



EuroHPC
Joint Undertaking



1st Icelandic HPC Community Workshop
Endurmenntun HI, Dunhaga 7, 107 Reykjavik – Room Náma
11th August 2021 – 5:00 – 7:00 p.m. GMT

Background

The Icelandic High-Performance Computing (IHPC) activities are increasing in academia and industry that also includes related areas such as Artificial Intelligence (AI), Machine Learning (ML), Data Analytics, and Data Sciences. As a result, the IHPC community members created Icelandic Simulation and Data Labs (SDLs)¹, including academic and industrial partners. They form together in a bottom-up fashion the IHPC National Competence Center for HPC & AI in Iceland partly funded by the EuroHPC Joint Undertaking EuroCC project. The IHPC community seeks more collaborations and new members.

Objectives

This workshop aims to bring together a diverse group of Icelandic and international stakeholders to discuss the role of HPC and related areas within Iceland without losing sight of its international links.

The specific objectives of the workshop are to:

- **Document competencies, achievements, activities, and lessons learnt** from participating stakeholders of Icelandic HPC efforts and associated international activities.
- **Perform community building** in developing new successful joint activities between academia and industry, potentially creating new joint Simulation and Data Labs or collaborations.
- **Identify best practices and core principles with a set of recommendations** for developing the future Icelandic HPC ecosystem, including necessary skills, funding opportunities, applications, Centre of Excellences, community events, and sustainable infrastructure developments.

Participants

Approximately 20-25 participants from Iceland, Germany, and the USA. Participants will include:

- Selected Icelandic companies and SMEs from different sectors with interest in HPC & AI
- Academic representatives from the University of Iceland and Simulation and Data Labs
- The Icelandic Centre for Research (Rannís), Startup Iceland, and Icelandic Technology Clusters
- US company that forms government, industry, and academic cooperative research coalitions

Output

The following outputs are expected:

- A short synthesis paper that documents Icelandic competencies, field experiences and achievements in using and/or offerings HPC & AI solutions and consideration of 'best practices'
- A short strategy paper responding to HPC & AI issues and challenges identified during the workshop, including potential options for jointly engaging in EuroHPC funding opportunities
- Strengthened informal networks and transfer of experiences and lessons learnt

¹ Icelandic HPC (IHPC) Community Web page, Online: <https://ihpc.is/community/>



UNIVERSITY OF ICELAND
SCHOOL OF ENGINEERING AND NATURAL SCIENCES
FACULTY OF INDUSTRIAL ENGINEERING,
MECHANICAL ENGINEERING AND COMPUTER SCIENCE



Agenda (version 2)

5:00 – 5:15	Informal Welcome – Participant Introduction & Discussions <i>(Coffee/Tea/Refreshments, Snacks, and Sandwiches available)</i>	All
5:15 – 5:25	Opening remarks & Workshop objectives & Introduction EuroCC IHPC National Competence Center for HPC & AI	Prof. Dr. – Ing. Morris Riedel (University of Iceland)
5:25 – 5:30	Q & A	All
5:30 – 5:40	Infrastructure, Services, and HPCFlow from atNorth	Rui Gomes (atNorth)
5:40 – 5:45	Q & A	All
5:45 – 5:55	Simulation and Data Lab Computational Fluid Dynamics	Seydreza Hassanianmoaref (University of Iceland)
5:55 – 6:00	Q & A	All
6:00 – 6:10	An Overview of the Reykjavik Institute and its Strategic Planning for Icelandic Stakeholders	Bill Patrowicz (Kaiser Global)
6:10 – 6:15	Q & A	All
6:15 – 6:25	From Management Games to the idea of „Dig In“ and its future	Baldvin Albertsson & Björn H. Helgason (Vitargames)
6:25 – 6:30	Q & A	All
6:30 – 6:40	Accurate Virtual Acoustics Enabled by High-Performance Computing	Finnur Pind (Treble)
6:40 – 6:45	Q & A	All
6:45 – 7:00	Workshop Closing – Concluding remarks with next steps <i>(Coffee/Tea/Refreshments, Snacks, and Sandwiches available)</i>	All

Workshop Location

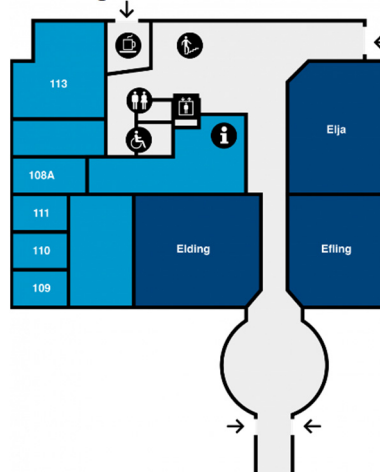
Address: Endurmenntun HI, Dunhaga 7, 107 Reykjavik, Iceland

Room Náma (kjallari/cellar)²

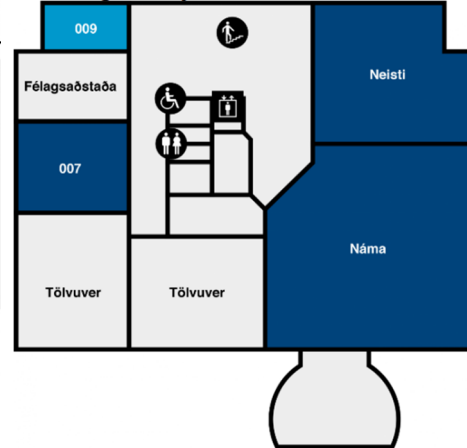
Dunhagi 7 Outside



Dunhagi 7, 1. Hæð/Basement



Dunhagi 7, Kjallari/Cellar



² Workshop Location Endurmenntun HI, Online: https://www.hi.is/endurmenntun_vid_dunhaga