SME/HPC project
SME/HPC HEI CAPACITY BUILDING WORKSHOP

Following the HPC Benchmark Audit report, **SME/HPC HEI Capacity Building Workshop** was organised by Northumbria University. It took place from Friday June 7th till Friday June 21st 2019.

The aim of the workshop was to train participating SME/HPC HEIs staff to design and deliver **HPC training courses** for and to enterprises. The deliverables of the workshop are highly relevant for the successful implementation of SME/HPC because in Partner Countries:

(i) **HPC is a rapidly developing field of expertise,** where new systems and technologies are emerging with immense speed and at the same time their regions are not at the forefront of this development;

ii.) **University-enterprise gap is even bigger and** linkages even weaker than is the case in more developed regions; hence, these HEIs from less developed regions have even **less experience** teaching short-term training courses.

Workshop Topics

- **How to use HPC** infrastructure for special purposes
- **Technical aspects of HPC usage:** how HPC can be used, its capabilities, flexibilities of the infrastructure for SMEs to use
- How the target audience can **engage with international/national points** of view, HPC networks and their benefits for SMEs

Workshop Target Audience

- **HEI researchers** that are either experts in the area of HPC or entrepreneurship/SMEs
- **Technology transfer officers**, that are able to "sell" the HPC concept
- **Business oriented** lecturers/researchers that can engage with SMEs

- **Understanding the basic SME infrastructure** to be able to build the bridge to HPC infrastructure (special software, etc.)
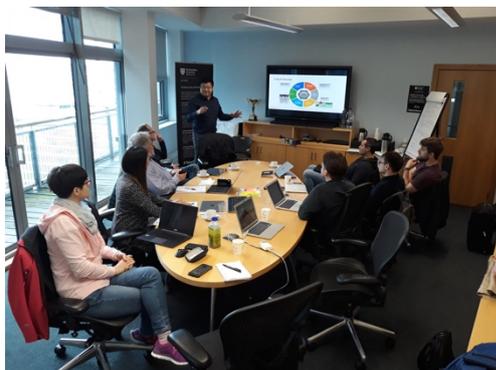- **Legal aspects:** contracts, IP, contractual agreements, NDA, etc.

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- **Costs aspects**: what are the costs associated with the use of HPC (energy/time/resources), billing (invoices) activities
- Working on **Case studies and Self-directed** learning activities

- Extensive comprehension of the **self-study material**
- Completion of **self-directed learning activities**;
- **Effective sharing of knowledge, practices and technologies** from all participating project partners.

Additional in-depth HPC information

During the workshop a special lecture was organized on: **What ICHEC is all about**, its structure, what it does, etc. Guest lecturer was **Simon Wong** from Irish Centre for High-End Computing (ICHEC).
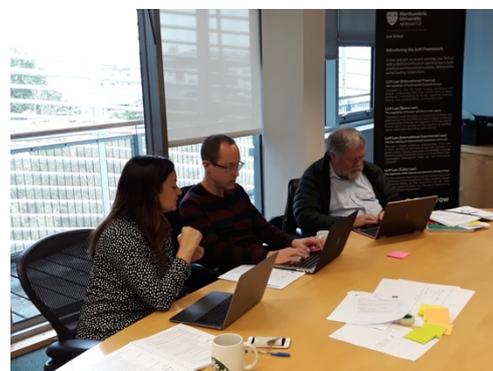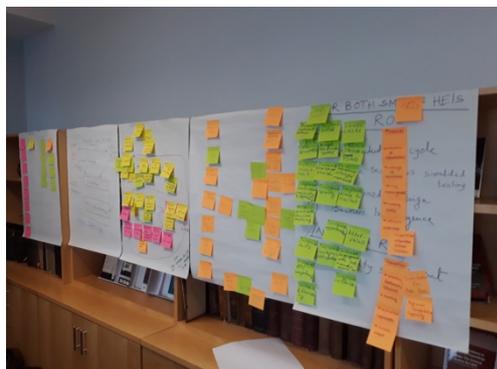
The SME/HPC HEI Capacity Building Workshop finished successfully. It met all the predicted aims and outcomes. Four documents were prepared: one **template for a training programme** and **3 pilot region specific training programmes.**

Workshop Outcomes

- **In-depth understanding** of the current situation in the pilot partner countries
- Designing **a template** for HPC training courses for enterprises

In addition to that, a special document with **guidelines and recommendations** was written as a preparation for the **on-the-job experience**, which will follow in fall.

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More about **what is HPC** is available **HERE**:
https://insidehpc.com/hpc-basic-training/what-is-hpc/

To learn more **about the project**, please visit our **Webpage**: https://www.smehpc.eu/ .

Partners of the project:

Waterford Institute *of* Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

Northumbria University NEWCASTLE

FIS Fakulteta za informacijske študije
Faculty of information studies

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