# FocusCoE
## Concerted action for the European HPC CoEs

FocusCoE Introduction

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Session: The HPC Centres of Excellence in the EOSC arena
11.4.2019

FOCUS CoE
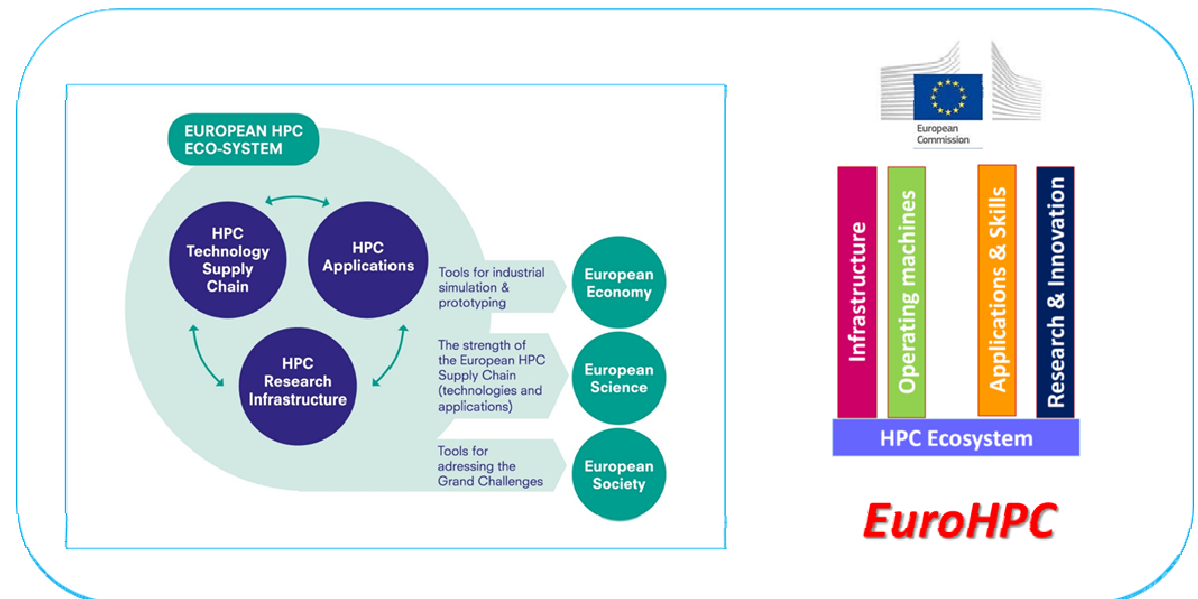
European Excellence in HPC Applications

# FocusCoE Consortium

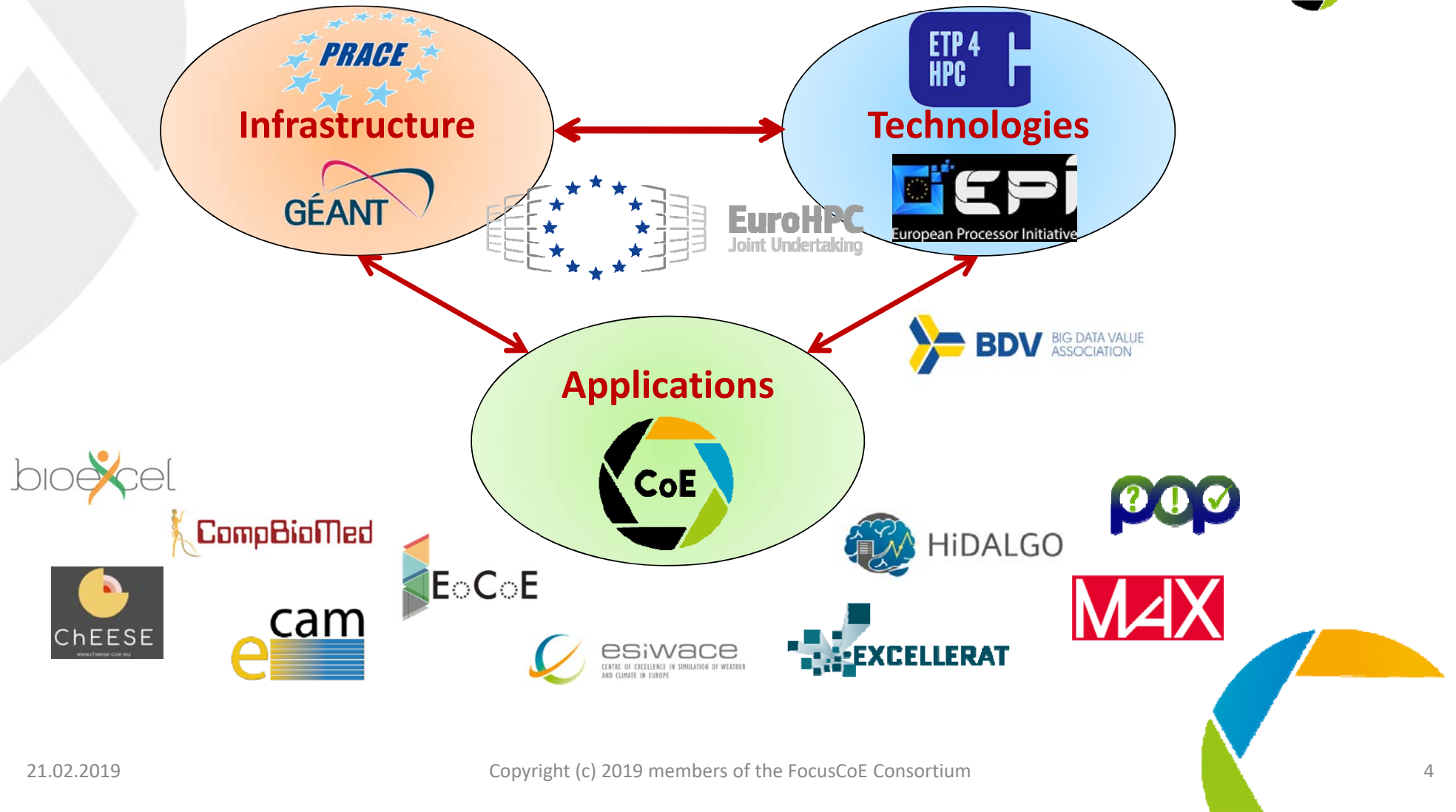| Participant No | Participant organisation name | Country | Short name |
|---|---|---|---|
| 1 (Coordinator) | scapos AG | DE | Scapos |
| 2 | Commissariat a l Energie Atomique et aux Energies Alternatives | FR | CEA |
| 3 | Kungliga Tekniska Högskolan | SE | KTH |
| 4 | Universitaet Stuttgart | DE | USTUTT |
| 5 | Barcelona Supercomputing Center - Centro Nacional de Supercomputacion | ES | BSC |
| 6 | University College London | UK | UCL |
| 7 | Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile (ENEA) | IT | ENEA |
| 8 | National University of Ireland, Galway | IE | NUI GALWAY |
| 9 | Teratec | FR | Teratec |
| 10 | Forschungszentrum Jülich GmbH | DE | FZJ |
| 11 | Partnership for Advanced Computing in Europe AISBL | BE | PRACE |

# General FocusCoE Objective

Supporting European HPC
CoEs to effectively fulfil
their role as one of the
three pillars of the
European HPC Initiative



ETP4HPC representation of the 3 pillars of the European
HPC ecosystem (from the Strategic Research Agenda
2017) and the operational objectives for the EuroHPC JU

# The EU HPC EcoSystem

# EU HPC CoEs

- **Newly launched**
- BioExcel 2, https://bioexcel.eu/          Biomolecular Research
- ChEESE, https://cheese-coe.eu/          Solid Earth
- EoCoE-II, https://www.eocoe.eu/          Energy
- ESiWACE2, https://www.esiwace.eu/          Weather & Climate
- EXCELLERAT, https://www.excellerat.eu/wp/          Engineering
- HiDALGO, https://hidalgo-project.eu/          Global Challenges (migration, pollution, social networks)
- MaX, http://www.max-centre.eu/          Materials Design
- POP 2, https://pop-coe.eu/          Performance optimization & prductivity
- **Continuing**
- CompBioMed, https://www.compbiomed.eu/          Biomedical
- E-CAM, https://www.e-cam2020.eu/          Electronic structure, quantum dynamics,….

# FocusCoE Objectives – high level

- To create a platform, the <span style="color:red">EU HPC CoE General Assembly</span>, that allows all HPC CoEs to collectively define an overriding strategy and collaborative implementation for interactions with and contributions to the EU HPC Ecosystem.

- To support the HPC CoEs to achieve enhanced <span style="color:red">interaction with industry, and SMEs in particular, through concerted out-reach and business development actions.</span>

- To instigate concerted action on training **by and for** the complete set of HPC CoEs: providing a <span style="color:red">consolidating vehicle for user training offered by the CoEs and by PRACE (PATCs)</span> and providing cross-area training to the CoEs (e.g. on sustainable business development)

- <span style="color:red">To promote and concert the capabilities of and services offered by the HPC CoEs and development of the EU HPC CoE "brand"</span> raising awareness with stakeholders and both academic and industrial users.

# Objective 1: *Establishing the EU HPC CoE General Assembly*

- GA to achieve "coordination of activities and service offerings for the set of CoE projects"

- Collaborative definition of an overall (cross-CoE) strategy & identification of joint activities (maybe CoE sub-groups)

- Common strategy to support role of Applications in HPC Ecosystems and EuroHPC

- GA chairman to participate in FocusCoE Project Board as advisor

- All present & future CoEs as participants; ETP4HPC & PRACE; possibly other CSAs or organisations

Inaugural GA Meeting, May 17th during EHPCSW, Poznan

# Objective 2: *Concerted industrial out-reach & business development for the EU HPC CoEs*

- Promotion of CoE services and competence to industry

- Targets: large European industrial companies and European SMEs

- Focus on actions that have added value compared with a direct action by one of the CoEs

- Sectorial approach: presenting potential services of all active CoEs to relevant industrial sectors

- Monitoring process to be established – aggregate successful contacts and document industrial achievements [linked to] CoE activities

- Business development support (analysis of needs → feedback to CoEs)

- Exachange of best practice re industry-CoE interactions

# Objective 3: *Concerted training actions for and to the EU HPC CoEs*

- … Unified and searchable space [to facilitate].. identifying, exposing and enhancing complementarity of training events from CoEs and PRACE (as well as related projects and HPC Centres)… and also to identify gaps

- Use [above] to coordinate and improve awareness of training offerings … leading to collaboration and joint events (gaps or common interests)

- Success Measures: training registry (with PRACE), transversal training, creation of sample training courses CoE apps at scale, workshops on event capture & online training

- Business development: collect best practices & provide training

- Organise a comprehensive European stakeholder workshop on HPC training and skills development needs
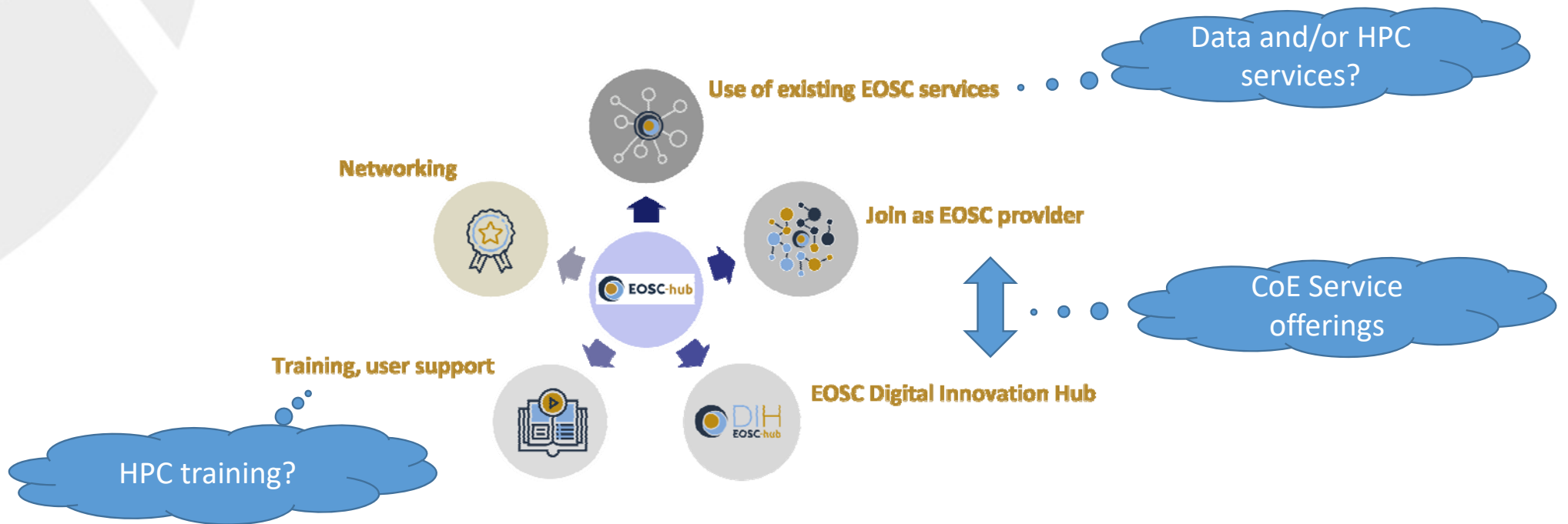
Planned for Sept./Oct. 2019 timeframe

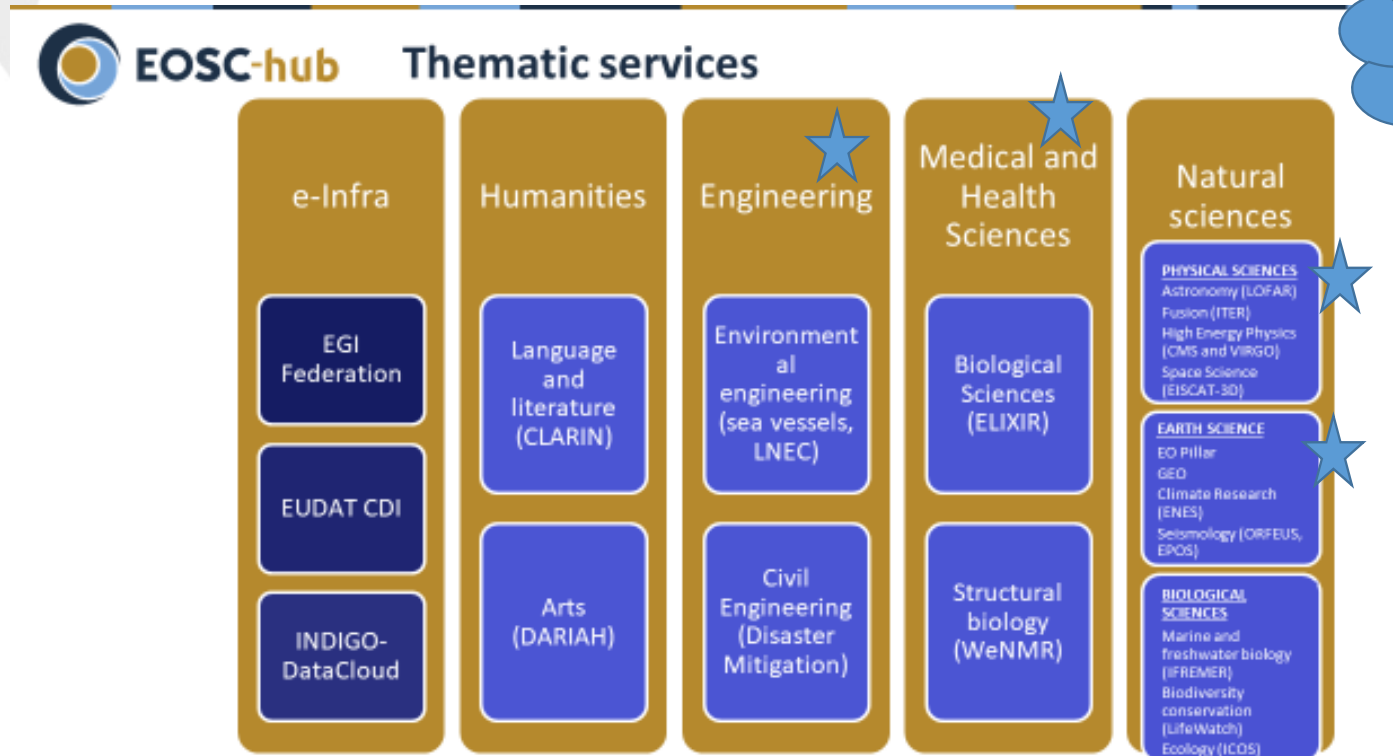# Objective 4: *Establishing the EU HPC CoE Brand*

- Promote the CoE's competences and service offerings, and in general the work being done by them

- FocusCoE to act (position itself ) as a spokesperson for all CoEs

- Targeted communications & dissemination - online/offline channels

- CoE Support via: newsletters, database of relevant stakeholders (& needs), workshops/event participation for CoE internal and external discussions

# CoEs and EOCS-hub... just thinking aloud (1)

# CoEs and EOCS-hub... just thinking aloud (2)

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More Info:
https://www.focus-coe.eu/

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