



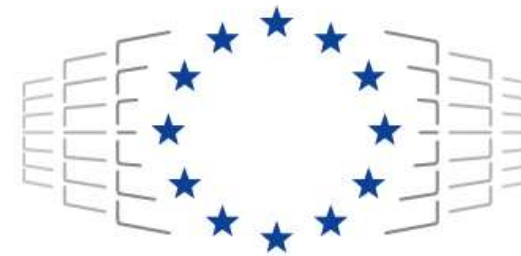
# **EuroHPC - the European strategy for supercomputing**

**Update for HPC User Forum Sept 2019**

## A legal and funding agency created by the European Council

- EU + 29 Participating States
- Site: Luxembourg
- Budget (2019-2020): ~1 Billion Euros (half from EU)
- Operational: Nov. 2018 to end 2026

**Mission:** Establish an integrated world-class supercomputing & data infrastructure and support a highly competitive and innovative Supercomputing and Big Data ecosystem



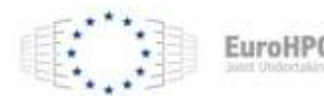
**EuroHPC**  
Joint Undertaking

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

## #EuroHPC (high performance computing) Joint Undertaking

The European High Performance Computing Joint Undertaking (EuroHPC JU) will pool European resources to develop top-of-the-range exascale supercomputers for processing big data, based on competitive European technology.

Its member countries are Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and Turkey.



## High-range Supercomputers

### 3 sites selected

performance: 150-200 Pflops

**Investment: ~€650 million  
(CAPEX+OPEX)**

50% from EU and 50% from Consortium

### Sites and supporting Consortia

- Kajaani (FI) – FI, BE, CZ, DK, NO, PL, SE, CH, EE
- Barcelona (ES) – ES, HR, PT, TR, IE
- Bologna (IT) – IT, SI, HU

### EuroHPC JU is the owner

- Open procurement starts in Q4 2019
- expected installation Q4 2020)

## Medium-to-high range Supercomputers

### 5 sites selected

performance: at least 4 Pflops

**Investment: 180 million Euros (CAPEX)**  
34 Million from EU

### Sites and supporting Consortia

- Bissen (LU) – LU
- Minho (PT) – PT, ES
- Ostrava (CZ) – CZ
- Maribor (SI) – SI
- Sofia (BG) – BG

### EuroHPC JU is co-owner

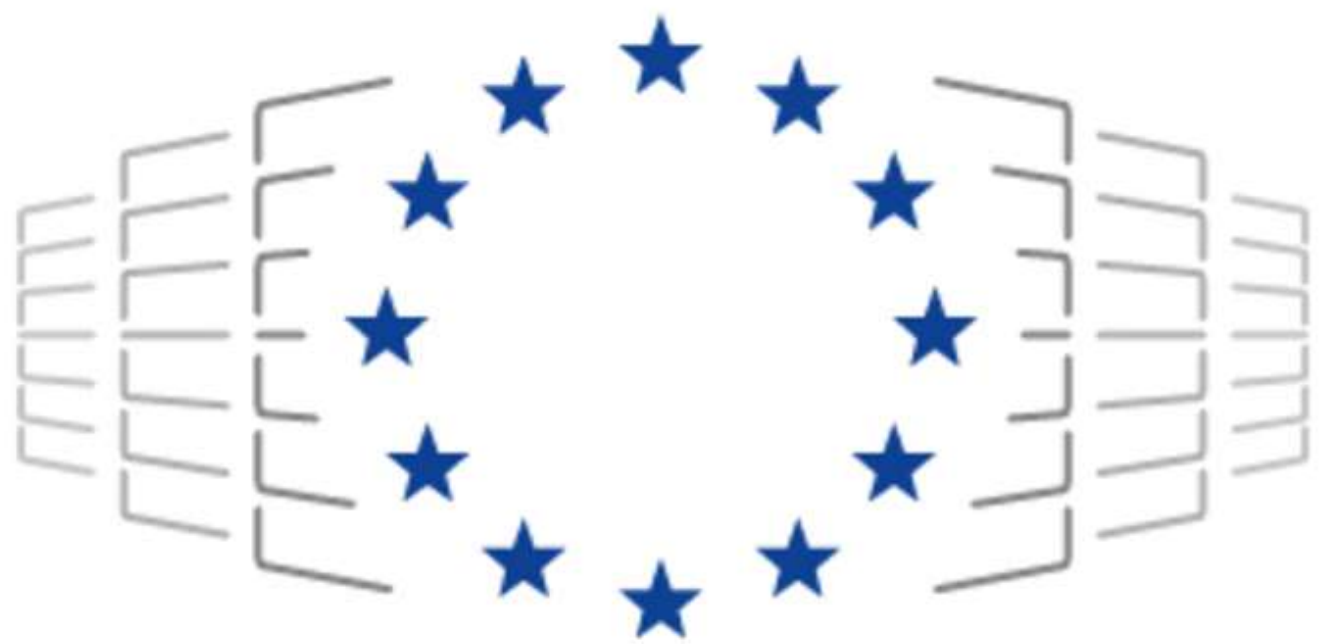
- Open procurement starts in Q4 2019
- expected installation by Q2-Q3 2020)



## More than 360 M€ for R&I activities in 2019-2020

- **Technologies, Systems and Applications for extreme computing**
  - Next generation low-power microprocessors
  - Novel computing architectures, software, and tools (including mixed HPC, AI, Big Data workloads)
  - Pilot system demonstrators towards Exascale
  - HPC and Big Data application platforms in strategic European industrial sectors
  - Support to (science-based) Centres of Excellence
  
- **Supporting large-scale HPC capacity building and widening HPC use**
  - A network of national HPC competence centres and their coordination
  - Support to innovative SMEs
  - Support to large-scale training and skills building





**EuroHPC**  
Joint Undertaking