

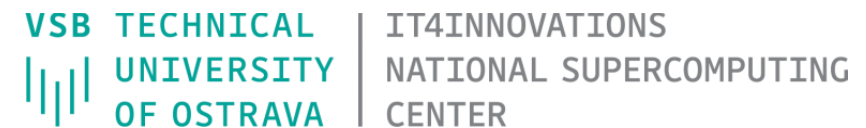
# EuroCC project



Pavel Tomšič, University of Ljubljana, Slovenia

07/2021

Univerza v Ljubljani

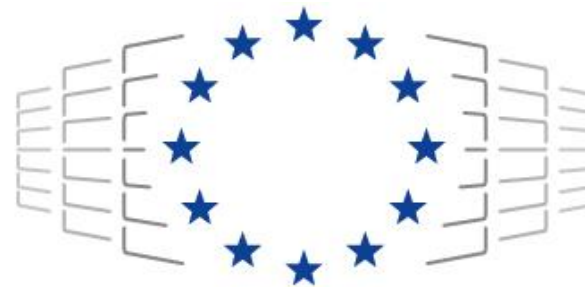


Co-funded by the  
Erasmus+ Programme  
of the European Union

This project has been funded with support from the European Commission.

This publication [communication] reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

- Establishment and operation of National HPC Competence Centers.
- Aligning the setup on services for industry, academia and public, especially in the domains of:
  - Training and Skills Development,
  - Technology Transfer/Business Development,
  - Industrial Collaboration,
  - Facilitation of access to scientific and technical expertise and knowledge pools,
  - Awareness Creation.



**EuroHPC**  
Joint Undertaking

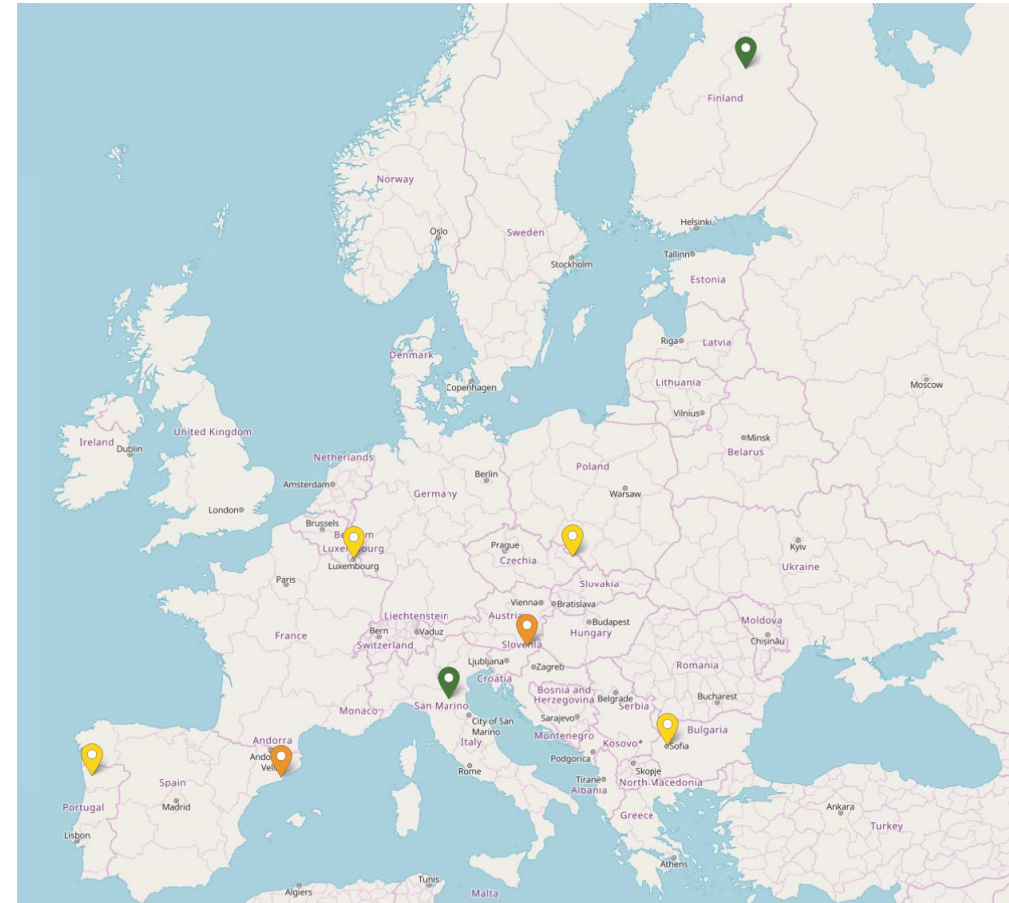
# About EuroCC

- National HPC Competence Centres in 33 European countries
- Coordinated by HLRS - The High-Performance Computing Center Stuttgart
- Duration: 2 years (August 2022)

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



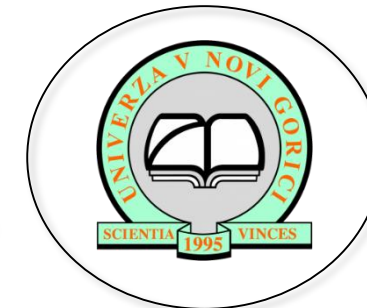
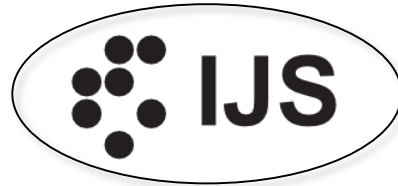
- 3 pre-exascale supercomputers:
  - LUMI – Finland (375 Petaflops),
  - LEONARDO – Italy (248 Petaflops),
  - MARENOSTRUM 5 – Spain (200 Petaflops),
- 5 petascale supercomputers:
  - VEGA – Slovenia (6.8 Petaflops),
  - MELUXINA – Luxembourg (10 Petaflops),
  - KAROLINA – Czech Republic (15.2 Petaflops),
  - DISCOVERER – Bulgaria (4.4 Petaflops),
  - DEUCALION – Portugal (10 Petaflops).



<https://eurohpc-ju.europa.eu/>

- Tasks:

- X.1: (National Competence Centre) - Management
- X.2: Training and Skills Development
- X.3: Technology Transfer/Business Development
- X.4: Collaboration with Industry
- X.5: Mapping of HPC/Big Data/AI Technical Competences
- X.6: Facilitation of access to scientific and technical expertise and knowledge pools
- X.7: Awareness Creation and Collaboration



- Training and skills development

[www.sling.si/sling/category/treningi/](http://www.sling.si/sling/category/treningi/)

The screenshot shows the SLING website interface. At the top, there is a blue header with the SLING logo and the text "Slovensko nacionalno superračunalniško omrežje". Below the header, there is a navigation bar with links for "SLING", "Kompetenčni center HPC", "Uporabniki", "Organizacije", "Tehnologija", "Novice in obvestila", and "Več". The main content area is titled "CURRENTLY BROWSING CATEGORY" and "Delavnice in seminarji". It features three event cards: "Delavnica: Superračunalništvo malo bolj zares" (21. do 23. september 2021, 13:00 do 17:00), "Delavnica: Računajmo na vsa jedra" (15. junij 2021, 9:00 do 13:00 in 16. junij 2021, 9:00 do 13:00), and "Delavnica: Osnove superračunalništva". To the right of the event cards, there is a sidebar with social media icons (LinkedIn, Twitter, Facebook, YouTube) and a list of "SLING: NOVICE" and "EGE: NOVICE" items.

- Courses and seminars
- Different levels depending on the complexity and prior knowledge



<https://indico.ijs.si/category/29/>

The screenshot shows the Indico website interface. At the top, there is a logo for "EURO SLING" and the text "Dogodki v sklopu aktivnosti Nacionalnega kompetenčnega centra HPC". Below the logo, there is a section titled "Since January 2021:" with a list of events: "13 courses" and "10 seminars". The main content area is titled "There is one event in the future. Hide" and shows a list of events for October 2021, September 2021, June 2021, May 2021, and April 2021. The events include "Delavnica: Osnove superračunalništva", "Delavnica: Superračunalništvo malo bolj zares", "Delavnica: Računajmo na vsa jedra", "Course: Introduction to Linux for HPC", "Delavnica: Osnove superračunalništva", "Seminar: Biological superproblems require supercomputing", "Seminar: HPC molecular modeling of liquid crystal elastomers", "Seminar: Leon Kos: Source control management with Git at Gitlab, Github and Bitbucket", and "Delavnica: Programiranje grafičnih procesnih enot".

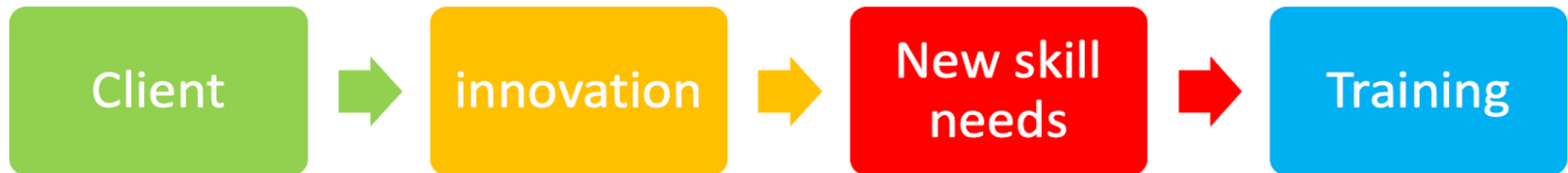
# Austrian NCC







- 1° Level: **Curiosity and Interest**
- 2° level: **High-performance innovation**
- 3° level: **Fieldwork (internship)**



<https://www.cineca.it/index.php/en/projects/euro-cc-italian-competence-center>

The screenshot shows the top navigation bar of the CINECA website. The header is blue with the CINECA logo on the left. On the right, there are search and social media icons, and language selection buttons for IT and EN. Below the header is a dark grey bar with three icons and their corresponding text: 'HIGH PERFORMANCE COMPUTING', 'INFORMATION SYSTEMS FOR UNIVERSITIES AND RESEARCH', and 'SUPPORT TO THE ITALIAN MINISTRY OF EDUCATION, UNIVERSITIES AND RESEARCH'. The main content area has a white background with the title 'EURO CC: ITALIAN COMPETENCE CENTER' in bold black text. Below the title is a breadcrumb trail: 'HOME / PROJECTS / EURO CC: ITALIAN COMPETENCE CENTER'. The text describes the center's mission to support HPC, HPDA, and AI activities for companies, particularly SMEs. It mentions that the center is part of the EuroCC project, coordinated by the European project Castiel, and aims to gain an overall picture at the European level. It also states that the center will enable training and twinning programs among NCCs and is powered by CINECA with collaboration from various Italian organizations. The page ends with a blue footer containing a cookie consent message and a 'No, thanks' button.

**CINECA**

SEARCH | SOCIAL MEDIA | IT | EN | MENU

HIGH PERFORMANCE COMPUTING | INFORMATION SYSTEMS FOR UNIVERSITIES AND RESEARCH | SUPPORT TO THE ITALIAN MINISTRY OF EDUCATION, UNIVERSITIES AND RESEARCH

## EURO CC: ITALIAN COMPETENCE CENTER

HOME / PROJECTS / EURO CC: ITALIAN COMPETENCE CENTER

**The Italian National Competence Center within the EuroCC project** is aimed at supporting the activities on high performance computing (HPC), High Performance Data Analytics (HPDA) and Artificial Intelligence (AI), for the benefit of companies, with particular regard to Small and Medium Enterprises (SMes).

More in detail the competence centre is funnelling the know-how and skills of Research in training and knowledge-transfer actions that are focused on specific and concrete needs of the business community, in collaboration with the associations representing the different business categories.

EuroCC comprises **33 National Competence Centers (NCCs) coordinated by the European project Castiel**. The ultimate goal is to **gain an overall picture at the European level, highlighting the specific competences on HPC, HPDA, and on AI being available for the economy**.

This will enable the activation of training and twinning programs among the NCCs, so as to share experiences, achievements, success stories and international cooperations to serve the companies and the regions.

The Italian NCC is powered by CINECA with the collaboration of **Associazione Big Data, Bi-Rex, Eni, Dompè and Leonardo**.

The actions of the Italian NCC are oriented in three main directions as described hereinafter.

### INDUSTRY

Questo sito utilizza i cookie per migliorare la tua esperienza. Cliccando su qualsiasi link in questa pagina, dai il tuo consenso al loro utilizzo. [Maggiori informazioni](#)

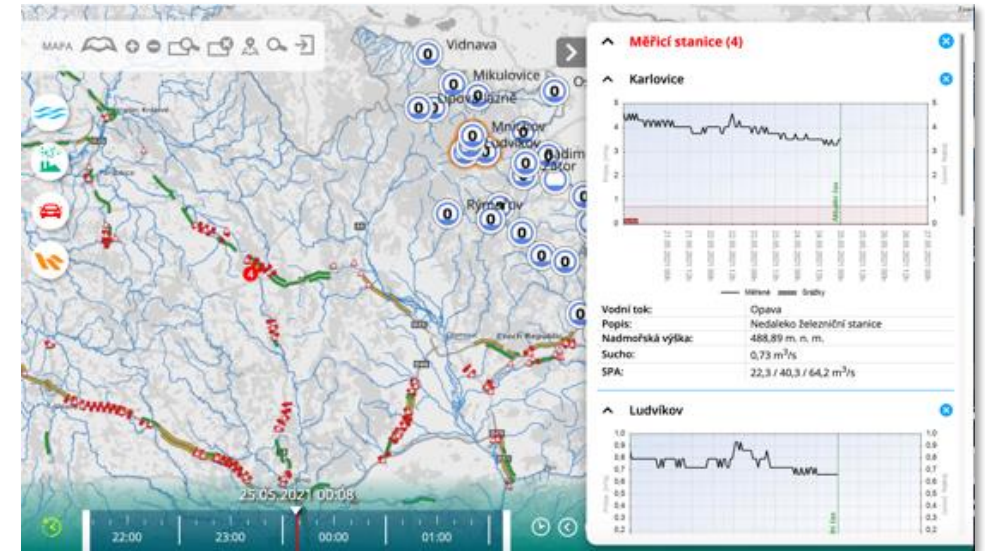
Sì, accetto

<https://www.cineca.it/index.php/en/projects/euro-cc-italian-competence-center>

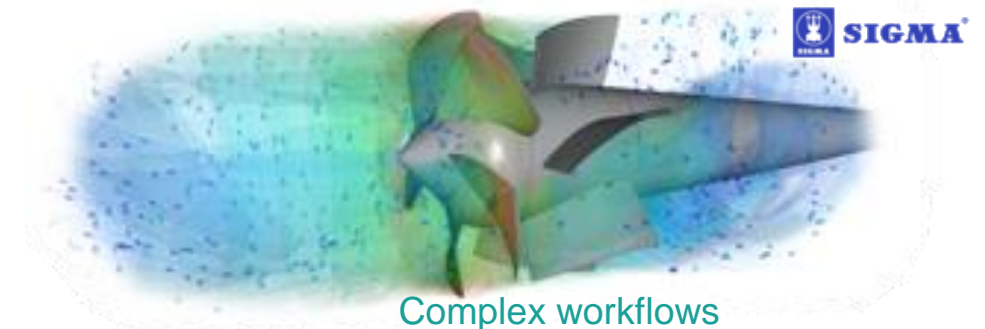
## Activities

1. Providing access to the knowledge and support for the use of HPC, HPDA, AI for all stakeholders from academia, industry and public institutions
2. Training and skills development
  - New training courses based on users needs
  - On-demand training
  - Train the Trainer scheme
3. Collaboration with industry
  - Application of HPC, HPDA, and AI technologies
  - Smart platforms and complex workflows
  - Virtual prototyping, digital twin technology
4. Synergy with Digital Innovation Hub Ostrava

[www.it4i.cz](http://www.it4i.cz)

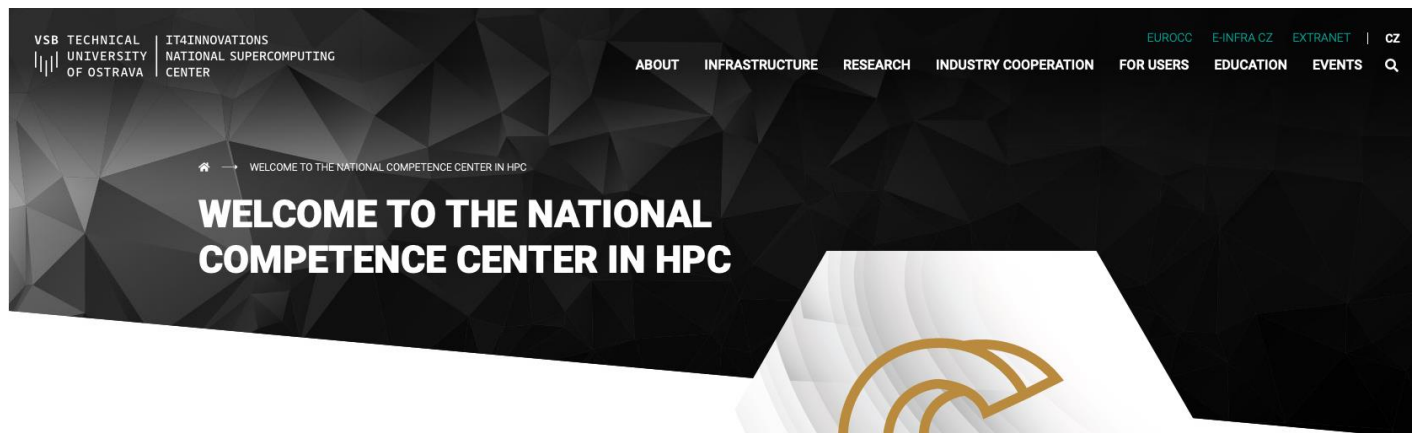


Smart platforms: <https://floreon.eu>



Complex workflows

NCC webpage at [www.it4i.cz](http://www.it4i.cz)



The National Competence Center (NCC) is the reference and the single point of contact and coordination in the Czech Republic for high-performance computing (HPC) and data analysis (HPDA). Its mission is to analyze, implement, and coordinate all necessary activities and offer its services to end users to meet their needs: from access to supercomputers and technology consulting to providing training for industry, public administration, and academia.

In the Czech Republic, the National Competence Center in HPC represented by IT4Innovations aims to gather the necessary expertise to create a trans-European network of national coordination centers on topics related to HPC. The center was created under the auspices of the EuroCC project, which was approved by the European High-Performance Computing Joint Undertaking and is funded by the European Union's Horizon 2020 research and innovation programme and the Czech Republic. The EuroCC project brings together 31 European states to provide a broad portfolio of services tailored to the respective national needs of academia, public administration, and industry. For more information, see: [EuroCC](http://EuroCC).

Periodic newsletter



KVĚTEN / 2021

Milí příznivci HPC,

plníšme vám první Newsletter českého Národního centra kompetence pro HPC (NCK), kterým je IT4Innovations národní superpočítačové centrum. Newsletter shrnuje, co se v uplynulých měsících událo v českém NCK, představuje aktuálně vypsané dotační příležitosti a informuje o novinkách a dění v evropských Národních centrech kompetence projektu EuroCC. Newsletter však také přináší informace o akcích, které proběhnou v nejbližších měsících. Příjemné čtení!

Vaše Národní centrum kompetence pro HPC

## ČESKÉ NÁRODNÍ CENTRUM KOMPETENCE

### IT4Innovations se stává Národním centrem kompetence pro HPC

IT4Innovations se 1. září zapojilo do projektu EuroCC, jehož cílem je sdílení znalostí v oblasti vysoce-výkonného počítání (HPC) v celé Evropě a posílení technologické autonomie a konkurenceschopnosti EU. V České republice se v rámci projektu EuroCC vytváří Národní centrum kompetence pro HPC a zavádí se podpůrné aktivity v této oblasti pro průmysl, veřejnou správu a akademickou obec. Více informací naleznete [ZDE](#).



Thank you for your attention!

<http://sctrain.eu/>

Univerza v Ljubljani



TECHNISCHE  
UNIVERSITÄT  
WIEN



VSB TECHNICAL  
UNIVERSITY  
OF OSTRAVA

IT4INNOVATIONS  
NATIONAL SUPERCOMPUTING  
CENTER



Co-funded by the  
Erasmus+ Programme  
of the European Union

This project has been funded with support from the European Commission.

This publication [communication] reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.