciumokban pályázható források*

*A II. és III. pillér költségvetésének 20% KKV-khoz kerül (ebből 7% KKV eszköz)*



# Horizont 2020

Társadalmi kihívások és Ipari vezető szerep



## Pillér

### Ipari vezető szerep

- információs és kommunikációs technológiák (ICT)
- Nanotechnológiák, korszerű anyag- és gyártási technológiák, biotechnológiai alapú ipari folyamatok
- Űrkutatás
- Kockázatfinanszírozáshoz jutás
- Innováció a KKV-k számára



## Pillér

### Társadalmi Kihívások

- Egészség, demográfiai változások és jólét
- Élelmezésbiztonság, fenntartható mezőgazdaság, tengerkutatás és tengerhasznosítási célú kutatás, valamint a biogazdaság
- Biztonságos, tiszta és hatékony energia
- Intelligens, környezetkímélő és integrált közlekedés
- Éghajlatváltozás, erőforrás-hatékonyság és nyersanyagok
- Európa a változó világban - inkluzív, innovatív és reflektív társadalmak
- **Biztonságos társadalmak**



# Horizont 2020

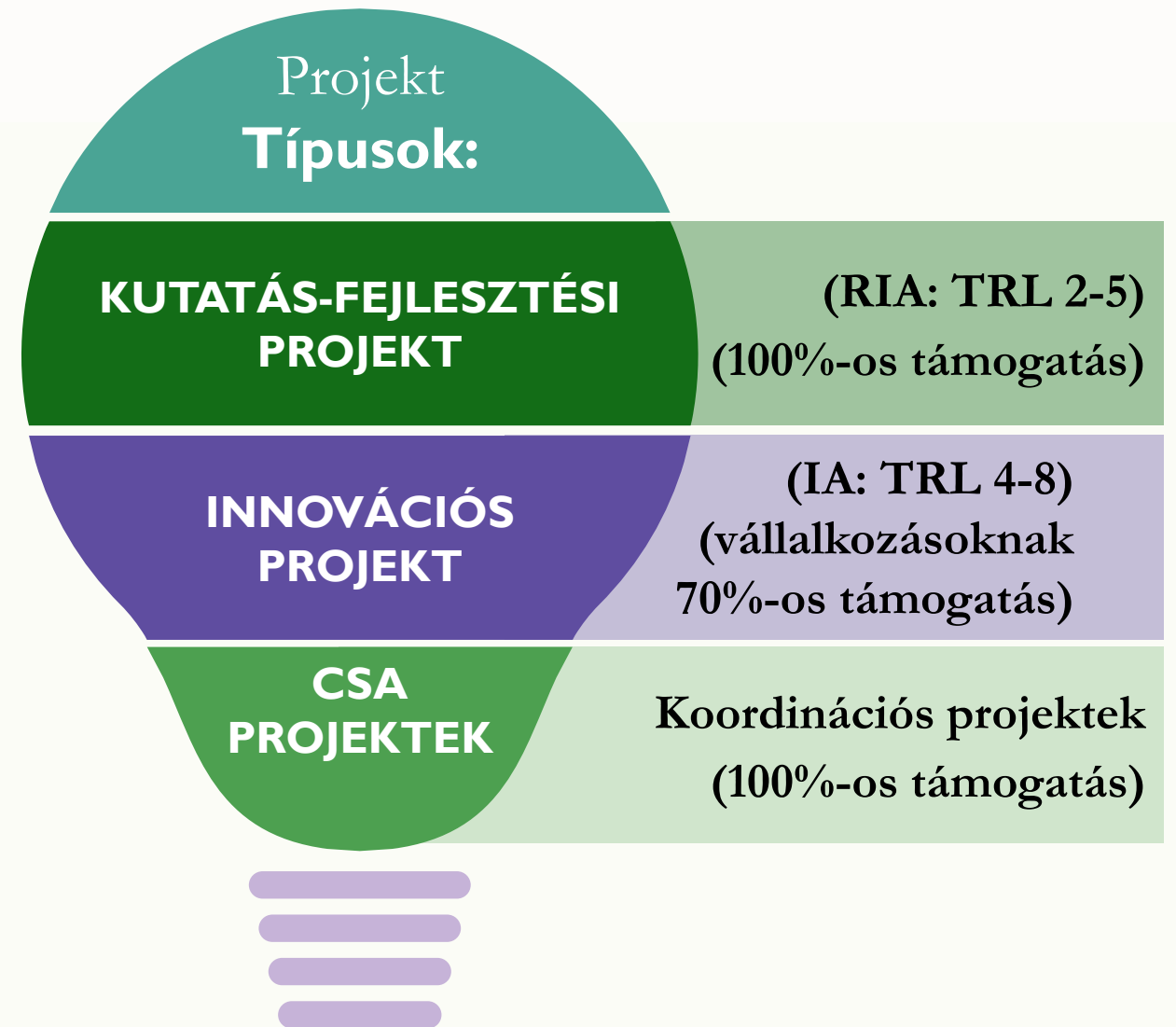
Tematikus pályázati felhívások nemzetközi konzorciumokban 2-3 éves munkaprogramok alapján

A konzorciumokban minimum három, különböző országban működő szervezetnek kell részt vennie.

## További információ:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/h2020>

Elektronikus beadás  
és szerződéskezelés:



Funding & tender opportunities  
Single Electronic Data Interchange Area (SEDIA)



SEARCH FUNDING & TENDERS ▼

HOW TO PARTICIPATE ▼

PROJECTS & RESULTS

WORK AS AN EXPERT

SUPPORT ▼

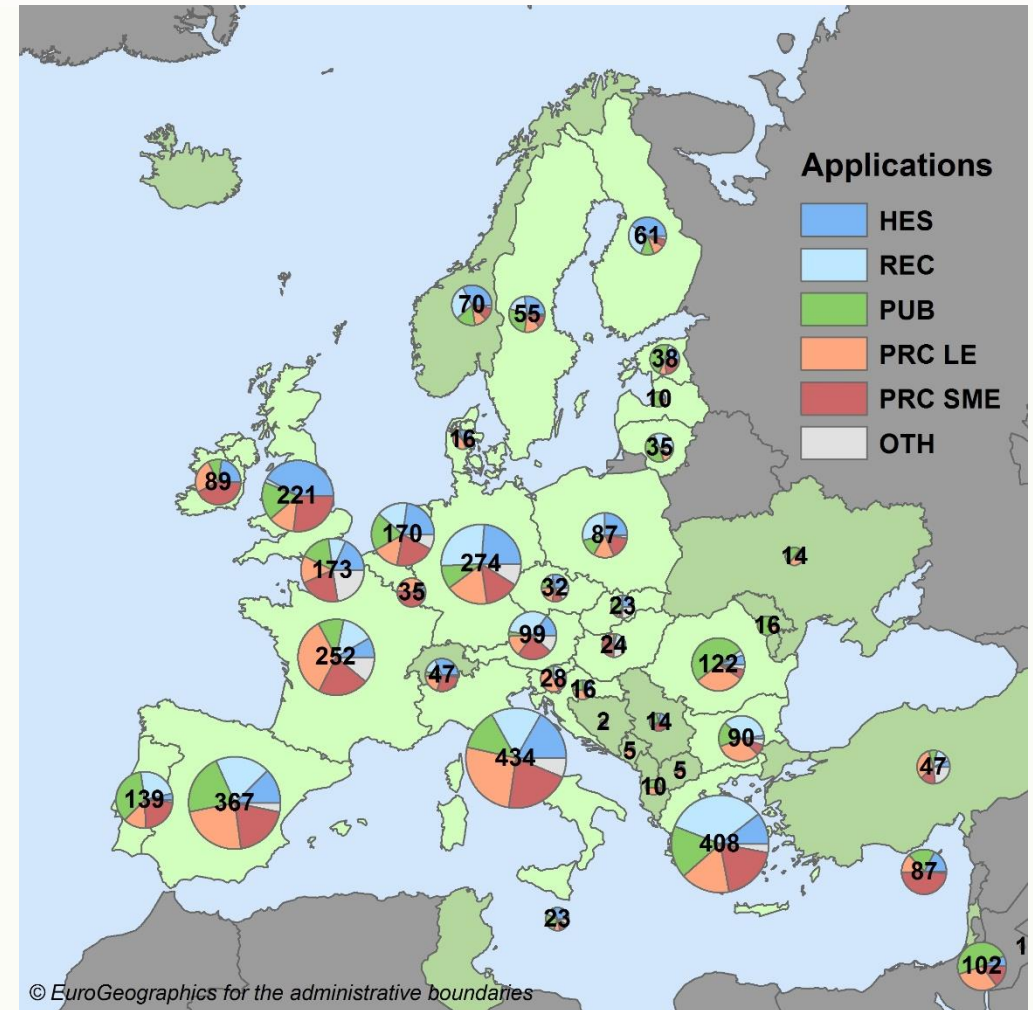
# H2020 SC7 – 2018. évi pályázati beadási statisztika

3,815 applications by 1,910 unique applicants

- **Member States** : 3,408 applications
- **Assoc. Countries** : 338 applications
- **3rd Countries** : 69 applications (DRS02: 28 JP, 14 KR!)

## Applications per sector:

- HES: 667 (18%)
- REC: 663 (17%)
- PUB: 721 (19%)
- PRC LE: 798 (21%)
- PRC SME: 739 (19%)
- OTH: 22 (6%)



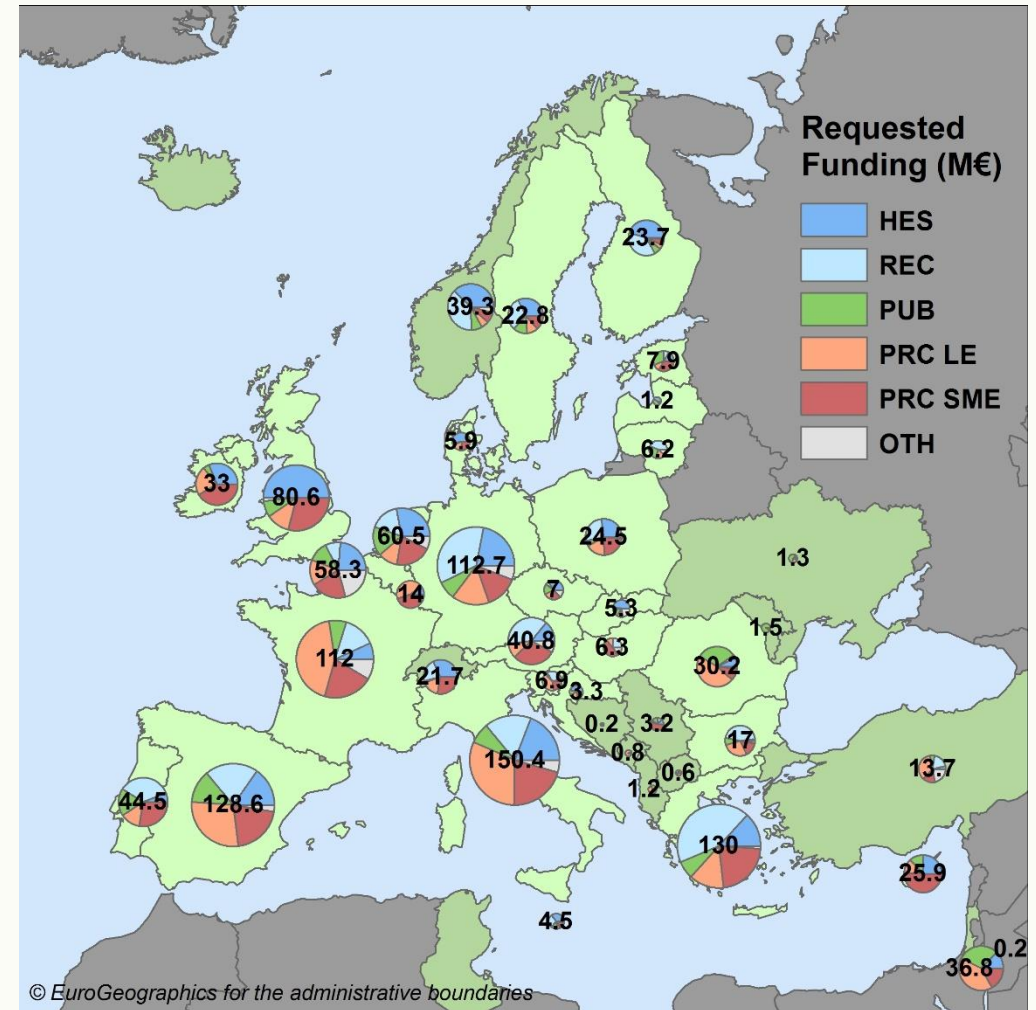
# Horizont 2020 SC7 – 2018. évi kért támogatások

1,289 M€ total requested funding

- **Member States:** 1,164 M€
- **Assoc. Countries:** 121 M€
- **3rd Countries:** 4 M€

## Requested funding by sector:

- HES: 265 M€ (21%)
- REC: 274 M€ (21%)
- PUB: 133 M€ (10%)
- PRC LE: 282 M€ (22%)
- PRC SME: 275 M€ (21%)
- OTH: 60 M€ (5%)



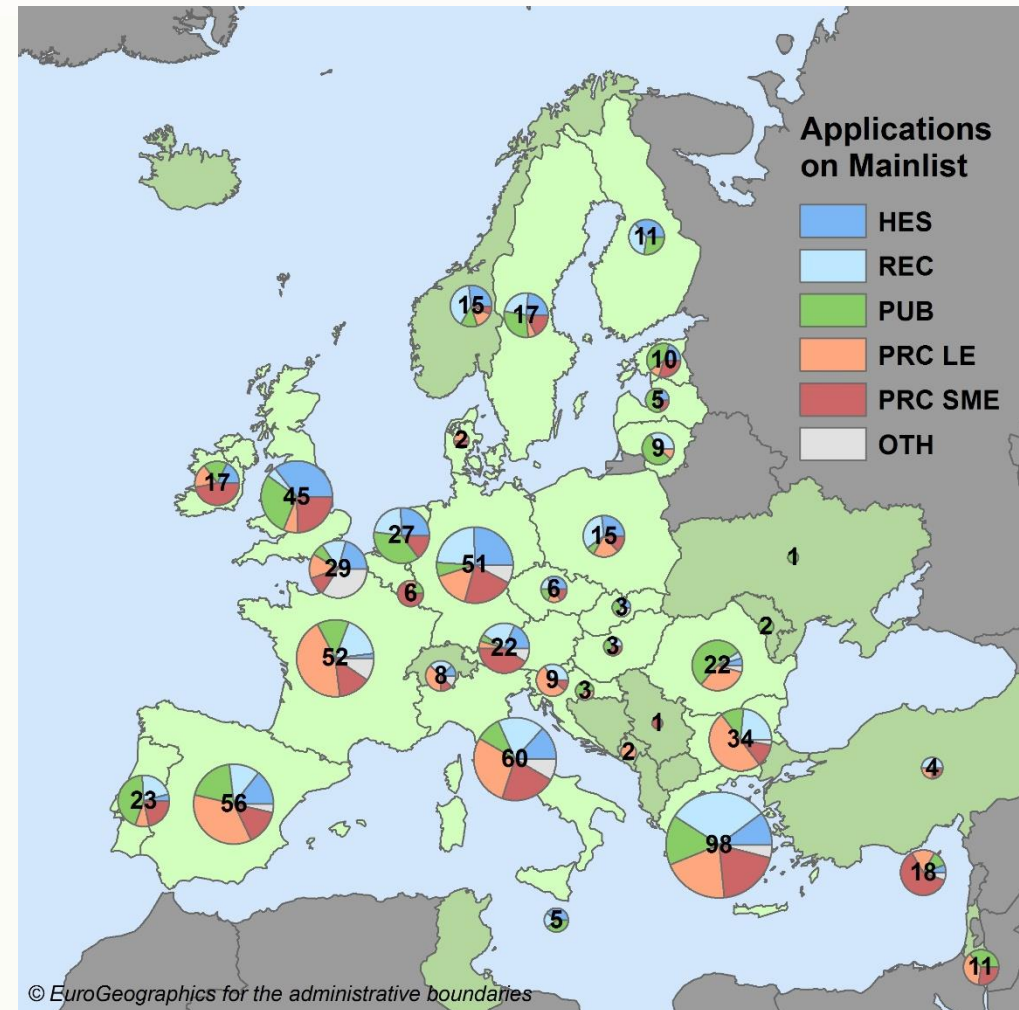
# H2020 SC7 – 2018. évi támogatott pályázati statisztika

717 applications by 527 unique applicants

- **Member States** : 658 applications
- **Assoc. Countries** : 47 applications
- **3rd Countries** : 12 applications

## Applications per sector:

- HES: 110 (15%)
- REC: 134 (19%)
- PUB: 138 (19%)
- PRC LE: 161 (23%)
- PRC SME: 137 (19%)
- OTH: 37 (5%)



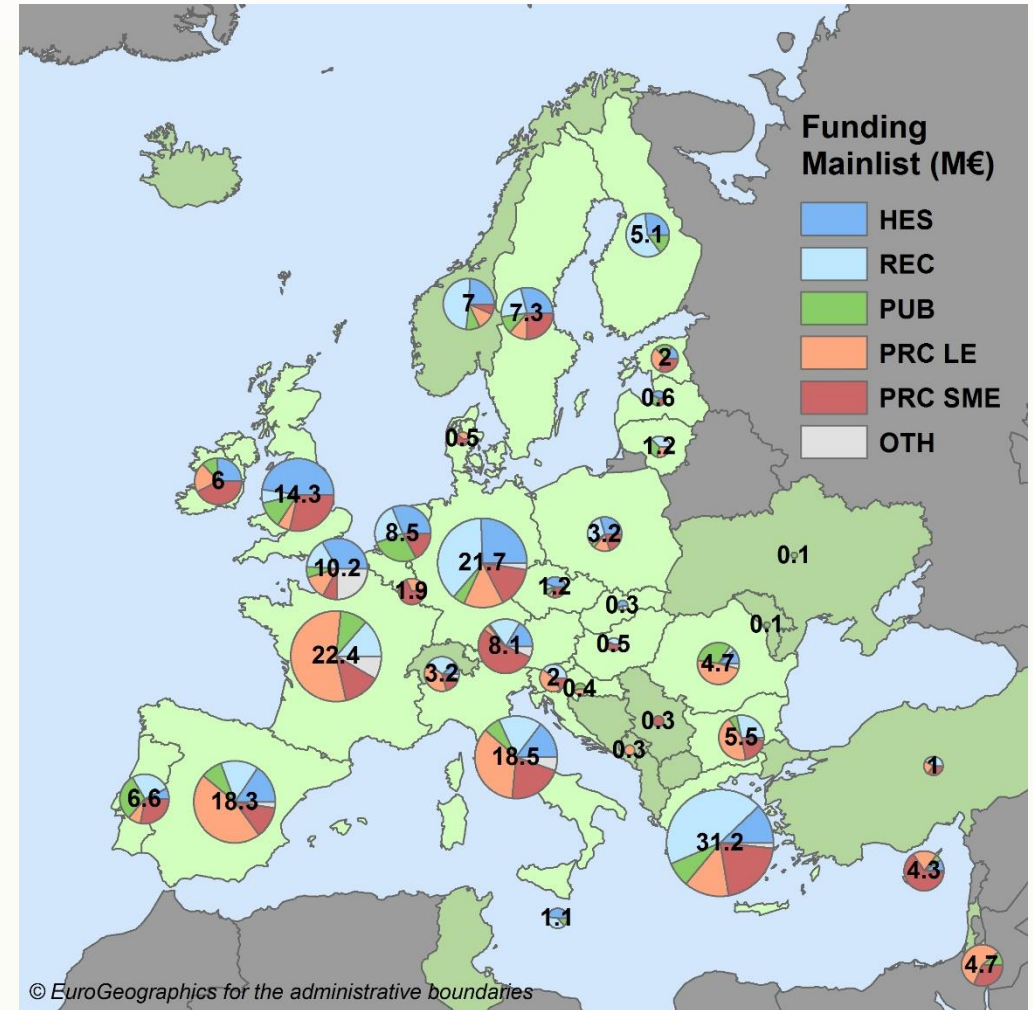
# H2020 SC7 - 2018. évi elnyert támogatási statisztika

225.0 M€ total requested funding

- **Member States:** 207.6 M€
- **Assoc. Countries:** 17.0 M€
- **3rd Countries:** 0.4 M€

## Requested funding by sector:

- HES: 40.9 M€ (18%)
- REC: 53.0 M€ (23%)
- PUB: 22.5 M€ (10%)
- PRC LE: 53.9 M€ (24%)
- PRC SME: 46.7 M€ (21%)
- OTH: 8.0 M€ (4%)





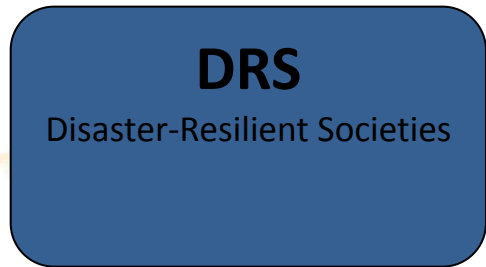
# Work Programme 2018-2020 - Structure



- CIs: Cyber- & physical security
- Security of public spaces



- Cyber-security
- Privacy and Data Protection



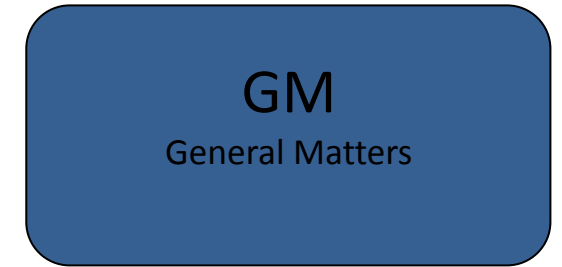
- Human factors
- Technologies
- Prenorm. Research
- CBRN, pandemics



- Human factors
- Technologies
- Data management



- Human factors
- Technologies
- Demo of solutions



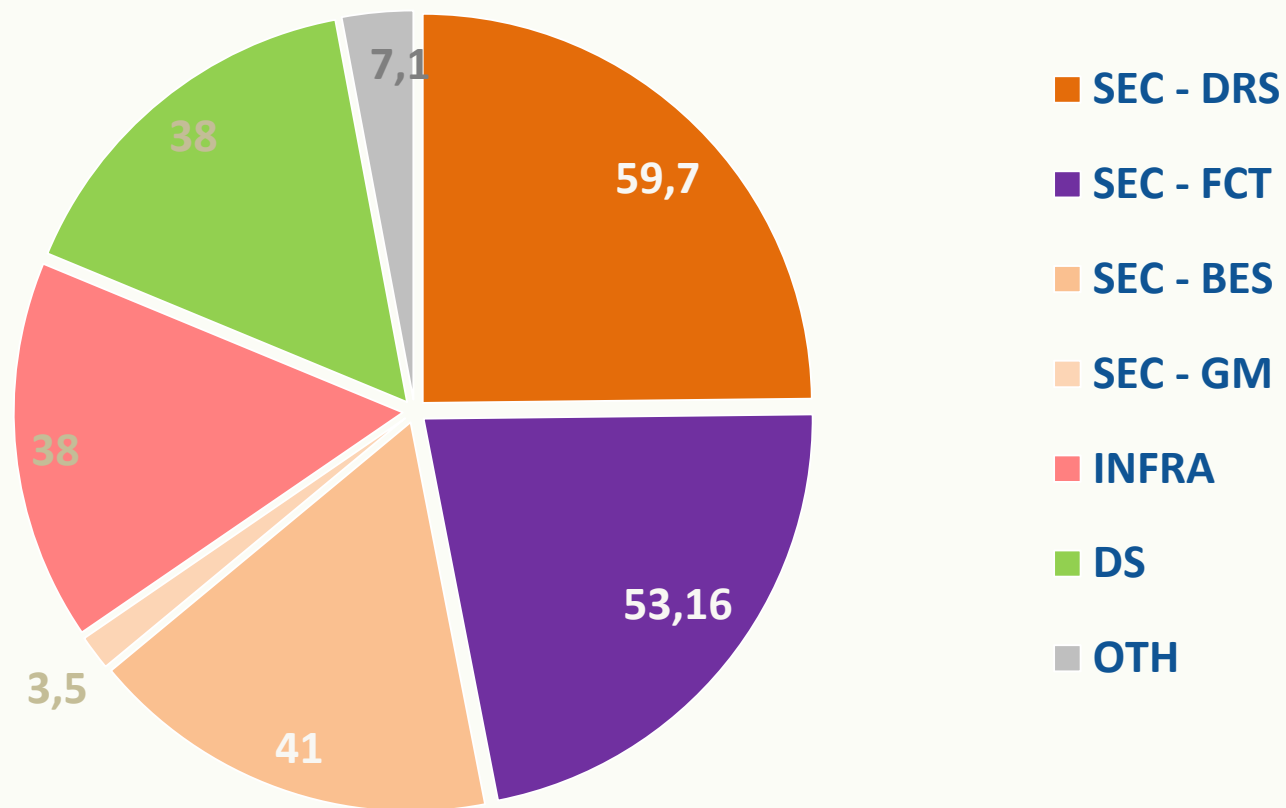
- Pract. Networks
- **PCPs**

[https://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-security\\_en.pdf](https://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-security_en.pdf)

# H2020 SC7 – A 2019. évi költségvetés szerkezete

**Budget (M€): 240,47 (+14%)**

INFRA: 38 , DS: 38 , SEC: 157.36 , OTH: 7.11



# H2020 SC7 – Általános elvek

## ➤ Challenge-driven

- Needs of society, practitioners and relevant entities
- Reflected in 'Expected Impacts'

## ➤ Obligatory participation of Practitioners (INFRA, SEC)

- In continuation since 2016
- Better market uptake and higher impact
- Enhanced policy support
- Reduced oversubscription (success rate 2018: 18%)

## ➤ Increased involvement of civil society

- e.g. as part of consortium
- target group for dissemination bringing thus research closer to the public



# H2020 SC7 - SU-INFRA01-2018-2019-2020

## Prevention, detection, response and mitigation of combined physical and cyber threats to CI in Europe

### Scope of proposals:

- Forecast, assessment of physical and cyber risks, prevention, detection, response, mitigation of consequences and fast recovery after incidents.
- Objective: Resilience of all functions, and of neighbouring population/environment.

### Proposals should:

- Assess in detail all aspects of interdependent physical and cyber threats and incidents;
- Demonstrate the accuracy of risk assessment approaches;
- Develop real-time evidence-based security management of threats
- Provide scenarios and recommendations for policy planning, engagement of civil society and investment measures



## Prevention, detection, response and mitigation of combined physical and cyber threats to CI in Europe

In 2018 and 2019 the following IPs shall be addressed:

- Water systems
- Energy infrastructure (Energy value chain, Gas networks, others)
- Transport infrastructure (Ports, Airports, others)
- Communication infrastructure
- Ground segments of space systems
- Health services
- E-Commerce and postal infrastructure
- Sensitive industrial sites and plants
- Financial services

### Objective:

- To cover the largest possible spectrum of installations
- Minimize overlapping with ongoing actions

Check Funding and Tenders Portal for [topic updates!](#)

Areas in red, covered in calls 2016 and 2017

\*\*Areas in green, to be covered following 2018 evaluation (currently under GAP)

\*\*\*Areas in black, not yet covered



## Prevention, detection, response and mitigation of combined physical and cyber threats to CI in Europe

- Innovation Action
- TRL 7 – system prototype demonstration in operational environment.
- The participation of SMEs is strongly encouraged.
- Indicative budget: of € 7-8 million.
- International cooperation is encouraged, and in particular with international research partners in the context of the International Forum to Advance First Responder Innovation ([IFAFRI](#)).
- **Impact - Short term:** Analysis of vulnerabilities, technologies and risk scenarios/In-situ demonstrations
- **Impact - Mid term:** Tools, Innovative approaches, Security risk management plans/Test-beds for the measurement of the performance of CI systems when equipped with cyber and physical security measures
- **Impact - Long term:** Convergence to safety and security standards and secure/interoperable interfaces; Contribution to regulatory initiatives.



## Prevention, detection, response and mitigation of combined physical and cyber threats to CI in Europe

### Eligibility criteria:

- At least **2 operators** of the chosen type of critical infrastructure operating in **2 Member States or Associated countries** must be beneficiaries (possibly, but not necessarily: coordinator) of the grant agreement and should be directly involved in the carrying out of the tasks foreseen in the grant.
- The participation of **industry** able to provide security solutions is required.
- The duration of the proposed activities must **not exceed 24 months**.



# H2020 SC7 - SU-INFRA02-2019

## Security for smart and safe cities, including for public spaces

### Scope of proposals:

- The security and good operation of a smart and safe city relies on **interconnected, complex and interdependent networks and systems.**
- Infrastructure for detection and "**big data**" collection. The screening of such data can enhance the capabilities and performances of practitioners.

### Proposals should:

- Develop and integrate experimentally, in situ, the components of an **open platform for sharing and managing information** between public & private service operators and security practitioners.
- The proposed pilots should consider how to combine, inter alia:
  - Methods to detect weapons, explosives, toxic substances
  - Systems for video surveillance
  - Methods to identify, and neutralize crime perpetrators whilst minimizing intrusion into crowded areas





## Security for smart and safe cities, including for public spaces

Priorities brought in from ongoing actions for the Protection of PS:

- Underline the involvement of public and private operators (e.g. mass events and entertainment, hospitality, shopping malls, sports and cultural venues, transport hubs and others).
- Contribute to the implementation of the Action Plan (see status of implementation in [SU progress report December 2018](#)):
  - Improved cooperation
  - Addressing priorities
  - Exploiting synergies with other EC funding instruments ([UIA – ERDF](#))



## Security for smart and safe cities, including for public spaces

- Innovation Action
- TRL 7 – system prototype demonstration in operational environment.
- Indicative budget of € 8 million.
- Projects should foresee activities and envisage resources for cooperating with other projects.

### Impact:

- Creation of cybersecurity solutions for smart cities adopting common approaches with all involved stakeholders.
- In situ demonstrations of efficient and cost-effective solutions to the largest audience, beyond the project participants.
- An easier level of integration by developing a holistic cyber-security framework that benefits all smart infrastructures.
- IoT ecosystems built adopting common approaches in their cybersecurity management, achieving economies of scale.
- Novel concepts of operations taking account of multiple, heterogeneous data sources and the social media.
- **Contribute to the implementation of the measures foreseen in the Action Plan to support the protection of public spaces (COM(2017) 172 final).**



## Security for smart and safe cities, including for public spaces

### Eligibility Criteria:

- At least the local governments of **2 cities or metropolitan areas** in 2 Member States or Associated Countries must be beneficiaries (possibly, but not necessarily: coordinator) of the grant agreement and should be directly involved in the carrying out of the tasks foreseen in the grant.
- The participation of **industry** able to provide security solutions is required.
- The duration of the proposed activities must **not exceed 24 months**.



# H2020 SC7 – Kritikus infrastruktúra-védelem (INFRA) - költségvetés

Topics (Type of Action)	Budgets (EUR million)			Deadlines
	2018	2019	2020	
Opening: 15 Mar 2018				
SU-INFRA01-2018-2019-2020 (IA)	24,00			23 Aug 2018
<b>Opening: 19 Mar 2019</b>				
SU-INFRA01-2018-2019-2020 (IA)		22,00		22 Aug 2019
SU-INFRA02-2019 (IA)		16,00		
Opening: TBD			2020	
Focus area topic(s) for 2020			18,00	TBD
<b>Overall indicative budget</b>	24,00	<b>38,00</b>	18,00	



# H2020 SC7 - SU-BES01-2018-2019-2020

## Human factors, and social, societal and organisational aspects of border and external security

### Specific challenge:

The adoption of appropriate organisational measures and the deeper understanding of how novel technologies and social media impact border control.

### Two sub-topics open in 2019:

**Sub-topic 2:** Modelling, predicting and dealing with migration flows to avoid tensions and violence.

- Solutions for better management of migration flows to reduce tensions and violence. Modelling and prediction, incl. gender aspects, public sentiment, perceptions of migration, socio-economic indicators.

**Sub-topic Open:** Other issues relevant to this challenge



## Human factors, and social, societal and organisational aspects of border and external security

### Other considerations:

- In compliance with EU societal values, fundamental rights and applicable legislation.
- Synergies and complementarity are pursued (e.g. [KCMD](#) – Knowledge Centre on Migration and Demography)
- Indicative budget: 5M€
- Research and Innovation Action

### Expected impact:

- **Knowledge and evidence-based support to policy developments.**
- **Methods for better management of complexity.**
- **Advances through cross fertilisation of concepts resulting from the collision of different ways of thinking.**



## Human factors, and social, societal and organisational aspects of border and external security

### Eligibility condition:

- In 2018 predefined sub-topics require the active involvement of at least 3 Border or Coast Guards Authorities from at least 3 different EU or Associated countries. Where applicable Sub-topic: Open requires the active involvement of at least 5 such organisations, from at least 5 different EU or Associated countries.
- In 2019, such conditions cease to apply.
- Border and Coast Guard Authorities are eligible. **Their participation is encouraged.**



## Technologies to enhance border and external security

### Specific challenge:

**Development of novel technologies, provided that they are affordable, accepted by citizens and customized and implemented for the needs of security practitioners.**

### Three sub-topics open in 2019:

- **Sub-topic 3:** Security on-board passenger ships.
- **Sub-topic 4:** Detecting threats in the stream of commerce without disrupting business.
- **Sub-topic Open:** Other issues relevant to this challenge





Three sub-topics open in 2019 (cont.):

➤ **Sub-topic 3: Security on-board passenger ships.**

- Ensure security all along the “life cycle” of a journey.
- New technologies (considering deployment and integration) and novel procedures.

➤ **Sub-topic 4: Detecting threats in the stream of commerce without disrupting business.**

- Risk-based and non-intrusive detection of dangerous and illegal goods ensuring the full supervision of the logistic flow.
- contraband (mainly cigarettes) hidden in high density cargo (coal, iron ore) in particular for rail cargo transport. Illicit trafficking of NR materials.
- exploiting information about cargo flow data.



## Technologies to enhance border and external security

### Other considerations:

- In compliance with EU societal values, fundamental rights and applicable legislation.
- TRL up to 5/6.
- Indicative budget: 7M€
- Research And Innovation Action

### Expected impact:

- **Short term: Benchmarks to assess progress, plan for uptake of results**
- **Mid term: Evidence based knowledge, progress beyond state of the art, technical and operational guidelines**
- **Long term: Implementation of actions (Smart borders, EU Maritime Security Strategy, EU Strategy and Action Plan for customs risk management)**



## Demonstration of applied solutions to enhance border and external security

### Specific challenge:

- Demonstration (and validation) of highly mature technologies (TRL 6-8) in the context of actual operations.

### Two sub-topics open in 2019:

- **Sub-topic 2:** New concepts for decision support and information systems.
  - Improving situation awareness at strategic level and tactical level. Combination of different information sources.
  - Interoperability of surveillance systems. Exploitation of data tailored to specific environments. Availability of data.
- **Sub-topic Open:** Other issues relevant to this challenge



## Demonstration of applied solutions to enhance border and external security

### Other considerations:

- In compliance with EU societal values, fundamental rights and applicable legislation.
- Coordinated by competent border/coast guard authority.
- Demonstrate complementarity and no overlap with actions under [PADR-US-01-2017](#)
- Indicative budget: 5M€
- Innovation Action

### Expected impact:

- **Mid term: Validation in real operational environment, plans for uptake and transnational procurement.**
- **Long term: Improved cost-effectiveness/efficiency, Interoperability standards, improved situation awareness and reaction capability.**

- **Contribute to Common Application of Surveillance Tools**



# H2020 SC7 – Határvédelem (BES) - költségvetés

Topics (Type of Action)	Budget (EUR million)			Deadlines
	2018	2019	2020	
Opening: 15 Mar 2018				
SU-BES01/02/03	41,00			28 Aug 2018
Opening: 19 Mar 2019				
SU-BES01-2018-2019-2020 (RIA)		10,00		22 Aug 2019
SU-BES02-2018-2019-2020 (RIA)		21,00		
SU-BES03-2018-2019-2020 (IA)		10,00		
Opening: TBD 2020				
SU-BES01/02/03			TBD	To be defined
<b>Overall indicative budget</b>	41,00	<b>41,00</b>		



# H2020 SC7 - SU-GM01-2018-2019-2020: Pan-European networks of practitioners and other actors in the field of security

- a. [2019-2020] Practitioners (end-users) in the same discipline and from across Europe are invited to get together: 1) to monitor research and innovation projects with a view to recommending the uptake or the industrialisation of results, 2) to express common requirements as regards innovations that could fill capability and other gaps and improve their future performance, and 3) to indicate priorities as regards areas requiring more standardisation.
  - **Areas of specialisation:**
    - ~~Protection of public figures (CANCELLED)~~
    - Handling of hybrid threats
  - **Type of action:** Coordination and Support Action
  - **Estimated EU contribution:** EUR 3,5M
  - **Recommended duration:** 5 years



# H2020 SC7 - SU-GM01-2018-2019-2020: Pan-European networks of practitioners and other actors in the field of security (Policy Context)

## [JOIN\(2016\) 18 final - Joint Framework on countering hybrid threats](#)

- Joint framework with actionable proposals to help counter hybrid threats.
- Cross-border dimension can be addressed more effectively at EU level
- Facilitate a holistic approach that will enable the EU, in coordination with MS
- Build on existing strategies and sectoral policies (e.g. security, defence, cybersecurity, energy, maritime, CIP, transport, supply chain, space...)

## [EC Press release – 13/06/2018](#)

- Further steps in response to **hybrid** and CBRNE threats.
- Hybrid activities by state and non-state actors **continue to pose a serious and acute threat** to the EU and its Member States.

## [COM\(2018\) 470 final - Security Union Progress Report #15](#)

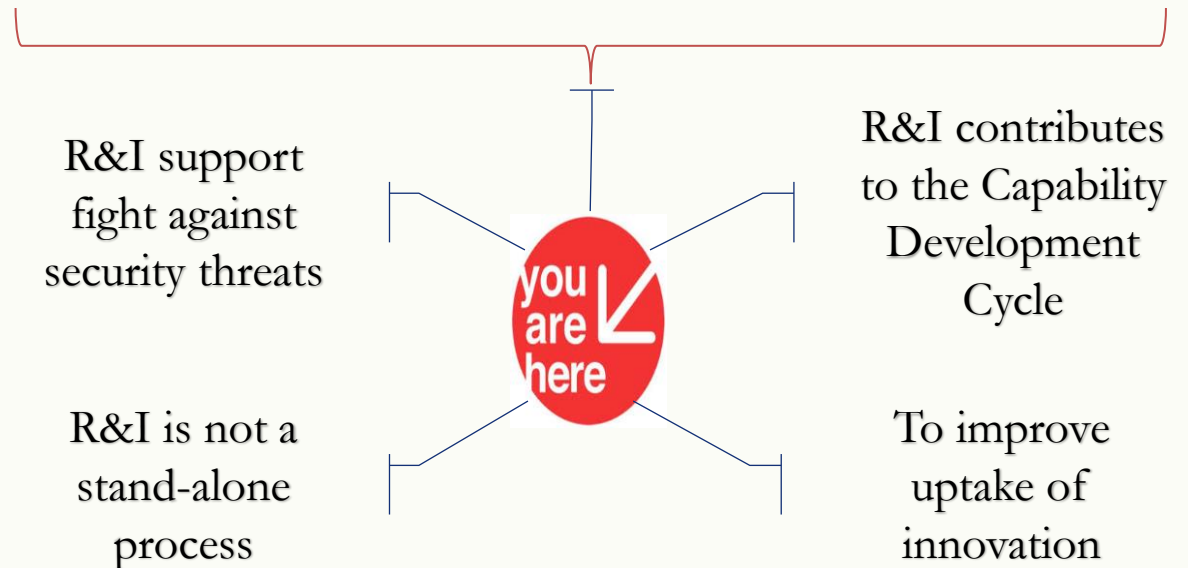
- Joint Communication on Increasing resilience and bolstering capabilities to address hybrid threats;
- Joint Report on the implementation of the Joint Framework on countering hybrid threats from July 2017 to June 2018



# H2020 SC7 - SU-GM01-2018-2019-2020: Pan-European networks of practitioners and other actors in the field of security (Policy Context enc.)

[JOIN\(2018\) 16 final - Increasing resilience and bolstering capabilities to address hybrid threats](#)

- Identify areas where action should be intensified.
  - Situational awareness – improved capacity to detect hybrid threats
  - Reinforced actions against Chemical, Biological, Radiological and Nuclear threats
  - Strategic communication – coherent dissemination of information
  - Building resilience and deterrence in the cybersecurity sector
  - Building resilience to hostile intelligence activity





# H2020 SC7 - SU-GM01-2018-2019-2020: Pan-European networks of practitioners and other actors in the field of security

## Eligibility Criteria:

### For part a):

- Practitioner participation from at least 8 Member States or Associated Countries is mandatory.
- Each proposal must include a plan, and a budget amounting at least **25% of the total cost of the action to interact** with industry and academia and other providers outside the consortium with a view to assessing the feasibility of their findings.
- Each consortium must commit to produce, **every 6 or fewer months, a report about their findings** in the 3 lines of action (see in “Scope”);
- Each proposal must include a work-package to **disseminate their findings**, including an **annual workshop or conference**;



# H2020 SC7 – Pán-európai hálózatosodási törekvések (GM), költségvetés

Topics (Type of Action)	Budgets (EUR million)			Deadlines
	2018	2019	2020	
Opening: 15 Mar 2018				
SU-GM01-2018-2019-2020 (CSA)	5,0			28-Aug-18
SU-GM02-2018-2020 (CSA)	6,0			
SU-GM03-2018-2019-2020 (PCP)	9,7			
Opening: 19 Mar 2019				
SU-GM01-2018-2019-2020 (CSA)		3,5		22-Aug-19
<del>SU-GM03-2018-2019-2020 (PCP)</del>		-		
Opening: TBD 2020				
Focus area topic(s) for 2020			TBD	To be defined
<b>Overall indicative budget</b>	<b>20,7</b>	<b>3,5</b>		



# H2020 SC7 – Katasztrófaelhárítási felhívások (DRS)

## 2018-2020 DRS Call

Advancing innovation in the society at large, and among first responders, to reduce the loss of human life and to reduce environmental, economic and material damage from natural and man-made disasters, including from climate-related weather events, earthquakes and volcanic events, space weather events, industrial disasters, crime and terrorism threats.

- SU **DRS01-2018-2019-2020**: Human factors, and social and societal, and organisational aspects for disaster-resilient societies
- SU-**DRS02-2018-2019-2020**: Technologies for first responders
- SU-**DRS03-2018-2019-2020**: Pre-normative research and demonstration for disaster resilient societies
- SU-**DRS04-2019-2020**: Chemical, biological, radiological and nuclear (CBRN) cluster
- SU-**DRS05-2019**: Demonstration of novel concepts for the management of pandemic crises



# H2020 SC7 – SU-DRS01-2019 - Human factors, and social, societal, and organisational aspects for disaster-resilient societies

- Research and innovation in support of improved preparedness and risk awareness related to natural or man-made disasters from a societal viewpoint in view of creating a resilient society in Europe
- Research to assess social media and other crowd-sources data in emergency situations for different disaster scenarios (positive and negative impacts)
- Research encompassing the whole risk management cycle (from prevention and preparedness, communication, to response and recovery) with focus on risk awareness and response

Addressing diversity in risk perception, vulnerabilities, understanding, better transfer of research outputs to meet citizen expectations regarding risk acceptance and awareness.... Multidisciplinary teams with CSOs, first responders, (national, regional, local, city) authorities and involving citizens representative of European diversity for different types of disasters : development of a culture of improved preparedness, adaptability and resilience to risks, including the use of social-media and crowd-sourced data, and the involvement of citizens in the investigations and possible validation of tools and methods.

## Research and Innovation Action

**International cooperation:  
Encouraged but not mandatory**

**Proposals requiring an EU contribution of +/- EUR 5 million**



# H2020 SC7 – SU-DRS-2019-02 – Technologies for first responders

Novel solutions improving the protection of first responders against multiple and unexpected dangers, or enhancing their capacities by addressing related research and innovation, in particular in 2018:

- Sub-topic 2 : Innovation for rapid and accurate pathogens detection: novel technologies required by first responders for rapidly detecting pathogens, as well as tools for joint epidemiological and criminal risk and threat assessment and investigation.
- Open Sub-topic: other technologies for use by first responders (involving a large number of organisations) on e.g. communicating and smart wearables, light-weight energy sources, situational awareness using UVA and robots etc. (see text of call), the list is not exclusive. Requirement for testing and validation of technologies / methodologies not only in labs but also in training installations and in-situ deployment. Interdisciplinary teams to be involved. Participation of first responders in a systematic manner and new methods on how to involve them and organise their interactions with researchers.

**TRL 4 to 6 – Research and Innovation Action**

**International cooperation:  
Encouraged but not mandatory**

**Proposals requiring an EU contribution of +/- EUR 7  
million  
(total budget: EUR 28 million)**



# H2020 SC7 – SU-DRS03-2019 - Pre-normative research and demonstration for disaster-resilient societies

Insufficient harmonisation and standardisation hampers interoperability of equipment and procedures implemented by first responders, also leading to market fragmentation. Pre-normative research may address this issue effectively. In 2019, focus will be on:

- Sub-topic 2 – Pre-standardisation in crisis management (including natural hazard and CBRN-E emergencies): development of standards for civil protection in the areas of crisis management (including for systems, tools and services related to natural hazards and CBRN-E emergencies) to increase interoperability of equipment and procedures. IAs to bring validated and positively assessed practices into standards within or outside current standardisation processes. Participation of SOs required. Complementarity with EDA-supported activities in the CBRN-E area.

Expected impact: standards for interoperable equipment and procedures in support to operations involving international crews.

**TRL 6 to 7 – Innovation Action**

**Check M/487 priorities  
(and policy needs) + ResiSTAND recommendations**

**Proposals requiring an EU contribution of +/- EUR 6 million**



# H2020 SC7 – SU-DRS04-2019 - Chemical, biological, radiological and nuclear (CBRN) cluster

**Technologies and innovations in the field of CBRN** developed by companies which often face difficulties in bringing them to markets.

List of technologies added to ENCIRCLE (European Cbrn Innovation for the maRket CLustEr) platform:  
2019 call opened to RIAs led by SMEs **building up an agreement with ENCIRCLE** for support to the exploitation of research outputs and integration in the platform.

Where applicable, complementarity to be demonstrated with activities supported by EDA

Catalogue of identified needs made available on the day of  
publication of the call

**Proposals requiring an EU contribution of +/- EUR 3.5 million**



# H2020 SC7 – SU-DRS05-2019 - Demonstration of novel concepts for the management of pandemic crises

- Large-scale pandemics need to be addressed internationally, with a large number of practitioners and stakeholders, from planners of national health systems to first responders.
- Exploratory phase (2014) addressing the feasibility of strengthening capacity-building for health and security protection issued a number of **recommendations related to research gaps and proposed innovative concepts to better integrates existing tools and systems**
- Demonstrations required to assess these novel concepts in support of cross-border emergency approaches, to strengthen preparedness and response to pandemics

Expected impacts: Novel concepts for health and security protection in case of large-scale pandemics validated by international organisations and a large number of EU Member States (with a commitment to share the concepts), prototype IT system integrating innovative tools and supporting existing emergency frameworks, and operational strategy for implementation of the concepts.

[http://ec.europa.eu/research/participants/portal/doc/call/h2020/su-drs05-2019/1850119-su-drs05-2019\\_research\\_gaps\\_en.pdf](http://ec.europa.eu/research/participants/portal/doc/call/h2020/su-drs05-2019/1850119-su-drs05-2019_research_gaps_en.pdf)

**Proposals requiring an EU contribution of +/- EUR 10 million (RIA)**





# H2020 SC7 - SU-FCT01-2018-2019-2020 - Human factors, and social, societal, and organisational aspects to solve issues in fighting crime and terrorism

- A specific sub-topic each year; in 2019:
  - Sub-topic 2: Understanding the drivers of cybercriminality, and new methods to prevent, investigate and mitigate cybercriminal behaviour
  
- ,Open' sub-topic
  
- EU contribution of about 5 M€ per proposal



# H2020 SC7 - SU-FCT02-2018-2019-2020 - Technologies to enhance the fight against crime and terrorism

- A specific sub-topic each year; in 2019:
  - Sub-topic 1: Trace qualification
  - Sub-topic 2: Digital forensics in the context of criminal investigations (focus on CSE)
- ‘Open’ sub-topic
- TRL 4-6
- EU contribution of about 7 M€ per proposal



# H2020 SC7 - Eligibility criteria for SU-FCT01 and SU-FCT02

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- Predefined subtopics: at least 3 LEAs from at least 3 different EU or Associated countries
- Sub-topic: Open requires at least 5 LEAs from at least 5 different EU or Associated countries



# H2020 SC7 - SU-FCT03-2018-2019-2020 - Information and data stream management to fight against (cyber)crime and terrorism

- Open in 2018, 2019 and 2020
- Big Data analysis, AI, OSINT gathering, predictive analytics in fight against (cyber)crime and terrorism:
  - a) to characterise trends in cybercrime and cybercriminal organisations, and
  - b) to enhance citizens security against terrorist attacks in places considered as soft targets
- TRL 5-7
- EU contribution of about 8 M€ per proposal



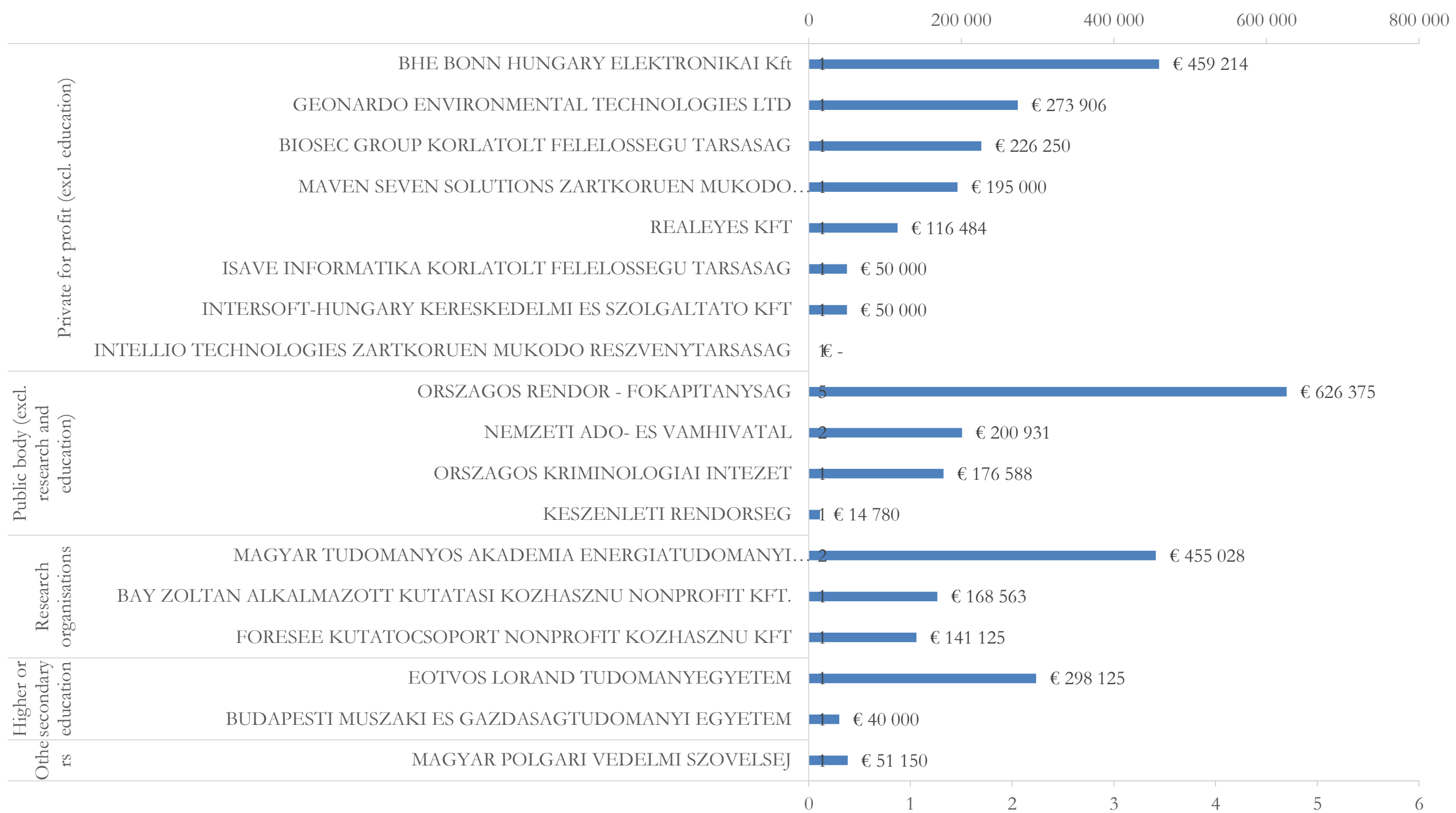
- Involvement of at least 3 LEAs from at least 3 different EU or Associated countries
- The duration of the proposed activities must not exceed 24 months

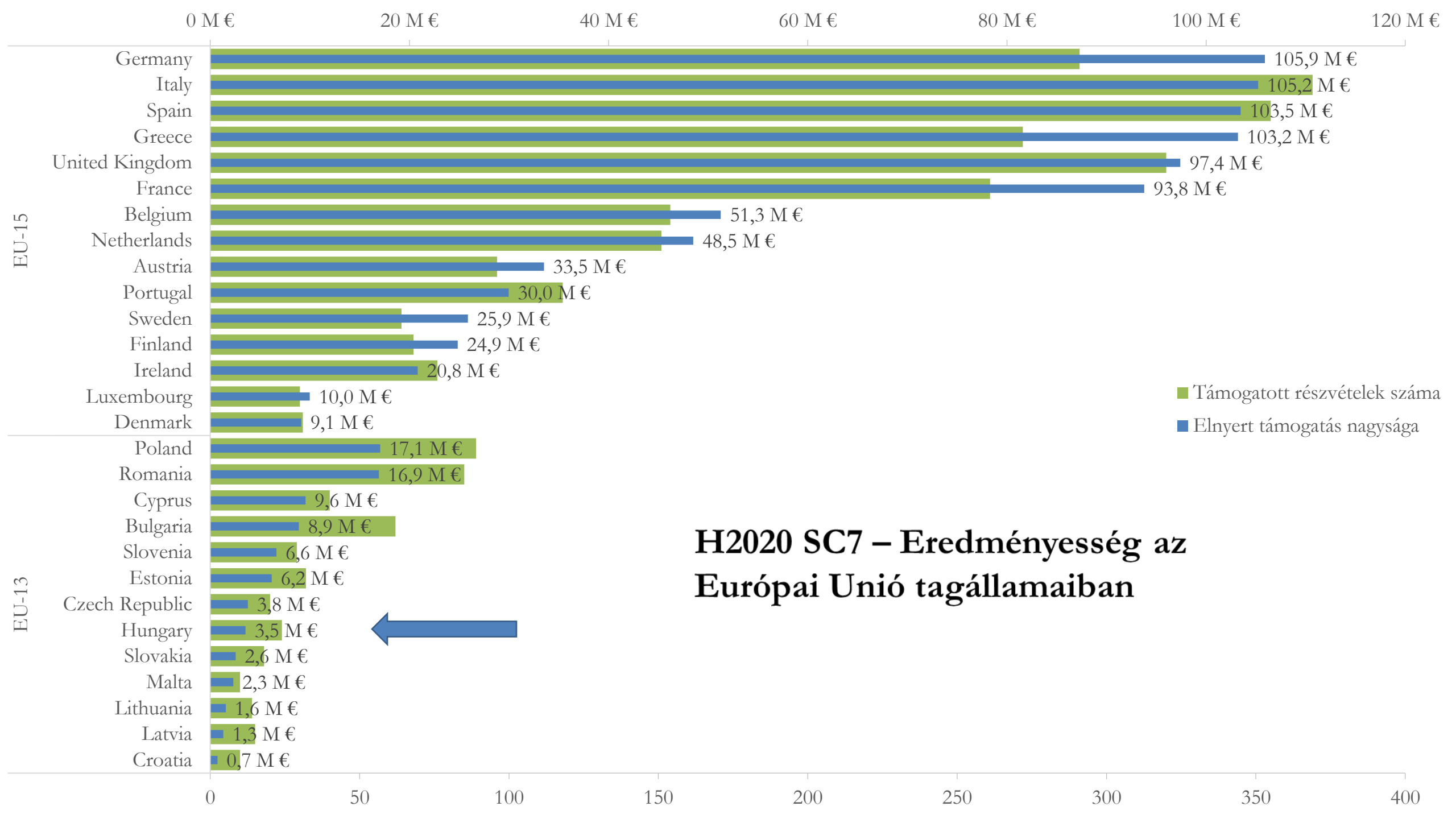


# H2020 SC7

Topics (Type of Action)	Budgets (EUR million)			Deadlines
	2018	2019	2020	
<b>Opening: 19 Mar 2019</b>				
SU-FCT01-2018-2019-2020 (RIA)	10	10		22-Aug-19
SU-FCT02-2018-2019-2020 (RIA)	21	28,16		
SU-FCT03-2018-2019-2020 (IA)	8	8		









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H2020 SC7 - The participation of practitioners (or other categories of participants) is a **mandatory criterion** in SEC and INFRA

## Meaning of practitioners:

"A practitioner is someone who is qualified or registered to practice a particular occupation, profession in the field of security or civil protection."

Applicants **have to identify which members of the consortium are "practitioners" in the specific context**

Proposal template with specific table in template under Part B 4.3 (SEC and INFRA)



# H2020 SC7 – Jogosultsági példa

An example:

**This topic requires the active involvement of at least 3 first responders' organisations or agencies from at least 3 different EU or Associated countries (SU-DRS01-2019-2019-2020)**

- these entities **have to be participants** and  
-should be **directly involved** in carrying out the **tasks** foreseen in the grant.

**-2018: 15 proposals declared ineligible as not fulfilling the additional admissibility and eligibility conditions !!**



# H2020 SC7 – Cross-cutting issues

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- **Social Sciences and Humanities (SSH)** are integrated across all Horizon 2020 activities to successfully address European challenges
- **Gender dimension in the content of R&I** - a question on the relevance of sex/gender analysis is included in proposal templates
- The new strategic approach to **international cooperation** consists of a general opening of the WP and targeted activities across all relevant Horizon 2020 parts



# Tentative Timeline



# H2020 SC7 - Topikleírások

## 1. Specific Challenge

- Background information: context, policies, state of the art, existing gaps, etc.

## 2. Scope (to be addressed in B.1 "Excellence" and B.3 "Implementation")

- Requirements for successful proposals: content, formal,..
- Additional information such as flags (SSH, international cooperation), TRL, indicative budget, etc...

## 3. Expected Impact (to be addressed in the B.2 "Impact" criterion)

- Short/medium term
- Long term



## H2020 SC7 – Innovációs Akció (IA)

Action primarily consisting of activities that produce plans and arrangements or designs for new, altered or improved products, processes or services

- May include **prototyping, testing, demonstrating, piloting, large-scale product validation and market replication**
- Aim to **validate the technical and economic viability in a (near) operational environment** and/or support the first application / deployment in the market of an innovation that has already been demonstrated but not yet applied/deployed in the market due to market failures/barriers to uptake
- Projects may include **limited** research and development activities
- TRL  $\approx$  **6-8** (if not indicated otherwise in the WP)



Action primarily consisting of activities to establish new knowledge and/or explore feasibility of new or improved technology, product, process, service or solution

- May include basic and applied research, technology development and integration, testing and validation on small-scale prototype in laboratory or simulated environment
- Projects may contain closely connected but **limited demonstration or pilot activities** to show technical feasibility in a near to operational environment
- TRL  $\approx$  4-6 (if not indicated otherwise in the WP)



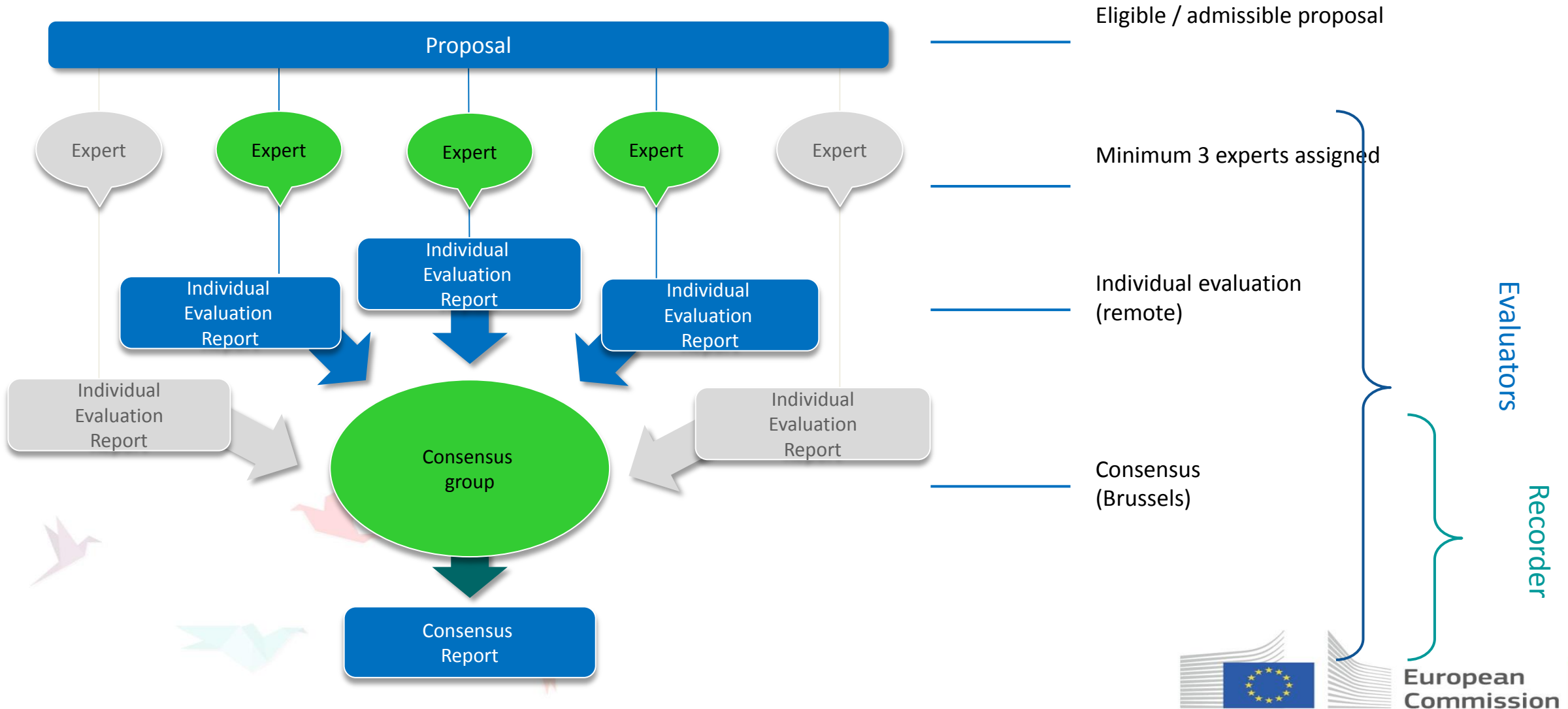
Actions consisting primarily of accompanying measures such as

- standardisation, dissemination, awareness-raising and communication, **networking, coordination or support services**, policy dialogues and mutual learning exercises and studies, including design studies for new infrastructure
- may also include complementary activities of strategic planning, networking and coordination between programmes in different countries





# Evaluation - Process



# H2020 SC7 – Értékelői pontszámítás

- Each criterion scored out of **5** (cf. next slide)
  - Individual threshold of **3**
  - Overall threshold of **10**
- Ranking: sum of the scores on each criterion
- For **IA**, Impact (CR2) weighted by 1.5 to determine ranking:
  - Normalised score =  $(CR1+1.5*CR2+CR3)/17.5*15$
- The procedure for setting a priority order for proposals with the same score is given in part H of the General Annexes.



# H2020 SC7 – Értékelői rangsor pontegyenlőség esetén

Proposals that sub-topics, not otherwise covered by more highly-ranked proposals, will be considered to have the **highest priority**.

The panel then orders them according to:

- First, their score for **EXCELLENCE** (**IMPACT** [IA only])
- And second, their score for **IMPACT** (**EXCELLENCE** [IA only])

• If there are ties, further prioritisation on:

- First, the size of the budget allocated to SMEs
- Second, the gender balance of personnel carrying out the research and/or innovation activities

• If there are still ties, the panel agrees further factors to consider:

- e.g. synergies between projects or contribution to the objectives of the call or of Horizon 2020

• The same method is then applied to proposals that address topics that are already covered by more highly-ranked proposals



# H2020 SC7 – Értékelői rangsor, kivétel

Evaluation Procedure: The procedure for setting a priority order for proposals with the same score is given in General Annex H of the work programme. The following exceptions apply:

SU-BES01-2018-2019-2020, SU-BES02-2018-2019-2020, SU-BES03-2018-2019-2020, SU-DRS02-2018-2019-2020, SU-FCT01-2018-2019-2020, SU-FCT02-2018-2019-2020, SU-GM01-2018-2019-2020

Grants will be awarded to proposals according to the ranking list. However, in order to ensure a balanced portfolio of supported actions, **at least the highest-ranked proposal per sub-topic will be funded provided that it attains all thresholds.**



# H2020 SC7 – Etikai kívánalmak

**Only proposals that comply w/ the ethical principles and legislation may receive funding**

For main and reserve list proposals **an ethics screening** and, if required, an ethics assessment is carried out **by independent ethics experts** after the scientific evaluation

For those proposals in which one or more ethical issues have been identified, the **experts will assess whether the ethics issues are adequately addressed**

The ethics experts will produce an **ethics report** and give an opinion on the proposal, such as:

granting ethics **clearance** (or not)

**recommending the inclusion of ‘ethics requirements’** in the grant agreement, or

**recommending a further Ethics Assessment and/or an Ethics Check or Audit**



# H2020 SC7 – a Security Scrutiny eljárás

- The Security Scrutiny Group will be requested (via their national security authority representatives – not done by EC staff) to verify that all security aspects are properly addressed
- the scrutiny procedure is done, in a 2 months period, following the technical evaluation and before the start of the GAP

The results of the scrutiny could be:

- go ahead with GAP – no security concerns;
- recommendations for the GAP without classification;
- recommendations for the GAP with classification;
- Recommendation not to finance the proposal

Applicants receive the conclusions of the scrutiny procedure with the “Information letter” via the Participant Portal



# H2020 SC7 – Hasznos jótanácsok dióhéjban

- Check carefully [incl. additional!] admissibility and eligibility conditions
- Read carefully the topic description ("scope", "expected impact") – will your proposal match the expectations?
- Use the right proposal templates and follow the instructions
- Address thoroughly the selection and award criteria
- Respect the page limits
- Clearly describe what you will achieve and how you will do it
- Choose your consortium based on your project needs (e.g. no duplications or partners without clear responsibilities,...)

**Describe carefully the impact** (expected, societal, economic [IA: business analysis, market potential,..])

- **Submit (a first version) well before the final deadline**



# H2020 SC7 – Hasznos linkek

- **Funding & Tender Opportunities**

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

- **H2020 Reference Documents**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents>

- **Research Enquiry Service**

[https://ec.europa.eu/info/research-and-innovation/contact/research-enquiry-service-and-participant-validation\\_en](https://ec.europa.eu/info/research-and-innovation/contact/research-enquiry-service-and-participant-validation_en)

- **Support Overview (including FAQ and Helpdesks)**

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

- **National Contact Points**

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





# Nemzeti kapcsolattartók (NCP) feladata:

Ingyenes tájékoztatás a Horizont 2020 programról – tematikus területenként és a jogi-pénzügyi kérdésekhez kapcsolódóan

1

Információs napok, tréningek és konzultációk szervezése

2

E-mailes tájékoztatás a pályázati lehetőségekről, pályázói kérdések megválaszolása

3

Személyre szabott pályázati tanácsadás és konzultáció a potenciális pályázókkal

4

A hazai pályázók konzorciumi partnerkeresésének támogatása

5

Magyar nyelvű H2020 oldal naprakész működtetése  
<http://www.h2020.gov.hu/>- H2020-hoz kapcsolódó hírek, statisztikák, rendezvényekről szóló információk

6

<http://nkfi.gov.hu/hivatalrol/horizont-2020-180603/nemzeti-kapcsolattarto>

# Hazai H2020 rásegítő konstrukció

KONZORCIUMÉPÍTŐ PÁLYÁZAT (EU\_KP)

NKFI Alap

FORRÁS

egyetemek,  
kutatóintézetek,  
KKV-k és  
nagyvállalatok

PÁLYÁZÓK

EU\_KP

CÉL

1. nemzetközi partnerkereső rendezvényen való részvétel,
2. külföldi projekt előkészítő ülésen való részvétel
3. hazai projekt előkészítő ülés szervezése
4. pályázat és/vagy konzorciumi szerződés előkészítése
5. pályázatírás támogatása koordinátor esetén

FUTAM  
-IDŐ

12 hónap

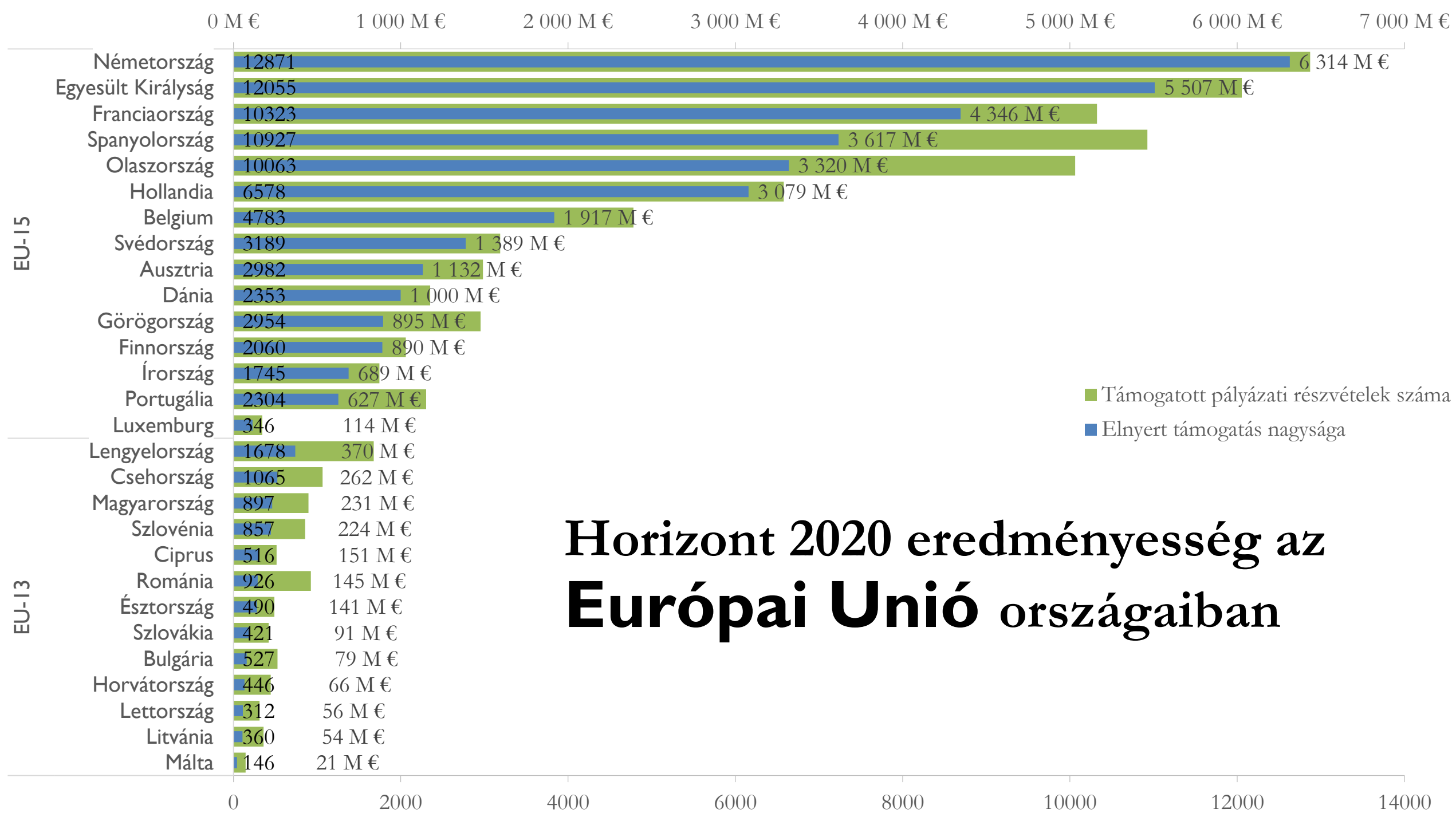
Támogatási keret: 80 millió Ft  
(100%-os támogatási  
intenzitás)

Konzorciumi partnereknek  
(max. 1,5 millió Ft)

Koordinátoroknak (max. 3  
millió Ft)

TÁMOGATÁS





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**KÖSZÖNÖM A FIGYELMET!**

