



EuroHPC
Joint Undertaking

The EuroHPC Research and Innovation Pillar

EuroHPC BoF, EuroHPC Summit Week

Poznan, 14 May 2019

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Policy Officer

European Commission

■ EuroHPC JU

EuroHPC JU Participating States

28 Participating States

Austria, Belgium, Bulgaria, Croatia, 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.



MISSION: develop, deploy, extend and maintain in the Union an integrated world-class supercomputing and data infrastructure and to develop and support a highly competitive and innovative High-Performance Computing ecosystem

Infrastructure Pillar

Activities for the **acquisition**, deployment, interconnection, **operation** and access time management of world-class **supercomputing and data infrastructures**

R&I Pillar

Activities for supporting a **R&I agenda** for establishing an innovation ecosystem addressing hardware and software supercomputing technologies and their integration into exascale supercomputing systems, advanced applications, services and tools, skills and know how



JU R&I Pillar

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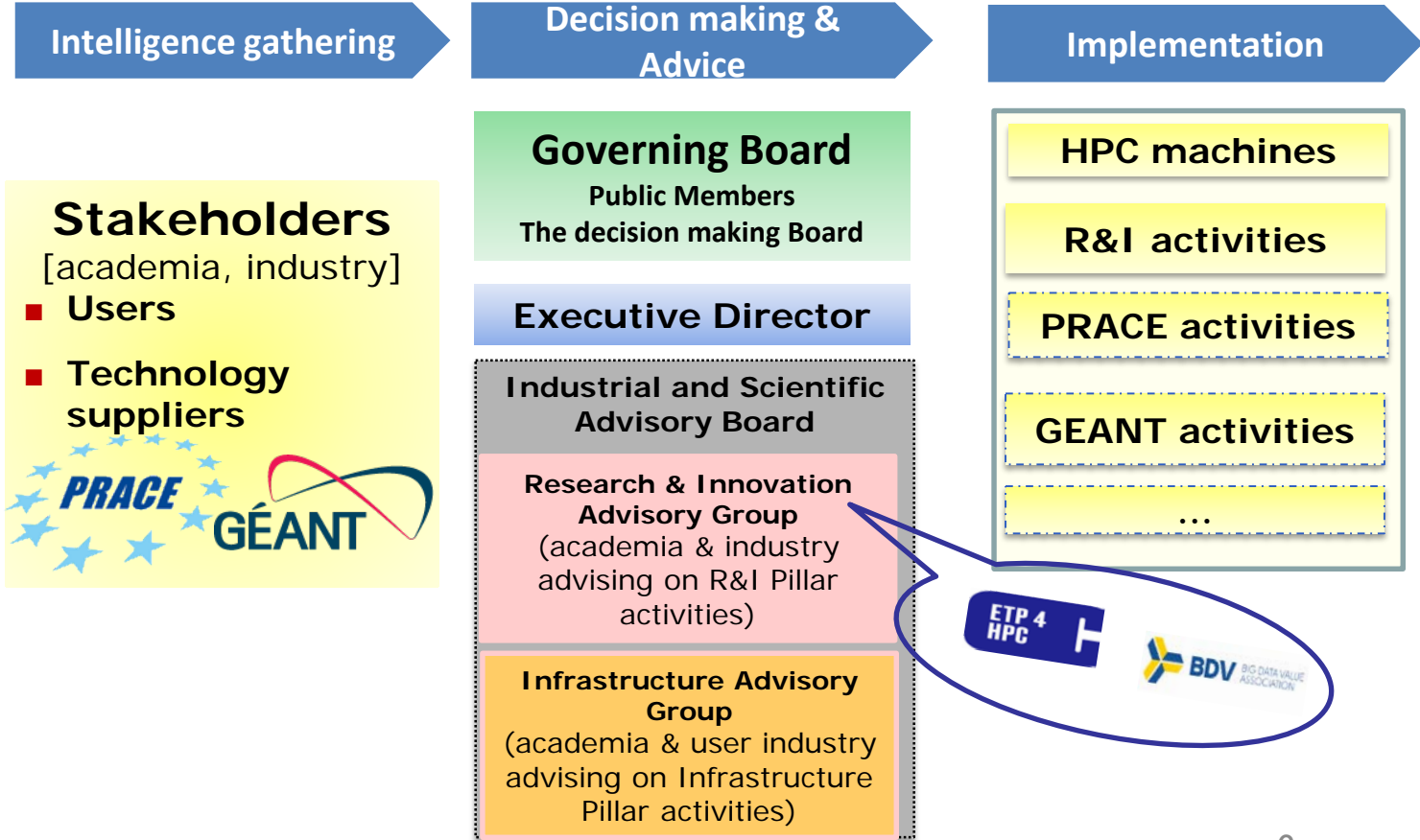
RIAG Mission (Regulation)



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- Draw up & update draft multiannual strategic research and innovation agenda
 - to achieve the objectives of the Joint Undertaking set out in Article 3 of the Regulation
 - to identify research and innovation priorities
 - To support the development of an integrated HPC ecosystem in the Union,
 - To strengthen competitiveness and help create new markets and societal applications
- Submit draft multiannual strategic agenda to Executive Director => Work Plan 2019-2020
- Organise public consultations

Governance

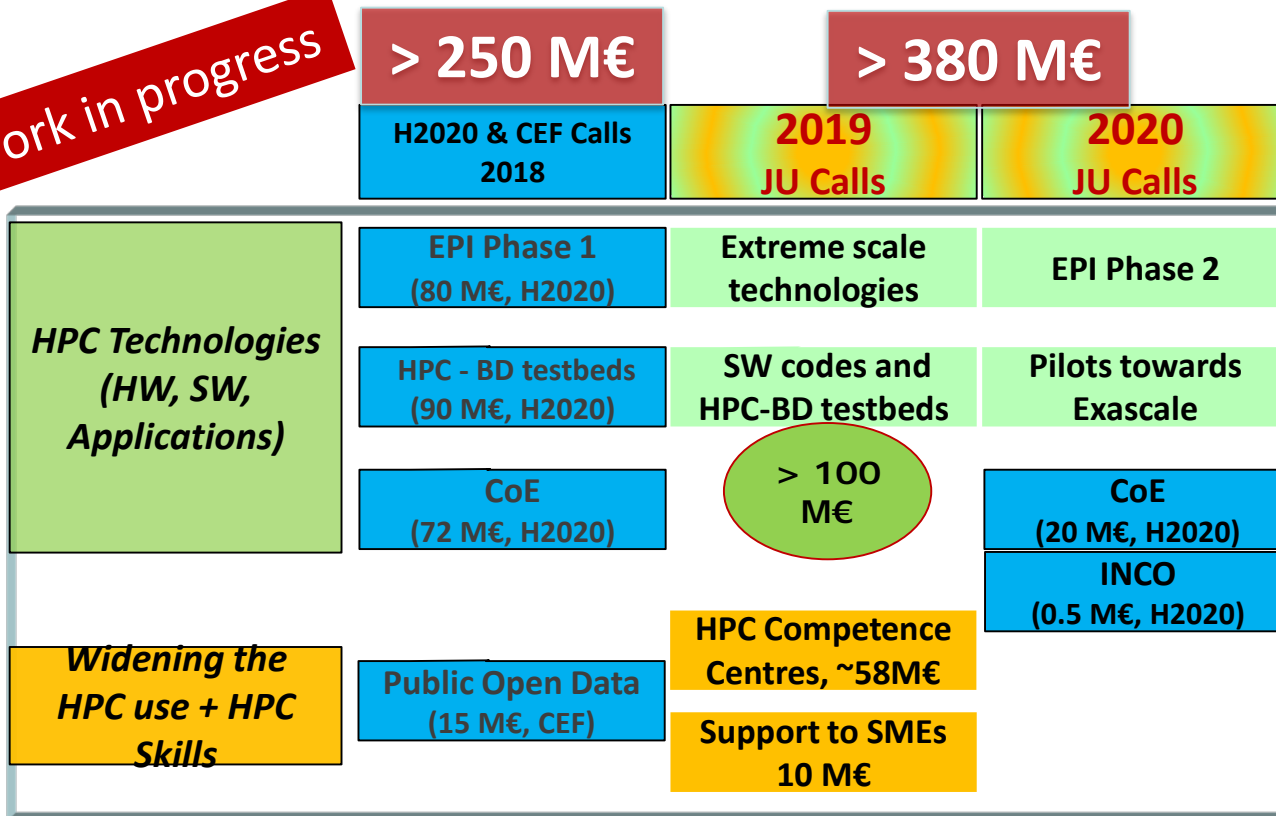


Building a competitive Ecosystem

R&I Calls 2019-2020



Work in progress



EuroHPC 2019 R&I Call planning (indicative)



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- **Workplan adoption: by end of June 2019**
- **Call publication: early July 2019**
- **Call closure: end-October**
- **Evaluation: November**
 - ⇒ Following standard H2020 evaluation process
- **Projects start: April/May 2020 (TTC = 5+3 months)**
 - ⇒ Prefinancing May 2020
 - ⇒ EU budget 2019
 - ⇒ PS budget 2019 and/or 2020

Info Day and Training for National Contact Points (NCP) after the calls are published (July / September)

EuroHPC 2019 R&I Call planning (indicative)



- **Call pre-requisites**

Input from Participating States on:

⇒ National budget per call topic

⇒ National funding rates

⇒ National contact points / funding programs

⇒ Signed Admin Arrangement



NEW MFF (DEP & HORIZON EUROPE, CEF2)



New MFF Objectives

Implement the European strategy on HPC by supporting a full EU ecosystem that provides the necessary HPC and data capabilities for Europe to compete globally.



HPC & Data Infrastructure

- Deploy a world-class HPC and data infrastructure with exascale/ capabilities by 2022/2023



Independent EU Technology

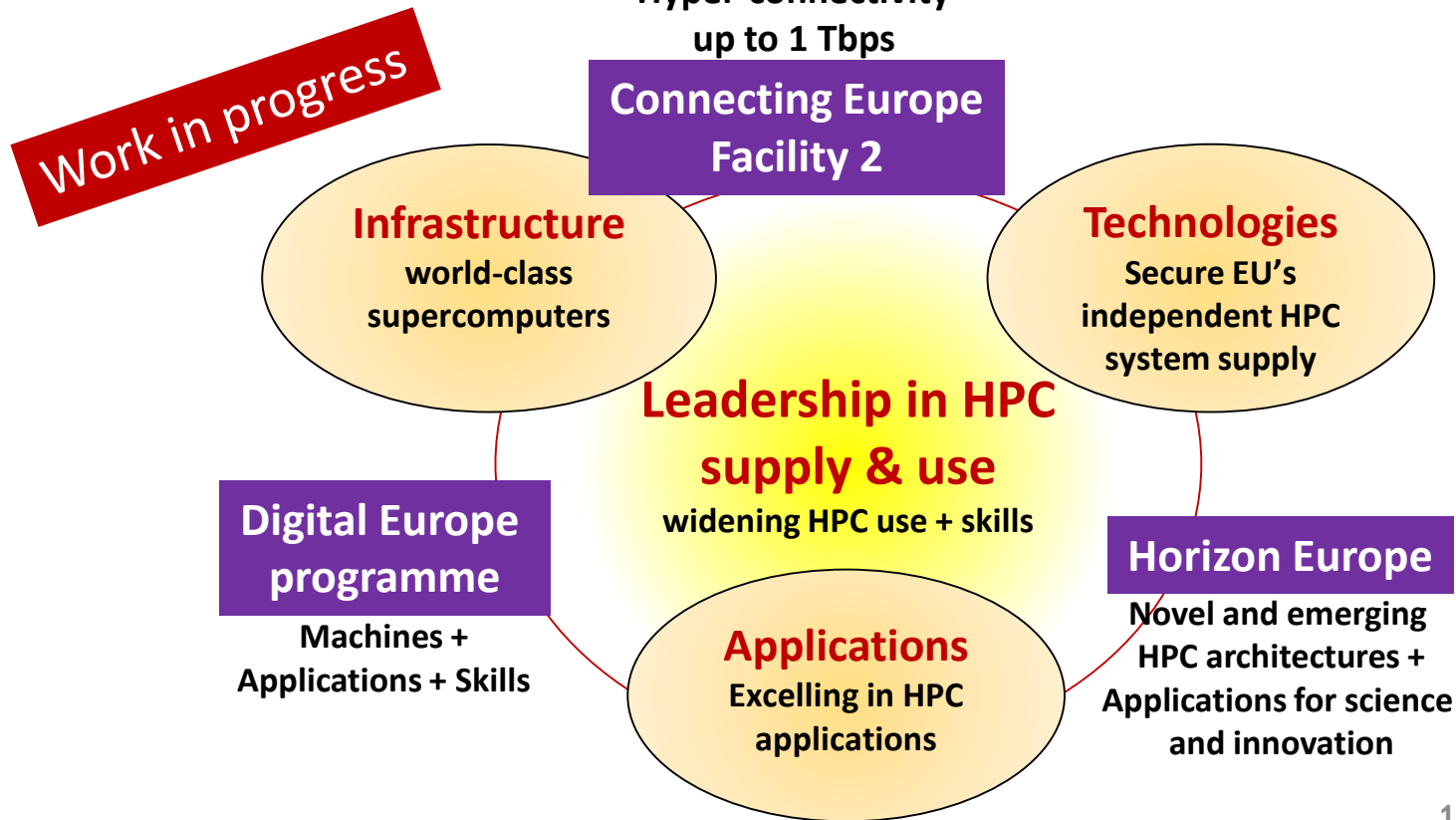
- Post exascale facilities by 2026/27, endowing the Union with its own independent and competitive HPC technology supply



HPC Applications & Skills

- Achieving excellence in HPC applications and widening HPC availability and use.
- HPC Centers of Excellence

The EuroHPC Strategy in 2021-2027



Building on the EuroHPC activities we aim to:

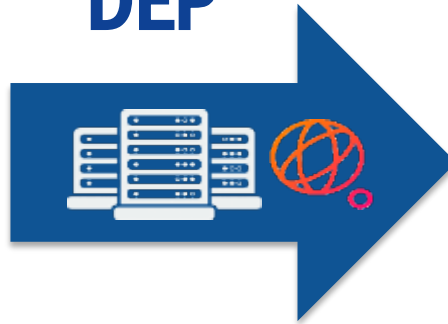
Upgrade and strengthen the EU's HPC and data processing capacities, and ensure their wide use both in areas of public interest and by industry, notably SMEs

**Current MFF
- 2020)**

(2018

- Petascale
- Pre-exascale
- Access to HPC resources
- CoEs
- Quantum Technologies

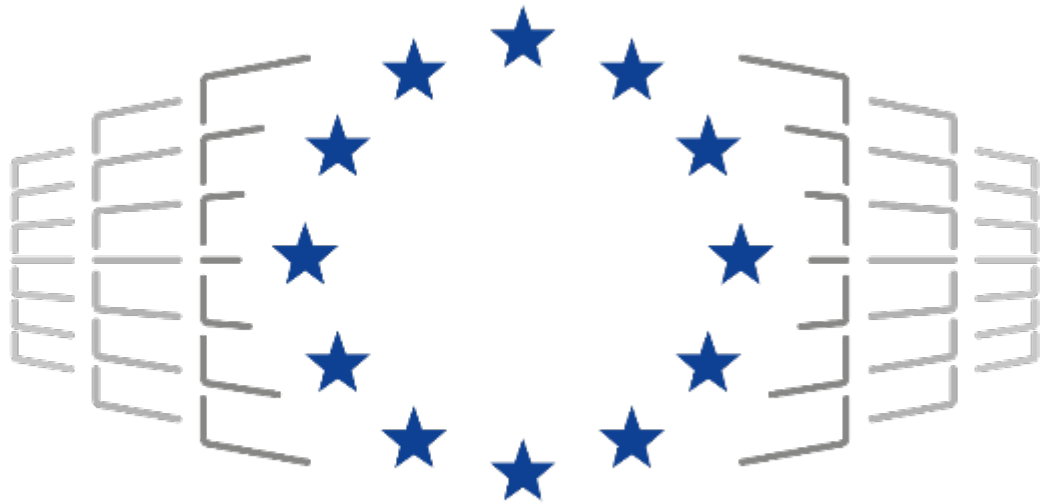
DEP



**Next MFF
2026)**

(2021-

- Exascale
- Post-Exascale
- Hybrid HPC Quantum Computing
- HPC Centers of Competence



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