



# InnoHPC - creating an innovative environment for SMEs in the field of HPC

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# InnoHPC - What do we do, where do we fit?

- ▶ Main objective: *creating transnational HPC Lab for co-designing knowledge-intensive innovative products with high value-added, in transnational value chains*
- ▶ DTP project under priority



**INNOVATIVE AND SOCIALLY RESPONSIBLE DANUBE REGION**

- ▶ Being a part of Pole 1



**POLE 1: Innovative  
ecosystem for SMEs**



Danube Transnational Programme

## Where are we from ?



## List of Partners

Name	Type	Email	Country
Faculty of Information studies in Novo mesto	Lead partner	<a href="mailto:borut.roncevic@fis.unm.si">borut.roncevic@fis.unm.si</a>	Slovenia
Executive Agency for Higher Education, Research, Development and Innovation Funding	ERDF partner	<a href="mailto:marius.mitroi@uefiscdi.ro">marius.mitroi@uefiscdi.ro</a>	Romania
University of Rijeka, Center for Advanced Computing and Modelling	ERDF partner	<a href="mailto:zlatan.car@uniri.hr">zlatan.car@uniri.hr</a>	Croatia
IT4Innovations National Supercomputing Center, VSB-Technical University of Ostrava	ERDF partner	<a href="mailto:vit.vondrak@vsb.cz">vit.vondrak@vsb.cz</a>	Czech Republic
Technical University of Kosice	ERDF partner	<a href="mailto:mojmir.pridavok@tuke.sk">mojmir.pridavok@tuke.sk</a>	Slovakia
West University of Timisoara	ERDF partner	<a href="mailto:petcu@info.uvt.ro">petcu@info.uvt.ro</a>	Romania
Chamber of Commerce and Industry of Slovenia – Electronic and electrical engineering association	ERDF partner	<a href="mailto:marko.bohar@gzs.si">marko.bohar@gzs.si</a>	Slovenia
University of Ljubljana	ERDF partner	<a href="mailto:leon.kos@lecad.fs.uni-lj.si">leon.kos@lecad.fs.uni-lj.si</a>	Slovenia
RISC Software GmbH	ERDF partner	<a href="mailto:reka.rizner@risc-software.at">reka.rizner@risc-software.at</a>	Austria
Research Centre Regional and Global Development	ERDF partner	<a href="mailto:yantsislavyanakiev@gmail.com">yantsislavyanakiev@gmail.com</a>	Bulgaria
Budapest Chamber of Commerce and Industry	ERDF partner	<a href="mailto:projektiroda@bkik.hu">projektiroda@bkik.hu</a>	Hungary
Regional economic development agency for <u>Sumadija</u> and <u>Pomoravlje</u> Ltd.	IPA partner	<a href="mailto:nenad.popovic@redasp.rs">nenad.popovic@redasp.rs</a>	Serbia
Sarajevo Economic Region Development Agency	IPA partner	<a href="mailto:asmir@serda.ba">asmir@serda.ba</a>	Bosnia and Herzegovina
Regional Development Agency for Bjelasica, Komovi and Prokletije	IPA partner	<a href="mailto:ikrivcevic@bjelasica-komovi.co.me">ikrivcevic@bjelasica-komovi.co.me</a>	Montenegro
University of Novi Sad, Faculty of Sciences	IPA partner	<a href="mailto:srdjan.skrbic@dmi.uns.ac.rs">srdjan.skrbic@dmi.uns.ac.rs</a>	Serbia
Agency for Innovation and Technology Transfer	Associated partner	<a href="mailto:ulinci.d@gmail.com">ulinci.d@gmail.com</a>	Moldova
The University of Edinburgh, Edinburgh Parallel Computing Centre	Associated partner	<a href="mailto:adriani@epcc.ed.ac.uk">adriani@epcc.ed.ac.uk</a>	United Kingdom
Waterford Institute of Technology	Associated partner	<a href="mailto:wogorman@wit.ie">wogorman@wit.ie</a>	Ireland

## Who are the target groups

- ▶ SMEs
  - ▶ Tier I and Tier II suppliers in *automotive* and *electronic industry*, throughout the Danube region,
- ▶ HPC providers/competence centers
- ▶ Policy-makers and development agencies (reindustrialization)

## The InnoHPC contribution

- ▶ Analyzing the situation in the Danube region
  - ▶ HPC (providers and competence centers) and designated SMEs, cataloguing industrial absorptive capacity and mapping the region
  - ▶ Making first effort in establishing a database of institution covering the supply and demand side.
- ▶ Most important result of the the first year,
  - ▶ *Digital transformation of industry guidelines*

# Digital transformation of industry guidelines (Danube region)

- ▶ 5 main guidelines, tailored to address the diversity of Danube countries
  - ▶ **Accelerate awareness** of the digital transformation and role of high-performance computing in this process.
  - ▶ Continue, enhance and target support for **knowledge exchange and cooperation** between universities and industry
  - ▶ **Promote, educate and train** for Industry 4.0 throughout the Danube region.
  - ▶ Support **regional infrastructure** for research and development.
  - ▶ Harmonize relevant **legal regulation** for digitalization and its enforcement.

# InnoHPC most important contribution

- ▶ Most important contribution of the second year
  - ▶ Establishment of transnational InnoHPC Lab ‘one-stop-shop’ with online access for SMEs and HPC centres where new ideas and new collaboration is established. The online platform includes all necessary educational tools and transferability tools.
  - ▶ InnoHPC LAB - <https://innohpclab.fis.unm.si/>



## InnoHPC Lab offers

- ▶ One-stop-shop

This multi-purpose platform provides tools to encourage development of transnational linkages between innovation actors, leading to transnational clusters.

- ▶ Transnational access to HPC

Gain transnational access to HPC infrastructure and boost your innovative process through simulations of business processes, manufacturing or services.

## InnoHPC Lab

- ▶ Meta-solutions

Choose from several shared meta-solutions, such as guidance, frameworks for implementation, success stories, lessons learnt, etc. and optimize your process flow.

- ▶ Collaborative tools

Contribute to discussion forums and enable peer and mutual learning exploiting, as well as search for possible partners, communications with HPC experts.

# How to become a member of InnoHPC Lab

- ▶ Access rules?
  - ▶ Free of charge
  - ▶ Based on the membership - signing up, accepting terms and services
  - ▶ Contributing data about HPC capabilities, about competences
  - ▶ Information about field of operation, willingness to cooperate
- ▶ How to access?
  - ▶ Each of the Danube Countries has a representative
  - ▶ Each representative serves as contact point in a form of liaison office

## Final months of the InnoHPC

- ▶ Pilot testing of the InnoHPC LAB (automotive and electronic industries)
  - ▶ 6 SMEs from electronic industry
  - ▶ 7 SMEs from automotive industry
- ▶ Firstly, open call was published, and 13 applied SMEs were selected to participate at piloting
- ▶ Transnational cooperation was established, working pairs were established, with one SME and one HPC.
- ▶ Each pair is working to find a solution of business problem by help of HPC



## Patent analytics and IPR management training

SLOVAKIA, CROATIA, BOSNIA AND  
HERZEGOVINA, MOLDOVA, UKRAINE

**OCTOBER 12-14, 2020**

INITIAL EVENT VIA ZOOM WITH OTHER  
ACTIVITIES IN VIRTUAL CLASSROOM



- ▶ Mid October, is the best to dedicate three days to new knowledge about technology transfer, IPR, and patent analytics. Additionally, we will equip you with few hints on how IPR management in companies looks like. The training is going to be fully online (Virtual classroom) with additional Zoom events in selected countries.

Register HERE: <https://forms.gle/wccxYyUNKhFCdEea8>