

NCBR 

Krajowy Punkt Kontaktowy
Programów Badawczych UE

Horizon Europe for energy storage technologies



30. – 31. 05. 2023

Let's meet on B2Match

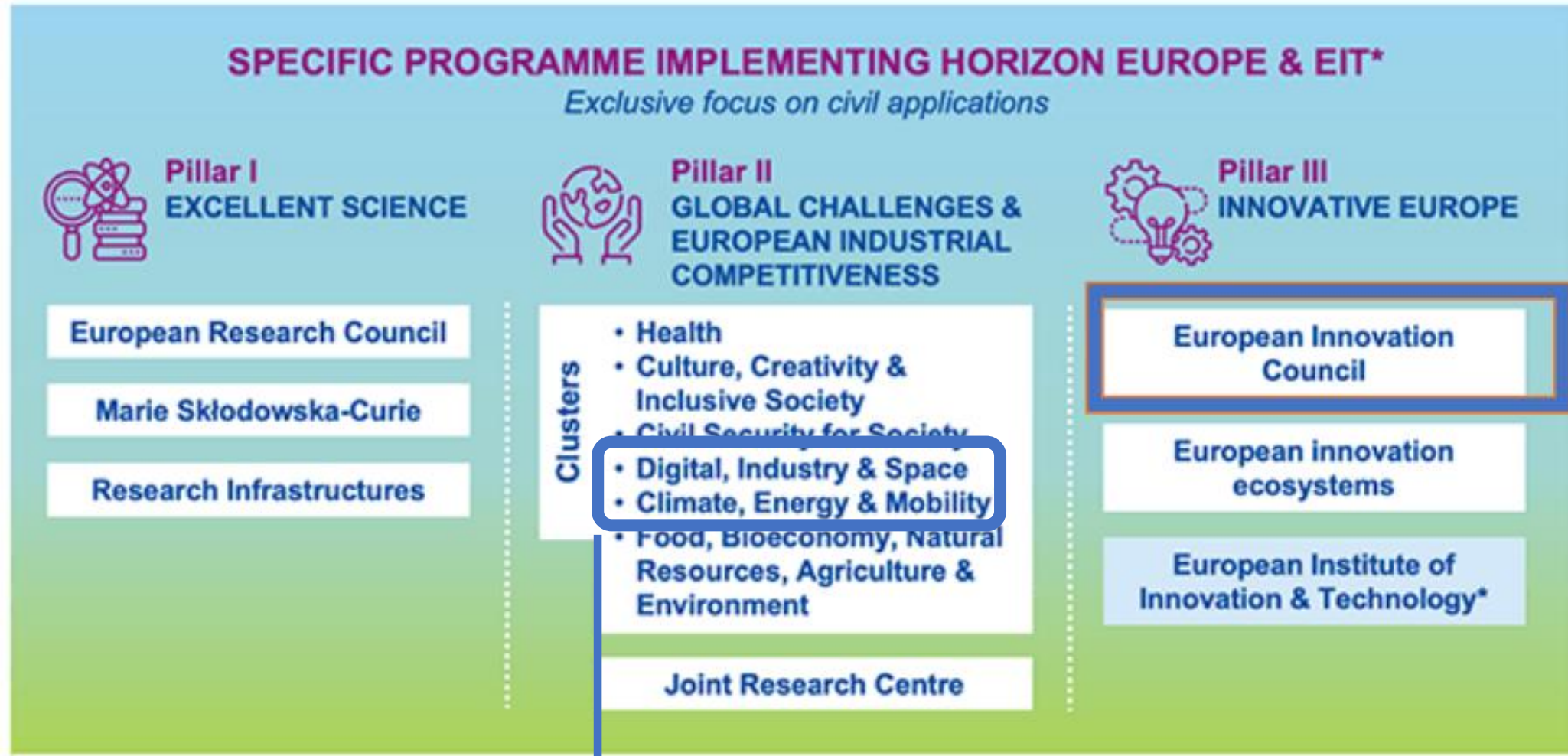
New Energy Technology Mixer

Horizon Europe 2023 - 2024 Matchmaking

Accelerating development of new technologies in RES, smart grids, bio and e-fuels, energy storage and more.

Find your R&I project partners!

Energy storage technologies in Framework Program Horizon Europe (FP HE)



clusters (4,5)
partnerships



RePowerEU for Horizon Europe (Cluster 5)

Buildings

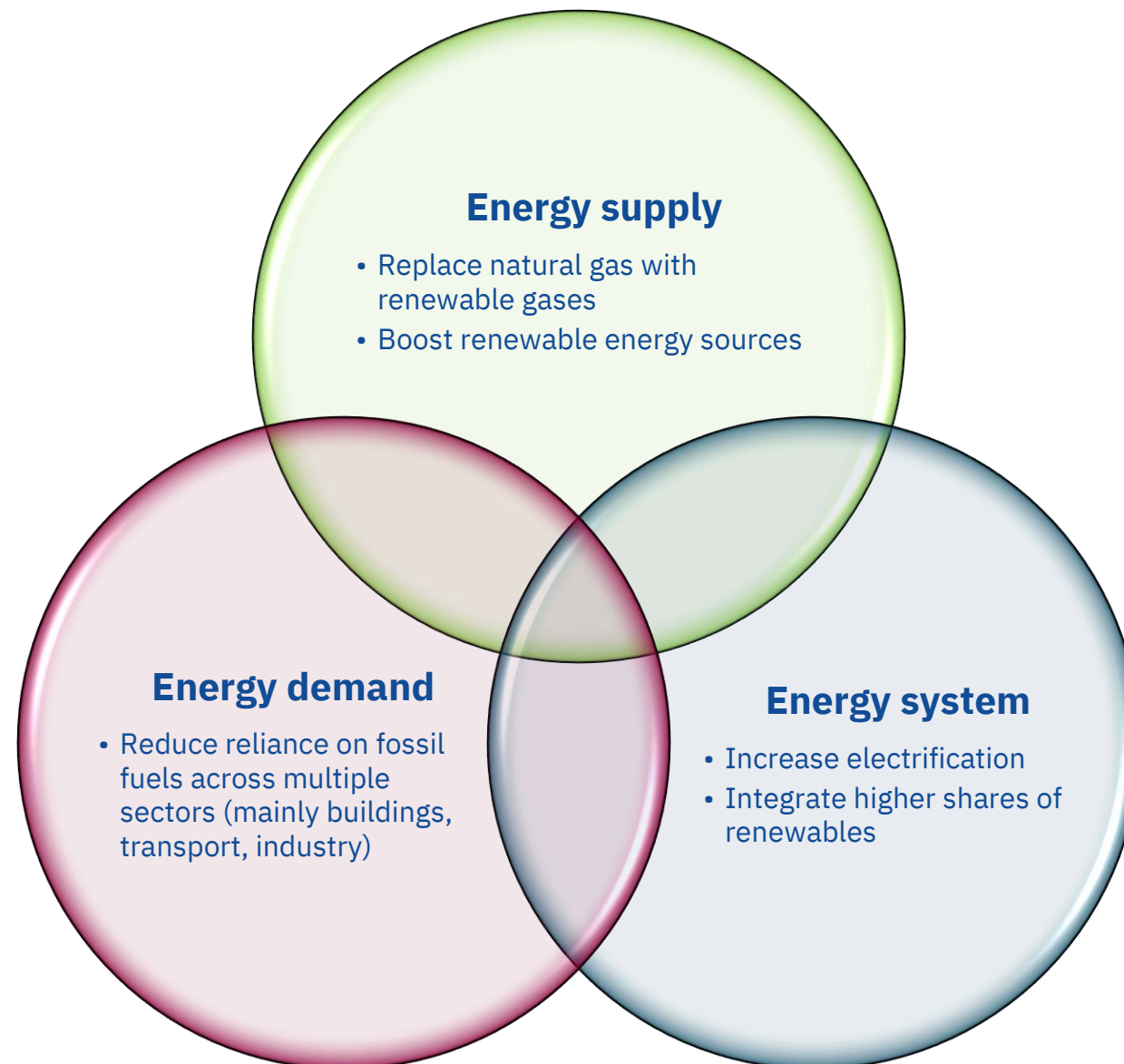
- 68 M€ on energy efficient and clean energy buildings

Transport

- Road transport: 185 M€ on electric vehicles
- 65 M€ on more performant batteries for electric vehicles
- Aviation: 37 M€ on hydrogen/electric aviation
- Waterborne: 65 M€ on alternative fuels/electric powertrains
- Logistics: 45 M€ on less traffic thanks to more efficient logistics

Industry

- 36 M€ on energy savings in industry



250M€ for activities addressing (also) hydrogen

Almost 600 M€ for more performant and cheaper renewable energy sources:

- 214 M€ for solar and wind energy
- 103 M€ for renewable fuels
- 183 M€ for other renewable solutions
- 30 M€ for renewable energy valleys
- 67 M€ for cross-cutting actions

- 276 M€ for making the energy system more flexible and resilient (including **storage solutions** and digitisation of energy system)
- 42 M€ on batteries for stationary energy storage


selected calls for energy storage in FP HE
cluster 5, destination 2

opening date 04.05.2023 - deadline 05.09.2023		#	€mln
HORIZON-CL5-2023-D2-02-01	Advanced materials and cells development enabling large-scale production of Gen4 solid-state batteries for mobility applications (Batt4EU Partnership)	IA 3	24
HORIZON-CL5-2023-D2-02-02	New Approaches to Develop Enhanced Safety Materials for Gen 3 Li-Ion Batteries for Mobility Applications (Batt4EU Partnership)	RIA 2	10
HORIZON-CL5-2023-D2-02-03	Creating a digital passport to track battery materials, optimize battery performance and life, validate recycling, and promote a new business model based on data sharing (Batt4EU Partnership)	IA 1	8

selected calls for energy storage in FP HE cluster 5, destination 2

opening date 07.12.2023 - deadline 18.04.2024			#	€mln
<u>HORIZON-CL5-2024-D2-01-01</u>	Advanced sustainable and safe pre-processing technologies for End-of-Life (EoL) battery recycling (Batt4EU Partnership)	RIA	3	21
<u>HORIZON-CL5-2024-D2-01-02</u>	Non-Li Sustainable Batteries with European Supply Chains for Stationary Storage (Batt4EU Partnership)	IA	3	21
<u>HORIZON-CL5-2024-D2-01-03</u>	Development of technical and business solutions to optimise the circularity, resilience, and sustainability of the European battery value chain (Batt4EU Partnership)	RIA	1	5
opening date 07.05.2024 - deadline 05.09.2024				
<u>HORIZON-CL5-2024-D2-02-01</u>	Sustainable high-throughput production processes for stable lithium metal anodes for next generation batteries (Batt4EU Partnership)	IA	1	8
<u>HORIZON-CL5-2024-D2-02-02</u>	Post-Li-ion technologies and relevant manufacturing techniques for mobility applications (Generation 5) (Batt4EU Partnership)	RIA	3	15
<u>HORIZON-CL5-2024-D2-02-03</u>	Size & weight reduction of cell and packaging of batteries system, integrating lightweight and functional materials, innovative thermal management and safe and sustainable by design approach (Batt4EU Partnership)	IA	2	16

selected calls for energy storage in FP HE
cluster 5, destinations 3 & 5

opening date 12.09.2023 - deadline 16.01.2024		#	€mln
HORIZON-CL5-2024-D3-01-16	Demonstration of innovative pumped storage equipment and tools in combination with innovative storage management systems	IA 1	8
opening date 07.12.2023 - deadline 18.04.2024			
HORIZON-CL5-2024-D5-01-03	Advanced battery system integration for next generation vehicles	RIA 2	10
HORIZON-CL5-2024-D5-01-04	Integrated flexible multipoint megawatt charging systems for electric truck mass deployment	IA 2	17
HORIZON-CL5-2024-D5-01-05	Advanced digital development tools to accelerate the development of software defined vehicles that enable zero-emission mobility	RIA 2	10

energy storage in european partnerships



EIC Programs

Pathfinder (TRL1-4)

- For consortia (open and challenge calls) and single entities (challenge call)
- Early stage research on breakthrough technologies
- Grants up to €3/4 million

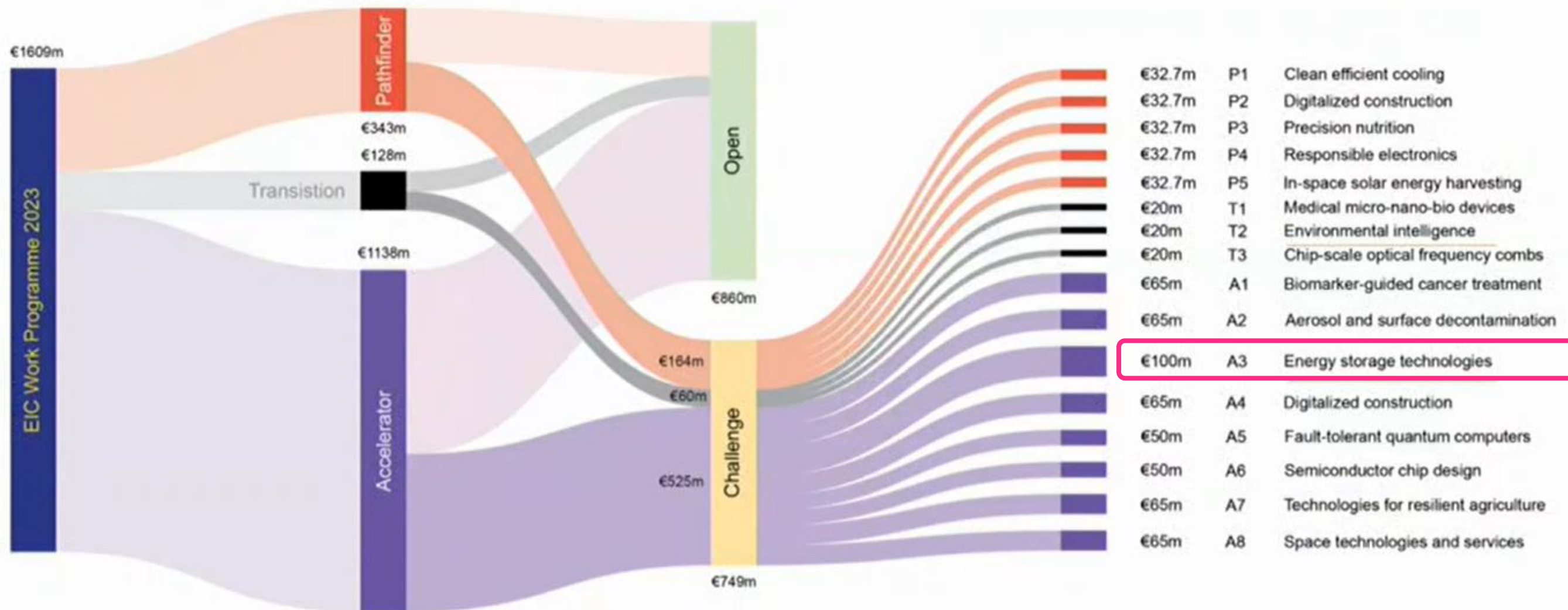
Transition (TRL 4-6)

- For consortia and single entities
- Technology maturation from proof of concept to validation
- Business & market readiness
- Grants up to €2.5 million

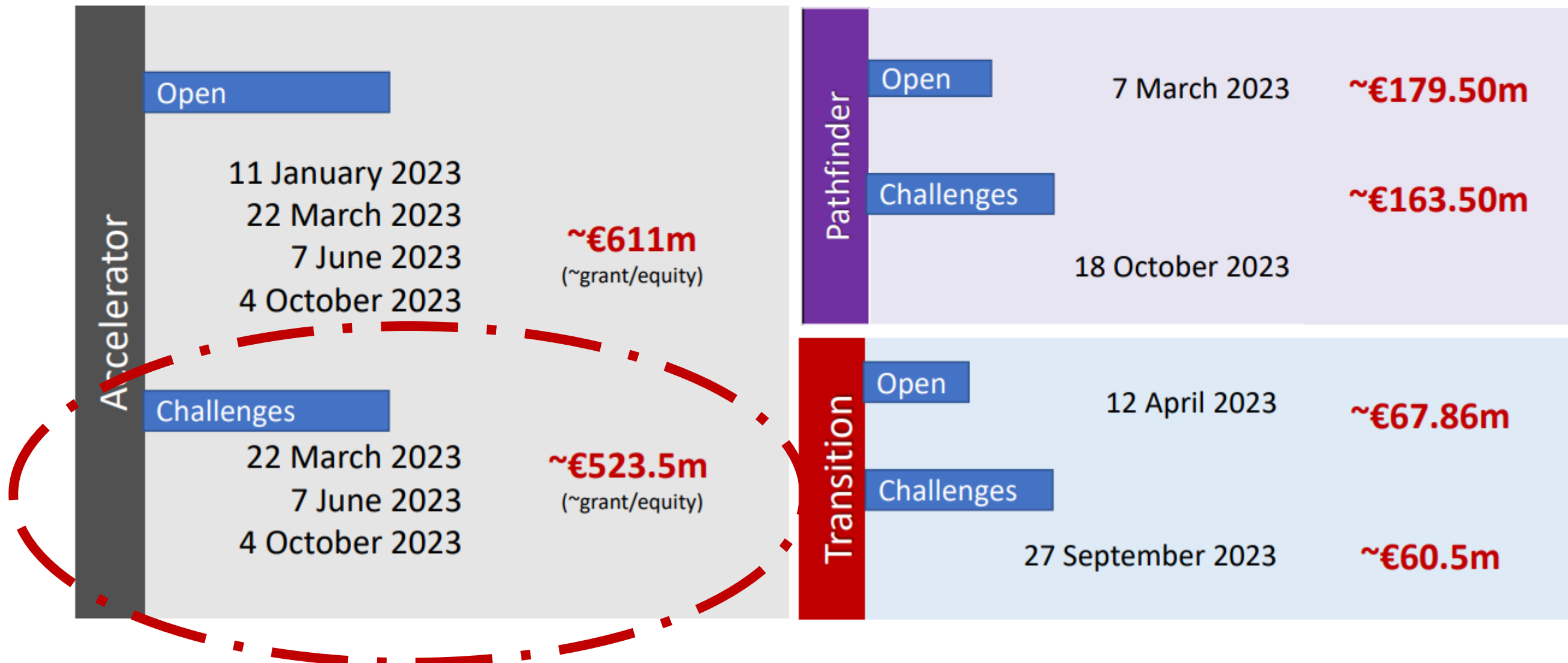
Accelerator (TRL 6-9)

- For individual SMEs
- Development & scale up of deep-tech/ disruptive innovations by startups/ SMEs
- Blended finance (grants up to €2.5 million; equity investment up to €15 million or above)

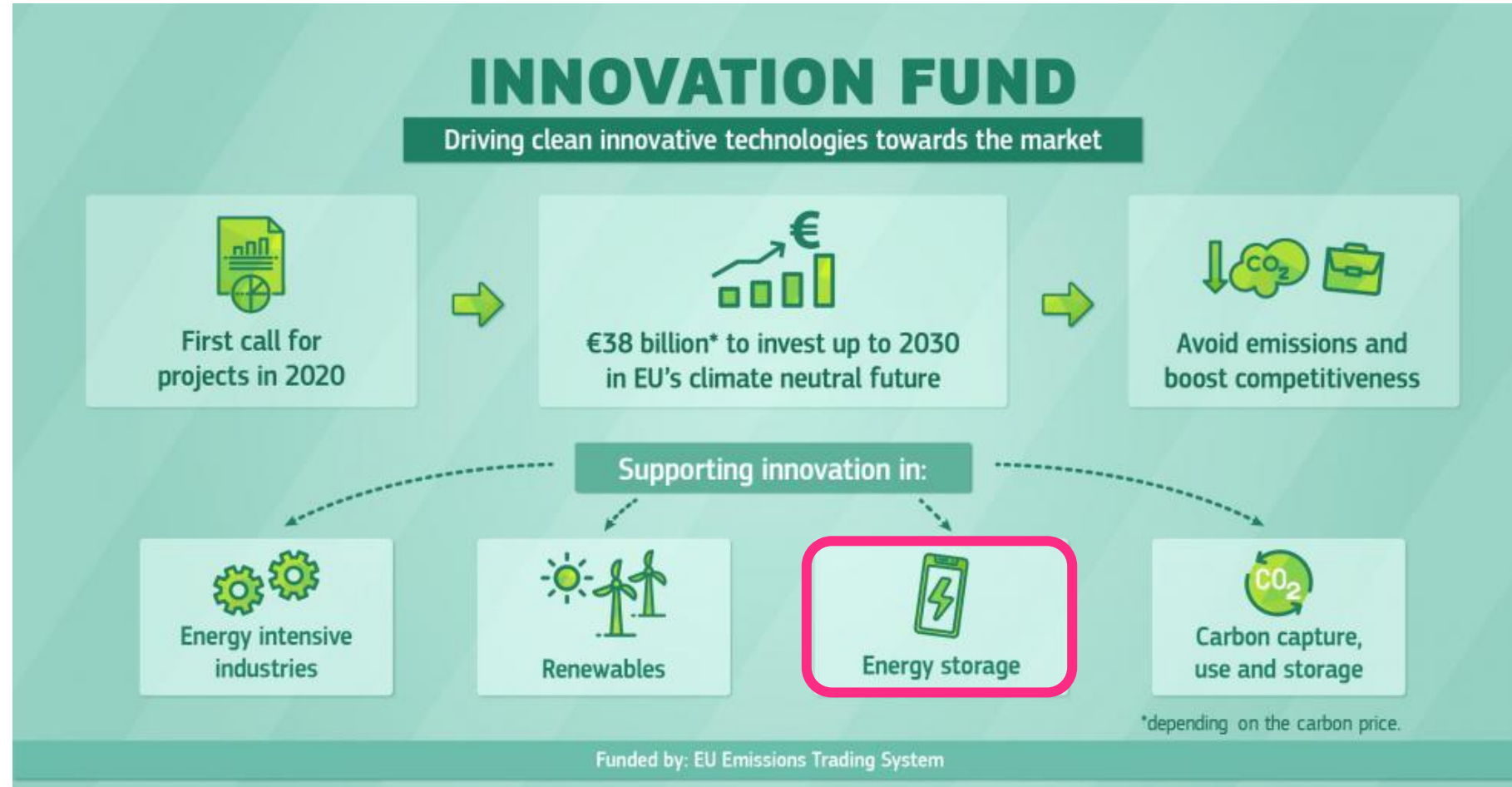
In 2023 EIC allocates ~€1.6bn to Open and Challenge calls by its Pathfinder, Transition, Accelerator programs



EIC WP 2023 deadlines and budgets



Energy storage in other EU programs



[More here](#)

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Let's meet at the New Energy
Technology Mixer [here](#)

Karolina.Janiak@ncbr.gov.pl
+48 502 572 902



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