

Horizon 2020 – Funding programme of the EU

Possibilities for Agoria

4 March 2015

Agenda

1. Horizon 2020 ?
2. Legal & Financial issues
3. What is expected from a project proposal ?
4. The topics of call H2020-DS-2015-1
5. How to proceed next ?

1. Horizon 2020 ?

What is Horizon 2020 ?

- New Framework Programme for Research and Innovation for 2014-2020 (+ 75 billion €)
- Financial instrument to implement the Innovation Union
- Coupling research to innovation
- Challenge based

Structure of Horizon 2020

- 3 programme sections:
 - Excellent Science
 - Industrial Leadership
 - Societal Challenges
- 1 horizontal programme section (4 thematic areas)

Horizon 2020

Excellent Science	Competitive Industries	Societal Challenges
European Research Council*	Leadership in enabling and industrial technologies:	Health, demographic change and wellbeing*
Future and emerging technologies	<ul style="list-style-type: none">• dedicated support for ICT *• nanotechnologies• advanced materials• biotechnology• advanced manufacturing and processing• space*	Food security, sustainable agriculture, marine and maritime research and the bio-economy*
Marie Skłodowska Curie actions*	Access to risk finance	Secure, clean and efficient energy
European Research infrastructures (incl. e-infrastructures)*	Innovation in SMEs	Smart, green and integrated transport
		Climate action, resource efficiency and raw materials*
		Inclusive, innovative and secure societies*
		Secure Societies*

European Institute of Innovation and Technology (EIT)
Joint Research Centre (JRC)*
Spreading Excellence and Widening Participation
Science with and for Society*

Something for you as well ?

- One answer: ABSOLUTELY !!
- Thematic area ‘Secure Societies’: important to have industrial partners in the consortium
- Not every partner is obliged to do research or innovation
 - => Testing, demonstrating,... the deliverables of the project

Why participating ?

- International aspect of the programme
- Biggest budget for research and innovation in Europe
- Prestige to be involved in a successful project proposal

...but keep in mind

- Although time-to-contract is short for European projects, it's still ± 1 year starting from the publication of the call.
- Your project proposal has to fit perfectly in the topic description.
- The competition is very high.

2. Legal & Financial issues

Funding rate

- **Funding rate for RIA and CSA: 100 %**
- **Indirect costs: 25 % of the direct, eligible costs**
(except subcontracting + third parties in-kind contribution not used on the beneficiaries premises)

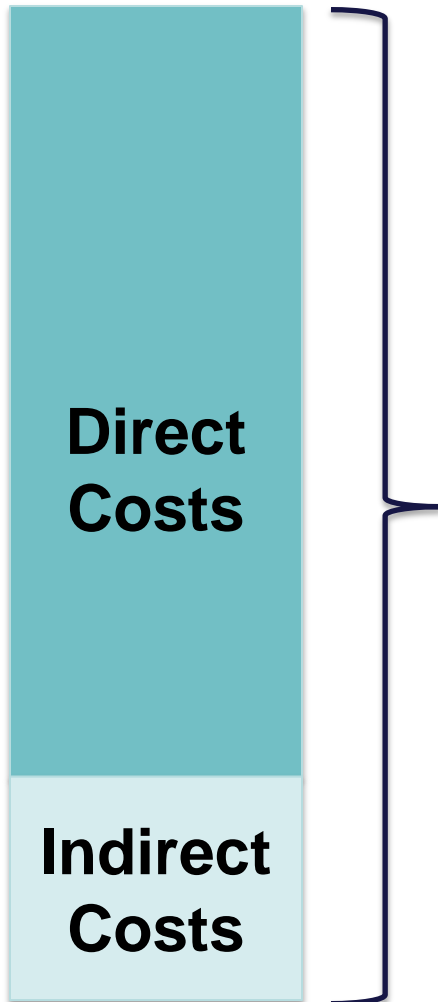
Direct
Costs

Indirect
Costs

Direct Costs	Indirect Costs	Total	Funding rate	Funding
100 €	25 €	125 €	100 %	125 €

Funding rate

- Funding rate for IA: 70 %**
Indirect Costs: 25 % of the direct eligible costs
(except subcontracting + third parties in-kind contribution not used on the beneficiaries premises)



Direct costs	Indirect costs	Total	Funding rate	Funding
100 €	25 €	125 €	70 %	87,5 €

Types of costs

- All the costs on behalf of the project can be claimed: personnel costs, subcontracting, other direct costs (e.g. travel expenses, equipment /infrastructure depreciation, services...) and indirect costs
- Only during the run-time of the project



Time-to-grant: „5+3“

- Information on the evaluation results max. 5 months from Call-Deadline
- Thereafter max. 3 months to conclusion of contract



- Longer period of time-to-grant possible:
Security related issues / justified exceptional cases (complex projects) / request of consortium
- Each proposal will be evaluated „as it is“, not as „what it could be“ => No negotiation phase

3. What is expected from a project proposal ?

Rules for participation

- Minimum conditions for participation:
At least three legal entities each established in a different Member State or an Associated Country
- Top-down approach: proposal should fit into topic description

DRS-2-2014 Crisis management topic 2: Tools for detection, traceability, triage and individual monitoring of victims after a mass CBRN contamination and/or exposure

Specific challenge: A fast detection of exposure or contamination with CBRN substances (including toxins) using traceable tools and rapid identification of critically exposed individuals is essential to gain time in the triage of victims in case of accidents or terrorist attack. Research on traceability and monitoring of a large number of people in case of a massive CBRN incident is therefore needed to differentiate between contaminated and/or exposed persons and those individuals not contaminated persons on-site or in hospital zones.

Scope: The objective of this topic is to integrate existing tools and procedures along with the development of novel solutions in order to rapidly determine, in case of accidents or terrorist attack, if victims have been exposed/contaminated or not (by a CBRN agent) as well as the level of contamination / exposure (including making use of point of care diagnostic tests), develop and establish a decontamination / treatment / medical follow up based on the level of contamination / exposure, ensure the tools and procedures fit in overarching search & rescue systems, establish guidelines for hospitalisation and admission to intensive care units (or other specific units) based on the contamination evaluation. A special attention should be given to gender, ethical, religious and privacy aspects, for instance for pregnant women, disabled individuals, etc. The ethical implications and social acceptance of the proposed solution needs to be studied, contributing to an improved cooperation between science and society. Dual-use aspects will be considered with possible synergies being established with the European Defence Agency. Existing networks of end users from all affected fields (e.g. defence/security experts, firemen, rescuers) need to be actively involved in both technologies and procedures.

The Commission considers that proposals requesting a contribution from the EU of between €5m and €12m would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

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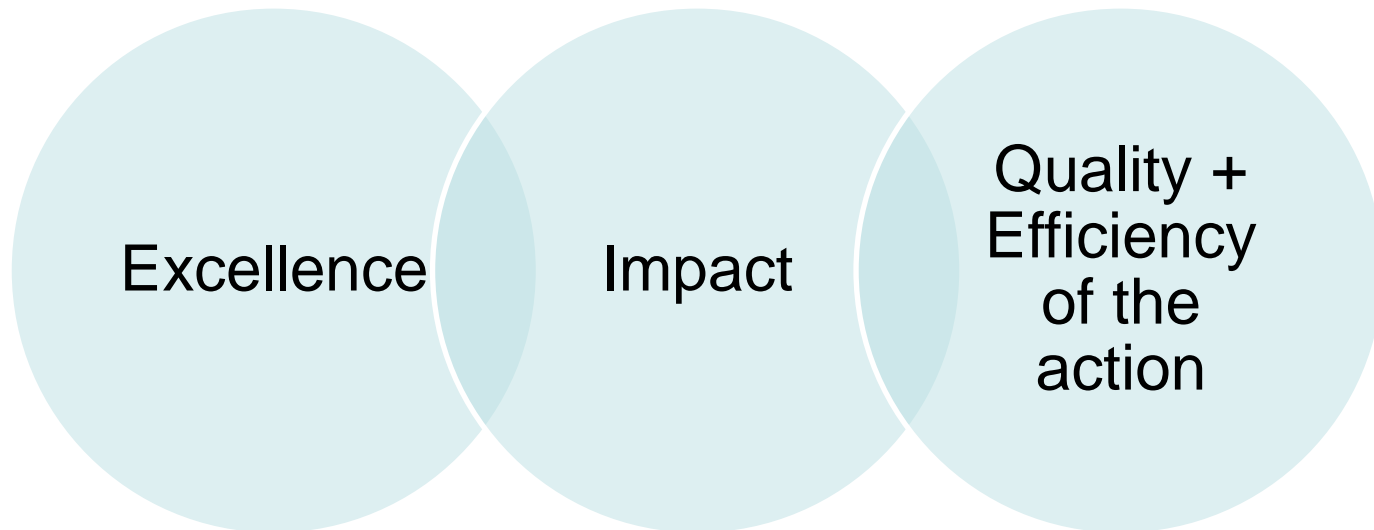
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Expected impact:

- more effective and faster emergency responses to extreme weather and climate events;
Faster analysis of risks and anticipation;
- publicly available online now- and fore-casting systems for disasters triggered by (extreme) weather conditions;
- improved coordination of emergency reactions in the field;
- improved capacity to provide adequate emergency responses to extreme weather and climate events;
- shorter reaction time and higher efficiency of reactions;
- enhancement of citizen's protection and saving lives.

The action is expected to proactively target the needs and requirements of users, such as national law enforcement agencies, climate and weather services, civil protection units and public and private operators of critical infrastructures and networks.

Evaluation of proposal – standard award criteria



- ✓ Innovation actions = higher weighting for „impact“

Evaluation of proposal

- Not carried out by the European Commission, but by 3 to 5 independent evaluators.
- A proposal should at least score 3/5 on every selection criteria and 10/15 in total to be considered, but you should aim higher.
- Overall success rate is ~10%.

4. The topics of call H2020-DS-2015-1

Thematic area „Secure Societies“

- Total budget 2014 – 2020: € 1,695 billion
- Currently a work programme for 2014 – 2015:
http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-security_en.pdf
- 4 different calls/subthemes, each with their own focus. Today we will discuss the call “Digital Security: Cybersecurity, Privacy and Trust”

- Budget of call H2020-DS-2015-1: € 50,21 million
- Deadline: 27 August 2015
- Four topics:
 - The role of ICT in Critical Infrastructure Protection
 - Information driven Cyber Security Management
 - Trust eServices
 - Value-sensitive technological innovation in Cybersecurity

- DS-3-2015: The role of ICT in Critical Infrastructure Protection
 - Innovation Action
 - € 17,50 million for 2-3 projects
 - Cascading effect of the malfunctioning or disruption of the communication channel or of an IT system on several other infrastructures or services that depend on it.
 - Impact of the project:
Resilient and robust communication networks offering a reduced attack surface to the supported critical infrastructures.

- DS-4-2015: Information driven Cyber Security Management
 - Innovation Action
 - €14,31 million for 2-3 projects
 - Effective decision making when it comes to cyber security management, with a strong focus on SMEs.
 - Impact of the project:
The pilots projects will establish and validate tools and techniques that will facilitate the management of internal and external information sources related to cyber security management.

- DS-5-2015: Trust eServices
 - Innovation Action
 - €17,40 million for 2-3 projects
 - The implementation of trust eServices in specific applications areas like health, public administration, eCommerce (electronic signatures, e-seals, timestamps or certified electronic delivery).
 - Impact of the project:
Demonstrate a positive business case and the economic value for the use of and reliance upon trust eServices.

- DS-7-2015: Value-sensitive technological innovation in Cybersecurity
 - Coordination and Support Activity
 - €1 million euro for 1 project
 - New digital technologies are all around us but their impact on society is often difficult to assess or predict. It is essential to ensure that new and innovative cybersecurity technologies are designed to incorporate European values and fundamental rights combined with fairness and accountability and ensure the 'right' level of control individuals can exercise over their actions and the technology they utilize.

Existing projects (1)

- Wireless Sensor Networks for the Protection of Critical Infrastructures
 - EURESCOM
 - IHP GMBH
 - NEC EUROPE LTD
 - INOV INESC INOVACAO
 - EDP DISTRIBUICAO ENERGIA SA
 - BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM
 - INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET EN AUTOMATIQUE
 - LULEA TEKNISKA UNIVERSITET
 - SIRRIX AKTIENGESELLSCHAFT
 - TECNATOM S.A.
 - UNIVERSIDAD DE MALAGA
 - FWA FRANKFURTER WASSER- UND ABWASSERGESELLSCHAFT MBH

Existing projects (2)

- Semantically Enhanced Resilient and Secure Critical Infrastructure Services
 - UNIVERSITY OF SOUTHAMPTON
 - QINETIQ LIMITED
 - JOANNEUM RESEARCH FORSCHUNGSGESELLSCHAFT MBH
 - AUSTRO CONTROL OSTERREICHISCHE GESELLSCHAFT FUR ZIVILLUFTFAHRT MBH
 - AUTORIDAD PORTUARIA DE GIJON
 - CENTER FOR SECURITY STUDIES

Existing projects (3)

- Protection And Trust In Financial Infrastructures
 - ATOS SPAIN SA
 - AVOCO SECURE LIMITED
 - @BC - ARENDT BUSINESS CONSULTING (HANS-HENNING ARENDT)
 - EDGE INTERNATIONAL BV
 - WATERFORD INSTITUTE OF TECHNOLOGY
 - ACRIS GMBH

Existing projects (4)

- Security of Road Transport Networks
 - PTV PLANUNG TRANSPORT VERKEHR AG.
 - BUNDESANSTALT FUER STRASSENWESEN
 - PARSONS BRINCKERHOFF LTD
 - TECHNISCHE UNIVERSITAET GRAZ
 - **TRAFICON INTERNATIONAL NV**
 - ERNST BASLER + PARTNER AG
 - NIRAS RADGIVENDE INGENIORER OG PLANLAEGGERE AS

Existing projects (5)

- Increasing Security and Protection through Infrastructure Resilience
 - CONSORZIO INTERUNIVERSITARIO NAZIONALE PER L'INFORMATICA
 - SELEX ES SPA
 - KITE SOLUTIONS SRL
 - TECHNISCHE UNIVERSITAET DARMSTADT
 - ITTI SP ZOO
 - THALES COMMUNICATIONS & SECURITY SAS
 - S21SEC INFORMATION SECURITY LABS S.L.
 - CESS GMBH CENTRE FOR EUROPEAN SECURITY STRATEGIES
 - SELEX SISTEMI INTEGRATI SPA

Existing projects (6)

- Strategic Risk Assessment and Contingency Planning in Interconnected Transport Networks
 - INTRASOFT INTERNATIONAL SA
 - NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS"
 - CENTER FOR SECURITY STUDIES
 - CONFEDERATION OF ORGANISATIONS IN ROAD TRANSPORT ENFORCEMENT AISBL
 - QINETIQ LIMITED
 - FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V
 - ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS
 - METROPOLITAN POLICE SERVICE
 - CTL CYPRUS TRANSPORT LOGISTICS LIMITED
 - **SQUARIS SPRL**
 - SRM - SOCIETA RETI E MOBILITA SRL

5. How to proceed next ?

What to do next ?

- Decide if you want to be involved in Horizon 2020
- Decide which topic fits you best
- **Make publicity for yourself !!**
 - Go to the official [H2020 Secure Societies Information Day](#) on 26 March 2015 in Brussels
 - Use your own network

Where to get help ?

- Your National Contact Point
 - Wallonia: Mr Géraud Guilloud
geraud.guilloud@ncpwallonie.be or 010/47.19.67
 - Flanders: Mr. Luc De Ridder
ldr@iwt.be or 02/432.42.38
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More information

- Official Horizon 2020 website
<http://ec.europa.eu/programmes/horizon2020/en>
- Participant portal
<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>