

# EURO<sup>2</sup>

Bastian Koller

ISC 23

# Intro to EuroCC

Bastian Koller, HLRS



## Mission

Currently funding **32 National Competence Centres (NCCs)**

In the fields:

- High-Performance Computing (HPC)
- High-Performance Data Analytics (HPDA)
- Artificial Intelligence (AI)
- ...

Supported by **CASTIEL 2** (Coordination and Support Action) fostering the setup of a strong network of competences all over Europe and addressing the competence gaps in an complementary way.



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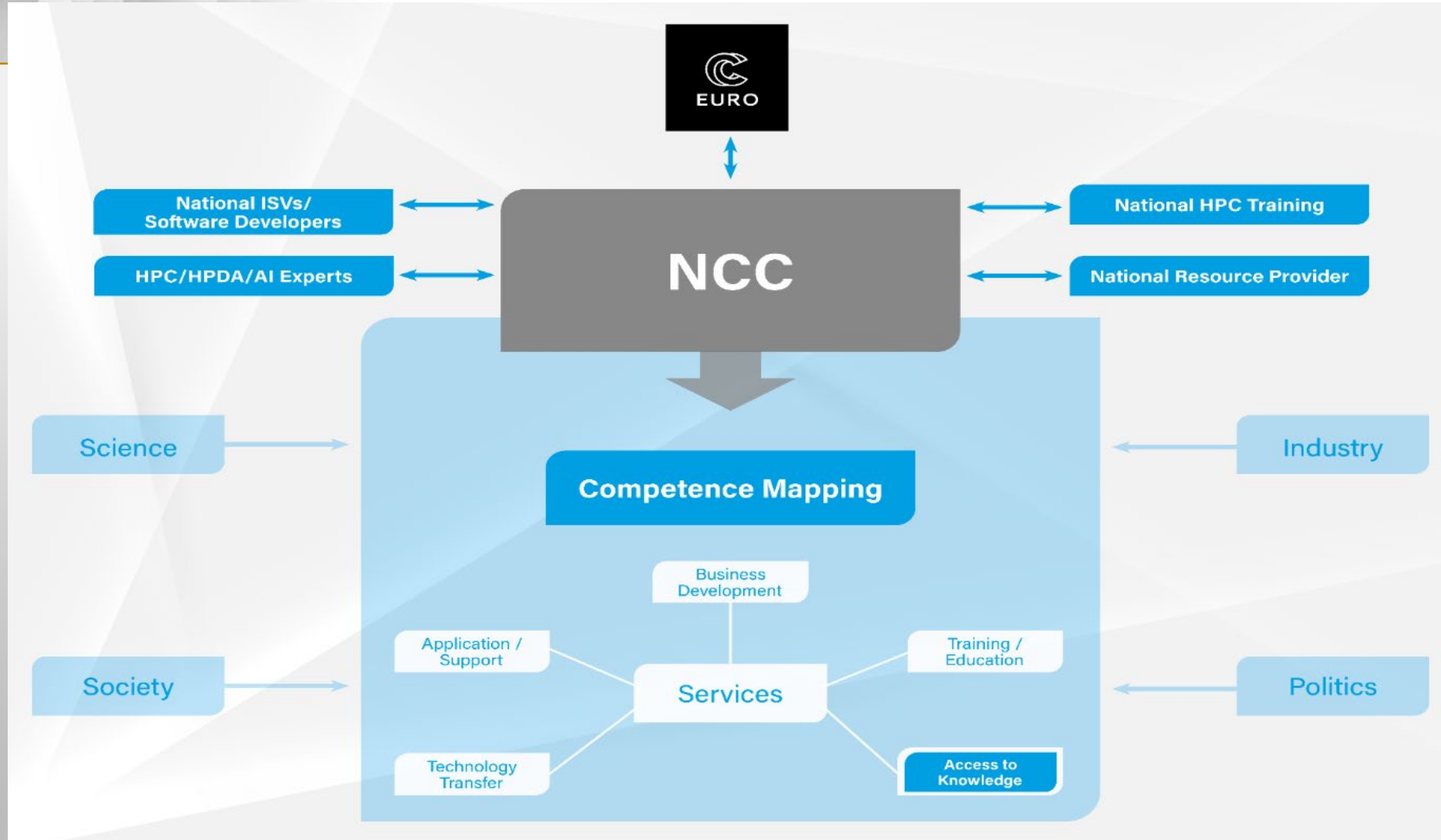


## Ambitions

- Each NCC has adapted to the needs of Users from industry, public entities and academia
- Each NCC is a **single point of contact** towards the world of HPC, in the respective states, but also Europe
- Each NCC will have a **innovative, user centered service portfolio**
- Each NCC will **close the skills gap to the baseline** in Europe



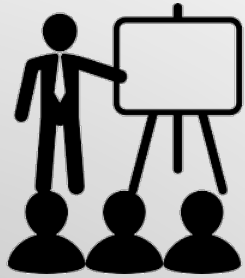
# A glance on a NCC



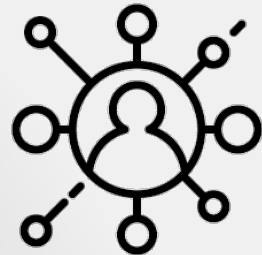
# Intro to EuroCC

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## What kind of support do the NCCs offer?



**Training**



**Access to Competences  
and Resources** (national &  
european)



**HPC+ services** along the  
whole user journey

### USPs:

- National mandate
- Local, reachable support
- We employ scientists, that are just as motivated to solve the problem as you are 😊

# EuroCC Access

Bastian Koller, HLRS



## How to get more information

A screenshot of the EuroCC Access website homepage. The header includes the EURO logo on the left and a navigation menu with 'ABOUT US', 'SERVICES', 'NEWS', and 'LOGIN' on the right. The main content area features the heading 'WELCOME TO EUROCC ACCESS' above a map of Europe. To the right of the map, there is a paragraph defining National Competence Centres (NCCs) and a list of their missions.

**WELCOME TO EUROCC ACCESS**

The National Competence Centres (NCCs) are the **central points of contact** for HPC and related technologies in their country.

Their missions are to:

- Develop and display a comprehensive and transparent map of **HPC competences and institutions** in their country
- Act as a **gateway for industry and academia** to providers with suitable expertise or relevant projects, may that be national or international
- Collect **HPC training offers** in their country and display them on a central place together with international training offers collected by other NCCs
- Foster the **industrial uptake of HPC**

- The online portal to access
  - NCCs
  - Information
  - Competences
  - Trainings
  - Events
  - Contents
    - Documents as results of workshops
    - Funding opportunities
    - Videos from events and workshops
  - ...

<https://www.eurocc-access.eu/>

## LET US HELP YOU!

The EuroCC Network consists of people, institutions and companies with decade long HPC experience. In this section, we collect material about any area of HPC that might be useful to you!



### DOCUMENT LIBRARY

Find summaries, whitepapers and other documents that will help every user or provider of HPC



### FUNDING

Find information about direct funding opportunities for enterprises, institutions and universities or funded projects that can help you with HPC



### VIDEO LIBRARY

Find recordings of Talks, Seminars and Workshops about HPC-related topics

## DOCUMENT LIBRARY

Find summaries, whitepapers and other documents that will help every user or provider of HPC

 Download

#### WHITEPAPER || Data Management

Best Practices  
EuroCC

 Download

#### GUIDE || ENCCS Instructor Training

Training Material to Train the Trainer  
ENCCS (NCC Sweden)

 Download

#### WHITE PAPER || Best Practices for GDPR, Data Interoperability and Cybersecurity

White paper following a workshop organized by PMT  
CASTIEL & EuroCC Network

 Download

#### BEST PRACTICE GUIDE || Train the Trainer

Take Outs from Workshop  
CASTIEL & EuroCC Network

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#### BEST PRACTICE GUIDE || How to Organise an HPC Event

Take Outs from Workshop  
CASTIEL & EuroCC Network

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#### BEST PRACTICE GUIDE || How to Find Attendees for Trainings

Take Outs from Workshop  
CASTIEL & EuroCC Network

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#### BEST PRACTICE GUIDE || In-Person and Online Training Courses

Take Outs from Workshop  
CASTIEL & EuroCC Network

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#### RESULTS || Engagement with SMEs

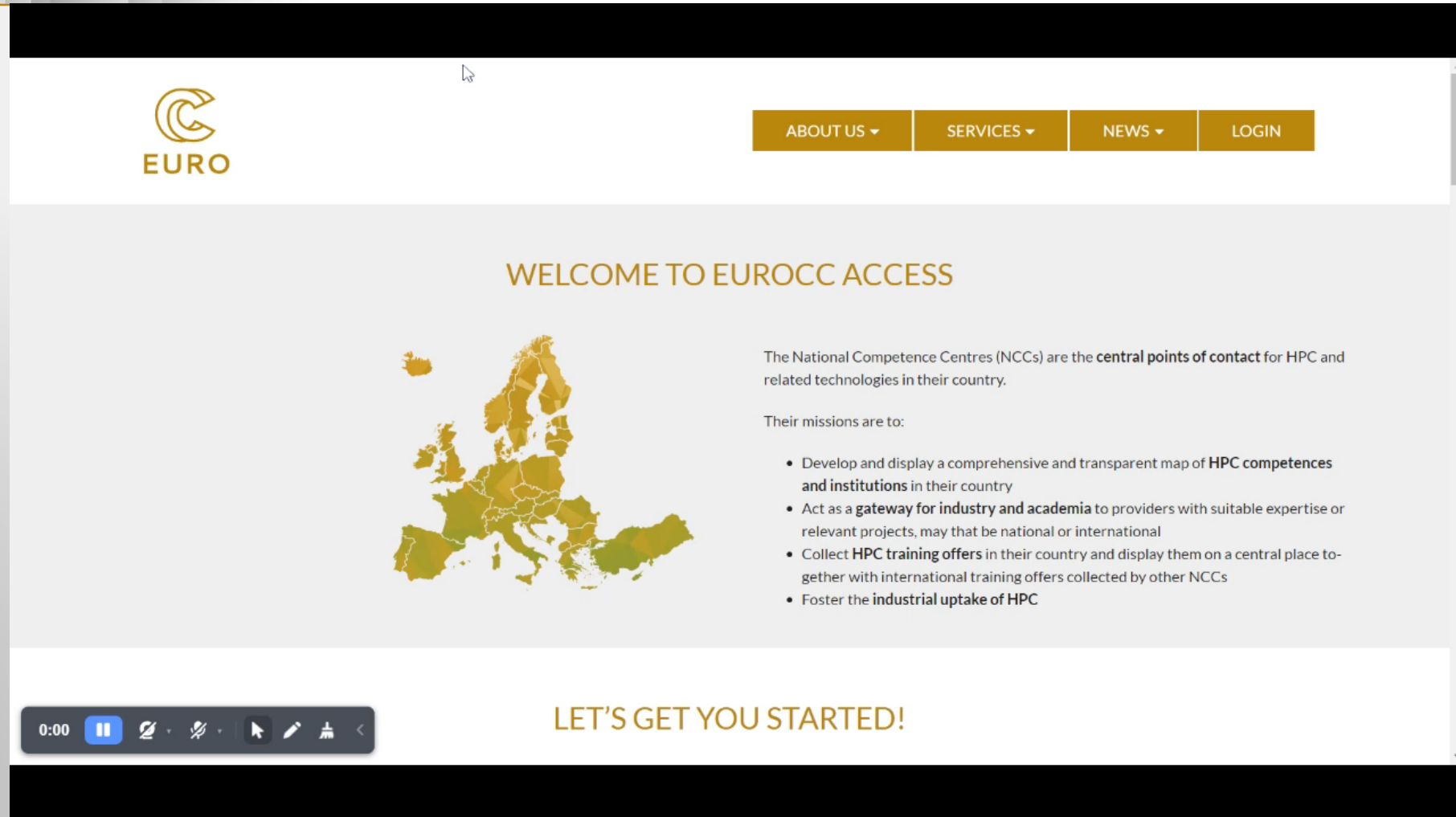
Take Outs from Workshop  
CASTIEL & EuroCC Network

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#### SUMMARY || Quantum Computing – Mentoring First Workshop

Summary of Workshop  
CASTIEL & EuroCC Network

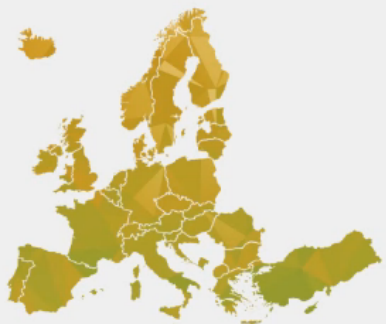
# How to find your NCC

A screenshot of the EUROCC ACCESS website. The page has a white header with the EURO logo on the left and navigation buttons for 'ABOUT US', 'SERVICES', 'NEWS', and 'LOGIN' on the right. The main content area is light gray and features the heading 'WELCOME TO EUROCC ACCESS' in orange. Below the heading is a map of Europe with orange and green regions. To the right of the map is a paragraph explaining that National Competence Centres (NCCs) are central points of contact for HPC and related technologies. Below this is a list of their missions. At the bottom of the page, there is a white section with the heading 'LET'S GET YOU STARTED!' and a video player interface showing a 0:00 duration and various control icons.

**EURO**

ABOUT US ▾ SERVICES ▾ NEWS ▾ LOGIN

## WELCOME TO EUROCC ACCESS



The National Competence Centres (NCCs) are the **central points of contact** for HPC and related technologies in their country.

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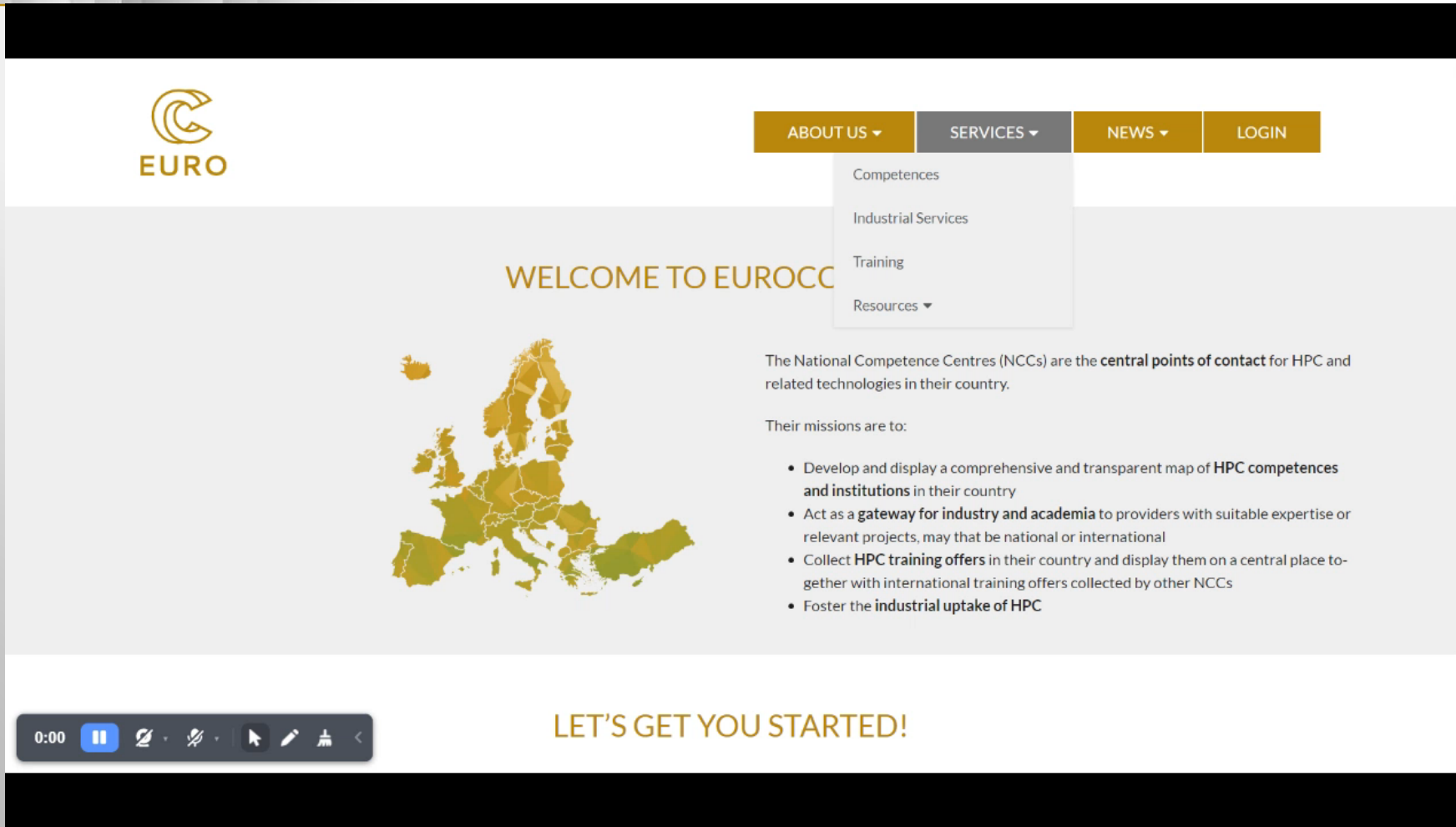
- Develop and display a comprehensive and transparent map of **HPC competences and institutions** in their country
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- Foster the **industrial uptake of HPC**

**LET'S GET YOU STARTED!**

0:00 [play] [share] [download] [search] [list] [back]



# Competences



The screenshot shows the EURO website interface. At the top left is the EURO logo. A navigation menu includes 'ABOUT US', 'SERVICES', 'NEWS', and 'LOGIN'. The 'SERVICES' menu is open, showing 'Competences', 'Industrial Services', 'Training', and 'Resources'. The main content area features a map of Europe and the text 'WELCOME TO EUROCC'. Below the map, it states: 'The National Competence Centres (NCCs) are the central points of contact for HPC and related technologies in their country. Their missions are to:' followed by a list of four bullet points. At the bottom, a video player is visible with the text 'LET'S GET YOU STARTED!' and a video control bar showing '0:00' and various icons.

**EURO**

ABOUT US ▾ SERVICES ▾ NEWS ▾ LOGIN

Competences  
Industrial Services  
Training  
Resources ▾

WELCOME TO EUROCC

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LET'S GET YOU STARTED!

# Participation/How to benefit

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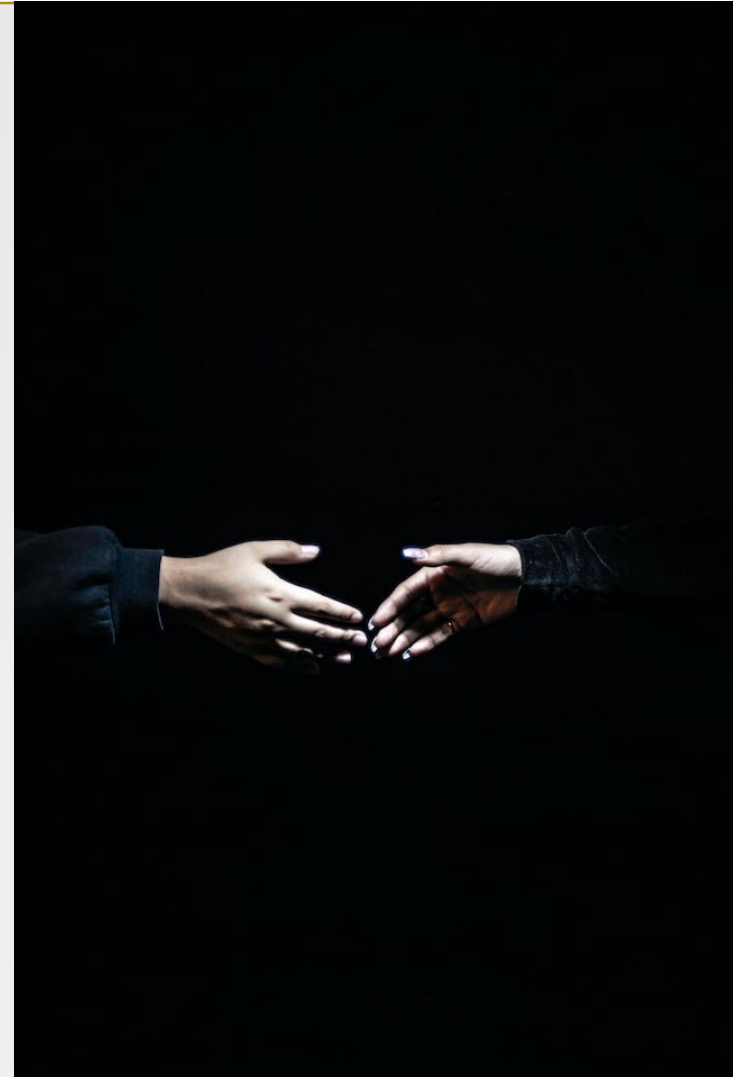


## How to benefit from the network?

**Get in touch with your local NCC!**

Ask them for support on

- Trainings
- Access to the EuroHPC machines
- Access to knowledge/expertise
- Utilizing HPC the best way possible
- ...



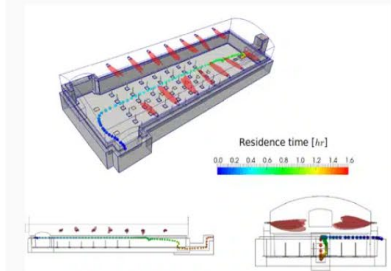
# Continuous publication of insights



## Success Story: Optimization, parallelization and porting of an AI algorithm to HPC Architecture

6. December 2022

Based in Paris, Advestis is a pure player in data science, with 14 data scientists and more than 40 projects since 2011. Advestis provides resources to put into production machine learning pipelines. Our goal: push the Technology Readiness Level (TRL) of our customers' innovations. We collaborate with research engineers and industry experts (both public and...)



## Success Story: Code Modernization for the Glass Industry

4. November 2022

Şişecam fabricates glass products using custom-made furnaces. They use a simulation code written some decades ago that traces the glass particles inside the furnace. In a nutshell, the longer the particles stay inside the furnace, the better the quality of the product. To achieve this, they need to perform simulations with many particles...



# Thank You!



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