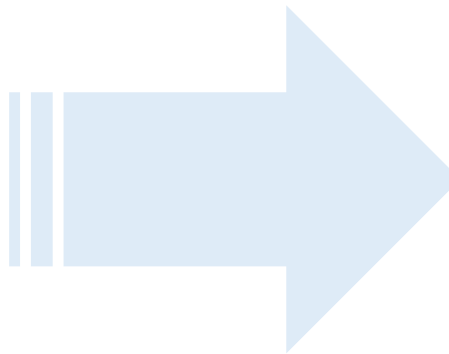


On-line Workshop on Exploitation of innovations 2021

December 1st, 2021

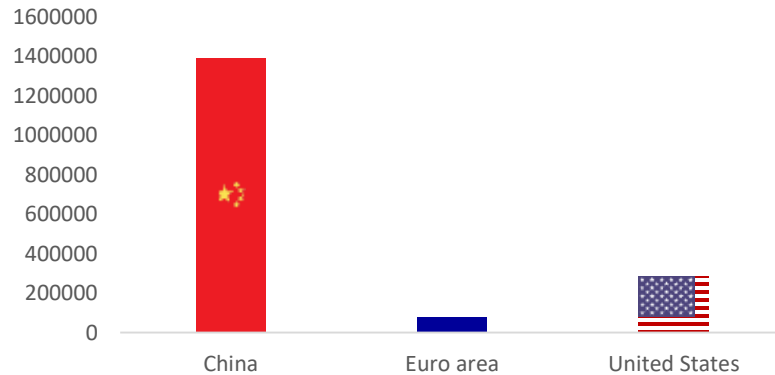
From the Lab to the Client



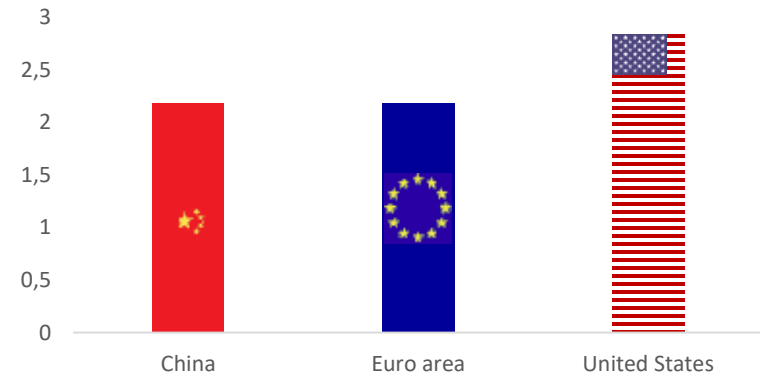
Technological leadership indicators

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

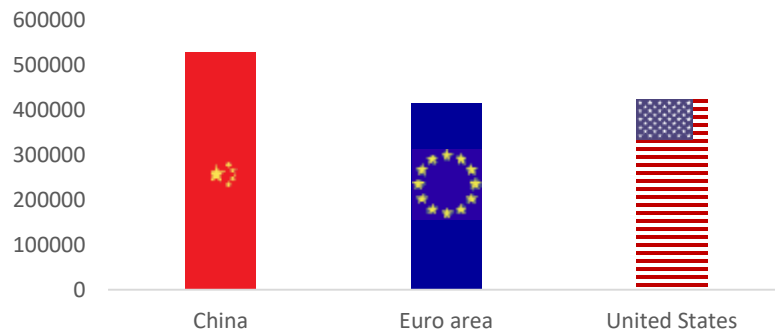
Patent Applications in 2018



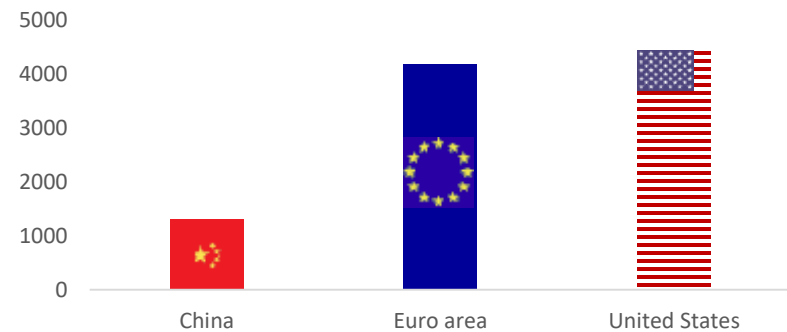
R&D expenditure (% of GDP) in 2018



Scientific and technical journal articles in 2018



Researchers per million inhabitants in 2018

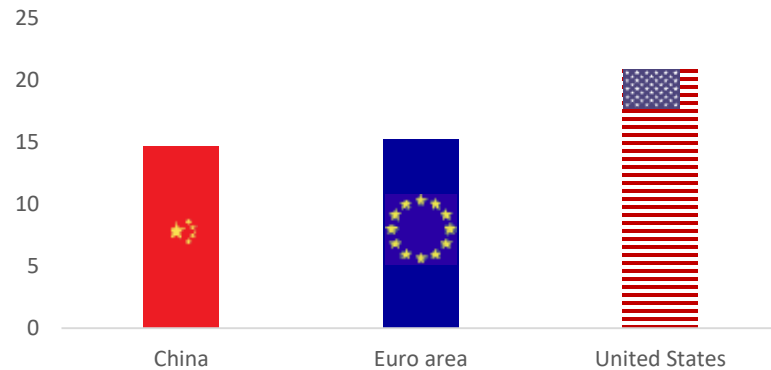


Source: "The World Bank" data base.

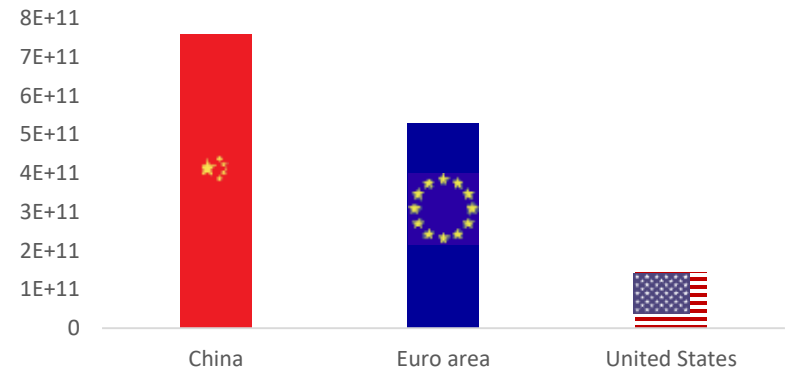
Technological leadership indicators

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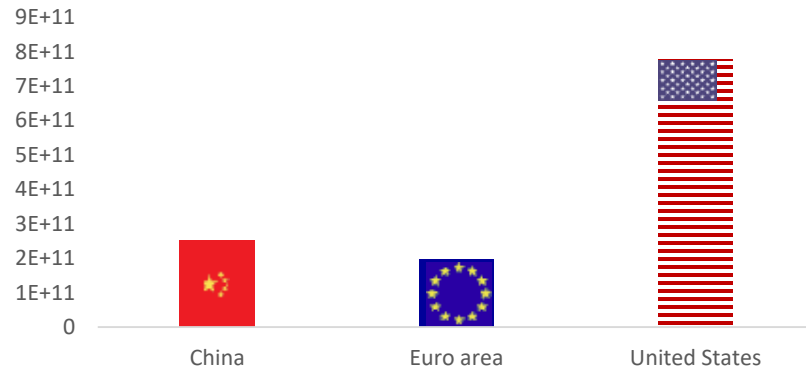
GDP (trillion dollars) in 2020



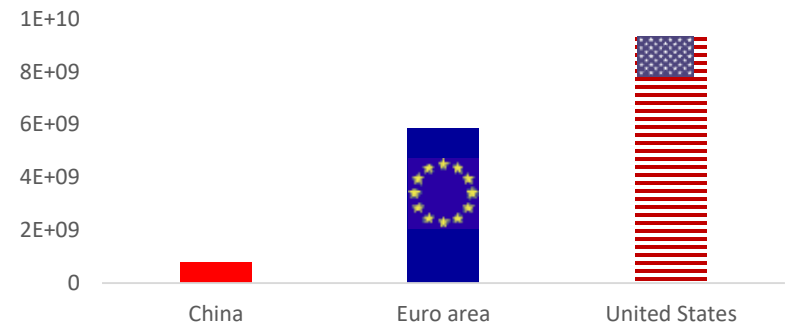
High-technology exports (US\$) in 2020



Military expenditure (US\$) in 2020



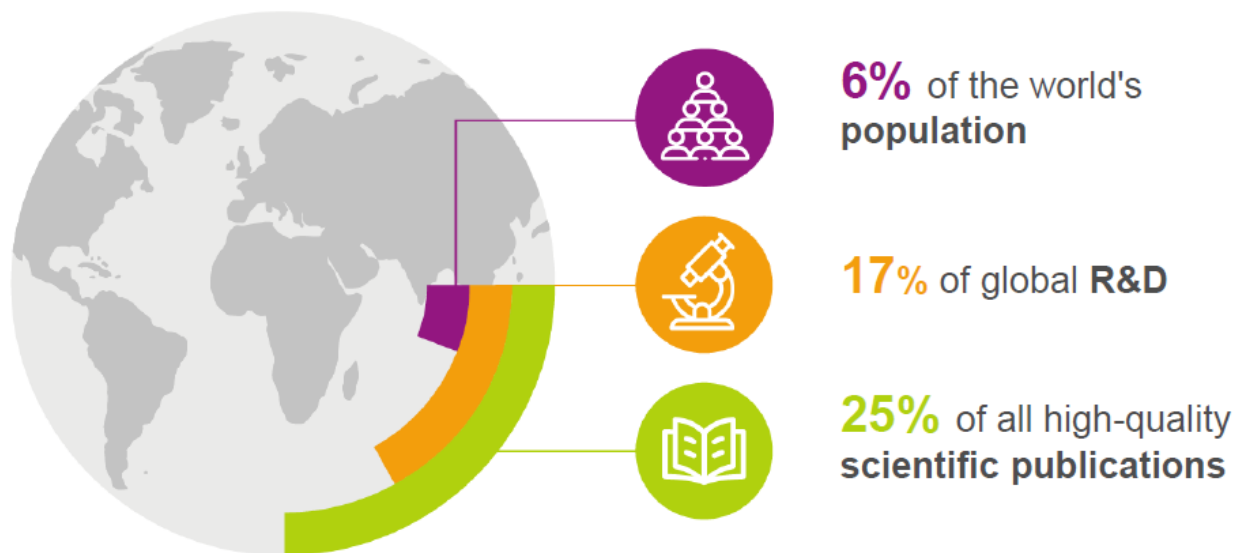
Arms exports (SIPRI trend indicator) in 2020



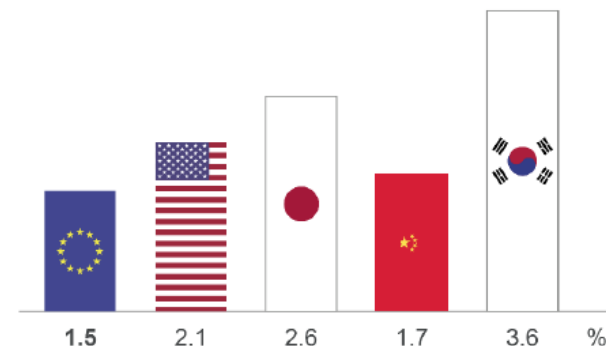
Source: "The World Bank" data base.

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

... if we leverage our strengths:



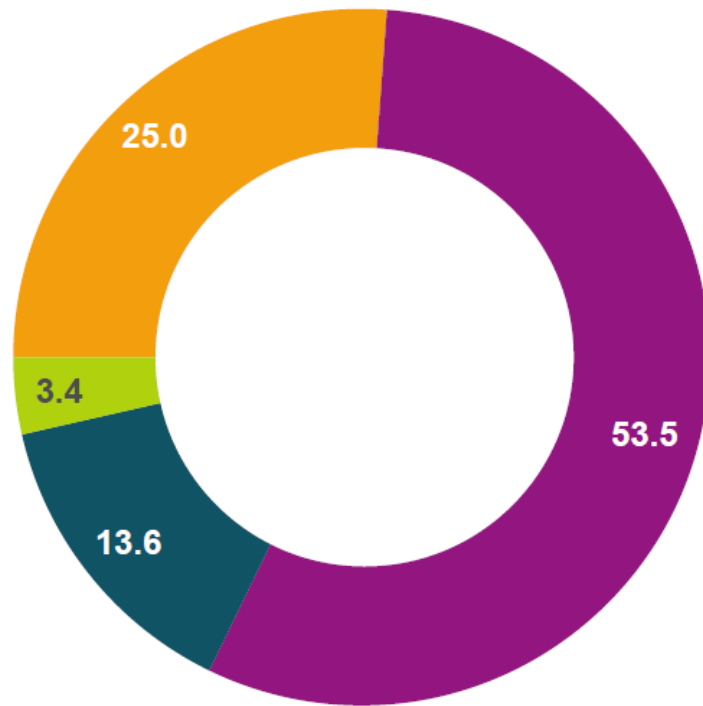
1.5% EU business R&D investment



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

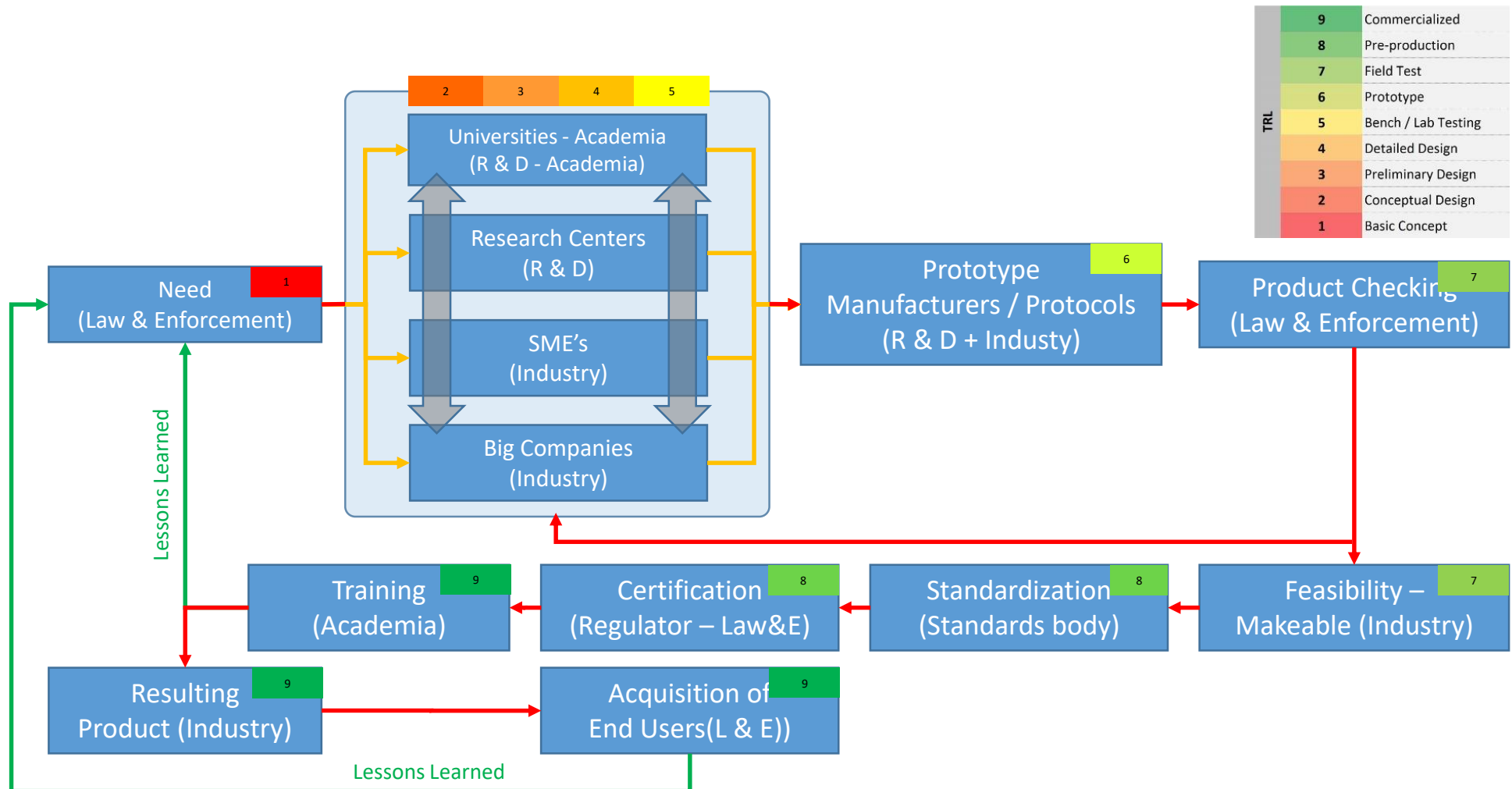
€ billion in current prices

- 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



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ICT

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EMI



Polisen



Keeping People Safe



European
Commission