

HORIZON 2020

LE PROGRAMME DE RECHERCHE ET
D'INNOVATION DE L'UNION EUROPÉENNE



GTN Sécurité

Paris – 28/01/19

Agenda



- Statistiques appels 2018
- WP 2020
- Point négociation HE
- Point négociation Centre cyber (sous réserve)
- Calendrier des infoday/brokerage events (nationaux et européens)

STATISTIQUES APPELS 2018



Appels 2018: éléments statistiques



□ Propositions

- 213 propositions éligibles dont 125 à participation FR (59%!)
 - dont 17 en coordination FR (9 RIA, 6 IA et 2 CSA)
- >3800 participations (252 FR) par ~1900 participants (123 FR)
- 1,3 Md€ demandés dont 112 M€ par FR (8,7%)

	Received	Ineligible Inadmissible
INFRA	24	2
DS	40	2
SEC	166	13
Total	230	17

□ Projets

- 38 projets retenus dont 26 à participation FR (68%!)
 - dont 4 en coordination FR (2 RIA, 1 IA et 1 CSA)
- >700 participations (52 FR) par >500 bénéficiaires (32 FR)
- 225 M€ distribués dont 22,3 M€ pour FR (9,9%)
- Taux de succès moyen de 17% (FR: 20%)

Topic Coverage



Received proposals per topic:

Topic #	1	2	3	4	5
INFRA	24				
DS	18			12	10
SEC-BES	12	21	7		
SEC-DRS	17	47	4		
SEC-FCT	15	26	7		
SEC-GM	7	3	0		

Evaluated Proposals per topic:

Topic #	1	2	3	4	5
INFRA	22				
DS	18			11	9
SEC-BES	7	20	7		
SEC-DRS	14	45	4		
SEC-FCT	14	25	7		
SEC-GM	7	3	0		

Sub-Topic Coverage SEC



European Commission

Received

Topic #	OP	1	2	B	C
BES01	3	9			
BES02	6	9	6		
BES03	1	6			
DRS02	28	19			
FCT01	9	6			
FCT02	16		10		
GM01				6	1

Evaluated

Topic #	OP	1	2	B	C
BES01	1	6			
BES02	5	9	6		
BES03	1	6			
DRS02	28	17			
FCT01	9	5			
FCT02	15		10		
GM01				6	1

CI Coverage



Received

Topic #	WATER	ENER	TRANS	COM	COM-SPACE	HEALTH	E-COMM	IND	FIN
INFRA	1	2	11	1	1	3	1	3	1

Evaluated

Topic #	WATER	ENER	TRANS	COM	COM-SPACE	HEALTH	E-COMM	IND	FIN
INFRA	0	2	11	1	1	2	1	3	1

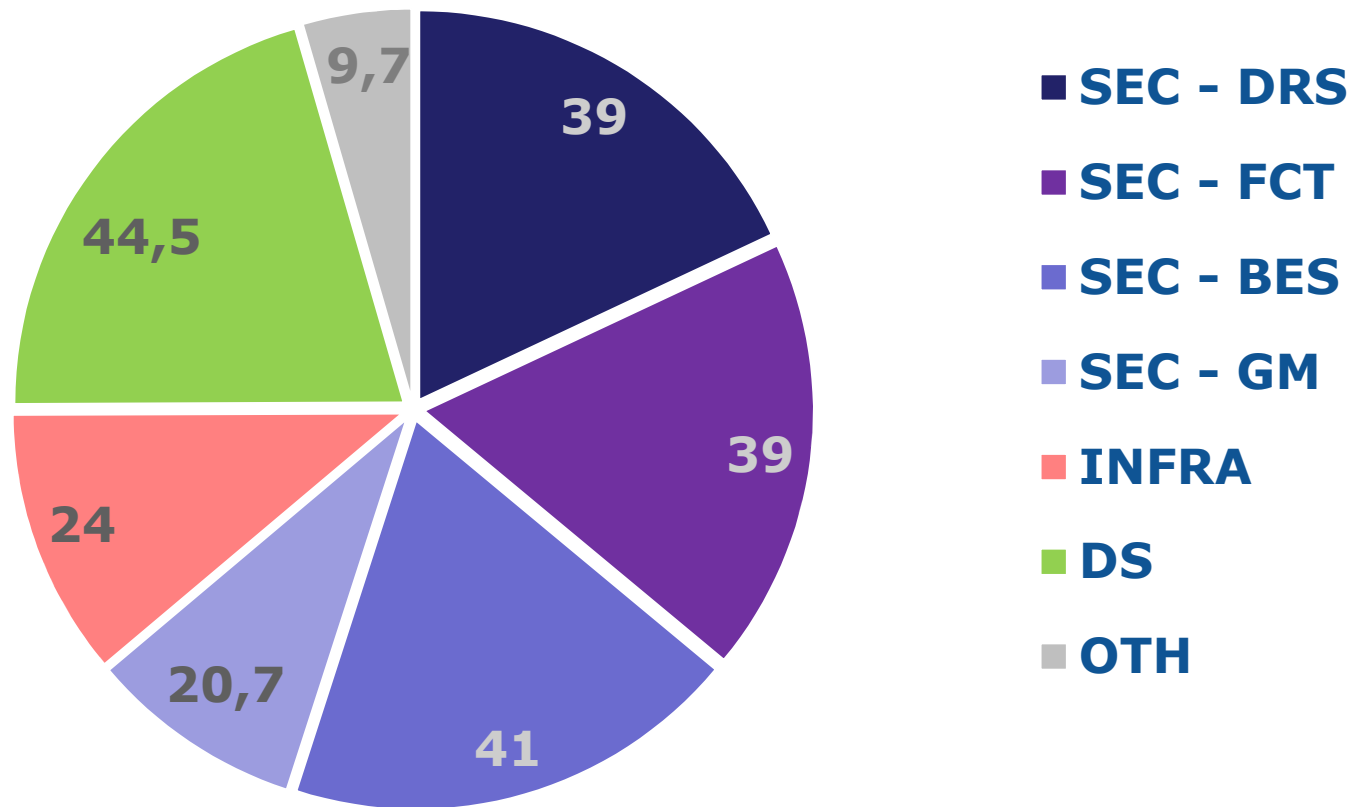
Budget



as per WP

Budget: M€ 216,44

INFRA: 24.00 , DS: 44.50* , SEC: 139.7 , OTH: 9.74



*including 5 M€ from Secure, Clean and Efficient Energy WP

Evaluators:



Nationality

156 Evaluators*

95 (61 %) Male

61 (39 %) Female

138 (89%) from Member States

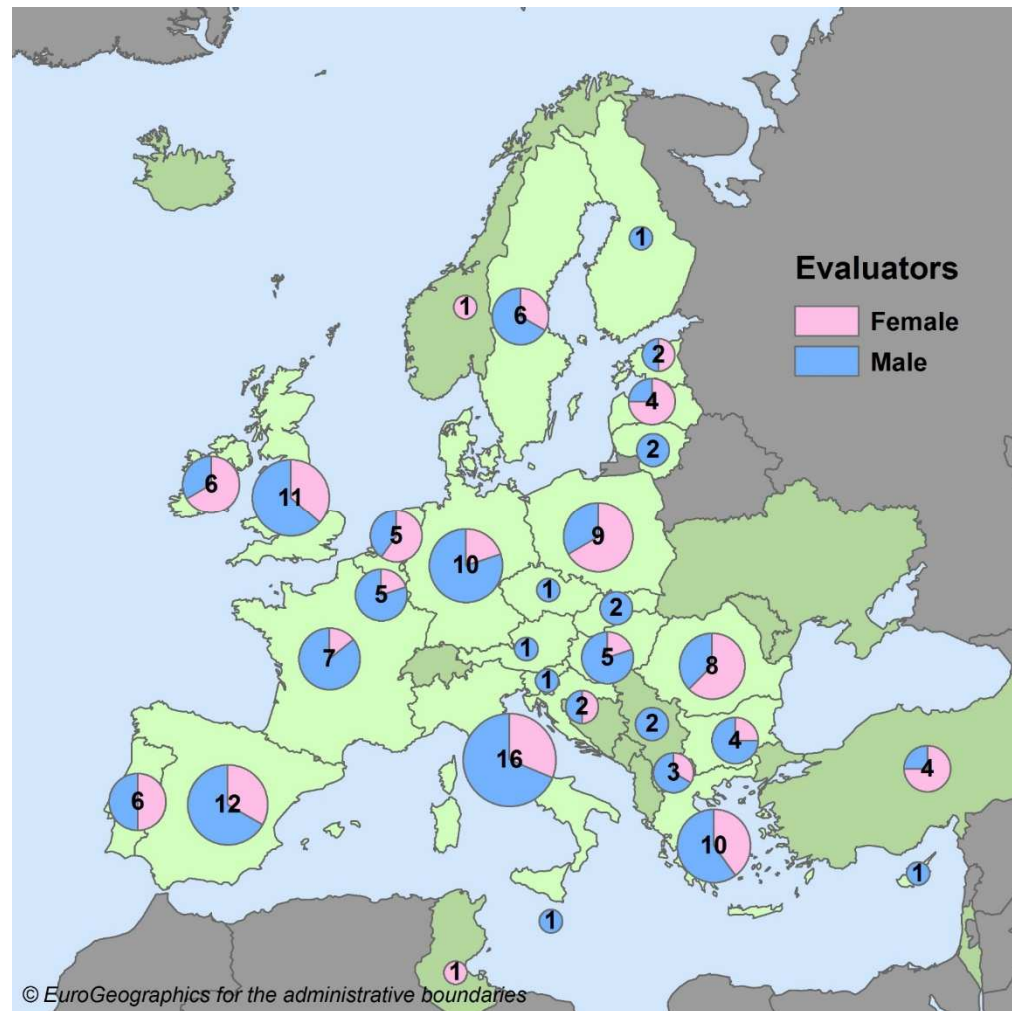
11 (7%) from Associated Countries

7 (4%) from 3rd countries
(2 JP, 1 CA, IN, IR, KE, US)

All MS represented except DK and LU

*Not including:

- 21 Independent Rapporteurs
- 11 Ethics Experts
- 1 Observer



© EuroGeographics for the administrative boundaries

Evaluators:



Residence

156 Evaluators*

138 (89%) residing in Member States

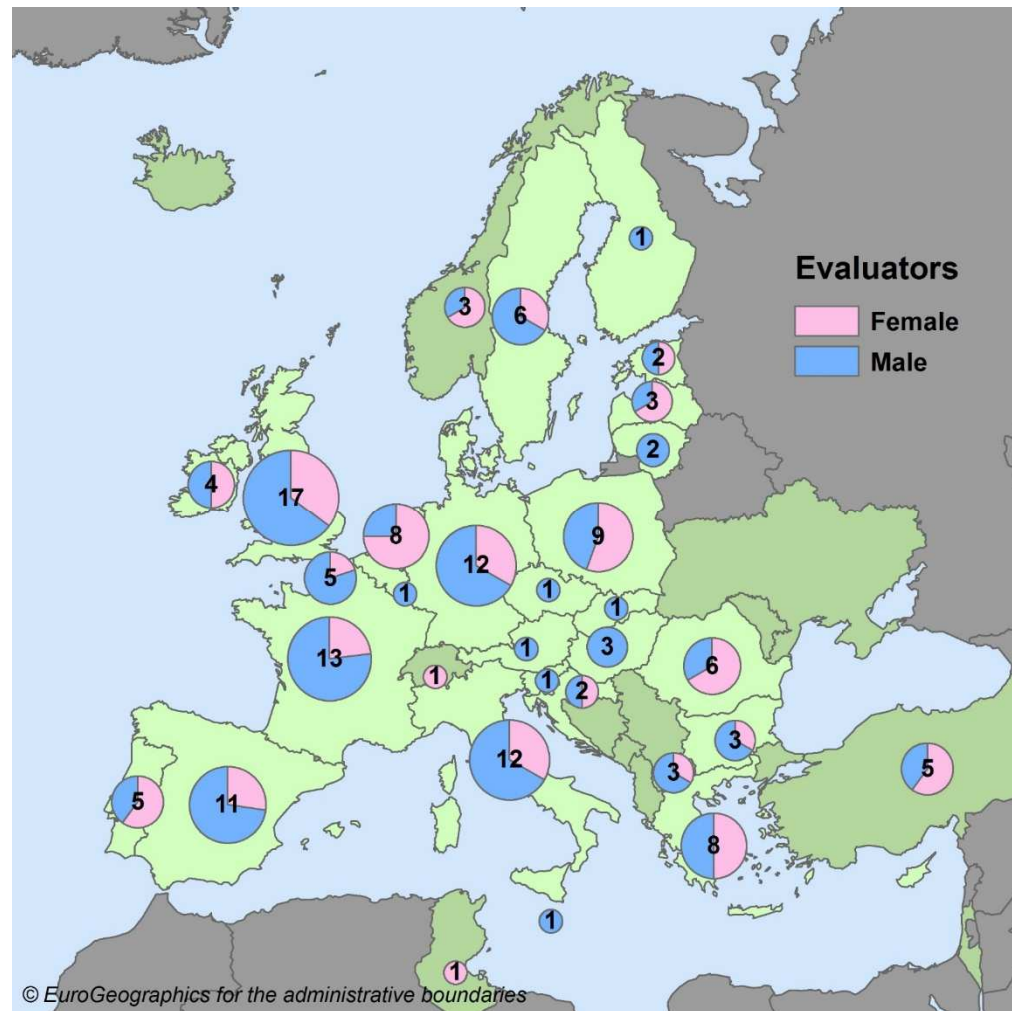
14 (9%) residing in Associated Countries

4 (2%) in 3rd countries (2 JP, 2 US)

All MS represented except CY and DK

*Not including:

- 21 Independent Rapporteurs
- 11 Ethics Experts
- 1 Observer

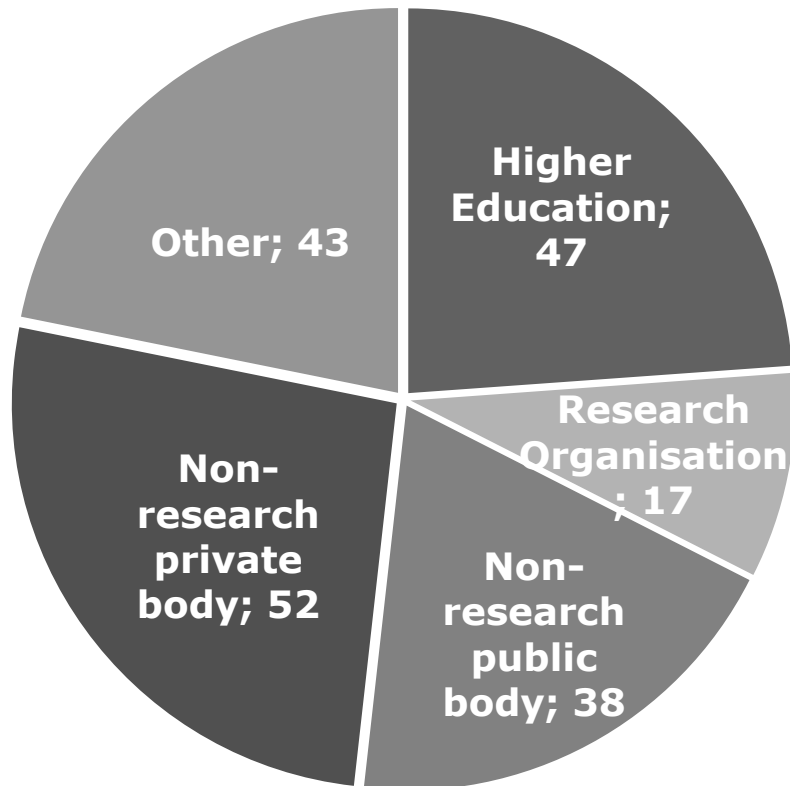


Evaluators:

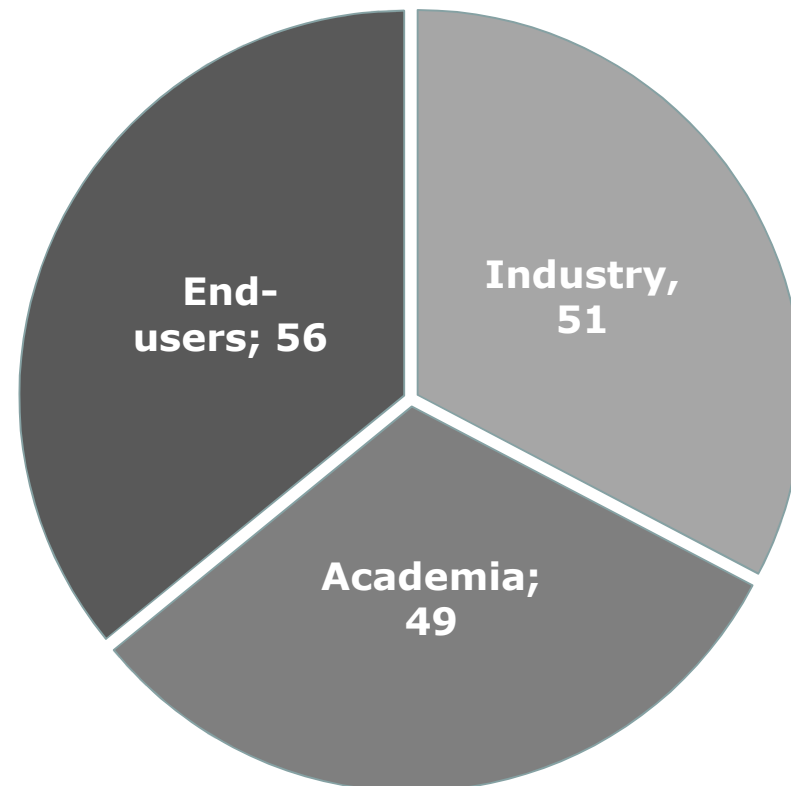


Affiliation

Sector#



Profile+



self-declared in EU-data base, multiple labels possible

+ analysis by REA based on expert's CV

Applications:



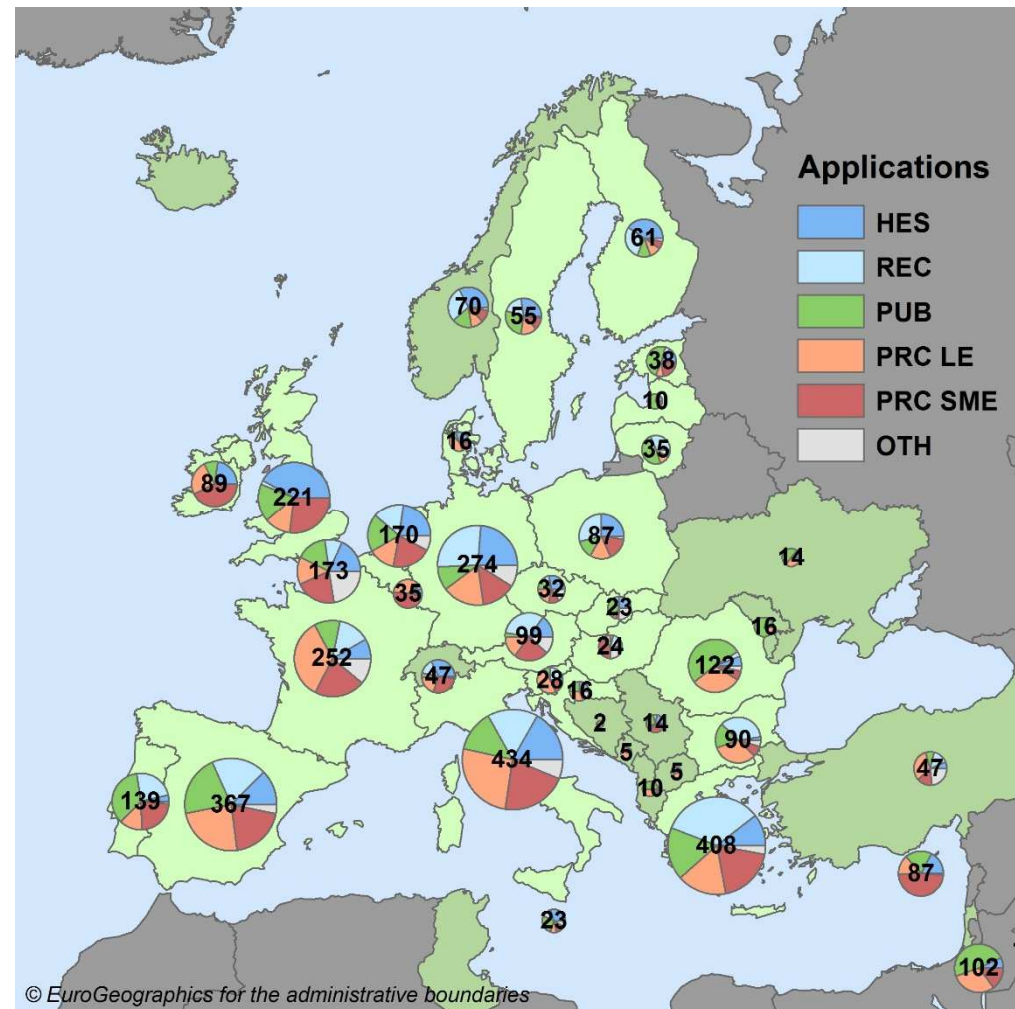
All Calls

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: 227 (6%)



Requested Funding



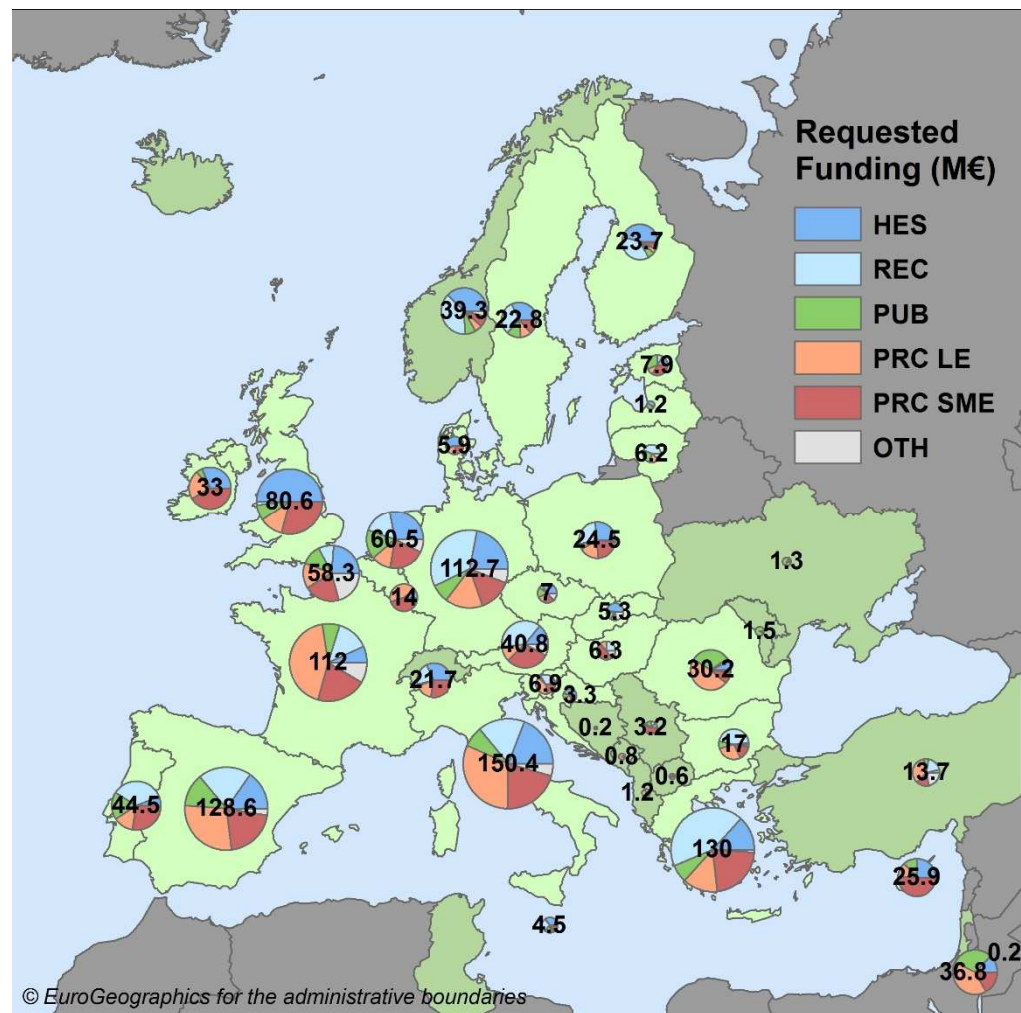
All Calls

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%)



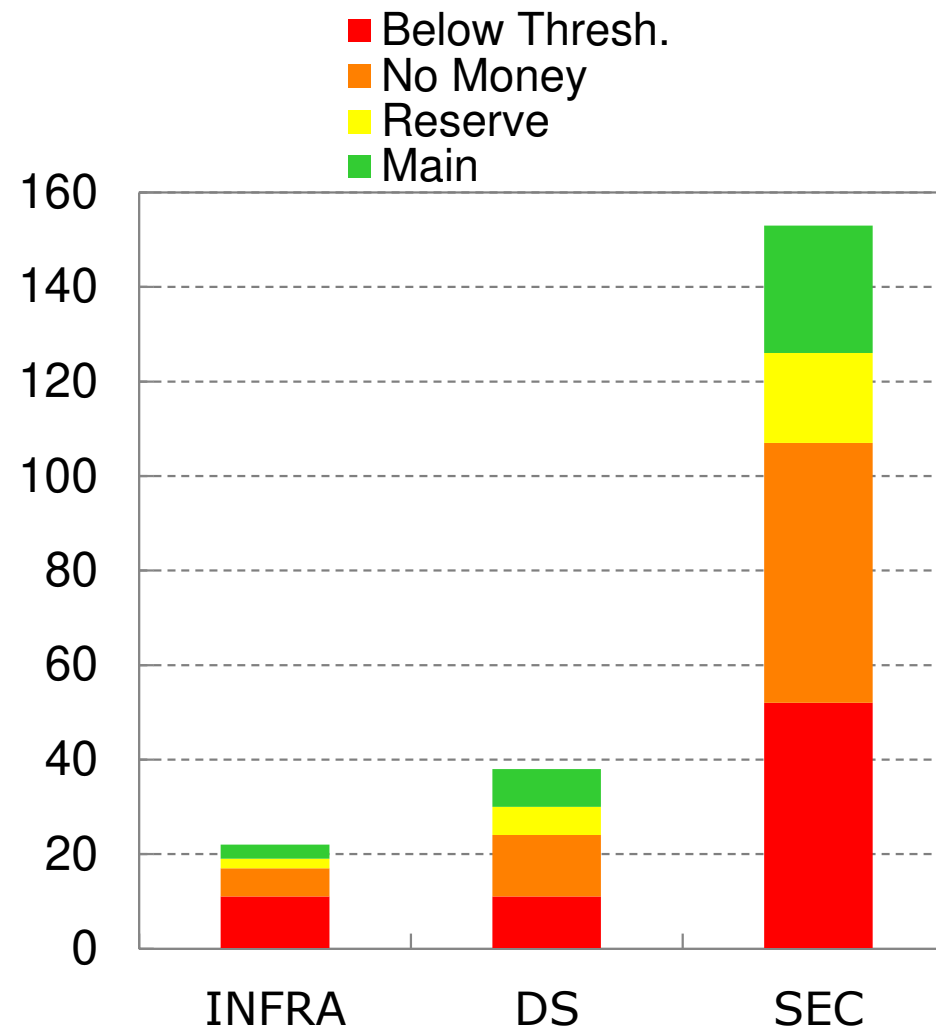
Evaluation Outcome



Global Success Rate 17.8%
[2017: 14.0%]

- INFRA: 14%
- DS: 21%
- SEC: 18%

	Below Thresh.	No Money	Reserve List	Main List
INFRA	11	6	2	3
DS	11	13	6	8
SEC	52	55	19	27
Total	74	74	27	38



Mainlist – topic coverage / success rate



Number of mainlist proposals:

Topic #	1	2	3	4	5
INFRA	3				
DS	3			3	2
SEC-BES	2	3	2		
SEC-DRS	2	5	1		
SEC-FCT	2	5	1		
SEC-GM	2	2	0		

INFRA01:
 BES02, BES03, DRS02, FCT02, GM01:
 BES01:
 FCT01:

Success rate (%):

Topic #	1	2	3	4	5
INFRA	14				
DS	17			27	22
SEC-BES	29	15	29		
SEC-DRS	14	11	25		
SEC-FCT	14	20	14		
SEC-GM	29	67	N/A		

TRANS, ENER, IND covered
 all open sub-topics covered
 only sub-topic 1 covered
 only sub-topic "open" covered

Applications:



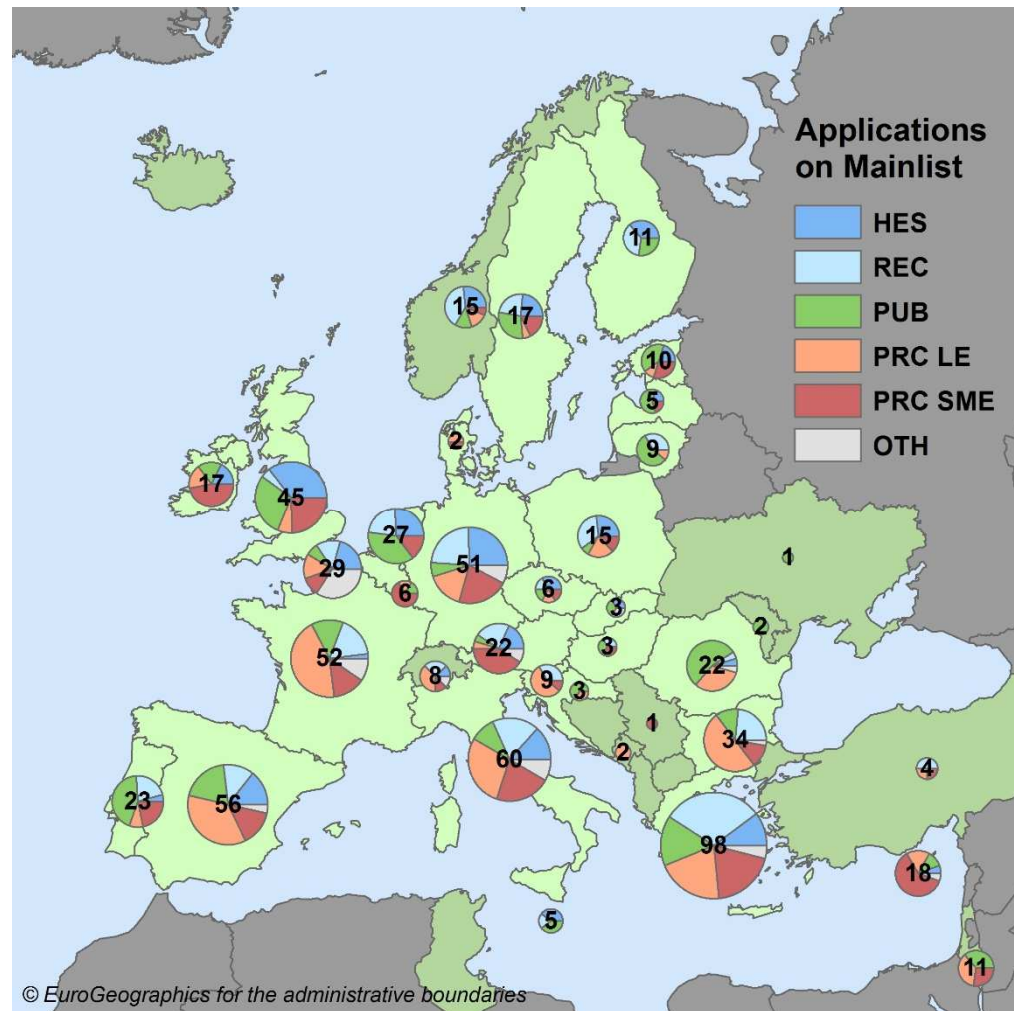
Mainlist All Calls

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%)



Req. Funding:



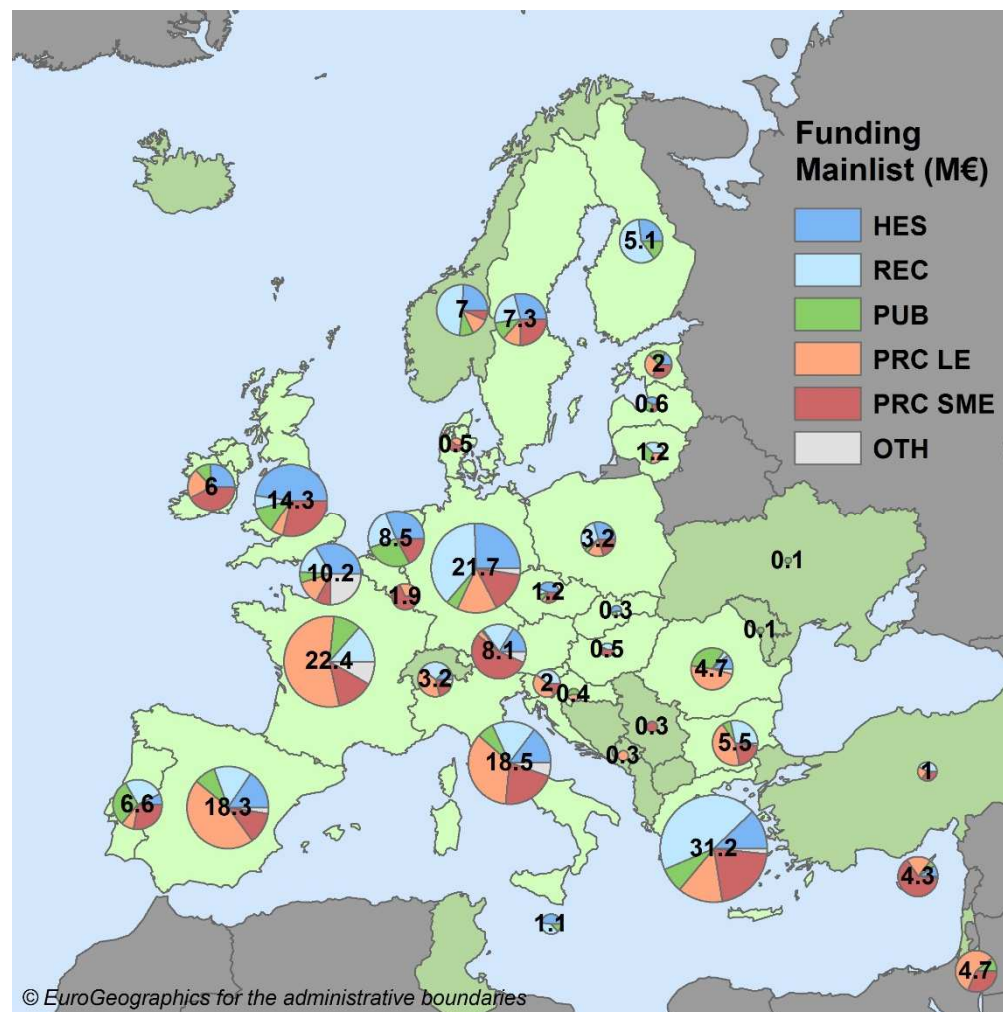
Mainlist All Calls

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%)





Topics 2018 in WP 2018-2020 (1/3)

- **SU-DS01-2018: Cybersecurity preparedness –cyber range, simulation and economics (IA)**

Scope: Proposals are called to deliver extended capabilities of cyber ranges (e.g. piloting of networked cyber-ranges; extension of the cyber-ranges network, adding domain specificities like cyber range for IoT and/or for Industrial Control Systems such as SCADA).

Budget: 16 MEUR;

18 proposals evaluated: 14 above the threshold, 4 below;

Topics 2018 in WP 2018-2020 (2/3)

- **SU-DS-4-2018-2020: Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks and data breaches (IA);**

Scope: Proposals should demonstrate how the actual EPES can be made resilient to growing and more sophisticated cyber and privacy attacks and data breaches taking into account the developments of the grid towards a decentralised architecture and involving all stakeholders.

Budget: 20 MEUR (CNECT: 15 MEUR; ENER: 5 MEUR);

11 proposals evaluated: 8 above the threshold, 3 below;



Topics 2018 in WP 2018-2020 (3/3)

- **SU-DS05-2018-2019: Digital security, privacy, data protection and accountability in critical sectors – sub-topic 2018 c) Digital security, privacy and personal data protection in finance (IA)**

Scope: Proposals should treat: (i) generic aspects for at least two of the critical sectors of NIS Directive (identify common threats and attacks, develop proof of concepts for managing cybersecurity and privacy risks); and (ii) specific aspects for the critical sector/domain finance (identify specific vulnerabilities, propagation effects and counter measures, develop and test cyber innovation-based solutions and validate them in pilots/demonstrators).

Budget: 8.5 MEUR;

9 proposals evaluated: 5 above the threshold, 4 below;

Experts ranking lists

Topic/panel	Published budget	Cumulated EU grant of proposals highest in the ranking lists
SU-DS01	16 MEUR	11,743,613.50 EUR
		<i>Leftover: 4,256,386.50 EUR (26.60%)</i>
SU-DS04	20 MEUR	15,987,466.75 EUR
		<i>Leftover: 4,012,533.25 EUR (20.06%)</i>
SU-DS05	8.5 MEUR	7,208,400.38 EUR
		<i>Leftover: 1,291,599.62 EUR (15.20%)</i>
Total DS call	44.5 MEUR	34,939,480.63 EUR
		<i>Leftover: -9,560,519.37 EUR (21.48%)</i>



Analysis - based on panel opinion

SU-DS01: The first 3 proposals in the ranking list, very good, address fully the topic and propose a diversity of applications (telecommunications, aviation, power grid, naval, maritime), complementing each other.

SU-DS04: The first 3 proposal in the ranking list ensure an appropriate policy coverage (wide range of topics, synergies, high impact) and efficient use of the budget allocated.

SU-DS05: The top-ranked proposals address the topic very well; experts observed overlap in scope and approach between the 1st, 3rd and 4th proposals in the ranking list, providing all cyber-risk management platforms, whereas the 2nd is quite distinct proposing a new framework making use of block chain technologies for enhanced cyber-security.

SU-DS01: Final main list

Rank	Proposal Number	Proposal Acronym	Score	Requested Grant
1	833685	SPIDER	14	5,746,595.00 €
2	833673	FORESIGHT	13.5	5,997,018.50 €
3	833389	Cyber-MAR	13	6,018,367.50 €

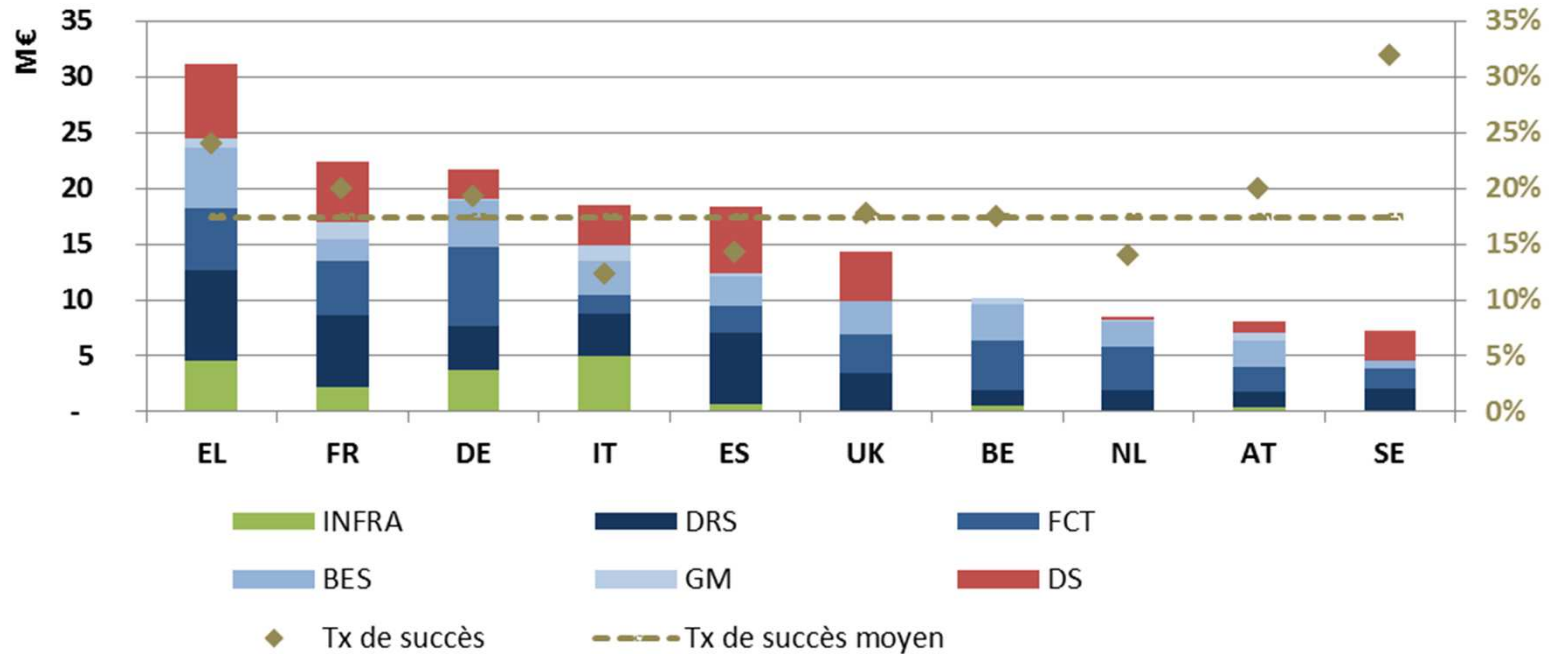
SU-DS04: Final main list

Rank	Proposal Number	Proposal Acronym	Score	Requested Grant
1	832989	PHOENIX	14,5	7,995,004.25 €
2	833955	SDN-microSENSE	13	7,992,462.50 €
2	832907	EnergyShield	12.5	7,421,437.50 €

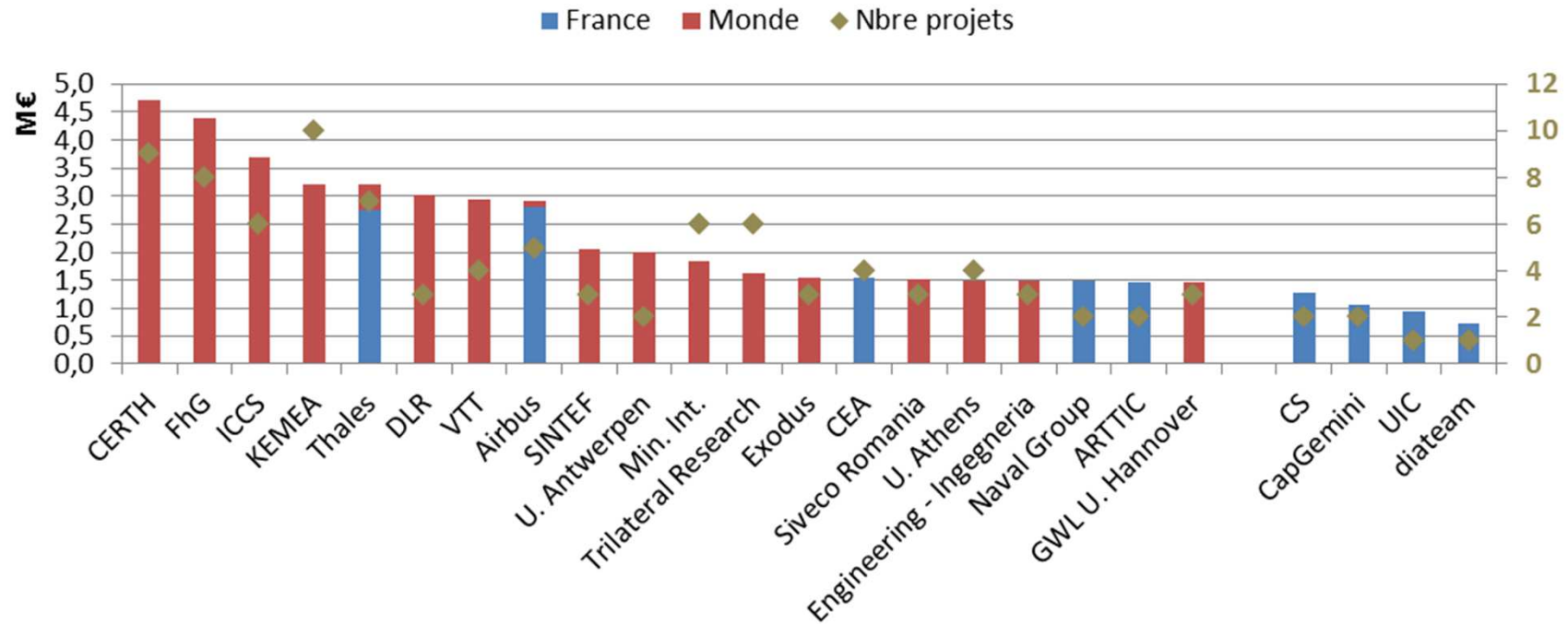
SU-DS05: Final main list

Rank	Proposal Number	Proposal Acronym	Score	Requested Grant
1	833293	SOTER	13	3,026,246.13 €
2	833326	CRITICAL-CHAINS	12	4,182,154.25 €

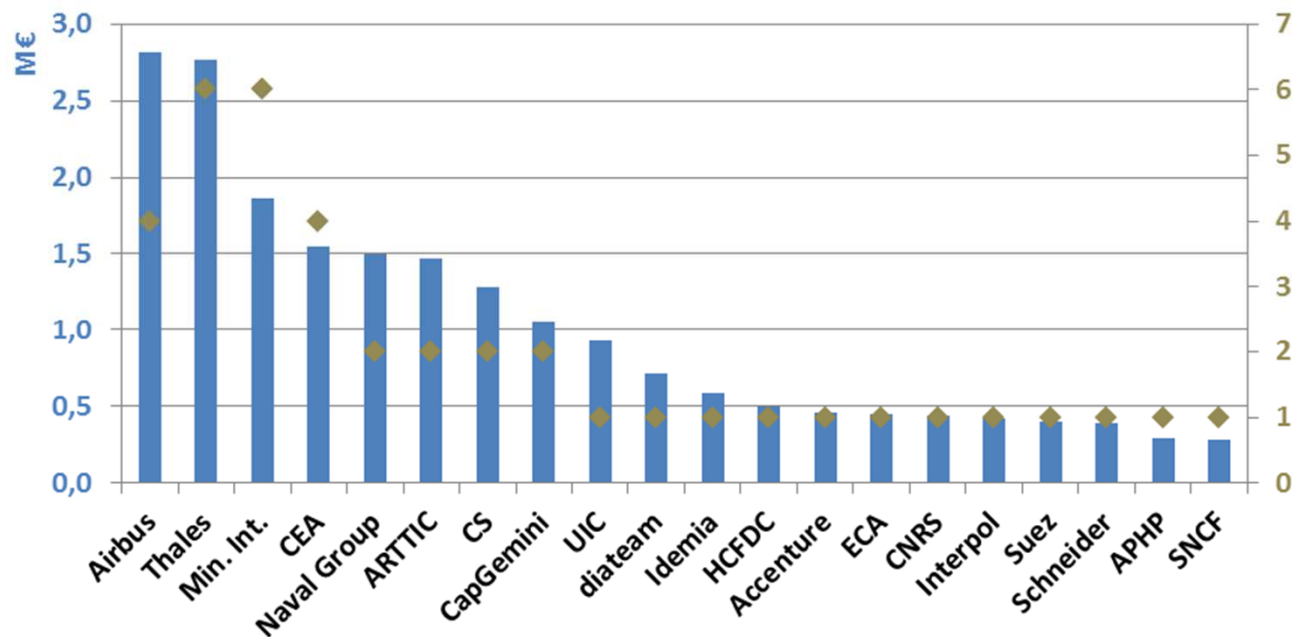
Analyse pays



Grands bénéficiaires (monde + FR)



Grands bénéficiaires FR

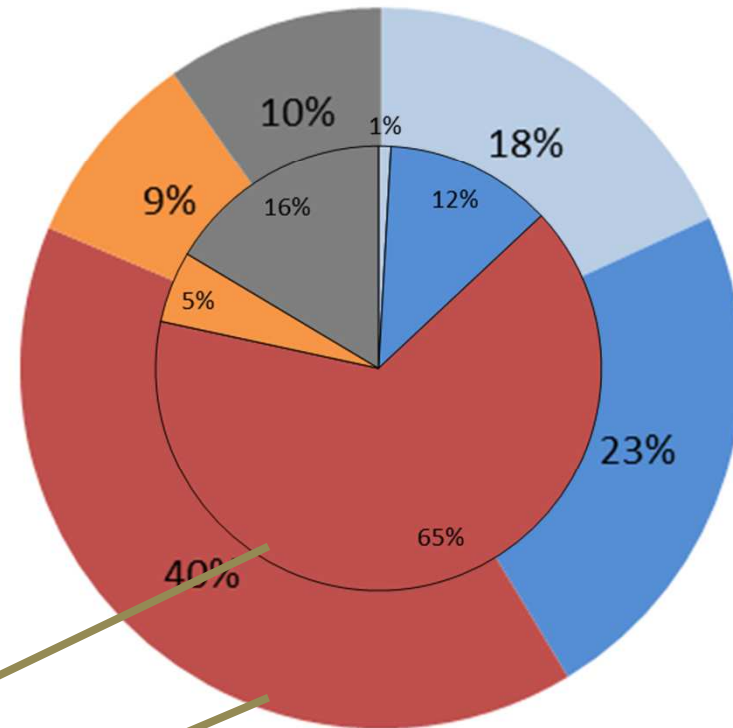
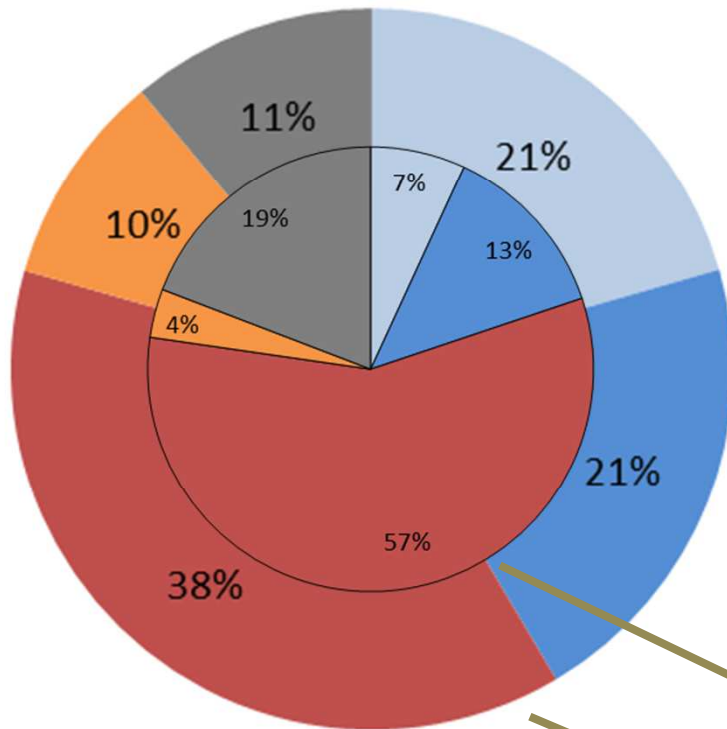


Typologie

Propositions

■ HES
 ■ REC
 ■ PRC
 ■ Public Body
 ■ Other

Projets



France

Monde

WP 2020



WP



Inputs reçus de:

- CEA
- Pôle Safe
- Airbus DS

Envoi commentaires FR le 22/01



Document
Microsoft Word



Recent developments in the EU regarding activities related to AI – policy (1/2)

In April 2018:

- the EU MS signed a **Declaration of Co-operation on AI**:
 - ensuring Europe's competitiveness in the *research and deployment* of AI, including setting up of national centres for AI,
 - support for MS *industry and SMEs* and awareness of the need to better share data;
 - focusing on applications aimed at *modernising public administrations*, as well as specific sectors such as health.
- the EC published a **European Strategy**, building on Europe's scientific and industrial strengths and supporting an ethical, secure and cutting-edge AI made in Europe :
 - people at the centre of the development of AI (*human-centric AI*);
 - use of AI to help *solve the world's biggest challenges*;
 - three pillars: increasing public and private investments in AI, preparing for socio-economic changes, and ensuring an appropriate ethical and legal framework.





Recent developments in the EU regarding activities related to AI – policy (2/2)

On 7 December 2018, a new **Communication on Working together for AI** drawn up jointly with MS containing a **Coordinated Action Plan** adopted to:

- maximise the *impact* of investment at the EU and national levels,
- encourage *cooperation* across the EU and *exchange* best practices,
- support the EU's *global competitiveness* in this sector,
- under the next programming period beyond 2020, invest at least 1 billion € per year from *Horizon Europe and Digital Europe* into AI. (With Digital Europe, for the first time a dedicated programme to reinforce the EU's digital capacities in key technologies to be further complemented by other funding instruments.)





Recent developments in the EU for activities related to AI - research

Joint call between DG HOME and DG CNECT on AI in support of LE, the possible inclusion of a relevant action still under Horizon 2020 Work Programme for 2020.

Three aspects:

- Cybersecurity of AI based technologies; preventing and protecting them from external attacks
- Exploitation of AI for security purposes, including prevention, detection and investigation of criminal offenses and terrorism – opportunities and benefits of AI tools in supports of LE
- Prevention of malicious and criminal use of AI

Two parts:

- an AI research roadmap, providing input to
- a platform of easy-to-integrate and interoperable AI tools for LEAs, and associated process

Proposals should

- build up on existing research and cover multiple security domains in support of LE, such as fighting (cyber)crime and terrorism, protection of public spaces and critical infrastructure
- have a strong ethical, legal and societal dimension



2020 Work Programme update

- 14 June PC Workshop
- 27 September PC Workshop
- November Informal consultation of Commission Services
- December Draft to be sent for PC comments
- **16 January 2019** **PC Workshop**
- January/February First consolidated draft to be sent to PC
- March/April 2019 Inter-service consultation
- May Official PC consultation (vote)
- End June Adoption of WP 2020 update

NÉGOCIATION HORIZON EUROPE



POINT CYBER



CFS SÉCURITÉ



JOURNÉES D'INFORMATION



Prochains événements H2020-Sécurité



- 29-30 janvier : SMI2G à Bruxelles
- 6 février : H2020 cyber sécurité à Laval
- 14 février (*à confirmer*): Infoday par pôles région sud à Marseille
- 20 février : Infoday Sécurité et SHS à Paris
- 13-14 mars : Infoday et brokerage event de la CE à Bruxelles
- 18 Mars : Infoday Infrastructures Critiques à Paris
- 9 avril : Workshop pour practitioner et Infoday à Riga