

19 de noviembre de 2021

Estimados amigos:

A través de este nuevo boletín informativo, os hacemos llegar las últimas novedades del
Clúster 3: Seguridad civil para la sociedad

- **Convocatoria 2021 del Clúster 3:**

A continuación os enviamos algunas recomendaciones que nos proporciona la Comisión en relación con la presentación de propuestas para la convocatoria 2021 del Clúster 3, que cierra el martes 23 de noviembre

Applicants using the electronic proposal submission system under the Funding & Tenders Portal recently encountered some difficulties with the drafting and submission of proposals. Here are some tips for applicants to avoid most of the issues:

- ✓ **SUBMIT** a (next to) final version of your proposal **SEVERAL DAYS BEFORE THE DEADLINE!**
 - ✓ **AVOID** editing (your part of) the proposal with **MORE THAN ONE USER** from your organisation at the same time!
 - ✓ **DO NOT** edit the proposal in **MORE THAN ONE BROWSER TAB/WINDOW** at the same time!
 - ✓ **SAVE** your changes **FREQUENTLY!** No data is saved until you click on SAVE.
 - ✓ **DO NOT USE** file names containing **SPECIAL CHARACTERS** for files you upload. Only alphanumeric characters: A-Z, a-z, 0-9, _ (underscore), - (dash), . (dot) or space are allowed.
 - ✓ **DO NOT ENCRYPT** or **DIGITALLY SIGN** your PDF files.
 - ✓ **DOUBLE-CHECK AFTER UPLOAD** of files whether they can be opened without problems.
- **Estadísticas de las propuestas presentadas en la convocatoria: HORIZON-CL3-2021-CS-01, que cerró el día 21 de octubre de 2021.**

A total of **105** proposals has been submitted to call HORIZON-CL3-2021-CS-01, which closed on 21 October 2021.

These proposals, of which the evaluation will be organized over the coming weeks and months, were submitted to the following topics:

- **HORIZON-CL3-2021-CS-01-01** - Dynamic business continuity and recovery methodologies based on models and prediction for multi-level Cybersecurity (RIA) → **28** proposals (indicative budget 21,5 EUR million)

- **HORIZON-CL3-2021-CS-01-02** - Improved security in open-source and open-specification hardware for connected devices (RIA) → **19** proposals (indicative budget 18 EUR million)
- **HORIZON-CL3-2021-CS-01-03** - AI for cybersecurity reinforcement (RIA) → **31** proposals (indicative budget 11 EUR million)
- **HORIZON-CL3-2021-CS-01-04** - Scalable privacy-preserving technologies for cross-border federated computation in Europe involving personal data (RIA) → **27** proposals (indicative budget 17 EUR million)

- **Próximos eventos CERIS – European Community of Users in Safety and Security:**

- The **CERIS - INFRA projects: What's next?** Will take place as an **online conference on 29 November 2021 starting at 10h00 CEST.**

This DG HOME CERIS event will focus on the outcomes of projects coming from the European critical infrastructure protection research. The transition of innovative technologies from the laboratory to the field of operations is indeed a challenge. To better understand this process, we also need to listen to the opportunities and the hurdles that these research projects are facing.

The event will focus on short presentations of project results followed by an open discussion. The projects will present their strategy on exploitation of successful research project results but also the way forward following the end of the project's life cycle.

In view of interesting and dynamic exchanges we are looking forward to your participation.

You can find [here](#) the agenda of this event.

Registration is essential in order to receive the online conference sign-in details.

[Registration](#)

Should you have any questions, please contact [CERIS Events Secretariat](#).

- **Save the date: CERIS workshop on DRS, 13-15 December 2021**

As a follow-up of fruitful meetings in the Disaster-Resilient Societies (DRS) Thematic Area held from February to May 2021 within the “Community of European Research and Innovation for Security (CERIS)” and a successful CBRN-related event co-organised by 4 projects in September 2021, DG HOME has encouraged H2020 projects to join forces for co-organising a DRS event under the CERIS umbrella on the **13-15 December 2021**.

Six projects are hence working together to set up an agenda that will cover discussions on societal resilience (13th December, session co-organised by the LINKS and RESILOC projects), technologies for first responders (14th December, session co-organised by the INGENIOUS, CURSOR and FASTER projects) and standardisation (15th December, session co-organised by the STRATEGY project).

The sessions will involve a larger number of H2020 projects, thus providing a high-level platform of exchanges in the DRS area that will contribute to CERIS objectives. In addition, information will be provided on Horizon Europe DRS topics for 2022.

The meeting, to be held in Brussels (BAO Congress Centre), intends to be of hybrid format, mixing virtual attendance with a limited physical participation. The agendas of the different sessions will be released before the end of November along with the opening of the registration platform.

The overall meeting will take place from Monday 13th December at 10:30 to Wednesday 15th December at 16:00. Please save the date in case you are interested to join. Further information will be released soon.

- **Workshop organizado por el proyecto EXERTER:**

We are pleased to invite you to an online workshop organised by the EXERTER consortium on **Wednesday 1st of December, 9:00-12:30 CET, with the theme “From the lab to the client”**. The event is the second in a series of interactive workshops around market uptake, standardisation and similar issues.

The overall purpose of this workshop is getting the Security of Explosives’ sector companies together to share their experiences related to turning their innovations into successful products. We will also have a discussion session focussed on innovation business models and which actions our regulators could undertake in order to make Europe more attractive for cutting edge companies. It shares a common ground with the previous EXERTER online webinar in the series, which focussed on standardization, but it covers the whole innovation loop from the inception of something new until it turns into a successful product in the market. It deals as well with our current business environment, where EU’s research and

innovation programmes are meant to be a game changer by supporting industry and innovations to remain competitive in the current world stage.

The workshop will count with speakers from different European law enforcement bodies, SoE companies, academia and R&D centres among which we can mention PSNI (Ireland), DSTL (UK), FOI (Sweden), INTA (Spain), TNO (Nederland), CDTI (Spain), Rohde-Schwarz (Germany), ESRI (UK), TSD (Spain), EOS (Nederland), Iturri (Spain) and TEAM (Spain).

Your attendance is highly appreciated. **The workshop requires pre-registration, you can register free of charge:** [Cisco Webex Meetings - Meeting Detail](#). Ver anexos.

- **Información sobre la situación de Suiza en Programa Marco:**
 - [Status of Switzerland in Horizon Europe](#), including all the information for the coordinators on how entities from Switzerland can participate in their consortium. For example the role of [Associated Partners](#) and [How to Add Associated Partners to a Proposal on the F&T Portal](#).
 - [Financial guarantee letter for Swiss participants](#) from the Swiss government for the 2022 calls.
 - [FAQ](#) from the Swiss government on the Swiss participation.

Esperamos que esta información os resulte de interés.

Un cordial saludo,

Maite Boyero Egido

Representante y Punto de Contacto Nacional Clúster 3

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Welcome to the latest newsletter of EXERTER, an EU Funded H2020 project. EXERTER commenced in May 2018 and is a five year project which seeks to connect practitioners into a pan-European network of explosives specialists.

Message from the Project Coordinator

EXERTER is looking back at a year filled with different virtual events; conference, webinars and workshops. In this newsletter you can read more about the latest webinar on standardisation within the security field, and also about our upcoming virtual workshop on exploitation.

For the coming year we will again be able to combine virtual and physical events, and for this period the EXERTER network will highlight an interesting and very relevant theme: Criminal use of explosives. During the coming winter and spring there will be webinars and a physical conference devoted to discussing issues related to that, giving us all a chance to raise issues we think are important and share information between us within the network.

The connection between different actors, such as academia, law enforcement, research and manufacturers, will also be emphasised through activities during the coming period. We hope that you will all join us to make these activities lively and fruitful!

EXERTER Workshop “From the lab to the client”

EXERTER is organizing a second On-line Workshop scheduled on December 1, 2021, “From the lab to the client”, that will deal with the process of bringing innovations into the market. The overall purpose of this Workshop is getting the Security of Explosives’ sector companies together to share their experiences related to turning their innovations into successful products. We will also have a debate on innovation business models and which actions should our regulators undertake to make Europe more attractive for cutting edge companies.

It shares a common ground with EXERTER’s On-line Workshop on standardization that took place on October 5, but it covers the whole innovation loop from the inception of something new until it turns into a successful product on the market. It deals too with our current business environment, where EU’s research and innovation programmes are meant to be a game changer by supporting industry and innovations to remain competitive in the current world stage.

The workshop will start with presentations to set the scene from a 360° perspective, ranging from companies’ strategies to endure market challenges and leverage opportunities, to clients’ demand and public funding. Then, business cases in the SoE sector will be presented to illustrate the key of some of our innovative companies’ success. At the end of these presentations, there will be an opportunity for all attendees and speakers to have a discussion and, to share what they learnt from their particular experiences and to discuss their insights on what our governments and regulators should do to better support innovations. Please keep an eye out for the email with further details



For more information visit:
www.exerter-h2020.eu

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement no.786805



EXERTER Year Four Scenario National Workshops

In each year of the EXERTER project, a set of scenarios are defined to focus the discussions on selected topics in the field of security of explosives. The work then evolves around: review of research initiatives, looking at standardisation and certification, market screening and evolution of threats. The scenarios encourage the inclusion of variations and emerging or future threats in a way that opens up discussions on requirements, gaps, other factors which can impact on society and LEAs required to prevent, detect, mitigate or react to the illegal use of IEDs. As indicated in the previous newsletter the EXERTER Year Four is exploring the illegal use of IEDs for the purposes of criminality, for example, attacks on ATM to aid the theft of cash.

As with last year, due to current COVID-19 challenges the EXERTER workshops will be hosted nationally by project partners, which will allow experts within the national context to contribute to progress by discussing requirements, needs, issues, based on sharing knowledge and experiences of such threats. It offers an opportunity to think and ask the relevant questions and contribute to the development of the work undertaken by EXERTER during Year 4 and the wider European perspective.

You should receive more information and an invite from the EXERTER partner responsible in your country.

EXERTER Interactive Workshop on Standardisation

On the 5th October 2021, the EXERTER team organised an interactive webinar titled “Is standardization an enabler for exploitation of innovations in security against explosives?”

A number of very informative presentations paved the way for interactive breakout sessions, with lively discussions and the opportunity to engage in networking between the 67 participants.

TNO kicked-off with an overview of the FP7 program HECTOS, setting the scene of standardisation in security and outlining the developed roadmaps. A UK speaker introduced the UK perspective on the complex landscape of standardisation in security and the need for a nuanced approach. It was followed by presentation from the Defence Forces Ireland stressing the importance of standardisation in the fields of Common Operational Systems and Standard Operating Procedures.

The second block of presentations focussed on specific topics. An expert from the Dutch Coordinator for Counterterrorism and Security outlined the current practice of standardisation and testing of explosive detection equipment for aviation security in the EU, including the framework of the ECAC Common Evaluation Program. It touched on the importance of a Common Testing Methodology and Routine Testing. The European Organisation for Security (EOS) then had a very interesting presentation on the role of standardisation in innovation, connecting the need for standardisation to the Technical Readiness Level (TRL) of the development, where at low TRLs, standards may inhibit standardisation, whereas at high TRLs, they are a necessity.

ICTS gave a presentation on standardisation in the field of Explosive Detection Dogs, arguing that standards link together stakeholders, but semantics also matter in this field, to properly understand each other. The UK Defence Science and Technology Laboratory (DSTL) went into detail on the use of simulants in testing, addressing the pros and cons of their use. The final presentation was from Aalbers Wico guiding us through the field of explosion resistant structures and the applicable standards. Interesting were the examples of apparent contractual requirements for safety and security and how to cope with that with innovative solutions.

During the breakout sessions, there was an opportunity to consider and discuss the presentations, and debate several questions concerning standardisation. The findings were presented during the wrap up session and will be analysed further by EXERTER.

As EXERTER organising team we look back on an informative and successful event!

INHERIT

INHibitors, Explosives and pRecursors InvesTigation

The threat of homemade explosives is high, as demonstrated by multiple terrorist attacks throughout the EU. While restricting access and detecting precursor materials is top priority, there is no universal approach to keep a terrorist from using them. In this context, the EU-funded INHERIT project will develop a multidisciplinary approach to intervene across numerous stages of the terrorism timeline with a focus on explosive precursor chemicals including identification of new precursors. Specifically, it will develop technologies to render chemicals inert, more readily detectable and capable of yielding greater forensic value. The aim will be to make it impossible for terrorists to exploit these materials for the production of explosives.

INHERIT has assembled a multi-faceted team with experience of all aspects of four important steps for counter-measures in the terrorism timeline.



With a focus on explosive precursor chemicals, the team will work to develop technologies directed towards thwarting the ability of terrorists to exploit these materials for production of explosives. Methodologies to render chemicals inert, more readily detectable and capable of yielding greater pre-forensic value will all be pursued. Collaboration between the diverse teams developing these interventions will ensure a coordinated holistic approach across all threat materials identified. A systematic evaluation of the countermeasures will also be addressed. This holistic approach will also be applicable in the struggle against emerging and future HME threats.

The EU precursor legislation is an example of the first step in disruption of the timeline. This action serves to restrict the availability of a precursor, either by a ban, a concentration limit, or through requested reporting of suspicious transaction to authorities. Mandating dilution of a precursor, or reporting requirements of its purchase, allows for normal use, while disrupting illicit application. Despite existing precursor restrictions, HMEs can be made from consumer products. Therefore, INHERIT will work with inhibition research for the purpose to prevent and predict manufacturing of HMEs, develop better methods for precursor detection and forensics. This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 101021330.

INHERIT started June 1 2021 and will end by May 2024.

The consortium:



Networking & Events

EXERTER Events

EXERTER Interactive Workshop

1st December 2021 - Time and registration details to be confirmed.
"From the lab to the client"

EXERTER Annual stakeholder workshop

Autumn 2021 - Dates and Venues of national workshops to be confirmed and subject to ongoing COVID-19 restrictions.

Other Related Events

FEINDEF '21 - International Defence and Security Exhibition - 3rd-5th November 2021

Madrid, Spain
<https://www.feindef.com/eng/>

FULMINATION 2022 - 4-6th April 2022

Reading, UK
<https://iexpe.org/event/fulmination-2022/>

EFEE World Conference on Explosives and Blasting - 15-17th May 2022

Maastricht, Netherlands
<https://efee2022.com/>

Forensics Europe Expo - 8-9th June 2022

London, UK
<https://forensicseuropeexpo.com/>

International Security Expo - 27th-28th September 2022

London, UK
<https://www.internationalsecurityexpo.com/welcome>

EXERTER End User and Expert Community

EXERTER End user and Expert Community (EEC) is important to the network, in order to give valuable input to scenarios, requirements, evaluations and upcoming threats.

It consists of practitioners, academia, research institutes, industry and policy makers. If you are interested in becoming a member of the EEC, or are aware of some-one who would benefit in participating in EXERTER, please contact the Project Coordinator. Alternatively if you only wish to receive regular information and updates on the project you can get this through visiting the website and the project newsletter. Please contact the Project Coordinator to be added to the project mailing list.

Facts & Figures

Project duration:
01/06/2019 – 31/05/2023

Budget:
€ 3 498 868.75

Contact

If you wish to find out more, are interested in our End user and Expert community or wish to receive the EXERTER Newsletter with updates of the project, please contact us:

www.exerter-h2020.eu

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Security of Explosives pan-European Specialists Network

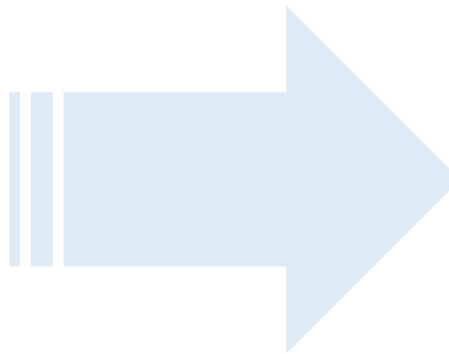
Partners



On-line Workshop on Exploitation of innovations 2021

December 1st, 2021

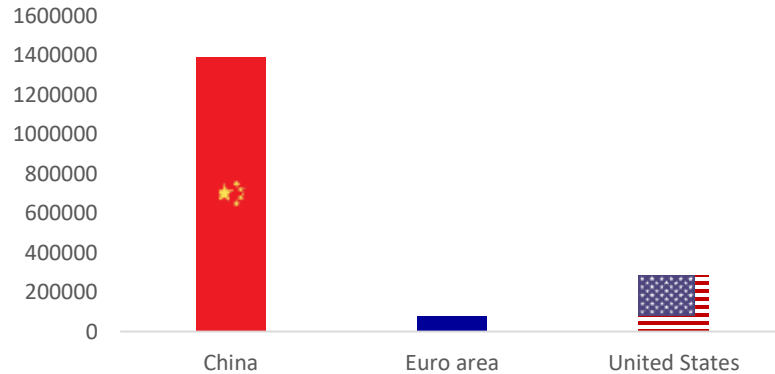
From the Lab to the Client



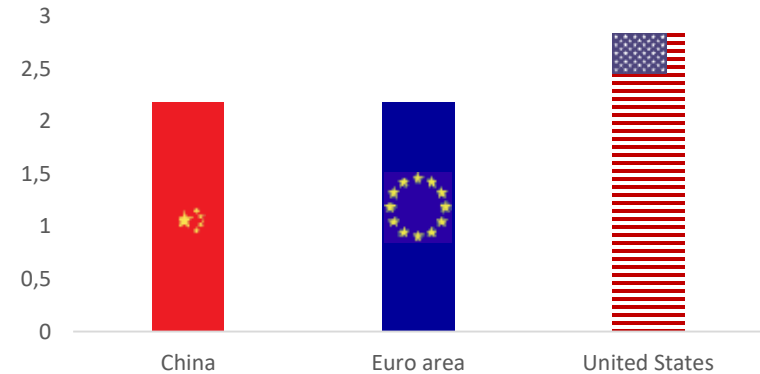
Technological leadership indicators

Europe is lagging behind its two main competitors, USA and China.

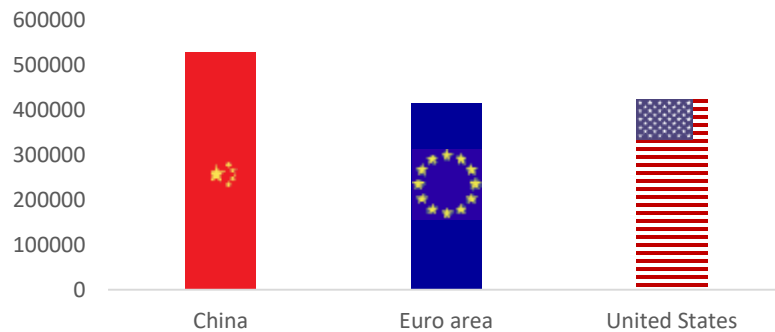
Patent Applications in 2018



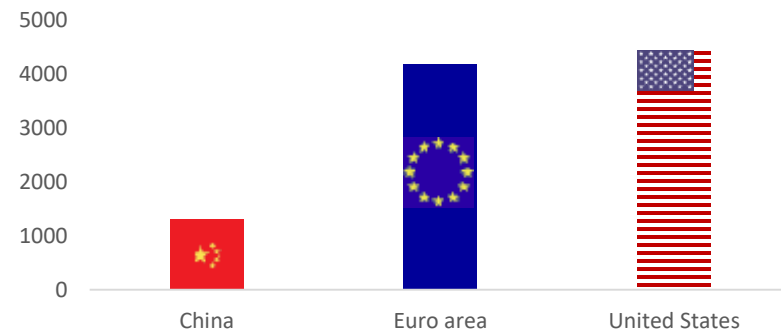
R&D expenditure (% of GDP) in 2018



Scientific and technical journal articles in 2018



Researchers per million inhabitants in 2018

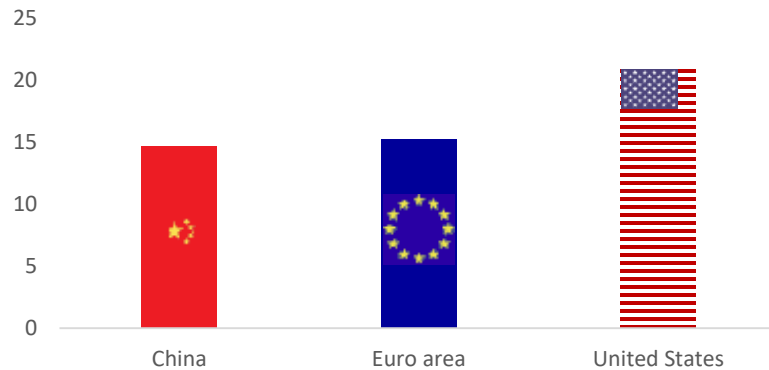


Source: "The World Bank" data base.

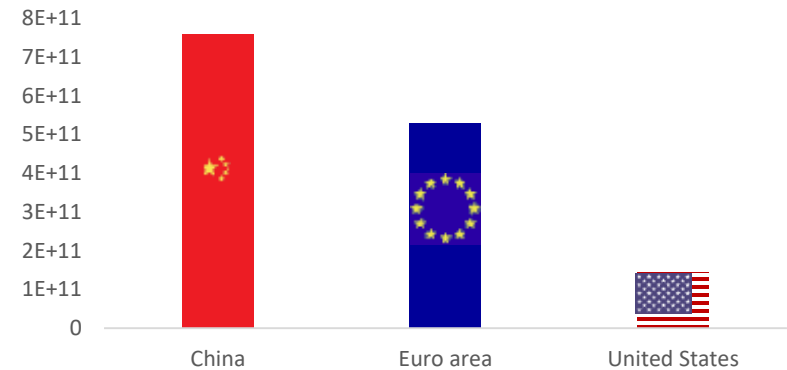
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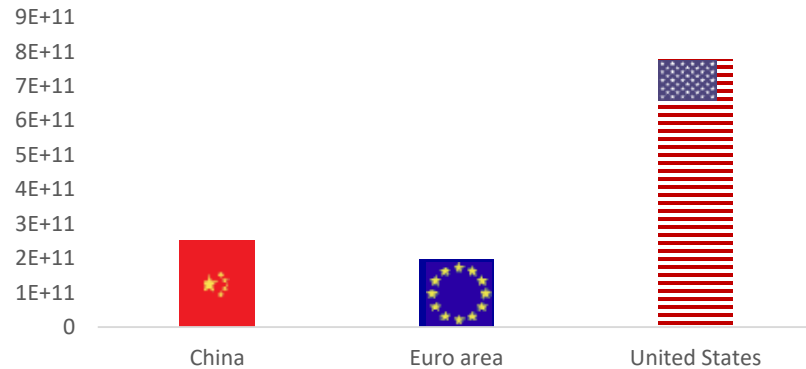
GDP (trillion dollars) in 2020



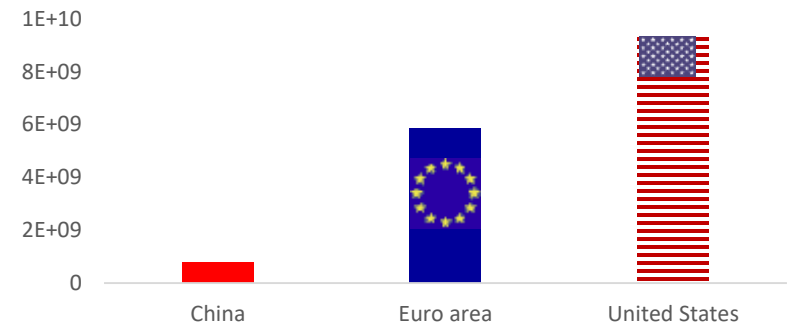
High-technology exports (US\$) in 2020



Military expenditure (US\$) in 2020



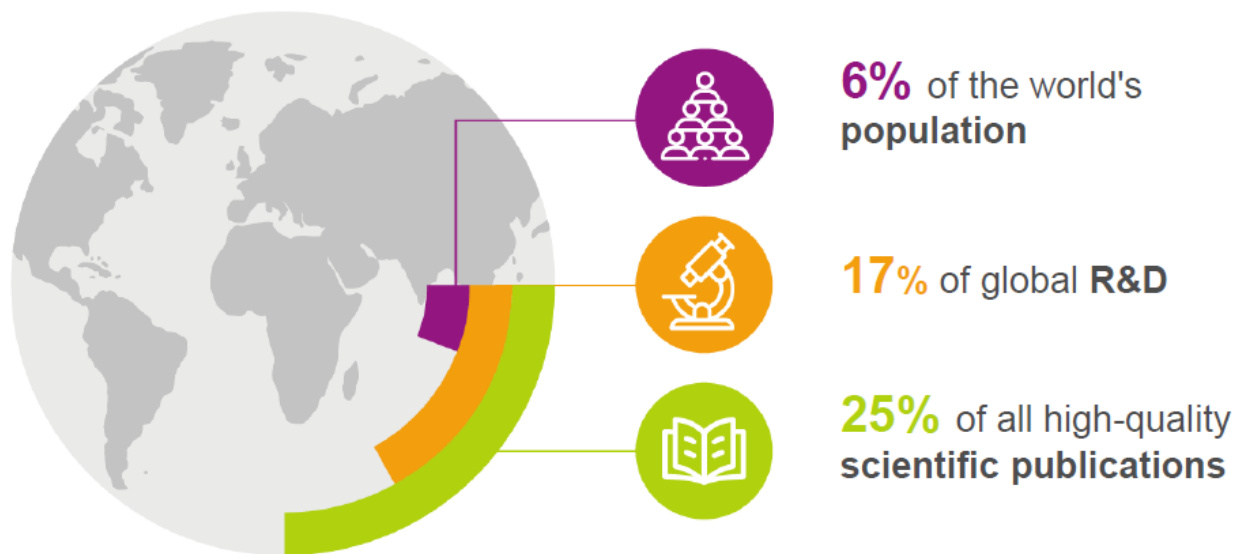
Arms exports (SIPRI trend indicator) in 2020



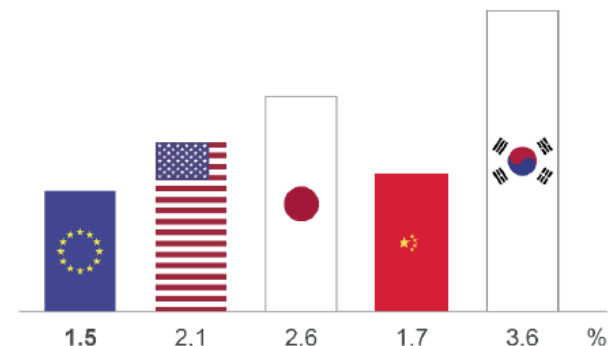
Source: "The World Bank" data base.

Europe can do better at transforming its knowledge and skills into leadership in innovation and entrepreneurship...

... if we leverage our strengths:



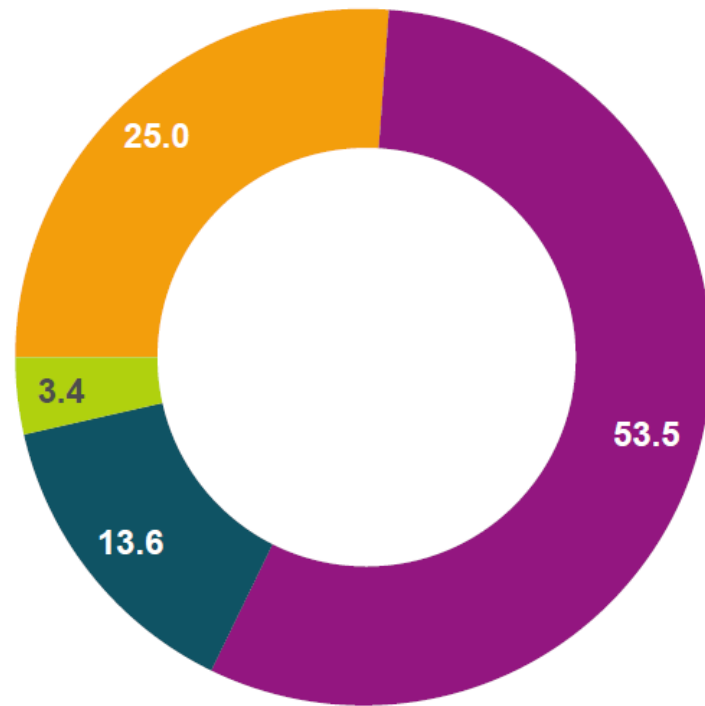
1.5% EU business R&D investment



EU figure is for 2019
Figures for USA, Japan, China and South Korea are for 2018. Figures represent R&D as % of GDP

Horizon Europe has a budget of 95.5 billion €

to pursue its 4 pillars funding innovation and R&D projects and boosting key technologies and solutions underpinning EU policies and sustainable development goals.



Political agreement December 2020

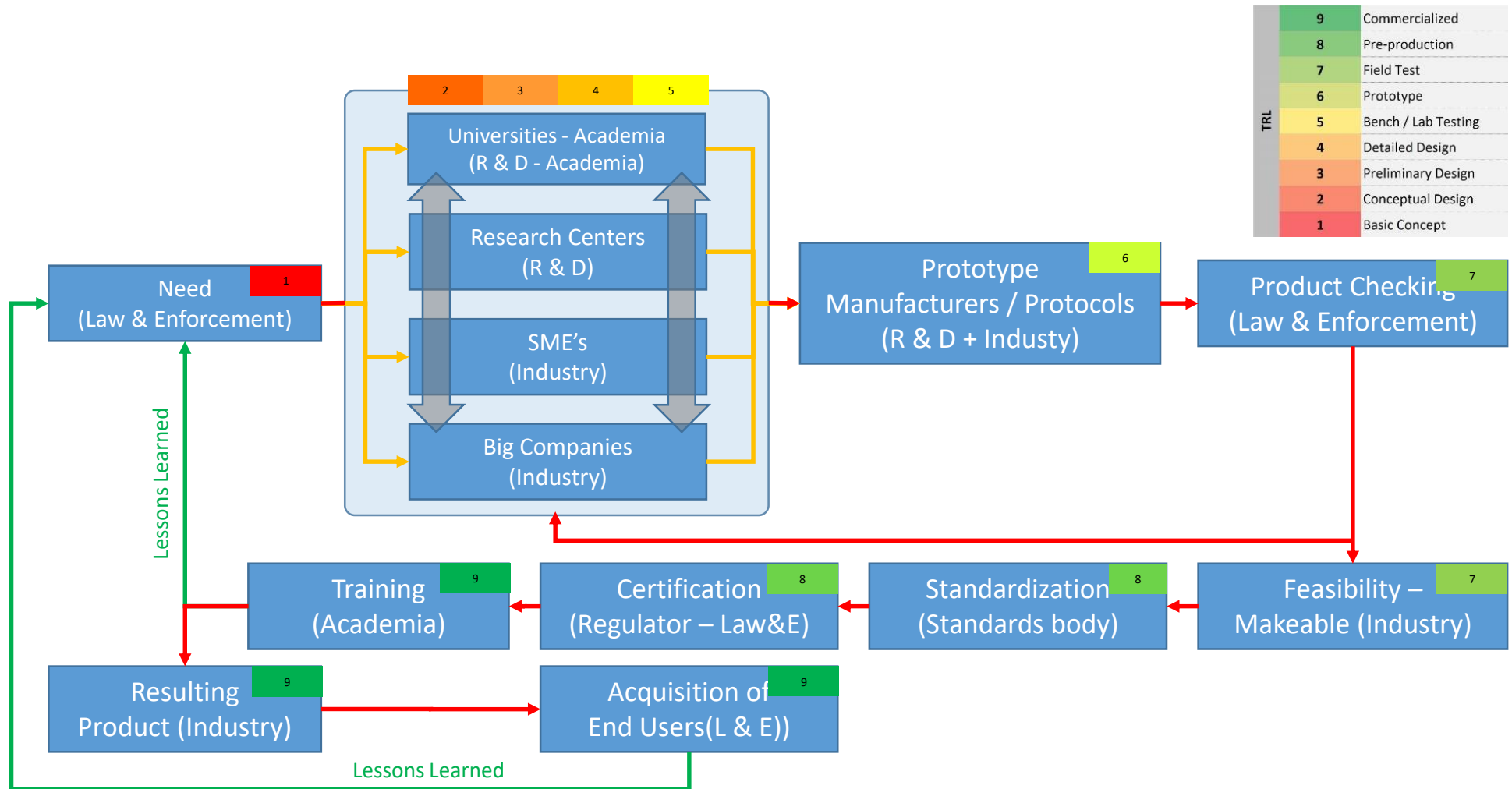
€ billion in current prices

- Excellent Science
- Global challenges and European ind. comp.
- Innovative Europe
- Widening Part and ERA

And yet we wonder in our SoE industry:

- Which problems must we solve to overcome the valley of death between the final prototype and the commercial success?
- Where does the need for the development of a new product come from? Is it the initiative of the supplier or the demand of the client?
- Do we include current or future public calls in the assessment of the return of the investment? Is it more profitable to ignore public calls and focus on the natural demand of the free market?
- Are defence development programs attractive and sufficiently defined?
- Are we knowledgeable of security and defence R&D calls promoted by the European armed forces and law-enforcement? Is it hard for manufacturers to learn what they need to develop?
- Is democracy no match to the Dark Side of the Force? Do equality and transparency hold us back from excellence? Are our values a spoke in the wheel?
- What challenges face manufacturers to start up or to leave a successful footprint in the market?
- Which safe environment should we put together to be able to trust each other and be more cooperative?
- How can we be more supportive to our armed forces?
- Are we in the disposition of guaranteeing our technological leadership in case of a crisis?

A debate to shed light on how effective our legal environment and our Research & Innovation **Horizon Europe** Program really is for our SoE industry to develop and cash in innovations



Our agenda for the On-Line Workshop:

| Block | Duration (min) | Name | Element | Duration (min) | Title | Speaker (options) | Status |
|-------|----------------|----------------------|---------|----------------|---|---|--|
| 0 | 5 | Webinar introduction | | 5 | From the lab to the client | FOI (Sweden) | Speaker: Anneli Ehlerding |
| 1 | 50 | Setting the scene | 1 | 10 | Innovation as the core of the European Research Area | European Commission | Speaker: to be confirmed |
| | | | 2 | 10 | Business and economics of the SoE industry: <ul style="list-style-type: none"> • Business Environment: <ul style="list-style-type: none"> - Technological (bottom-line sustaining the economics of innovation). - Legal (opportunities and hurdles in different legal systems). - Economic (factors shaping commercial and consumer behaviour). - Social (demographics and cultural factors) • Experiences of success and failure. The key to success. • Dual-use technology. • Competitive enterprises. | INTA (Spain) | Speaker: Juan José Navlet |
| | | | 3 | 10 | The importance of supporting industry and innovations in SoE | EOS (Nederland) | Speaker: to be confirmed |
| | | | 4 | 10 | Public funding of innovation | CDTI (Spain) | Speaker: Marina Martínez |
| | | | 5 | 10 | The clout of the client | DSTL (UK) | Speaker: Hemant Desai |
| | 10 | Break | | | | | |
| 2 | 90 | Real cases | 6 | 15 | Mesmerize Project (Mangement of European Union funded SoE projects) | University of Alcala de Henares (Spain) | Speaker: Prof. Dr. José Luis Pérez |
| | | | 7 | 15 | Vehicles' protections (Technological environment case) | TSD (Spain) | Speaker: Luis Mariano Alcázar |
| | | | 8 | 15 | Protection of infrastructures (Legal environment case) | TEAM (Spain) | Speakers: Roberto Jiménez, Carmen Márquez |
| | | | 9 | 15 | Personal protections (Legal environment case) | ITURRI (Spain) | Speaker: Jesús Albillos |
| | | | 10 | 15 | Screening and detection technology (Economic environment case) | To be confirmed | Speaker: to be confirmed |
| | | | 11 | 15 | Surveillance technology in a global environment (Social environment case) | ESRI (UK) | Speaker: Kyle Chapman |
| | 10 | Break | | | | | |
| 3 | 30 | Open debate | 12 | 30 | | All speakers and attendees are invited | Moderators: Jonathan Middleton, Juan José Navlet |
| 4 | 10 | Conclusions | 13 | 10 | | INTA (Spain) | Speaker: Juan José Navlet |
| 5 | 5 | Closure | 14 | 5 | | PSNI (Ireland) | Speaker: Jonathan Middleton |

| | | |
|------|-----|-----|
| Time | 210 | 190 |
|------|-----|-----|

The session will be recorded with the only purpose of making an accurate record of the conclusions, and it will be destroyed immediately after its completion.

Thank you for your attention



National Institute for
Aerospace Technology



FFI Forsvarets
forskningsinstitutt
Norwegian Defence Research Establishment



TNO innovation
for life



Fraunhofer
ICT

Fraunhofer
EMI



Polisen



Keeping People Safe



RGNF



Security of Explosives pan-European Specialists Network



European
Commission