

Request for HBP Resources in ICEI

|  |  |
| --- | --- |
| **Project duration[[1]](#footnote-1)** (YYYY/MM-YYYY/MM) |   |
| **Project name** |   |
| **Type of project** (new or extension) |   |
| **Project ID** (in case of extension) |   |
| **PI name** (please name only one) |   |
| **PI Organisation** |   |
| **PI Email** |   |
| **Names, organisation and Email of other involved persons** |   |
| **Date** |   |

**Please note:** The resource request form will be shared within the HBP Consortium and information on resource requests received will be included in ICEI deliverables with dissemination level “Confidential, only for members of the consortium (including the Commission Services)”.

Applicants are advised to provide a comprehensive and self-contained proposal to facilitate its evaluation. The level of detail should be chosen according to the amount of requested resources. In case of lacking information, the applicants may be asked to provide additional information.

The ICEI project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement No 800858.

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# Summary

*Please provide one paragraph summarizing the scientific question(s) that you intend to address using these resources. What is the scientific goal?*

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# Relation to HBP DoA

*Please provide information on the related work packages, tasks, CDPs, etc. and explain how the project relates to the goals and objectives of HBP.*

# Preliminary Work (in case of a project extension)

*Please provide a brief summary of project results obtained from your first resource allocation.*

# Scientific methodology, goals, impact and implementation plans

*Please explain the methodology that will be used to achieve the scientific goal of the project, highlighting scientific excellence, novelty and potential for high European and international impact of the project.*

*What are possible transformative aspects and expected advances?*

# IT resources requested

## Resources

|  |  |  |
| --- | --- | --- |
| **Resource** | **Units** | **Quantity** (required in total) |
| **Resources at CSCS** |
| Piz Daint Multicore (Scalable compute) | node×hour |   |
| Piz Daint Hybrid (Interactive compute) | node×hour |   |
| OpenStack Cluster (VMs[[2]](#footnote-2)) | # x VM model(s)[[3]](#footnote-3) |   |
| Store POSIX and Object (storage in ARD[[4]](#footnote-4) incl. backup on Tape library) | TByte |   |
| Low latency storage tier (storage in ACD4) | TByte×day |   |
| **Resources at JUELICH** |
| JUSUF (Interactive/ Scalable compute) | node×hour |   |
| JUSUF Virtual machines (VMs2) | # x VM model(s)3 |   |
| HPST @ JUELICH (storage in ACD4) | TByte×day |   |
| **Resources at CEA** |
| Interactive Computing Cluster | node×hour |   |
| Openstack Compute Node (VMs2) | # x VM model(s)3 |   |
| Swift/OpenIO (storage in ARD4) | TByte |   |
| Store filesystem (storage in ARD4) | TByte |   |
| Flash filesystem (storage in ACD4) | TByte×day |   |
| Work filesystem (storage in ACD4) | TByte×day |   |

Comments on requested resources:

## Technical implementation plans

*Please explain why the requested resources are needed to achieve the scientific goal.*

*What kind of jobs are planned (number and type of nodes, typical job duration)? How much storage needs to be available to execute the jobs? Please list the software components, HBP platform tools and services that are needed?*

## Do you currently use your software on a cluster or supercomputer?

*Please select “Yes” or “No”, if you selected “Yes”, please specify, whether you have optimized, scaled, benchmarked your code before. What is the current job configuration (number of nodes, execution time, etc.)? What is the expected job configuration on ICEI resources?*

[ ]  NO

[ ]  YES

## Does this project involve processing of personal data as defined by GDPR?

*Please select “Yes” or “No”, if you selected “Yes”, please specify what kind of data is processed.*

[ ]  NO

[ ]  YES

# Resource management and work plan

*Please describe how you intend to manage the requested resources, e.g. how will it be ensured that all resources are consumed by end of the project? How will input data and result data be moved to or from the system?*

# Dissemination

*Please describe planned channels and resources for dissemination and knowledge exchange. If the requested resources are used to provide EBRAINS services, then describe plans for attracting users for these services. In other cases, please explain where you plan to publish results.*

# References

*Please provide recent/most important bibliographic references that are relevant to the project.*

[<ref number>] <reference>

1. Start of the project may be adjusted by the Infrastructure Allocation Committee (IAC) [↑](#footnote-ref-1)
2. Fenix Virtual Machine (VM) Services (details on Fenix website: <https://fenix-ri.eu/infrastructure/services/virtual-machine-services>) [↑](#footnote-ref-2)
3. e.g. 4x gpp.s; 1x gpu.l (document on Fenix VM Services Models: <https://fenix-ri.eu/sites/default/files/public/file-uploads/Fenix%20VM%20Models_8.pdf>) [↑](#footnote-ref-3)
4. Fenix Data Services (details on Fenix website: <https://fenix-ri.eu/infrastructure/services>): Archival Data Repository (ARD), Active Data Repository (ACD) [↑](#footnote-ref-4)