

NCBR 

Krajowy Punkt Kontaktowy
Programów Badawczych UE

Horizon Europe for solar energy technologies



30. – 31. 05. 2023

Let's meet on B2Match

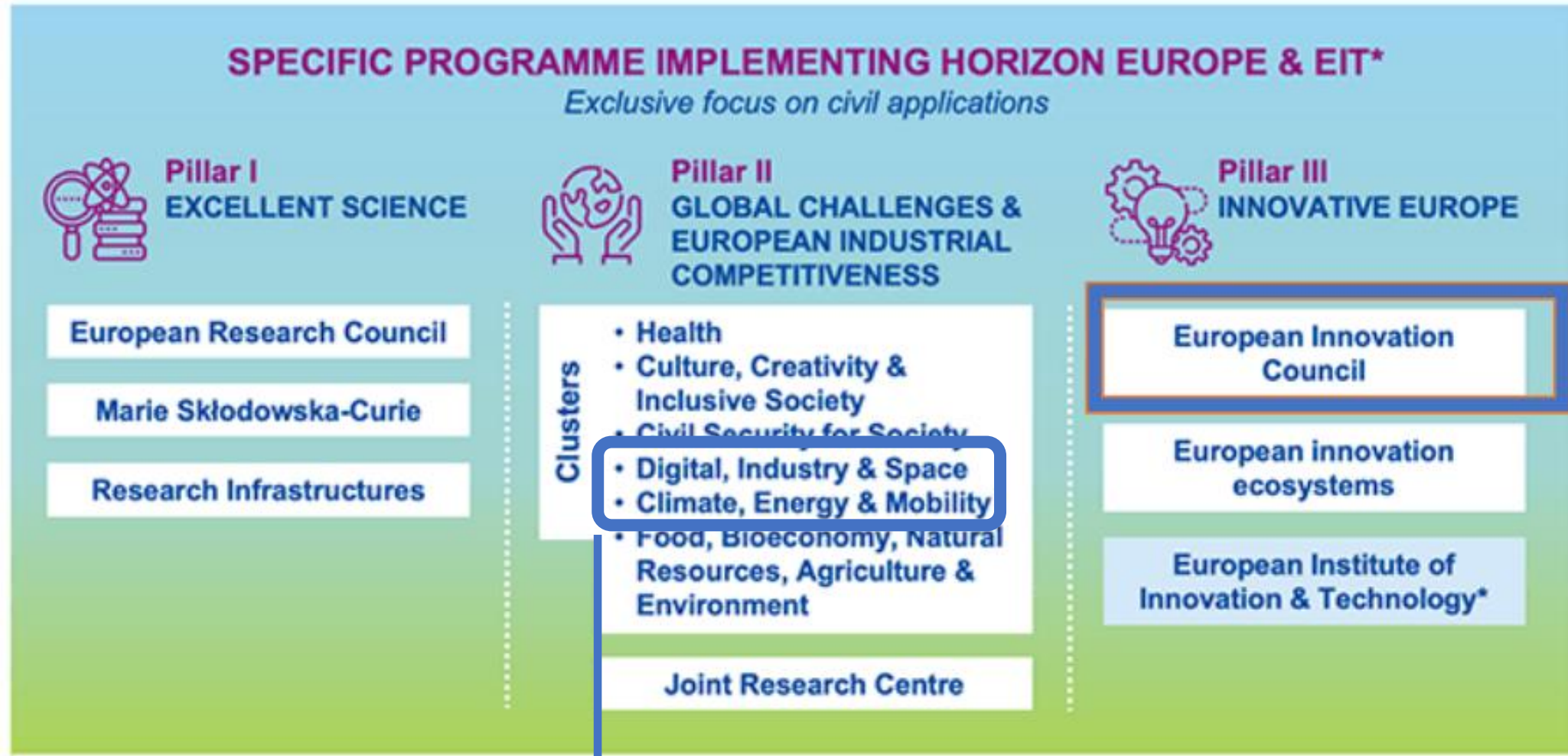
New Energy Technology Mixer

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!

Solar energy technologies in Framework Program Horizon Europe (FP HE)



clusters (4,5)
partnerships



RePowerEU for Horizon Europe (Cluster 5)

Buildings

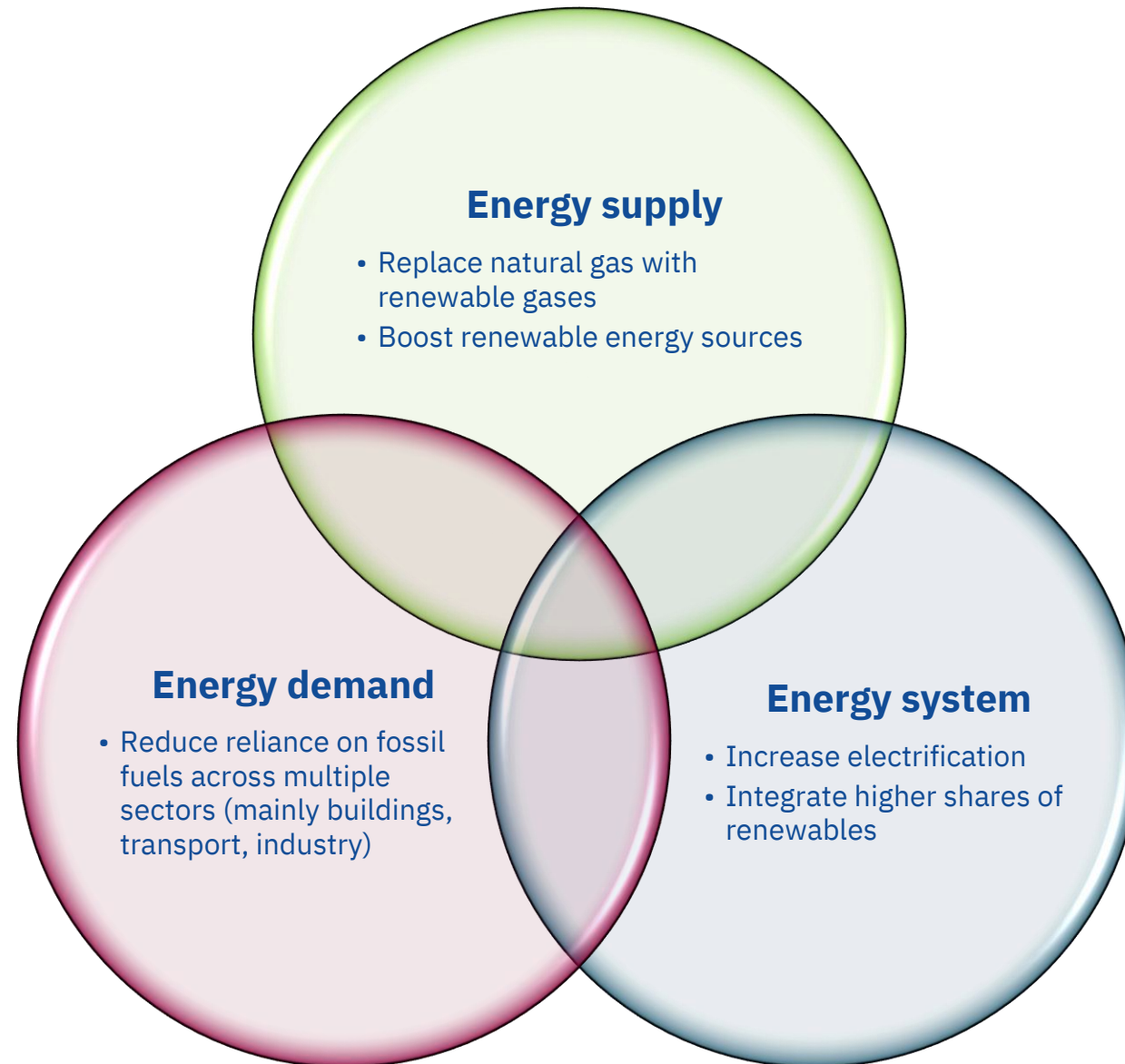
- 68 M€ on energy efficient and clean energy buildings

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

Destination 3

Sustainable, secure and competitive energy supply

- Global leadership in renewable energy – **Solar thermal energy**

opening date 04 May 2023 - deadline 05 September 2023

€mIn

<u>HORIZON-CL5-2023-D3-02-02</u>	Novel thermal energy storage for CSP	RIA	2	5
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<u>HORIZON-CL5-2023-D3-02-03</u>	Industrial manufacturing for lower-cost solar thermal components and systems	IA	2	6
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opening date 17 September 2024 - deadline 21 January 2025

<u>HORIZON-CL5-2024-D3-02-01</u>	Digital tools for CSP and solar thermal plants	IA	2	6
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ADVANCED MATERIALS SOLUTIONS FOR NEXT
GENERATION HIGH EFFICIENCY CONCENTRATED
SOLAR POWER (CSP) TOWER SYSTEMS

Destination 3

Sustainable, secure and competitive energy supply

- Global leadership in renewable energy **Solar PV Energy (2023)**

opening date 04 May 2023 - deadline 05 September 2023

€mln

<u>HORIZON-CL5-2023-D3-02-11</u>	Advanced concepts for crystalline Silicon technology	RIA	3	9
<u>HORIZON-CL5-2023-D3-02-12</u>	Large Area Perovskite solar cells and modules	IA	2	14
<u>HORIZON-CL5-2023-D3-02-13</u>	Operation, Performance and Maintenance of PV Systems	IA	2	10

Destination 3

Sustainable, secure and competitive energy supply

- Global leadership in renewable energy **Solar PV Energy (2024)**

opening date 12 September 2023 - deadline 16 January 2024

HORIZON-CL5-2024-D3-01-01	Alternative equipment and processes for advanced manufacturing of PV technologies	IA	2	24
HORIZON-CL5-2024-D3-01-02	Low-power PV	IA	2	6

opening date 17 September 2024 - deadline 21 January 2025

HORIZON-CL5-2024-D3-02-05	PV-integrated electric mobility applications	IA	2	14
HORIZON-CL5-2024-D3-02-06	Innovative, Community-Integrated PV systems	IA	2	10
HORIZON-CL5-2024-D3-02-07	Resource Efficiency of PV in Production, Use and Disposal	CSA	1	3

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)

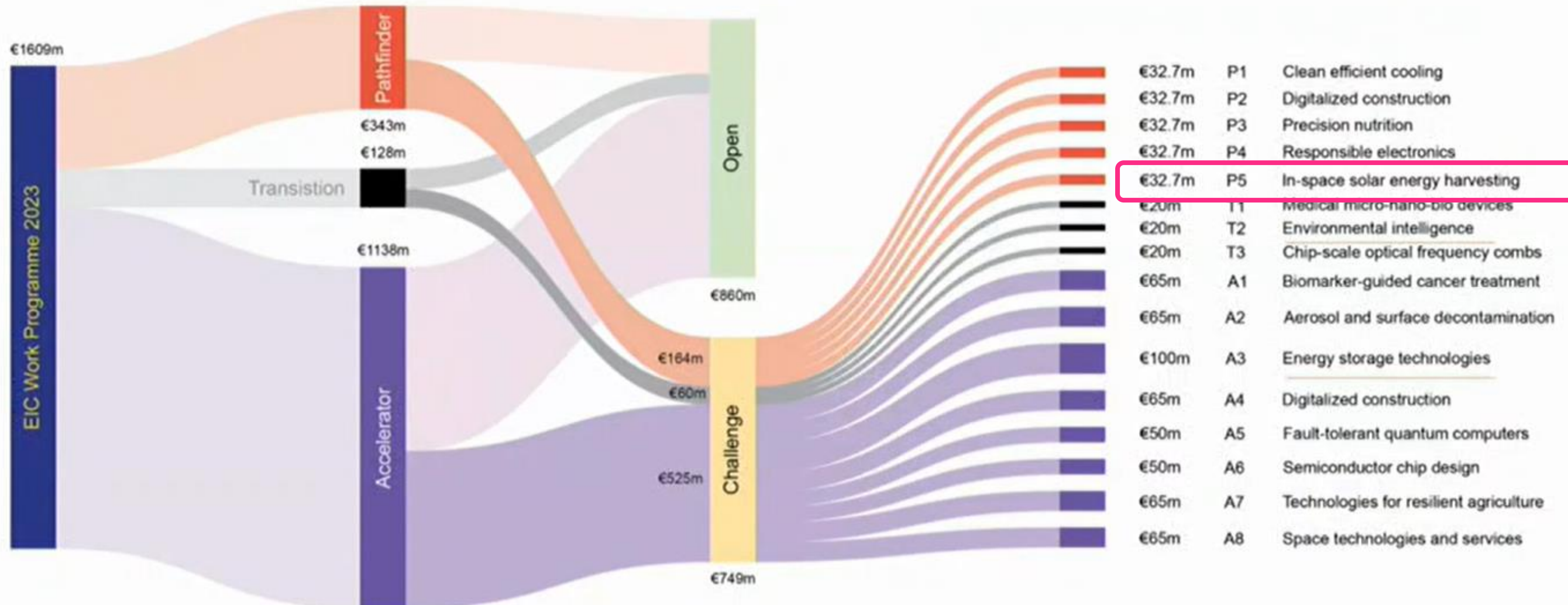
- For consortia and single entities
- Technology maturation from proof of concept to validation
- Business & market readiness
- Grants up to €2.5 million

Accelerator (TRL 6-9)

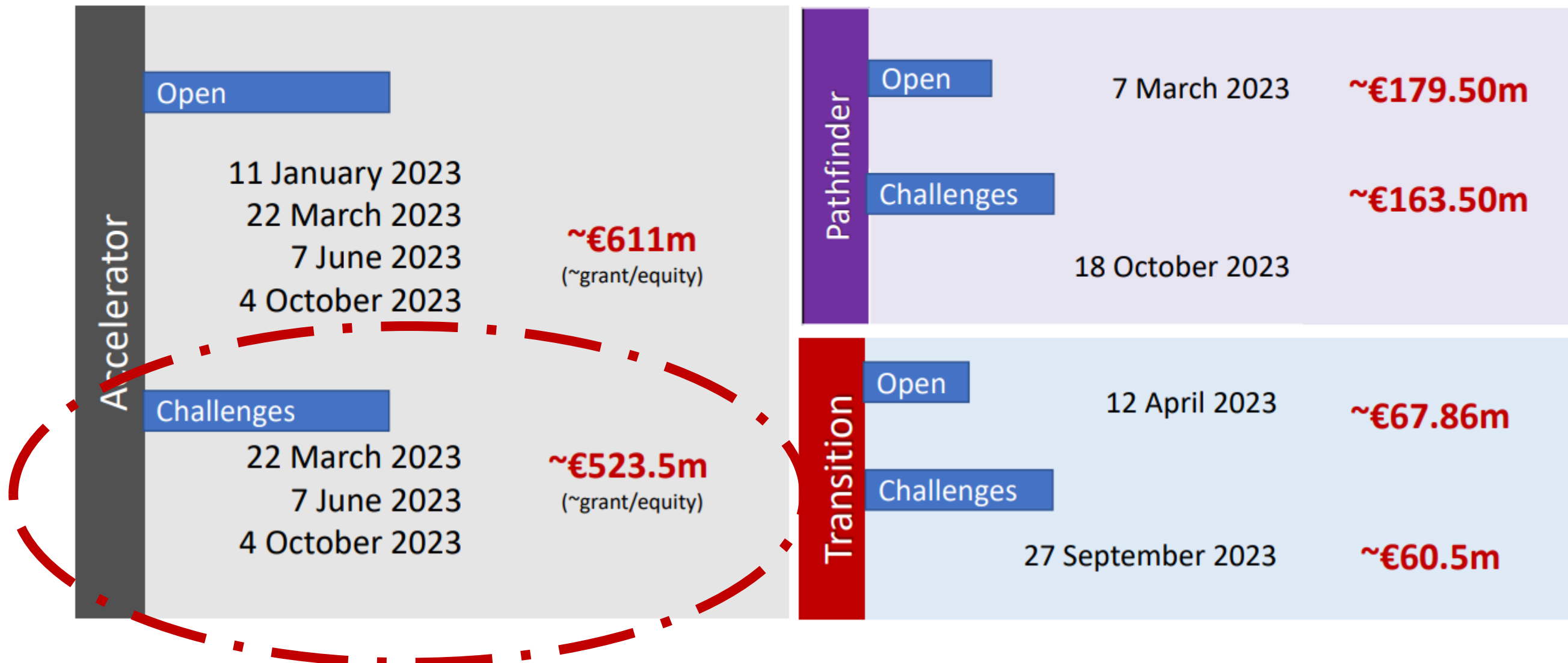
- For individual SMEs
- Development & scale up of deep-tech/ disruptive innovations by startups/ SMEs
- Blended finance (grants up to €2.5 million; equity investment up to €15 million or above)

EIC Accelerator Challenge for in-space solar energy harvesting €32.7m

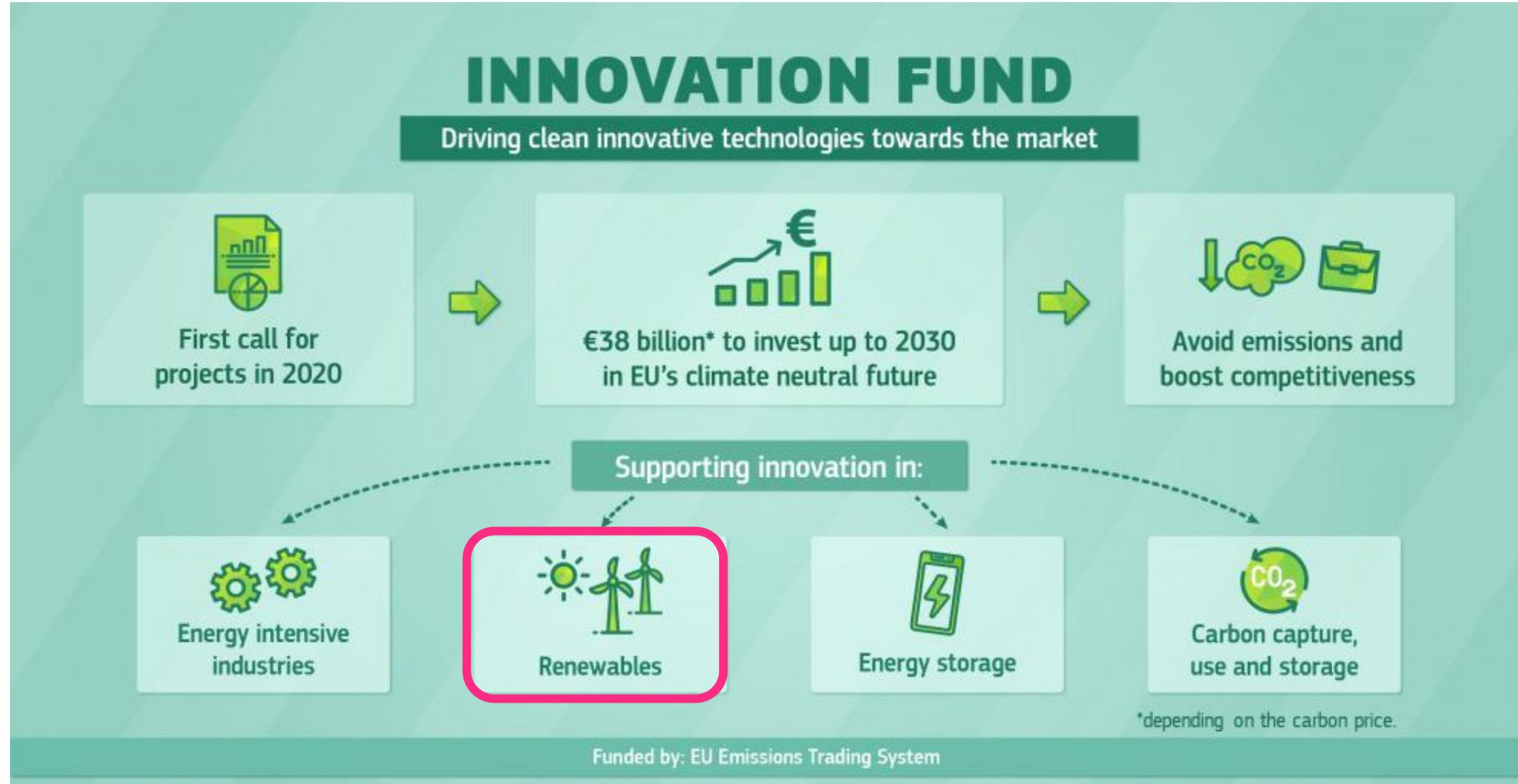
In 2023 EIC allocates ~€1.6bn to Open and Challenge calls by its Pathfinder, Transition, Accelerator programs



EIC WP 2023 deadlines and budgets



solar energy in other EU programs





REPowerEU

Financial opportunities for
research & innovation

Brussels
23 May 2023

#REPowerEU



NCBR 

National Contact Point
for EU Research Programmes

BLUE ECONOMY BALTIC FORUM

1-2 June 2023

Gdańsk, Baltic Philharmonic



INFO DAYS



Cluster 5

**CLIMATE, ENERGY
& MOBILITY**



- 2023 calls -> recording
- 2024 calls -> save the date -> **17 October 2023** (on-line)

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

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