



Horizon Europe

EuroHPC Webinar | November 2024

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Digital and Industrial Technologies



Agenda

- › Horizon Europe
- › EuroHPC
- › Q&A

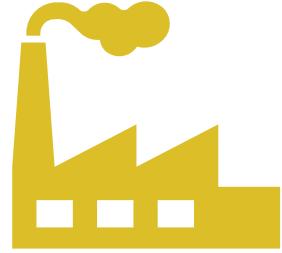




Horizon Europe European Framework Programme

What is Horizon Europe?

- EU's main funding instrument for R&D (since 1984)
- Covering all major scientific and technological disciplines
- Targeting the major European industrial sectors



Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
PROGRAMME (2021 – 2027)



Horizon Europe Main Goals:

- Solve Global challenges with R&I
- Grow a competitive industry
- Create new markets & jobs
- Lead world scientific research



27 Member States (MS)

	Austria (AT)		France (FR)		Malta (MT)
	Belgium (BE)		Germany (DE)		Netherlands (NL)
	Bulgaria (BG)		Greece (GR/EL)		Poland (PL)
	Croatia (HR)		Hungary (HU)		Portugal (PT)
	Cyprus (CY)		Ireland (IE)		Romania (RO)
	Czech Republic (CZ)		Italy (IT)		Slovakia (SK)
	Denmark (DK)		Latvia (LV)		Slovenia (SI)
	Estonia (EE)		Lithuania (LT)		Spain (ES)
	Finland (FI)		Luxembourg (LU)		Sweden (SE)

19 Associated Countries (AC)

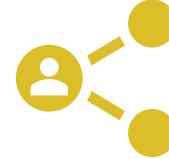
	Albania (AL)		Montenegro (ME)
	Armenia (AM)		New Zealand (NZ) *
	Bosnia and Herzegovina (BA)		North Macedonia (MK)
	Canada (CA) *		Norway (NO)
	Faroe Islands (FO)		Serbia (RS)
	Georgia (GE)		Tunisia (TN)
	Iceland (IS)		Turkey (TR)
	Israel (IL)		Ukraine (UA)
	Kosovo (XK)		United Kingdom (UK)
	Moldova (MD)		

Participating countries list

* only participates in Pillar 2

I
S
E
R
D

ISERD - Israel Europe R&I Directorate



Promote Israeli participation

Represent Israel in EC committees

National Contact Point



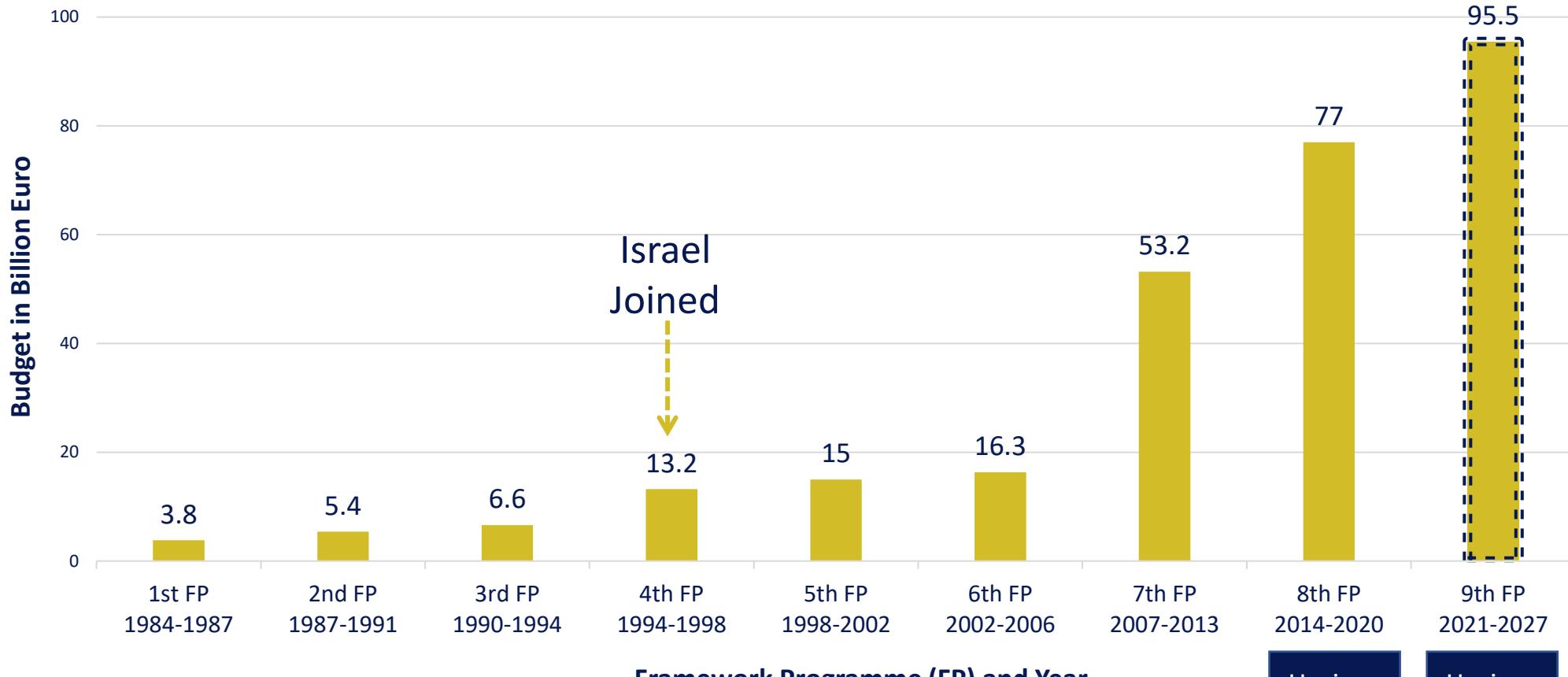
Information dissemination

Guide and support applicants



Main goal - maximizing Israel's benefits from Horizon EU

L Progression of FP Budgets Over Time R





Main Types of Action

Action	Funding*	Main Characteristics
RIA – Research & Innovation Action	100% + 25%	Basic and applied research, technology development and integration, testing, demonstration and validation on small-scale prototype in laboratory or simulated environment
IA – Innovation Action	70% + 25%	Prototyping, testing, demonstrating, piloting, large-scale product validation and market replication
CSA - Coordination & Support Action	100% + 25%	Networking, coordination or support services, policy dialogues and mutual learning exercises and studies

* Non profit – always 100%



Pillar 1 Excellent Science 25 B€

European Research Council

16 B€

Marie Skłodowska-Curie
Actions

6.6 B€

Research Infrastructures

2.4 B€



Pillar 2 Global Challenges and European Industrial Competitiveness 53.5 B€

Clusters

- Health 8.2
- Culture, Creativity and Inclusive Society 2.3
- Civil Security for Society 1.6
- Digital, Industry and Space 15.3
- Climate, Energy and Mobility 15.1
- Food, Bioeconomy, Natural Resources, Agriculture and Environment 9

Joint Research Centre

2



Pillar 3 Innovative Europe 13.6 B€

European Innovation Council

10.1 B€

European innovation
ecosystems

0.5 B€

European Institute of
Innovation
and Technology

3 B€

Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence

2.9 B€

Reforming and Enhancing the European R&I system

0.4 B€

Sections - Cluster 4 – TBC

DESTINATION 1 – TWIN-TRANSITION

Green manufacturing

Digital manufacturing

Construction

Decarbonisation and
Energy Efficiency

Circularity and Zero
Pollution

DESTINATION 2 – MATERIALS

Raw materials

Innovative Advanced
materials

Safe and sustainable by
design

Textiles

DESTINATION 3 – DATA

Connected
Collaborative
Computing Networks

AI-GenAI / Data /
Robotics

DESTINATION 4 – DIGITAL- EMERGING

Quantum and High-
Performance
Computing

2-Dimensional
Material/Graphen

Photonics

AI-GenAI / Data /
Robotics

Artificial Intelligence in
Science

DESTINATION 6 – HUMAN

Virtual Worlds

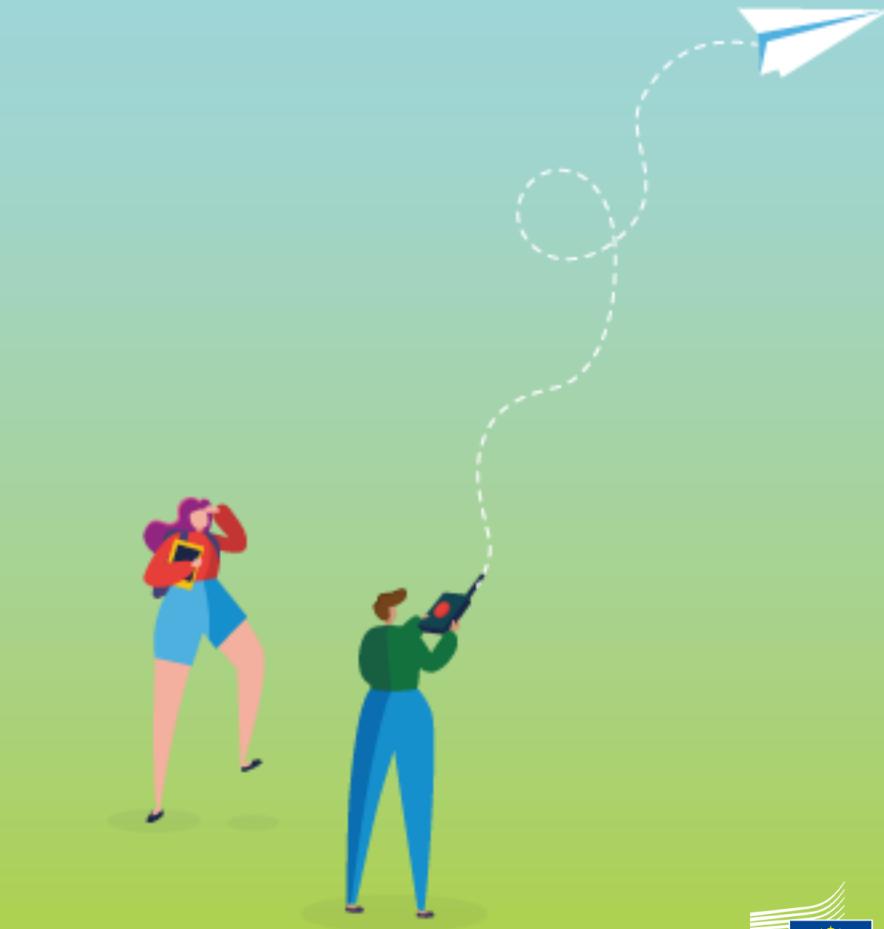
AI-GenAI / Data /
Robotics

Standardisation and
Knowledge Valorisation

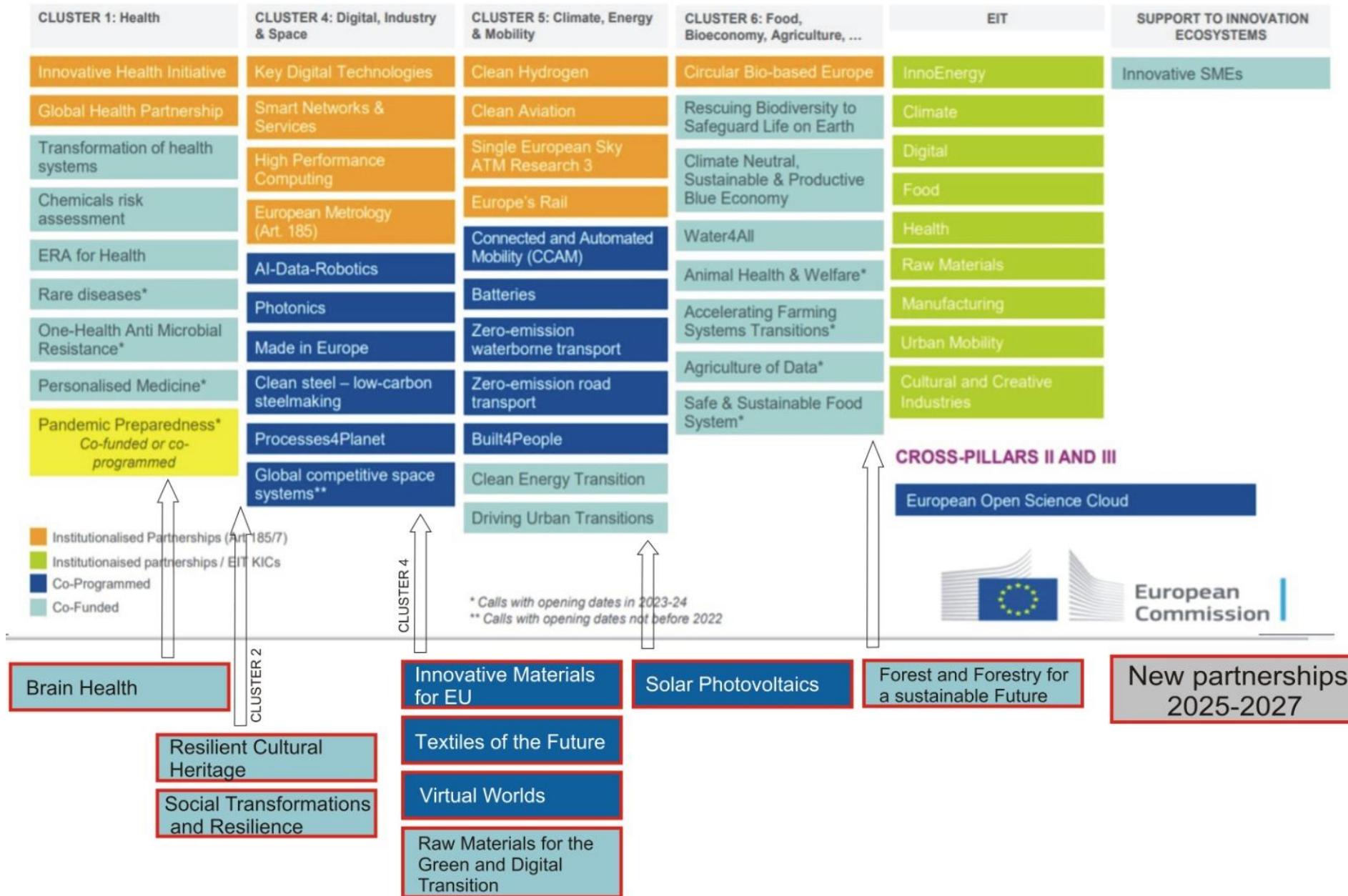
International
Cooperation
(Semiconductors)

Partnerships

- Additional funding opportunities
- Strong networks
- Influence future calls



PILLAR II - Global challenges & European industrial competitiveness



PILLAR III - Innovative Europe



THANK YOU

**INNOVATION
BREAKS BOUNDARIES**

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