RNCA meeting 2021, 29 September 2021
Martina Blazkova, BSC/CASTIEL

Content

Martina Blazkova, BSC

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EuroCC

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Mission:

Set up 33 National Competence Centres (NCCs)

In the fields:
- High-Performance Computing (HPC)
- High-Performance Data Analytics (HPDA)
- Artificial Intelligence (AI)

Participating countries (33)

Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Montenegro, Netherlands, North Macedonia, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

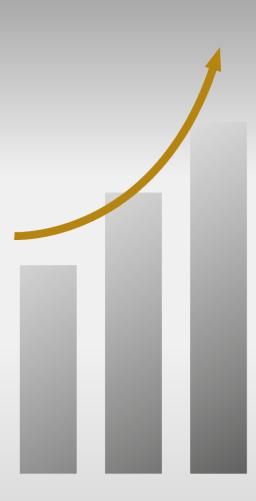Supported by **CASTIEL** (Coordination and Support Action)

EuroCC

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Goals

- Provision of a **broad service portfolio** tailored to the needs of industry, academia and public administrations

- **Catalogue and increase national HPC competences**, HPDA and AI capabilities

Ambitions

- Establish each NCC as a **single point of contact** towards the world of HPC in the respective states and the EU

- At the end of the projects, all NCCs will **deliver innovative services and show a clear improvement** of their overall structure and handling of users

CASTIEL

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EURO

Mission:

Support and Connect the NCCs

Participating countries (5)
Belgium, France, Germany, Italy, Spain

CASTIEL sets the framework of activities that support the evolution of each single National Competence Centre (NCC) and enable them step by step to get closer together in terms of capabilities and expertise.

CASTIEL will take the role of a single and central reference point at the European Level to coordinate and support the National Competence Centres.

Goals

- Provide a European excellence baseline by **closing existing gaps**

- Provide mechanisms for **exchange and support** between the NCCs

- **Support** the NCCs with material and mechanisms

Ambitions

- Becoming a Pan-European **network enabler** of NCCs all over Europe

- **Fostering development** of the participating countries with measures within EuroHPC
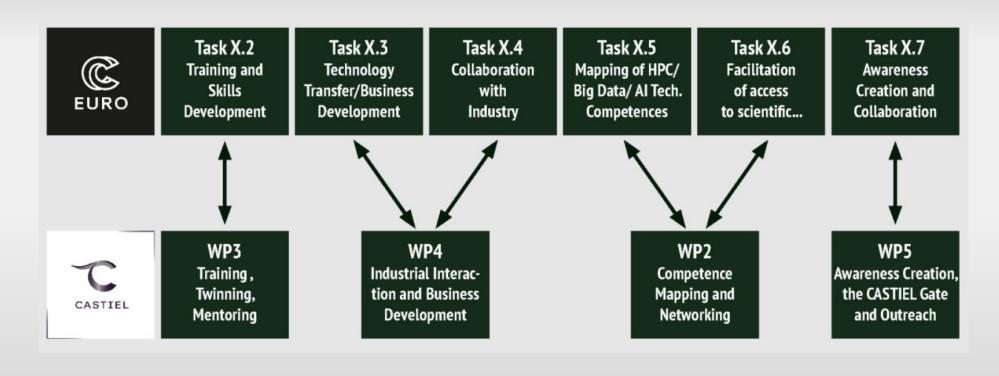
Tasks & Challenges

- High-level management monitoring the evolution of the NCCs
- Help NCCs to set up operation frames, getting access to and making best use of available experiences and expertise on a national level

Challenge: Addressing diversity in maturity of HPC in Europe.

Interdependencies between EuroCC tasks and CASTIEL work packages

European Training Opportunities in HPC

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The CASTIEL Training Mapping Survey

STRUCTURE OF THE MAPPING DOCUMENT

SCOPE OF THE MAPPING

THE ULTIMATE GOAL

To identify and catalogue the current state-of-the-art of training in HPC, HPDA and AI across Europe

1. The generic section

- To understand the resources, constraints and needs of each NCC

2. The training activities section

- A specific section detailing all training activities in the academic years 2020/2021 and 2019/2020

- Training activities by **all providers in the whole country.**

- Alternatively, training activities provided by **the NCC and its partners or the NCC only.**

All countries (33) provided their initial training mapping survey.
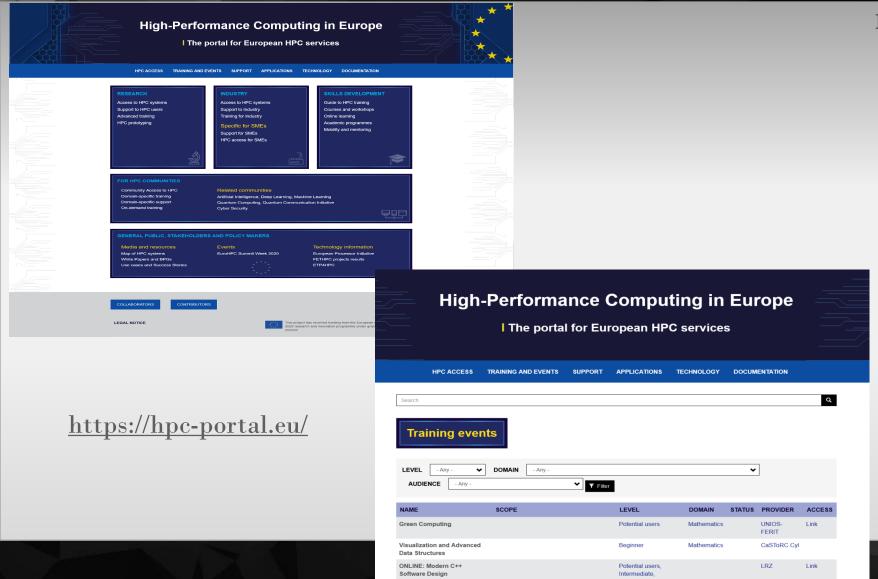The level of information was diverse and heterogeneous.

Key Training Providers

- PRACE – PTC, PATC
- European HPC centres – e.g., BSC, CINECA, HLRS, CSC – IT Centre for Science
- Technology providers – e.g., NVIDIA, Intel, AMD
- Centres of Excellence – e.g., BioExcel, POP, EXCELLERAT
- Other providers

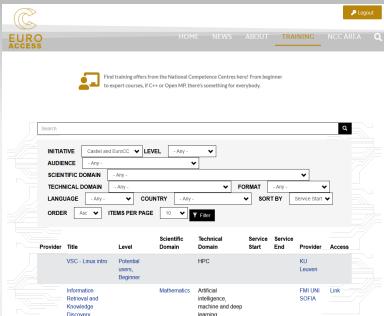*Challenge: various training portals.*

HPC in Europe Portal

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https://hpc-portal.eu/

Display of training events in EuroCC Access (embedding of the HPC portal database).

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Thank you for your attention!