

EVITA Collaboration Opportunities

Webinar

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Agenda

1. Competence and Qualification Framework (CQF) (Xavier, Kevin)

- Structured approach to the notions of skills, EVITA Modules, courses, learning pathways, and professional profiles

<https://www.evitahpc.eu/cqf/>

2. The demo module (Yonglei)

3. Acquisition of high-quality training material (Karina)

- Call for reviewers
- Calls for training modules on HPC skills

4. Q&A



EVITA modules



Skill Tree



Courses



EVITA CQF



Certification 2

Goals of EVITA

- Define a **standardised European framework** that defines HPC competences and profiles, and supports consistent and high-quality HPC education
- Provide **modular, openly accessible, high-quality training materials** for training providers and self-paced learners
- Build a comprehensive **learning ecosystem** and **training platform** for the European HPC community



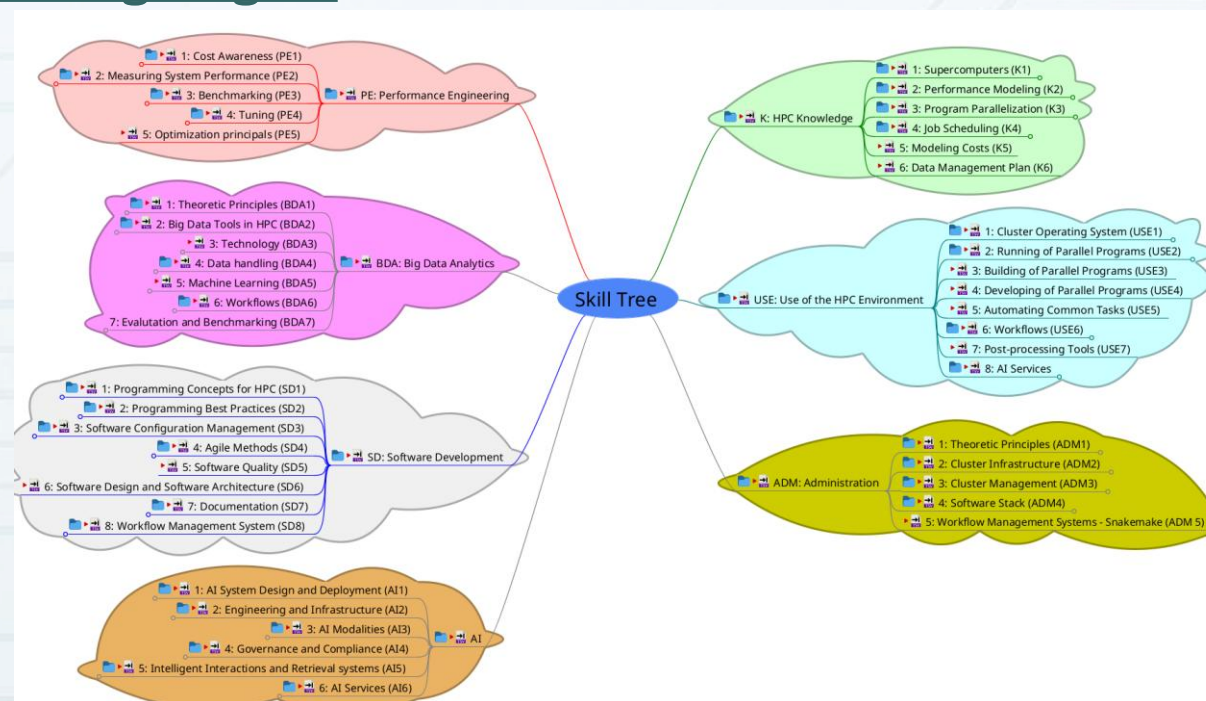
Skills

- A skill is a small, clearly defined ability/unit of learning that a learner can demonstrate in practice
- It contains learning outcomes for one specific topic
- Skills are hierarchically structured in the Skill Tree



Skill Tree

- Skill Tree designed and maintained by the HPC Certification Forum
- Open Source community managed in Matrix, monthly meetings: <https://matrix.to/#/#hpc-cf-general:gwdg.de>
- Node skills accumulate all knowledge from leaves
- Regular Hackalongs
- Train-the-Trainer sessions for everyone working with the tree
- You can contribute here!



From skills to EVITA Modules

EVITA Modules



EVITA Modules

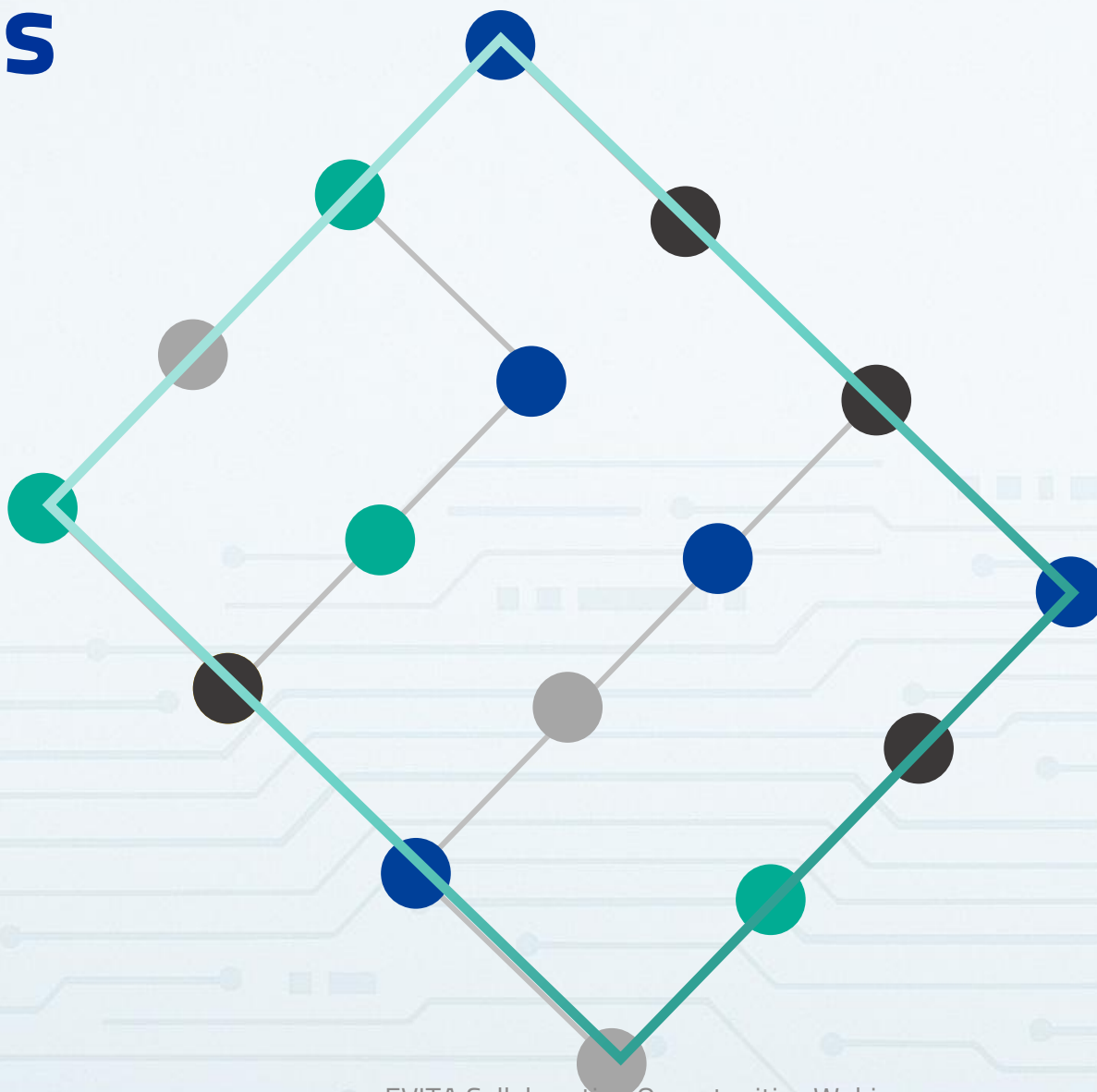
Modules contain curricular materials to guide learners to acquire HPC skills

- Learning units with guided content and hands-on activities
- Target one or multiple skills
- 1-4 hours learning time
- Self-paced independent, or taught as part of a course
- Quality-assured and uniformly structured

Courses



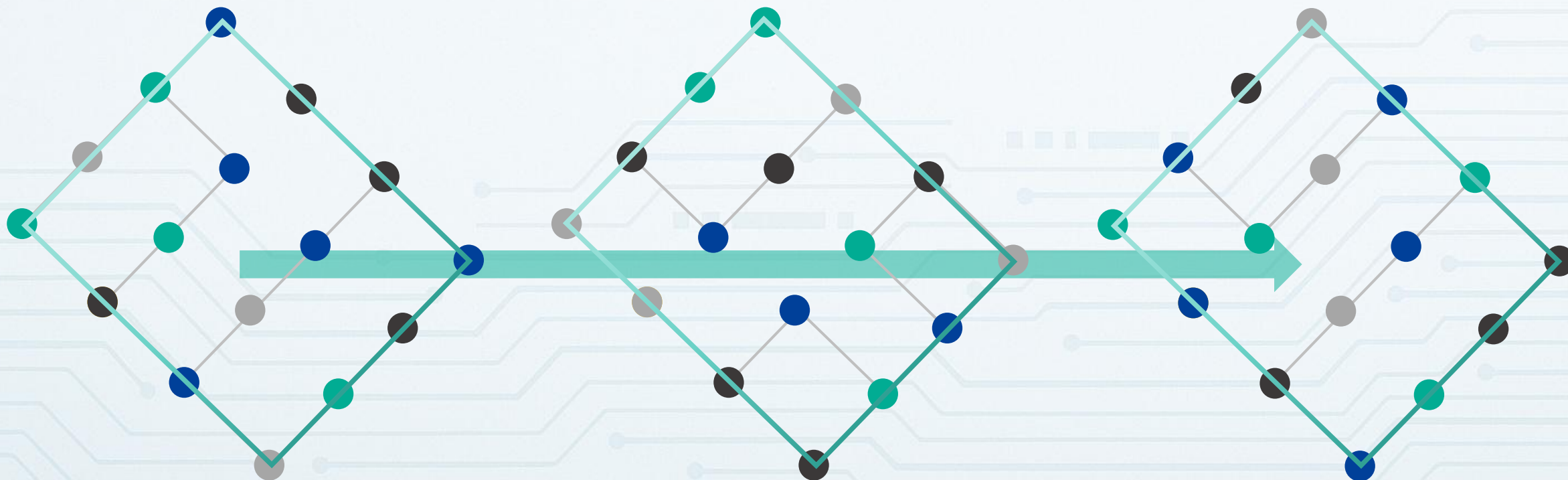
EuroHPC Virtual Training Academy



Courses are structured learning packages made up of one or more modules
Mix and match

Learning pathways

Learning pathways are sequences of courses and modules that lead to a learning profile.



Sample learning pathways

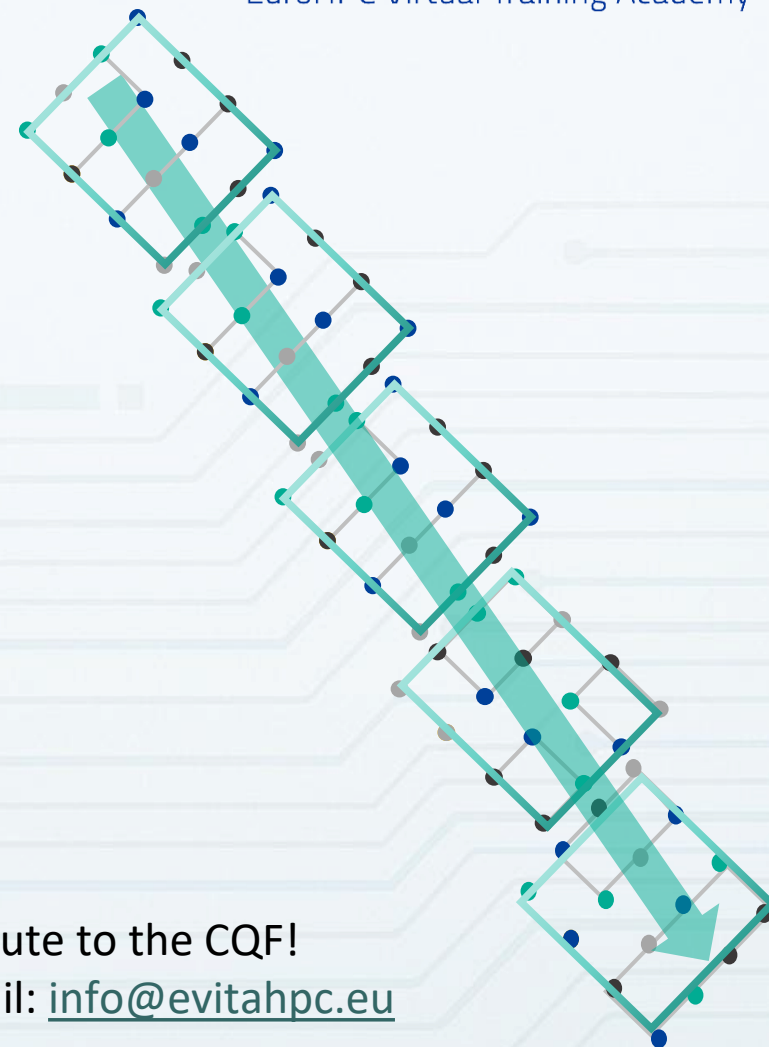


EVITA

EuroHPC Virtual Training Academy

- **Numerical simulations specialist**

- EVITA course: Shared-Memory Parallel Programming
- EVITA course: Distributed-Memory Parallel Programming
- EVITA course: Computational Numerical Linear Algebra
 - Parallel Linear Algebra Algorithms
 - Stability of Linear Algebra Algorithms
 - Communication requirements of Linear Algebra Algorithms
 - Performance of Linear Algebra Algorithms
- EVITA course: Numerical Methods for PDEs
 - Finite difference methods for elliptic, parabolic, hyperbolic equations
 - Numerical analysis of finite differences schemes
 - Finite element method and Galerkin approach
 - Fourier and spectral methods
- EVITA course: Numerical Simulations on HPC Systems
 - Fluid-Dynamics Numerical Simulations
 - Solid Mechanics Numerical Simulations



You can contribute to the CQF!
Send us an email: info@evitahpc.eu

Online training platform

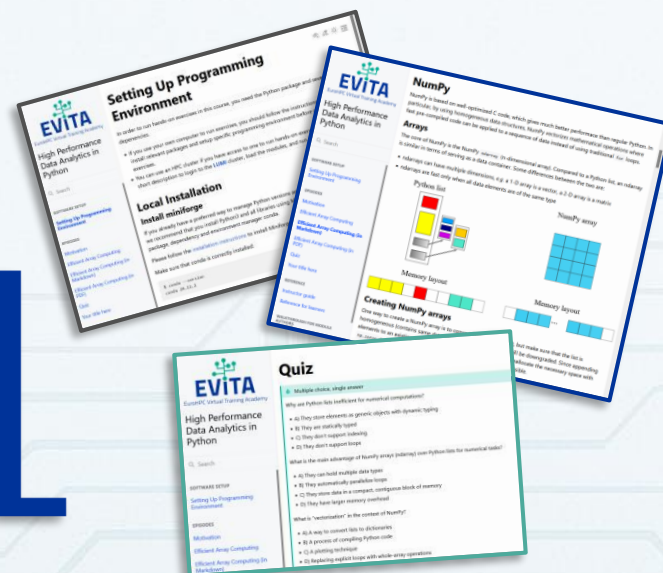


EuroHPC Virtual Training Academy

Modular training published online

hpc-portal.eu

code.europa.eu/eurohpc-ju/evita



Code development platform for open source projects for which European Union institutions, bodies, offices and agencies hold the intellectual property rights

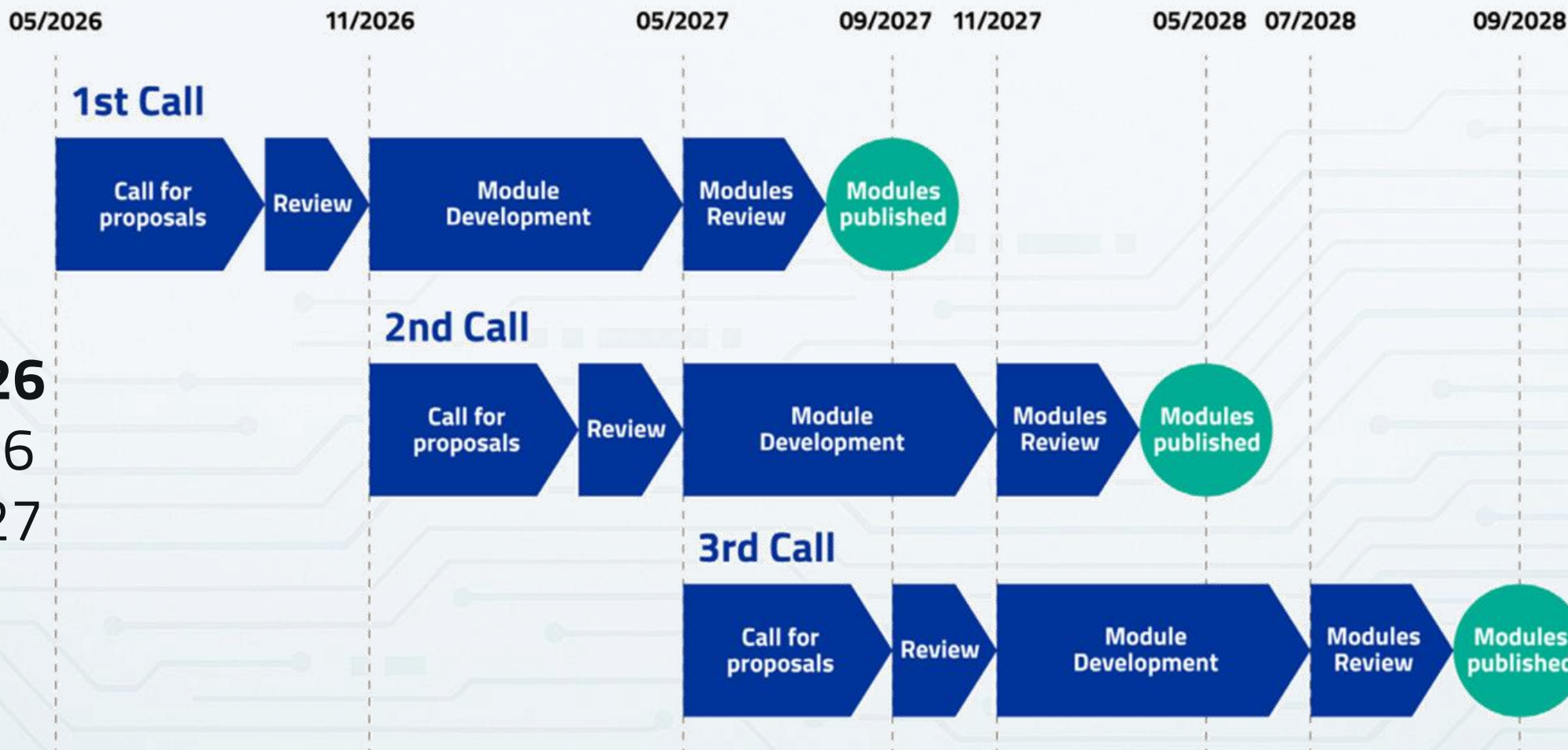
Repository of 400+ modules will be accessible via the HPC in Europe Portal

EVITA demo module

- How will the materials look like?
- What is expected from delivered material?

Cascade funding: Three open calls for Modules

- 1: **May 2026**
- 2: **Nov 2026**
- 3: **May 2027**



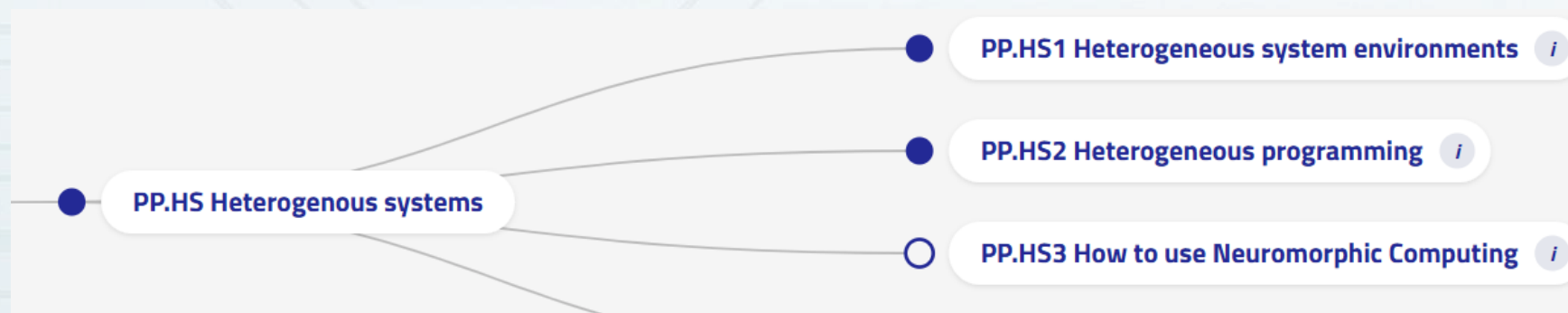
Cascade funding collaboration opportunities

Training Material

Existing material developed under EuroHPC JU funded projects (NCCs, CoEs, etc.)

- two ways :
 1. material to be adapted to the EVITA format
 2. material to be only referenced in respective courses
- course will be reserved for you and not part of the cascade funding call
 - have a look at the CQF: <https://www.evitahpc.eu/cqf/>

Let us know if you would like to contribute a specific course before **May 10th** so that we do not include it in the call.



in the CQF: courses with filled circles are open for proposals; no material needed for courses with empty circles

Cascade funding collaboration opportunities

Training Material

Existing material developed under institutional budget or other funding sources

- apply in the call

2 modes

- adapting existing material
- creating new material

Timeline for 1st Call for Modular Training Material



2026	May	Call publication 31 May
	Jun	<i>2 months to submit proposals</i>
	Jul	Submission deadline 7 Aug
	Aug	Eligibility check and Evaluation 10 Aug - 20 Nov
	Sept	
	Oct	
Nov	Notification to applicants 23 Nov	
2027	Dec	Funding Agreements & Training Material Development 23 Nov 2026 - 31 May 2027
	Jan	
	Feb	
	Mar	
	Apr	
	May	Review of delivered material Jun - Aug 2027
	Jun	
	Jul	
	Aug	Publication of delivered material
Sept		

← **Open 2nd Call** *Nov 2026*

← **Open 3rd Call** *May 2027*

Cascade funding collaboration opportunities - Reviewers

Become a reviewer of the proposals, call will be published in May

What we are looking for:

Experts with:

- HPC expertise in relevant topics
- Experience in training or education
- Ability to assess both technical and pedagogical quality

Remuneration is available, but optional.

How to engage with EVITA

- Contribute to the EVITA ecosystem
 - Bring your ideas and recommendations for modules and courses to the CQF
 - Share high-quality training materials for visibility and reuse
 - Contribute to community activities (e.g. events, workshops, collaboration initiatives)
- Participate in EVITA cascade funding calls
 - Develop training modules for the EVITA platform (through open calls)
 - Contribute as a reviewer for module proposals and training materials
- Benefit from EVITA
 - Access and reuse published modules
 - Integrate EVITA materials into your training activities

Thank you!

Reach out to us: <https://www.evitahpc.eu/contact/>

E-mail: info@evitahpc.eu

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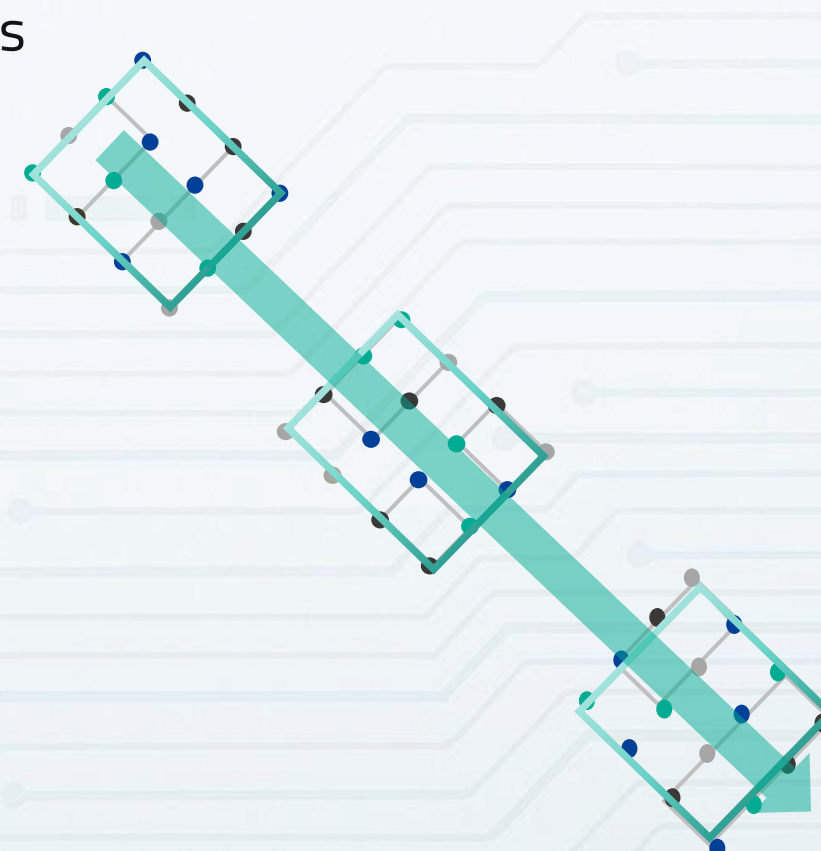
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EuroHPC
Joint Undertaking

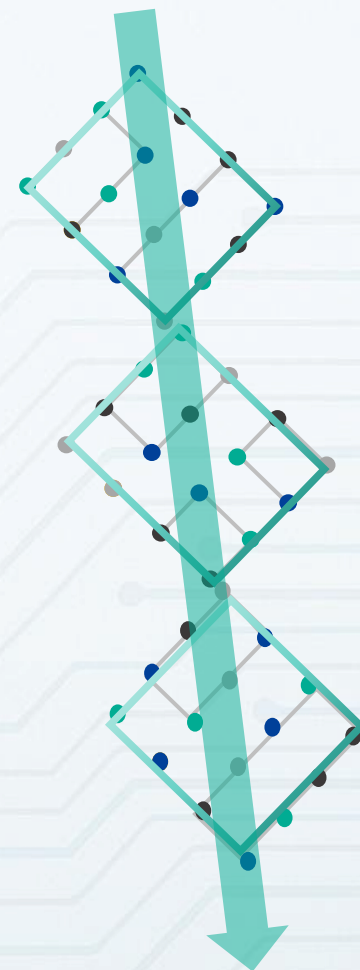
Sample learning pathways

- Multiprocessor design
 - CA.CAC1 EVITA course: Computer Architecture Concepts
 - Basic computer architecture
 - Memory hierarchy
 - CA.IOS1 EVITA course: Input/output subsystem
 - Basic input/output
 - Storage systems
 - Networking
 - CA.PA1 EVITA course: Processor Architecture
 - In-order processor architecture
 - Out-of-order processor architecture
 - Multiprocessor architecture



Sample learning pathways

- Heterogeneous Systems
 - CA.CAC1 EVITA course: Computer Architecture Concepts
 - CA.PA1 EVITA course: Processor Architecture
 - In-order processor architecture
 - Out-of-order processor architecture
 - Multiprocessor architecture
 - PP.HS1 EVITA course: Heterogeneous Systems Environments
 - Heterogeneous systems concepts
 - Toolchains for heterogeneous systems
 - Memory management
 - Porting applications to CUDA [OpenCL/SYCL, OpenMP target, OpenACC]
 - Resource management and scheduling on het. systems



Timeline for 1st Call

- Call publication 31 May 2026
- Submission deadline 7 August 2026
- Eligibility check and Evaluation 10 August - 20 November 2026
- Notification to applicants 23 November 2026
- Contracting & Development 23 Nov. 2026 - 31 May 2027
- Review of delivered material 1 June 2027 - 31 August 2027
- Publication 1 - 30 September 2027