EuroHPC
Joint Undertaking

Information day for SMEs

ACCESS CALLS AND PEER-REVIEW

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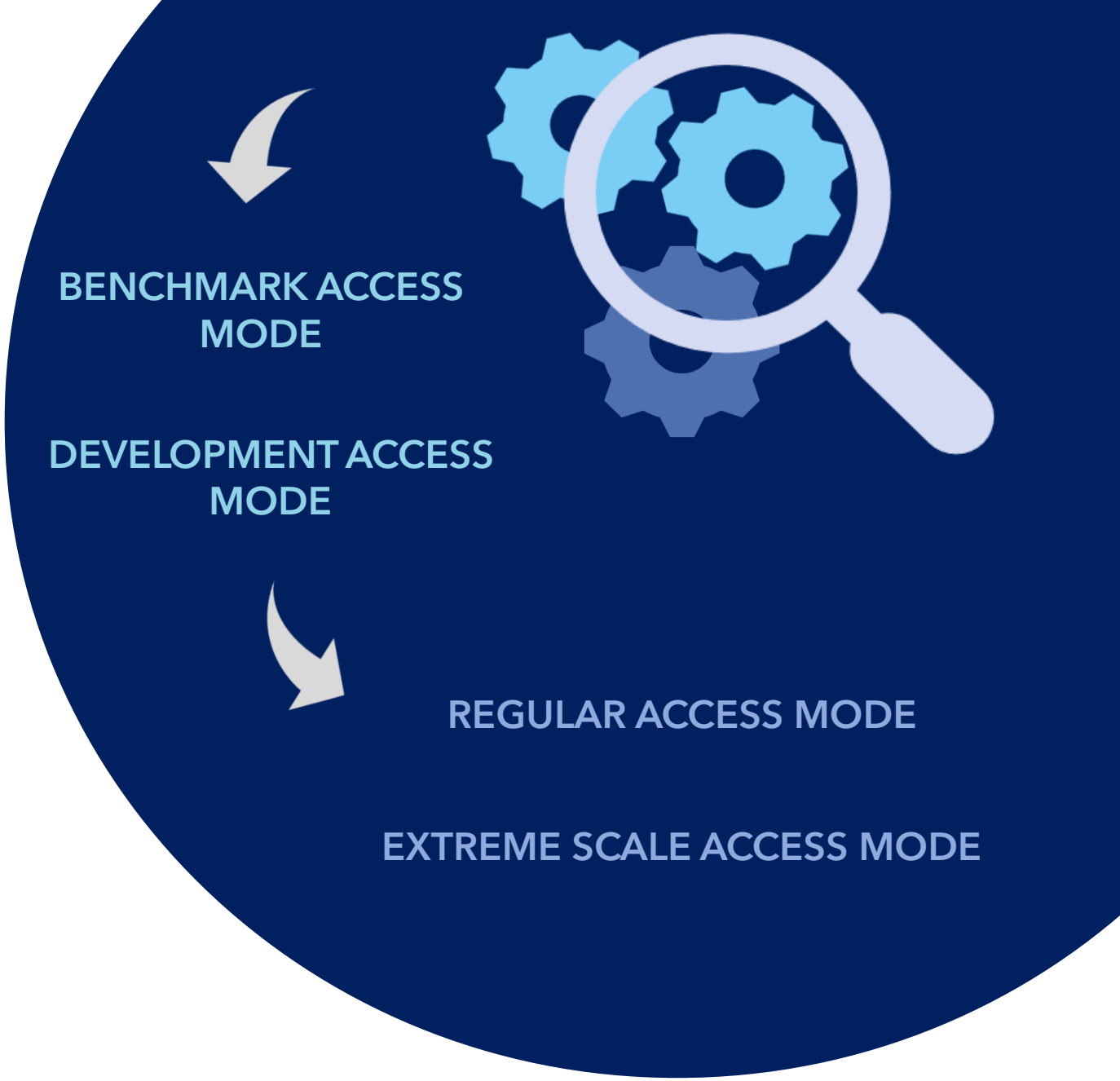
EuroHPC JU CALLS FOR APPLICATIONS

Access Modes



Benchmark and Development Access

Eligibility

Principal Investigators and Team Members from countries associated to Horizon 2020

Benchmark Access

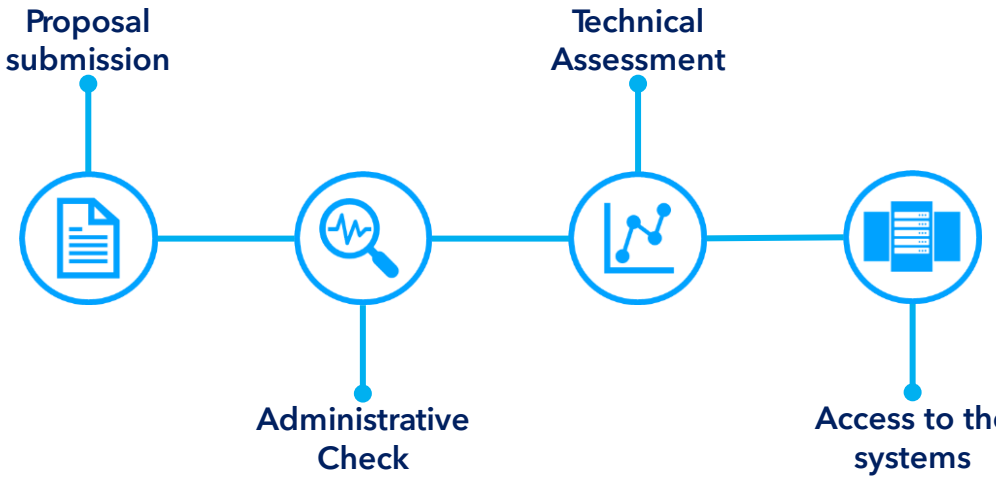
Scaling tests & benchmarks
Allocation duration – 2 or 3 months

Development Access

Code and algorithm development
Allocation duration – 6 or 12 months

Continuously open calls with monthly cut-offs

Predefined resources available per partition



Regular Access

Continuously open call with 3 cut-off dates per year: March, July, November

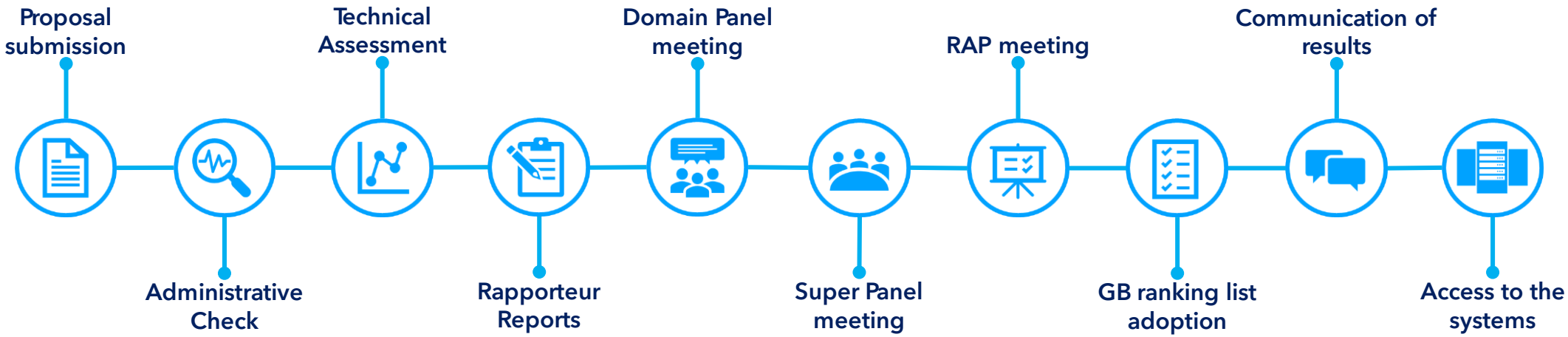
Next cut-off date: 7 July 2023, 10:00 CEST

Available resources on petascale and pre-exascale systems

Intended for projects that require large-scale HPC resources

Peer-Review process duration: 4 months

Eligibility: Principal Investigators and Team Members from countries associated to Horizon 2020



Extreme Scale Access

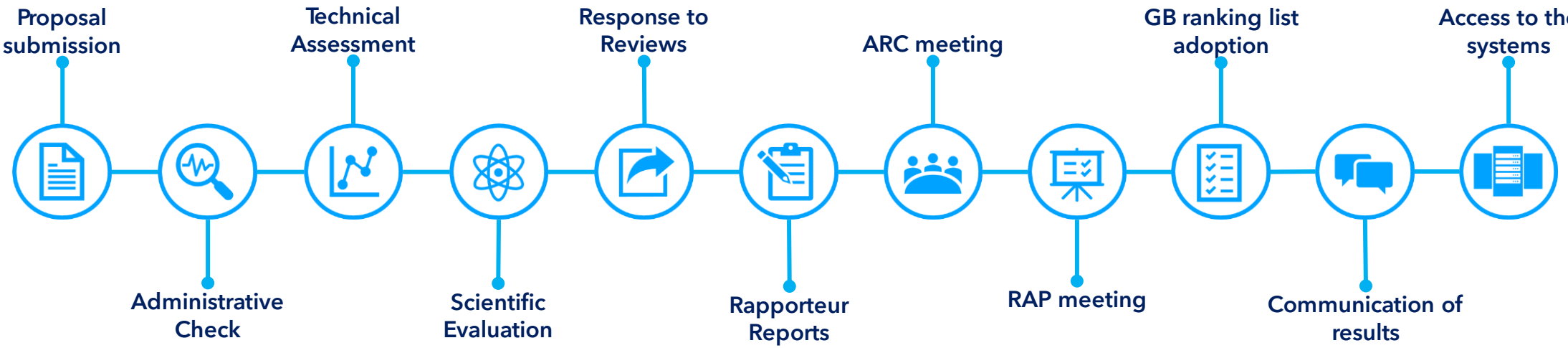
Continuously open call with 2 cut-off dates per year: April, October
Next cut-off: 12 May 2023, 10:00 CEST

Available resources on pre-exascale systems

Intended for high-impact, high-gain projects that require extremely large-scale HPC resources

Peer-Review process duration: 6 months

Eligibility: Principal Investigators and Team Members from countries associated to Horizon 2020



Extreme Scale and Regular Access evaluations

Access tracks

- Scientific – 75% reserve
- Industry – 20% reserve
- Public Administration – 5% reserve

Evaluation criteria

- Excellence
- Innovation and Impact
- Quality and Efficiency of the Implementation

Scoring system

- Grade 0-5 per criterium
- Minimum grade per criterium – 3
- Overall grade sum 0-15
- Overall grade sum – minimum 10

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Application forms & documents

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BENCHMARK & DEVELOPMENT ACCESS FORMS

The Project

- Title, summary and keywords
- Research fields
- Project duration

Principal Investigator & Team Members

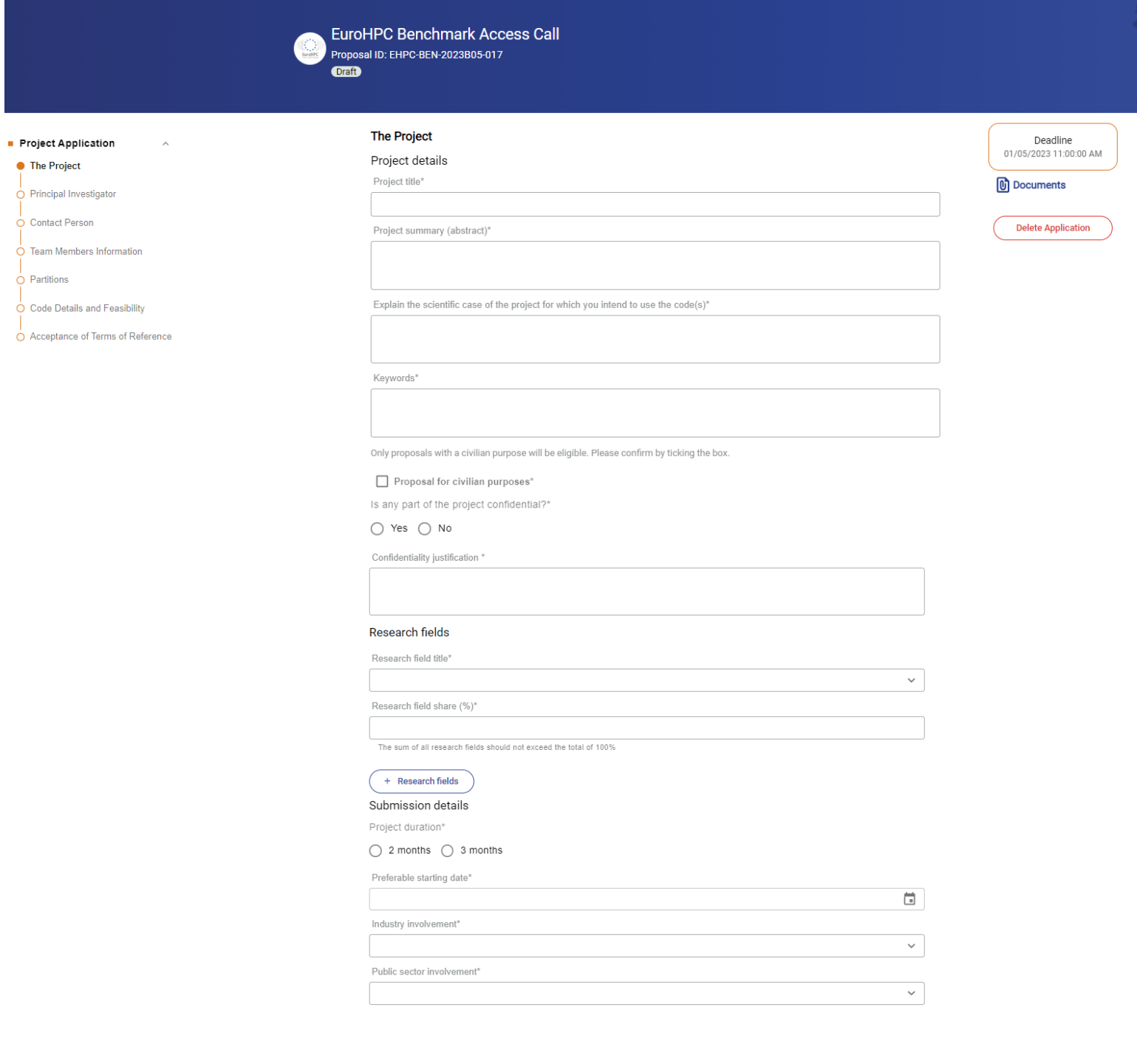
- Basic personal and contact information
- Organization details

Partitions

- Partition selection & resources request
- Memory, data transfer details & I/O

Code details, development & feasibility

- Scalability and performance
- Optimization of the work proposed



REGULAR & EXTREME SCALE ACCESS FORMS

The Project

- Title, summary and keywords
- Research fields
- Project duration
- Project Scope and Plan upload

Principal Investigator & Team Members

- Basic personal and contact information
- Organization details
- PI track record and CV upload

Partitions

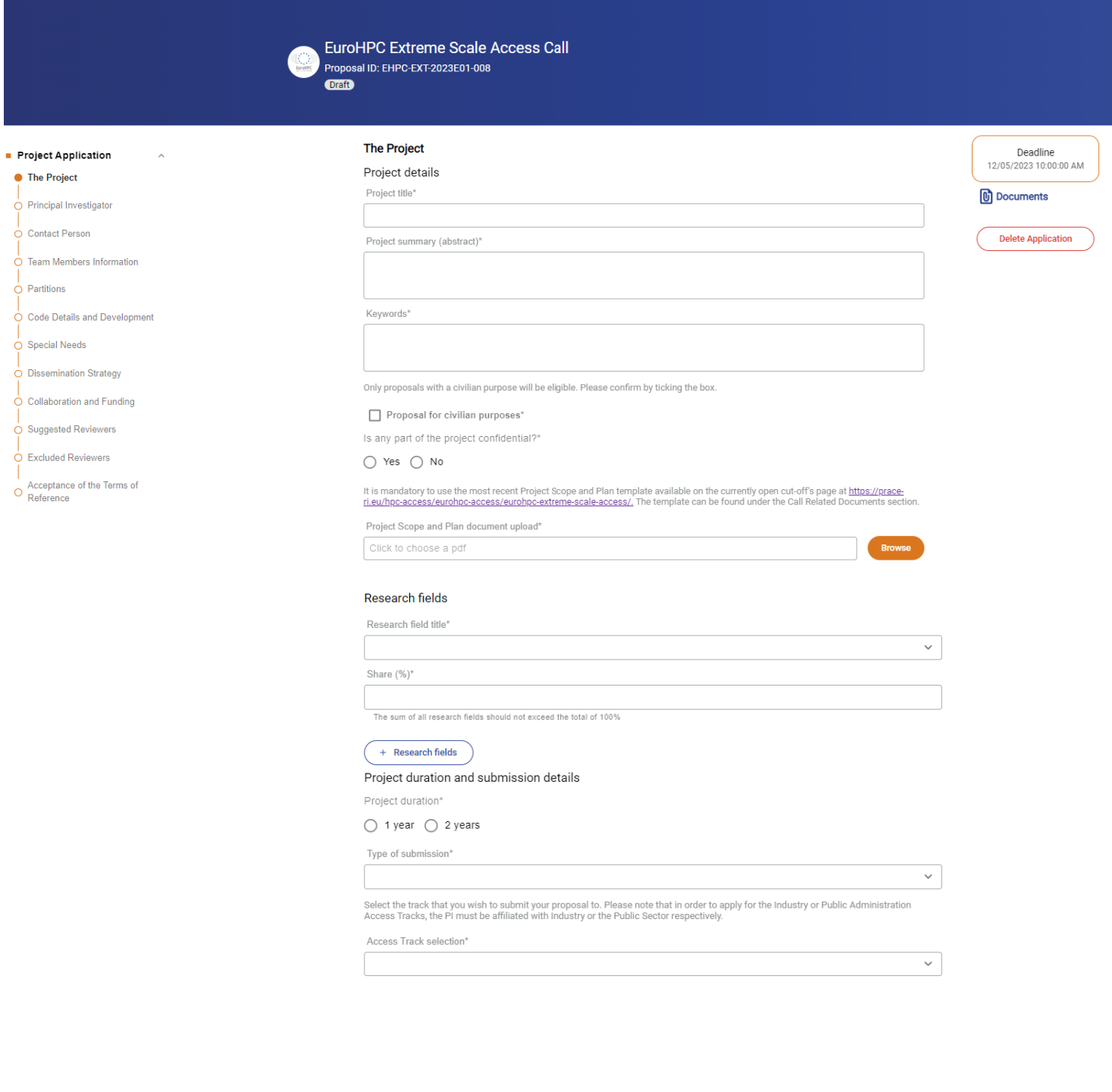
- Partition selection & resources request
- Storage, memory, jobs, I/O

Code details and development

- Description of codes development

Dissemination strategy

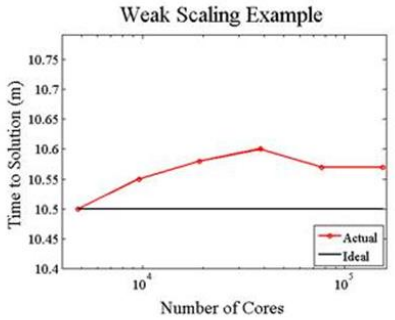
Collaboration and Funding



Project Scope and Plan

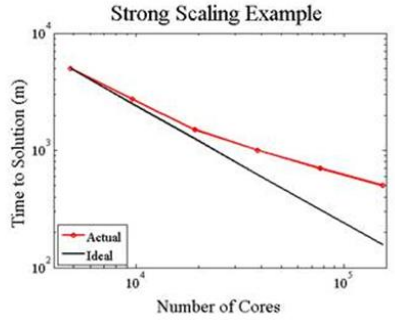
Project Scope and Plan = proposal template

Weak Scaling Example



nProc	Time to Solution (m)	Ideal Time to Solution (m)
4800	10.50	10.50
9600	10.55	10.50
19200	10.58	10.50
38400	10.60	10.50
76800	10.57	10.50
153600	10.57	10.50

Strong Scaling Example



nProc	Time to Solution (m)	Ideal Time to Solution (m)
4800	5000.00	5000.00
9600	2725.00	2500.00
19200	1500.00	1250.00
38400	1000.00	625.00
76800	700.00	312.50
153600	500.00	156.25

Run Type	Code(s)	No. of runs	No. of cores	No. of steps per run	No of cores per node	Time per step(s)	Total node hours
A (init. condition prep.)	Code 1						
B (low resolution)	Code 2						
C (high resolution)	Code 2						
D (post processing)	Code 3						

Detailed proposal information

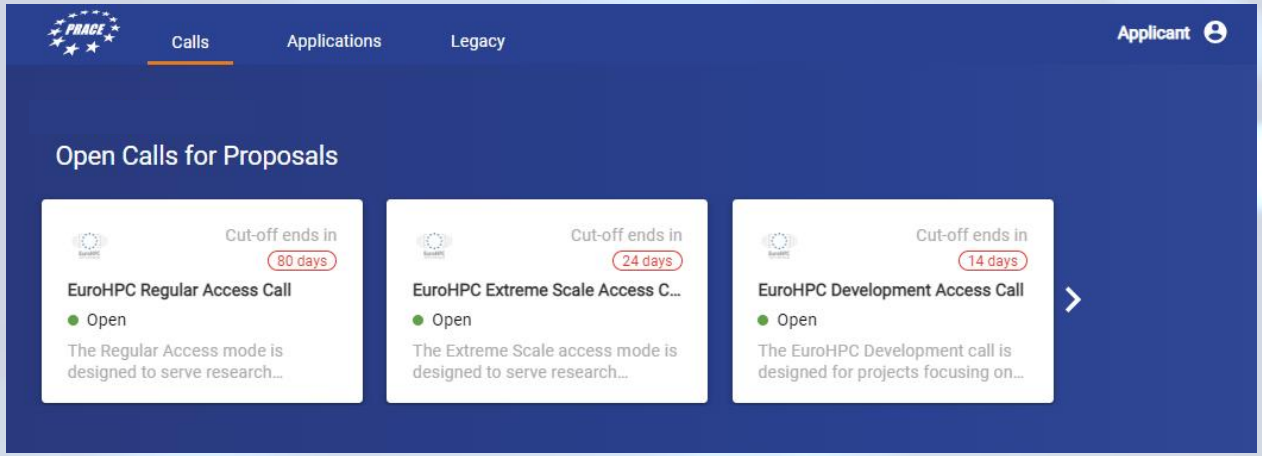
- Overview of the project and resources request justification
- Data management
- Performance of the software

Milestones & Gantt chart

Personnel and Management plan

How to apply?

Proposal submission via the Peer-Review Platform available at https://pracecalls.eu



Login at: https://pracecalls.eu/auth/login

Register at: https://pracecalls.eu/auth/register

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Thank you for your attention!

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