



# APRE

Agenzia per la Promozione  
della Ricerca Europea

# Opportunità in

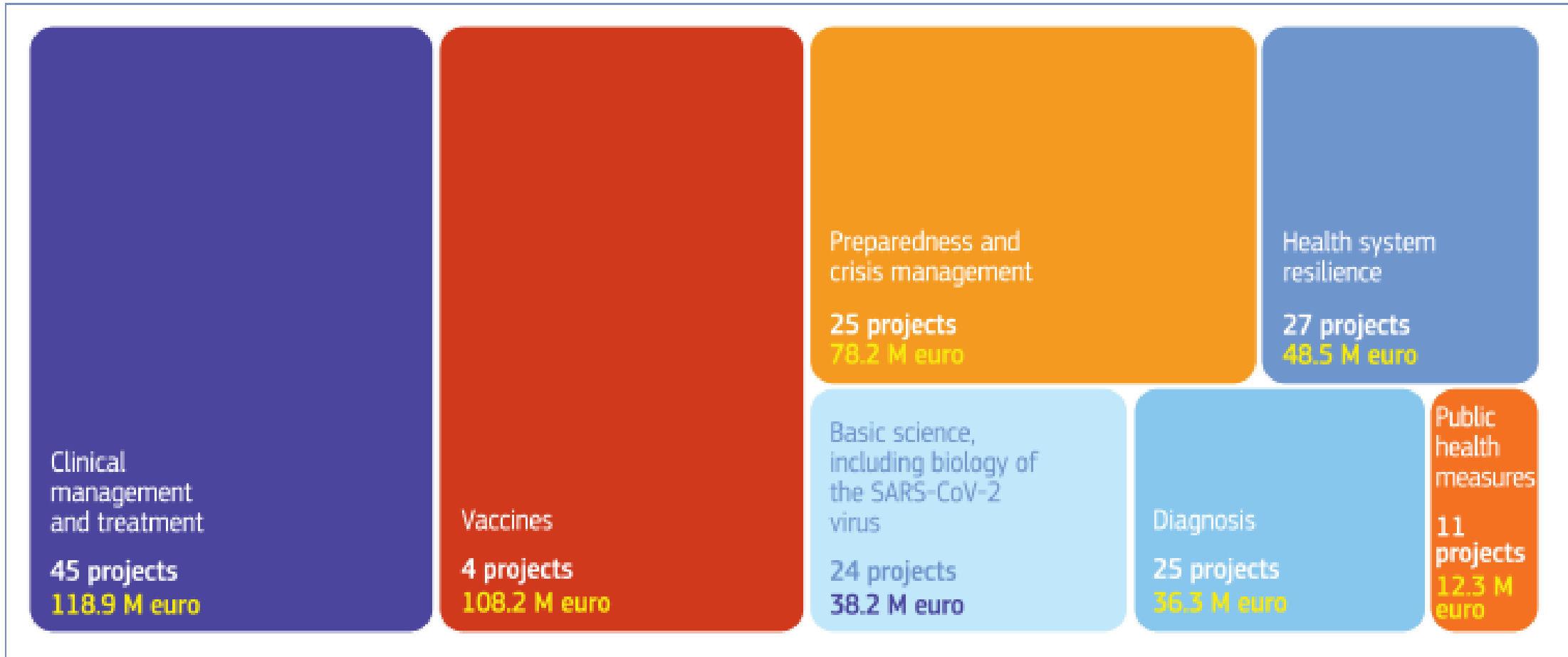
# Horizon Europe (2021- 2027)

GTTI, 6 Novembre 2020

Marta Calderaro



# Distribution of COVID-19 Horizon 2020 projects according to major needs by EU financial contribution (million euro)





## Some Objectives

### European Research Area (ERA) corona platform

- ❏ **Improving epidemiology and public health, including our preparedness and response to outbreaks.** These projects will help develop better monitoring systems in order to effectively prevent and control the spread of the virus, as well as contribute to the assessment of social dynamics.
- ❏ **Medical technologies, Digital tools and Artificial Intelligence analytics to improve surveillance and care at high Technology Readiness Levels (€55.2 million).** This includes the development of new devices for faster, cheaper and easier diagnosis, often using AI; telemedicine and AI to diagnose and treat people more safely and remotely; new technologies to protect healthcare workers; intensive care and telemedicine; innovation hubs with open call to address and test rapidly emerging ideas.
- ❏ **Behavioural, social and economic impacts of the outbreak responses (€28 million),** for instance in depth analysis of responses at the levels of government, public health, community, and information and communications and evaluation of promising approaches; and by examining the dynamics of the outbreak to map and analyse unintended impacts, including on mental health, develop solutions and inclusive guidance for policymakers and health authorities and enhance Europe's preparedness for future similar events.

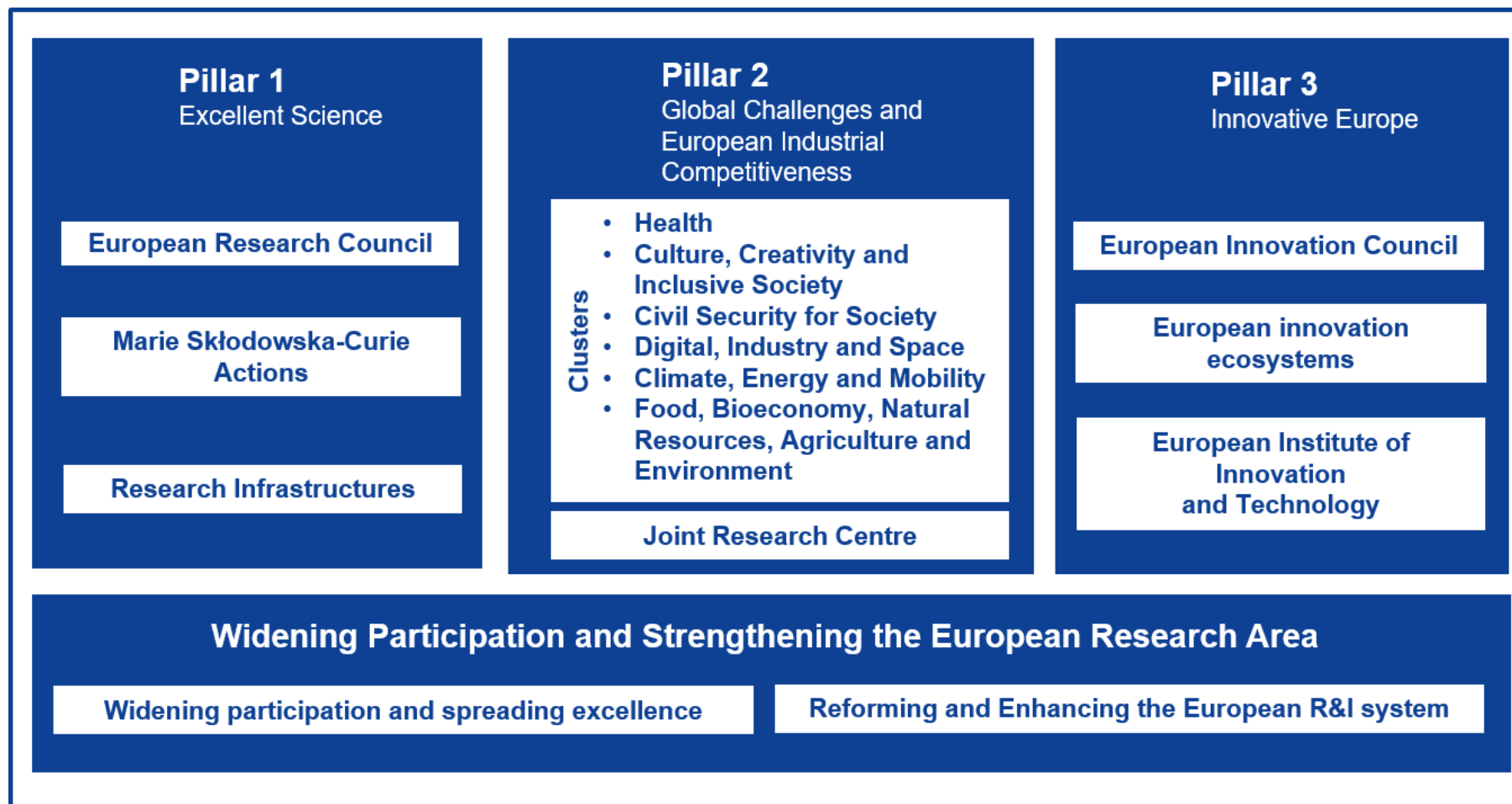


# Examples of funded projects

<b>PREPAREDNESS AND RESPONSE – Total EU funding: € 19.1 million</b>			
<b>I-MOVE-COVID-19</b> Multidisciplinary European network for research, prevention and control of the COVID-19 Pandemic	To obtain epidemiological, clinical and virological information on coronavirus and infected patients through the I-MOVE surveillance network spanning 11 countries.	Epiconcept (FR) <a href="#">Project details</a> <a href="#">Website</a>	25 partners: AL, DE, ES(5), FR(5), IE, LT, NL(2), PT(2), RO, SE, UK(5)
<b>RECOVER</b> Rapid European COVID-19 Emergency research Response	To gather comprehensive data from clinical and epidemiological studies to strengthen Europe's clinical research preparedness for future emerging infectious diseases.	Universiteit Antwerpen (BE) <a href="#">Project details</a> <a href="#">Website</a>	11 partners: BE(2), CN, DE, FR(2), IT, NL(3), UK
<b>HERoS</b> Health Emergency Response in Interconnected Systems	To improve the effectiveness and efficiency of the response to coronavirus outbreak by providing guidelines for improved crisis governance.	Svenska handelshögskolan (FI) <a href="#">Project details</a> <a href="#">Website</a>	11 partners: FR, FI(2), IT, NL(2), PL(3), UK, US
<b>EpiPose</b> Epidemic intelligence to minimize 2019-nCoV's public health, economic and social impact in Europe	To understand epidemiological characteristics COVID-19, social dynamics of the outbreak, public health preparedness and response, and assess economic impact.	Universiteit Hasselt (BE) <a href="#">Project details</a> <a href="#">Website</a>	6 partners: BE(2), CH, IT, NL, UK









# Digital in Horizon Europe





# ELEMENTI DI NOVITA'

## Lezioni apprese dalla valutazione intermedia di Horizon 2020

-  Sostenere le innovazioni pionieristiche
-  Moltiplicare l'impatto attraverso un approccio orientato alle missioni e il coinvolgimento dei cittadini
-  Intensificare la cooperazione internazionale
-  Rafforzare l'apertura
-  Razionalizzare il panorama dei finanziamenti
-  Incoraggiare la partecipazione

## Novità principali di Horizon Europe

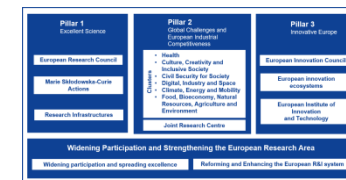
- Consiglio europeo per l'innovazione
- Missioni di R&I
- Possibilità di associazione estese
- Politica della scienza aperta
- Nuovo approccio ai partenariati
- Diffondere l'eccellenza





# Clusters in 'Global Challenges and European Industrial Competitiveness'

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





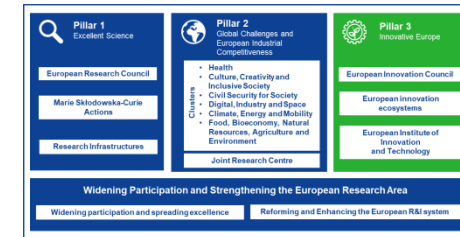
## Cluster 4 - Destinations

- 🏠 Climate neutral, circular and digitised production
- 🏠 A digitised, resource-efficient and resilient industry
- 🏠 World leading data and computing technologies
- 🏠 Digital and emerging technologies for competitiveness and fit for the green deal
- 🏠 Strategic autonomy in developing, deploying and using global space-based infrastructures
- 🏠 A human-centred and ethical development of digital and industrial technologies





## Consiglio europeo per l'innovazione



Sostegno alle innovazioni pionieristiche e dirompenti e al potenziale di espansione dei progetti che sono troppo rischiosi per gli investitori privati (*il 70 % del bilancio è destinato alle PMI*)

**Consiglio europeo per l'innovazione – uno sportello unico**

**Aiutare gli innovatori a creare i mercati del futuro, mobilitare fondi privati e sviluppare le loro imprese**

**Progetti incentrati sull'innovazione, snelli ed inclini ad assumere rischi, gestione e seguito proattivi**

Due strumenti complementari colmano il divario tra l'idea e il progetto investibile

**Pathfinder: sovvenzioni** (dalla tecnologia in fase iniziale alla fase pre-commerciale)

**Accelerator: solo sovvenzioni & finanziamenti misti** (dalla fase pre-commerciale alla fase di mercato ed espansione)



## References

- ↗ Horizon Europe: [https://ec.europa.eu/info/horizon-europe\\_en](https://ec.europa.eu/info/horizon-europe_en)
- ↗ European Innovation Council: <https://ec.europa.eu/research/eic/>
- ↗ Conferenza APRE: [www.aprecon2020.it](http://www.aprecon2020.it)
- ↗ Factsheets Progetti finanziati COVID-19:  
[https://ec.europa.eu/info/sites/info/files/research\\_and\\_innovation/research\\_by\\_area/documents/ec\\_rtd\\_coronavirus-new-research-projects.pdf](https://ec.europa.eu/info/sites/info/files/research_and_innovation/research_by_area/documents/ec_rtd_coronavirus-new-research-projects.pdf)
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- ↗ Corona Platform <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/covid-19>



# GRAZIE PER L'ATTENZIONE!

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