

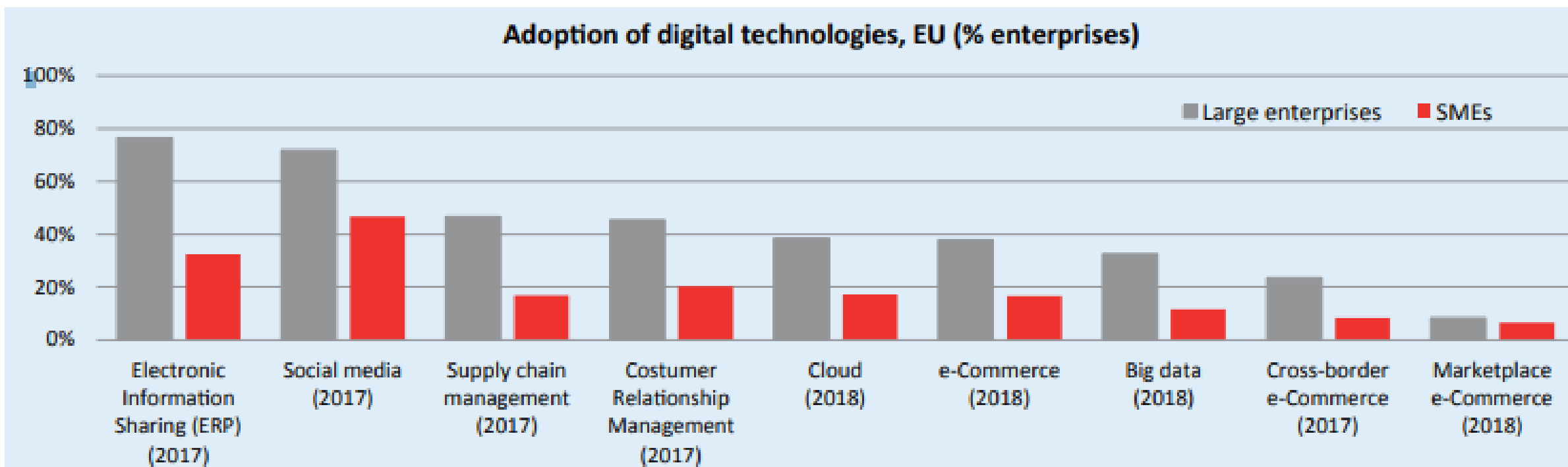
Verso Horizon Europe

L'evoluzione della dimensione **digital** nel prossimo programma quadro

Roma, 13 febbraio 2020



Why digital in the next MFF?



Desi Report 2019 – Integration of Digital Technology (source: Eurostat)

DIGITAL IN THE NEXT MFF: OVERVIEW

Digital in Horizon Europe R&D&I

1. Digital under "global challenges"
 - Digital and industry cluster
 - Digital in other clusters - health, mobility, energy, environment,..
2. Open Innovation
3. Research Infra under Open Science

Connecting Europe Facility - Digital Connectivity

- 5G roll out
- BB 4EU, Connecting communities
- Synergies with Transport /Energy

Digital Europe Capacities & roll out

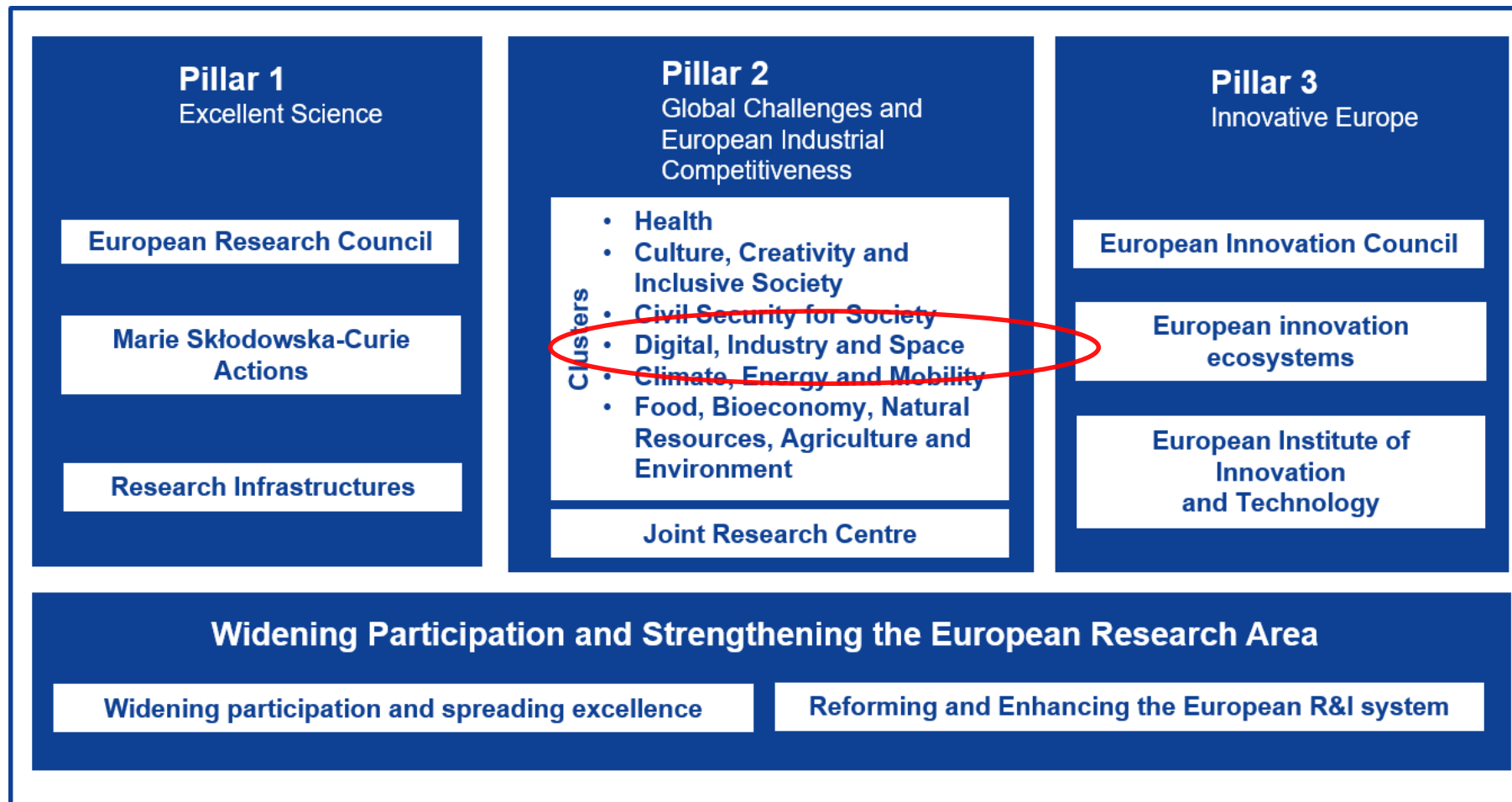
1. High Performance Computing (HPC)
2. Artificial Intelligence (AI)
3. Cybersecurity
4. Advanced digital skills
5. Digital transformation and interoperability

Creative Europe MEDIA

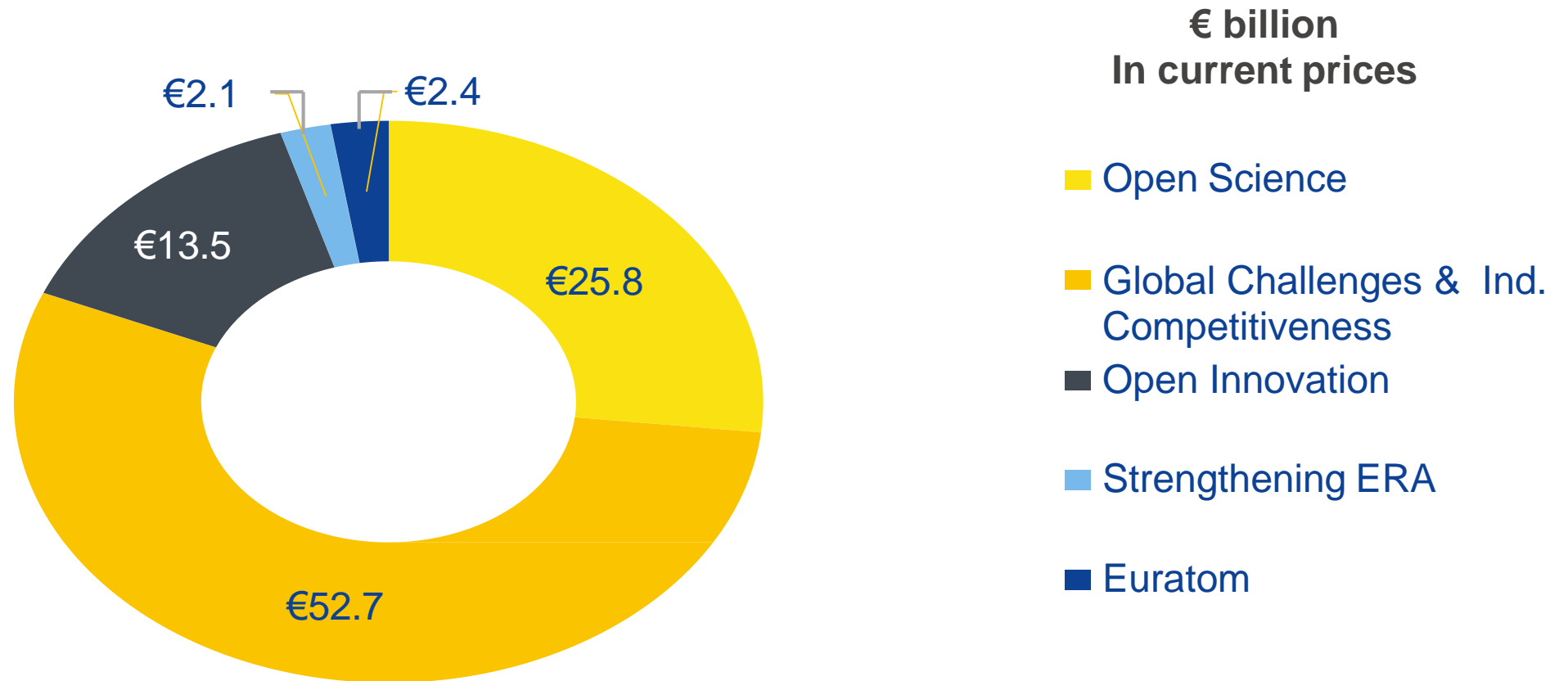
Invest EU Research, innovation & digitisation

European Regional Development Fund/ Cohesion Fund

Horizon Europe is the Commission proposal for a € 100 billion research and innovation funding programme for seven years (2021-2027)



Budget: €100 billion* (2021-2027)



* This envelope includes EUR 3.5 billion allocated under the InvestEU Fund.

Horizon 2020 – € 77bn

Excellent Science		24.4	
ERC - European Research Council	13.1		
FET - Future and Emerging Technologies	2.7		
MSCA - Marie Skłodowska-Curie Actions	6.1		
Research Infrastructures	2.5		

Industrial Leadership		17	
LEIT – Leadership in Enabling & Industrial Technologies	ICT	13.6	
	Space		
	NMBP		
Access to Risk Finance		2.8	
Innovation in SMEs		0.6	

Societal Challenges		29.7	
Health	7.5		
AgriFood	3.9		
Energy	5.9		
Transport	6.3		
Climate	3.1		
SC6	1.3		
Security	1.7		

SwafS - Science with and for Society	0.5
Spreading Excellence and Widening Participation	0.8
EIT - European Institute of Innovation and Technology	2.7
JRC - Joint Research Center	1.9

Horizon Europe – € 94.1bn

Open Science	25.8	Global Challenges and Industrial Competitiveness	52.7	Open Innovation	13.5			
ERC - European Research Council	16.6		CLUSTERS		Health	7.7	EIC – European Innovation Council	10.5
MSCA - Marie Skłodowska-Curie Actions	6.8		Secure and Inclusive Societies		2.8	EU Innovation Ecosystems		
Research Infrastructures	2.4		Digital and Industry	15	EIT - European Institute of Innovation and Technology		3	
			Climate, Energy, Mobility	15				
			Food and Natural Resources	10				
		Joint Research Centre	2.2					
Strengthening the European Research Area				2.1				
Sharing Excellence				1.7				
Reforming and Enhancing the European R&I Ecosystem				0.4				

Digital in Horizon Europe

European leadership on Digital:

- Competitive key digital technologies
- Develop and retain edge know-how
- Increase digital supply choice
- Develop strategic “value-chains”
- Digital transformation: early uptake at pan-European level
- Addressing Global Development Goals (Health, Climate, ...)

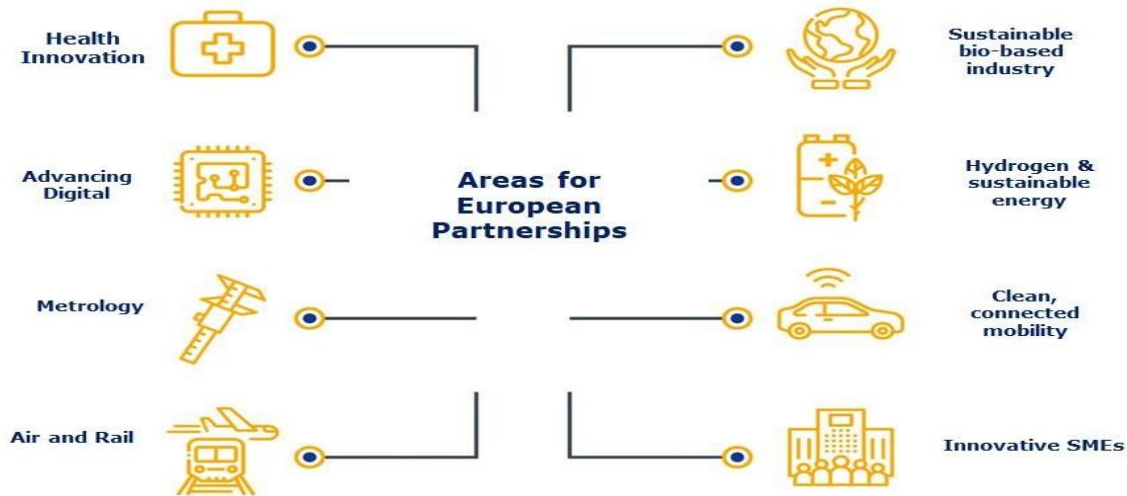
Impact:

- Societal benefits through digital transformation
- Competitiveness of European Industry across sectors
- European and Global policy priorities: jobs, health, climate

Clusters in 'Global Challenges and European Industrial Competitiveness'

Clusters	Areas of intervention	
Health	<ul style="list-style-type: none"> • Health throughout the life course • Non-communicable and rare diseases • Tools, technologies and digital solutions for health and care, including personalised medicine 	<ul style="list-style-type: none"> • Environmental and social health determinants • Infectious diseases, including poverty-related and neglected disease • Health care systems
Culture, creativity and inclusive society	<ul style="list-style-type: none"> • Democracy and Governance • Social and economic transformations 	<ul style="list-style-type: none"> • Culture, cultural heritage and creativity
Civil security for society	<ul style="list-style-type: none"> • Disaster-resilient societies • Protection and Security 	<ul style="list-style-type: none"> • Cybersecurity
Digital, Industry and space	<ul style="list-style-type: none"> • Manufacturing technologies • Advanced materials • Next generation internet • Circular industries • Space, including Earth Observation • Emerging enabling technologies 	<ul style="list-style-type: none"> • Key digital technologies, including quantum technologies • Artificial Intelligence and robotics • Advanced computing and Big Data • Low-carbon and clean industry • Emerging enabling technologies
Climate, Energy and Mobility	<ul style="list-style-type: none"> • Climate science and solutions • Energy systems and grids • Communities and cities • Industrial competitiveness in transport • Smart mobility 	<ul style="list-style-type: none"> • Energy supply • Buildings and industrial facilities in energy transition • Clean, safe and accessible transport and mobility • Energy storage
Food, bioeconomy, natural resources, agriculture and environment	<ul style="list-style-type: none"> • Environmental observation • Agriculture, forestry and rural areas • Circular systems • Food systems 	<ul style="list-style-type: none"> • Biodiversity and natural resources • Seas, oceans and inland waters • Bio-based innovation systems in the EU Bioeconomy

Partnerships



New process to select partnerships for next MFF.

Strong involvement of Member States and industrial stakeholders, leading to more strategic alignment supporting public-private investment for European competitiveness.

Selection of partnerships by end 2019/early 2020.

Proposals for “digital-centric” partnerships on:

- Key Digital Technologies
- High-Performance Computing
- Smart Networks and Services
- AI, data and robotics
- Photonics
- Cybersecurity

Missions



A mission is a portfolio of actions intended to achieve a bold and inspirational as well as measurable goal within a set timeframe, with impact for science and technology, society and citizens that goes beyond individual actions

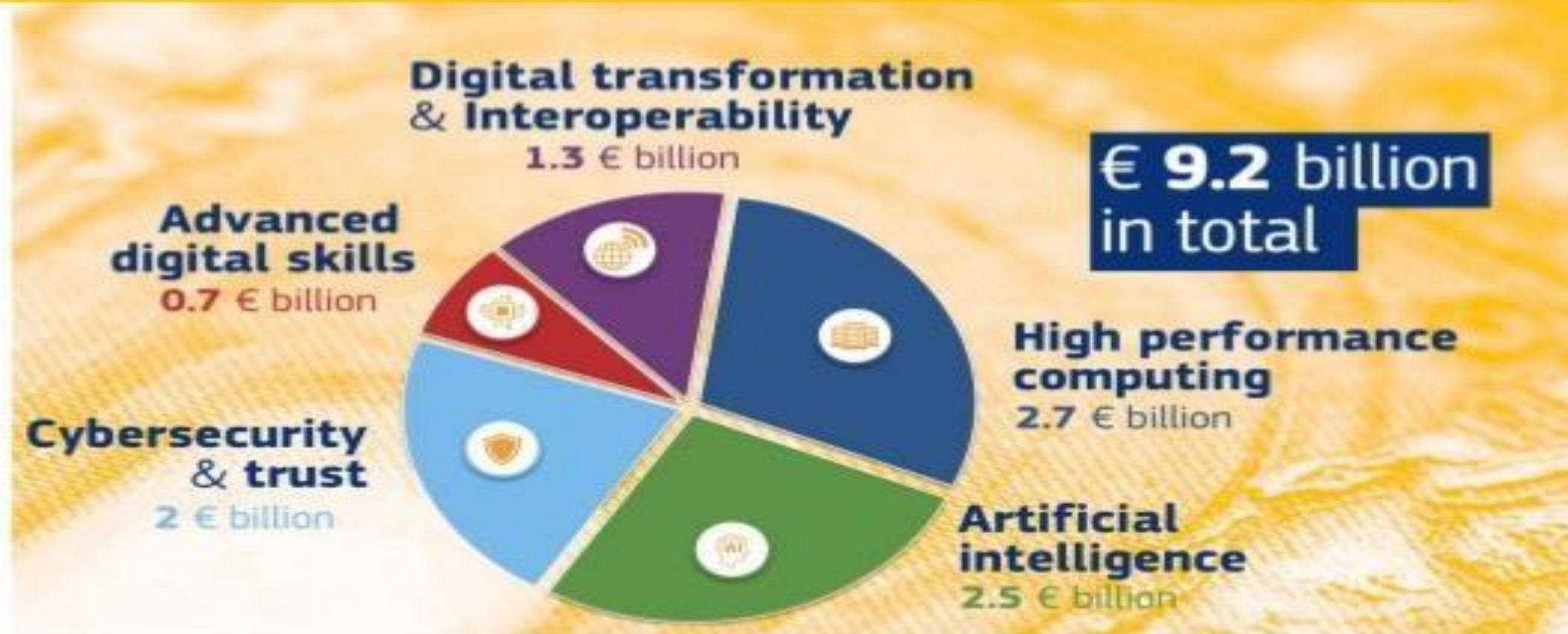
Mission Chairs and Boards and Mission Chairs nominated, to propose concrete missions to be supported in the next- MFF. Concept and mission proposals by end 2019/early 2020.

Strong Digital Component in all areas in particular:

- Health/Cancer
- Climate-Neutral and Smart-Cities
- Adaptation to Climate change including societal transformation

Digital Europe programme – what?

Reinforcing digital capacities. Ensuring their best use.

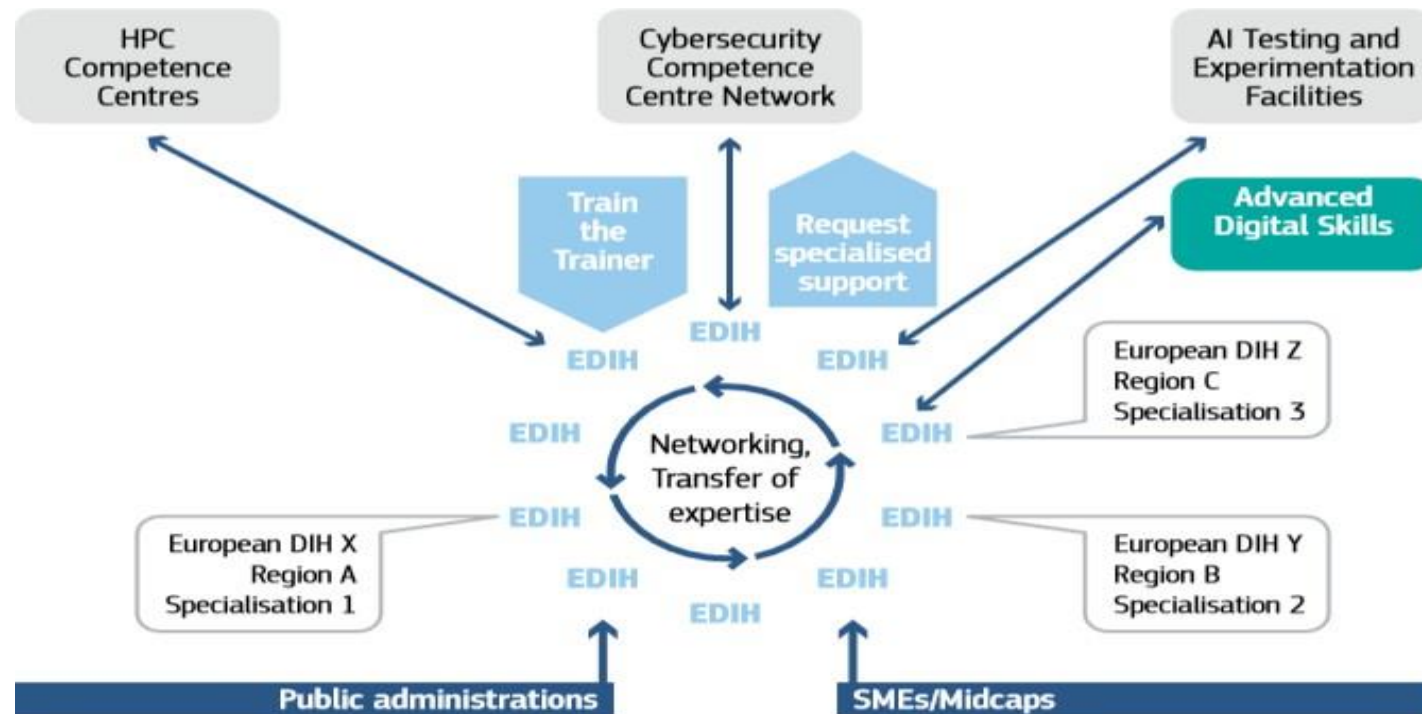


#EUBudget
#DigitalEurope

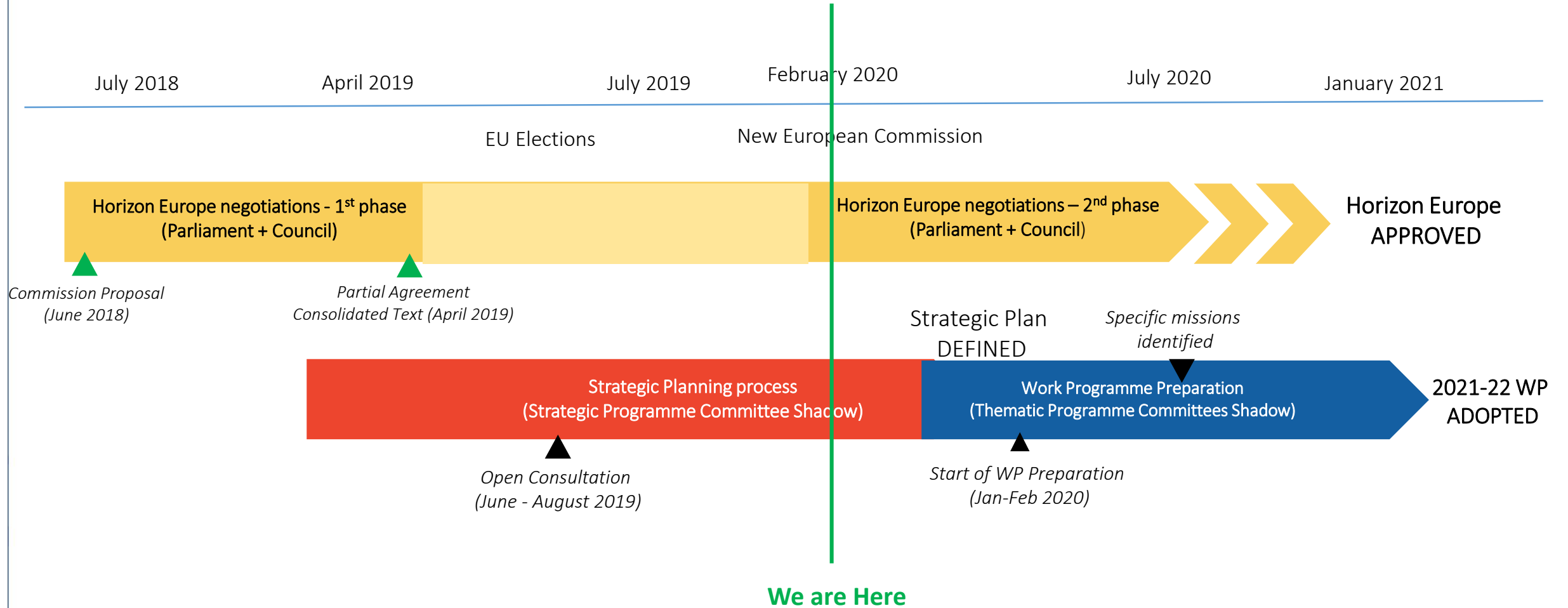
Accelerating the best use of technologies

European Digital Innovation Hubs

- *Set up of the initial network (first year)*
- *First network enlargement (second year)*



The evolution



Idealist Services



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[Brokerage events](#)



[Pre-proposal check & Full proposal review](#)



[Topic Tree](#)

www.ideal-ist.eu

Verso Horizon Europe (da settembre 2017)



Unico sito web in Italia dedicato a FP9. Contiene raccolta di notizie, informazioni e document su Horizon Europe

Lista eventi Verso Horizon Europe

- 7/11/18 **HE/Generale (Incontro con DG Paquet)** – Roma
- 26/11/19 **HE/Partenariati** – Torino
- 4/12/18 **HE/ERC** – Milano
- 31/1/19 **HE/Deep Tech** – Bruxelles
- 12/3/19 **HE/Missioni** – Ferrara
- 2/3/19 **HE/MSCA** – Padova
- 28/6/19 **HE/EIC** – Milano
- 24/10/19 Commission Workshop on **HE implementation** – Roma (co-organizzato MIUR)
- 30/10/19 **HE/Sinergie fondi diretti**– Firenze
- 4/3/20 **HE/Cluster** – Roma
- 16/4/20 **Ricerca fondamentale e innovazione** - Pisa
- Previsto prima metà 2020 **HE/Sinergie fondi strutturali** – Napoli/Catania (tbc)

Thank you for your attention!

Marta Calderaro

EU Horizon 2020 – National Contact Point Information and Communication Technologies
EU Horizon 2020 – National Contact Point Future and Emerging Technologies

calderaro@apre.it



www.apre.it

