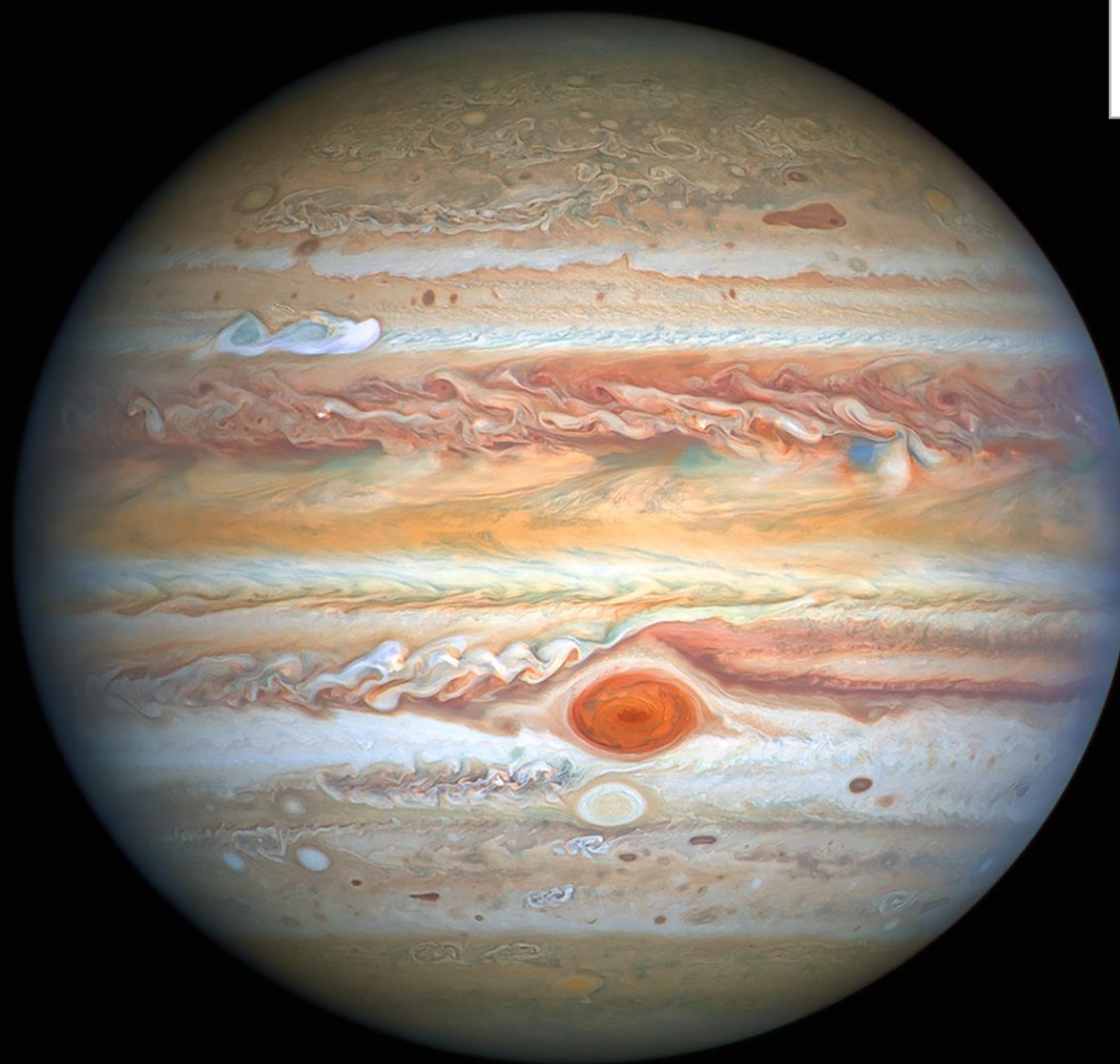


<https://pop-coe.eu/news/events/readiness-of-hpc-extreme-scale-applications-2nd-edition>

CONNECTING THE DOTS



JUNE 10 - 13, 2025 | HAMBURG, GERMANY



Hamburg, 13 June 2025
2nd International Workshop on
Readiness of HPC Extreme-scaling Applications



EuroHPC
Joint Undertaking



2nd International Workshop on Readiness of HPC Extreme-scaling Applications

Marta García-Gasulla (Barcelona Supercomputing Center)
Brian J. N. Wylie (Jülich Supercomputing Centre)

HORIZON-EUROHPC-JU-2023-COE



EuroHPC
Joint Undertaking

Grant Agreement No 101143931

1 January 2024 – 31 December 2026

- 1st workshop edition held at ISC24 in Hamburg, 16 May 2024
 - <https://pop-coe.eu/news/events/readiness-of-hpc-extreme-scale-applications>
- Follow-on from earlier PASC minisymposia
 - [virtual], July 2021
 - Performance Optimisation and Productivity for EU HPC Centres of Excellence (and all other European parallel application developers preparing for exascale)
 - Davos/CH, June 2023
 - Are HPC Codes Ready for Exascale? A EU HPC Centre of Excellence Point of View

1st edition of workshop (ISC24)



<https://www.pop-coe.eu/news/events/readiness-of-hpc-extreme-scale-applications>

Hamburg, 16 May 2024

- Introduction including Mladen Skelin (EuroHPC JU)
- 4 short presentations on CoEs/applications
 - Niclas Janssen (KTH/CEEC), Szilárd Páll (KTH/BioExcel),
Lara Peeters (UGhent/MultiXscale), Simon Burbidge (DiRAC)
- Keynote "Lessons Learnt from ECP" by Lois Curfman McInnes (ANL)
- Panel moderated by Guy Lonsdale (scapos/CASTIEL2)
 - Lois Curfman McInnes (ANL), Linda Gesenhues (EuroHPC JU), Niclas Janssen (KTH),
Erwan Raffin (Eviden), Nicola Spallazani (CNR), Harald Köstler (FAU)



International Workshop on Readiness of HPC Extreme-scaling Applications

Marta García-Gasulla (Barcelona Supercomputing Center)

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HORIZON-EUROHPC-JU-2023-COE



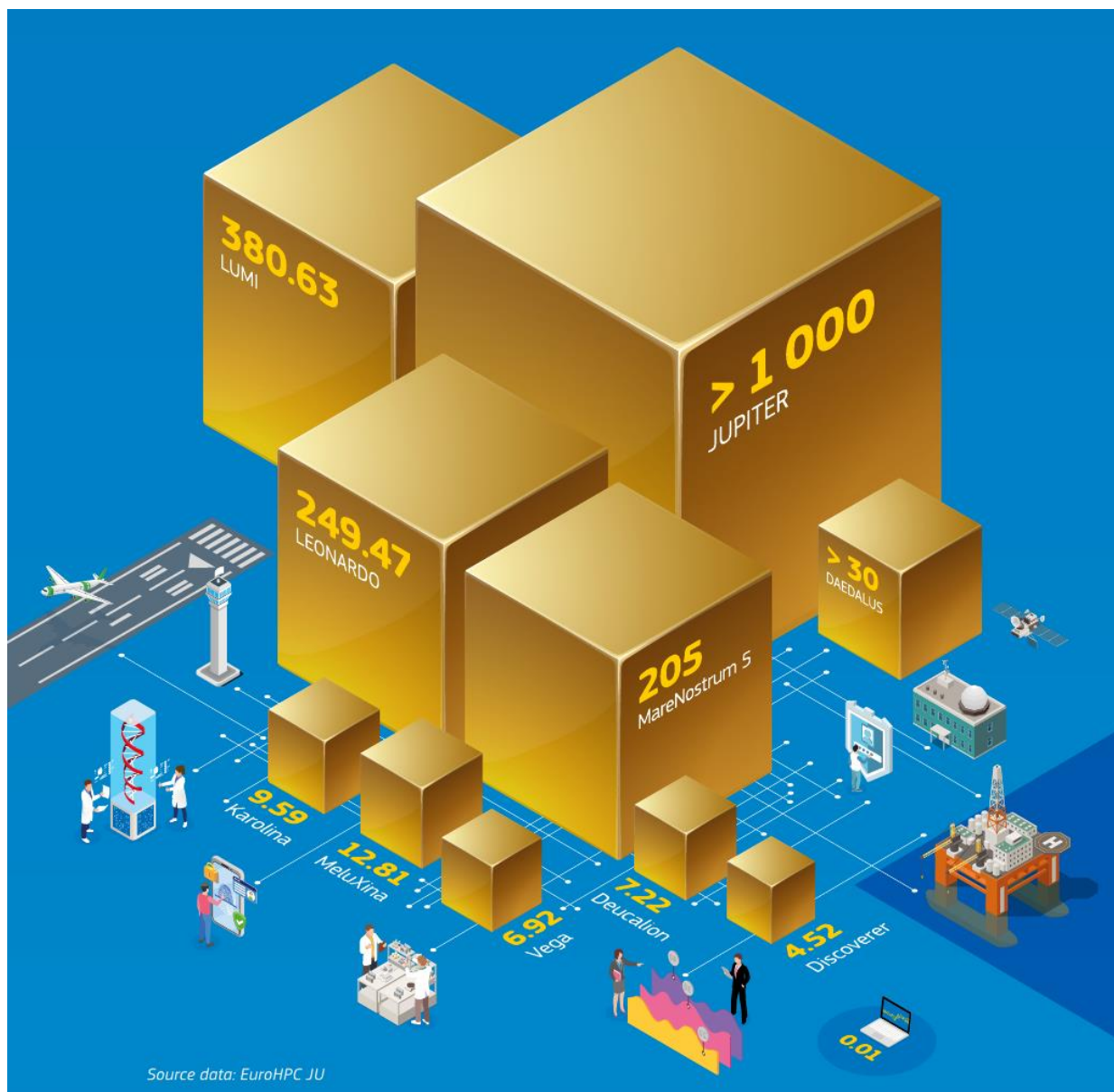
EuroHPC

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EuroHPC supercomputers & CoEs



esiwace
CENTRE OF EXCELLENCE IN SIMULATION OF WEATHER
AND CLIMATE IN EUROPE



JUPITER

The Arrival of
Exascale in Europe

fz-juelich.de/jupiter | [#exa_jupiter](https://twitter.com/exa_jupiter)



Ministry of Culture and Science
of the State of
North Rhine-Westphalia



GCS
Gauss Centre for Supercomputing

Workshop outline



- 14:00 [30] Welcome & Introduction
- 14:30 [90] EuroHPC CoE & applications presentations (6x15)
- 16:00 [30] *Break*
- 16:30 [30] POP services & EuroHPC concept presentations (2x15)
- 17:00 [50] Panel discussion
 - HPC application CoEs' preparations for exa-scale
- 17:50 [10] Conclusion
- 18:00 *Adjourn*

Workshop agenda (Part 1)



- 14:00 [30] Welcome & Introduction to workshop (García & Wylie)
 - "European HPC application ecosystem"
(Guntram Berti, scapos/D)
- 14:30 [90] CoE & applications presentations (6x15)
 - "MaXimizing portability and performance of material modelling on EuroHPC clusters"
(Laura Bellantani, CINECA/I)
 - "ESiWACE services and benchmark suite for weather and climate"
(Erwan Raffin, Eviden/F)
 - "dealii-X: Preparing generic PDE solvers for exascale supercomputers"
(Martin Kronbichler, RUB/D)
 - "STREAMS: portability, performance, maintainability. Can they coexist?"
(Francesco Salvatore, CINECA/I)
 - "Supporting cutting edge development of LAMMPS with EESSI"
(Helena Vela, DoITNow!/E)
 - "Improving energy efficiency of SPACE CoE codes"
(João Barbosa, IT4Innovations/CZ)
- 16:00 [30] *Break*

Workshop agenda (Part 2)



- 16:00 [30] *Break*
- 16:30 [30] Presentations
 - "POP CoE services and engagements with other CoEs" (Marta García-Gasulla, BSC)
 - "EuroHPC concept for applications" (Linda Gesenhues, EuroHPC JU/Lux)
- 17:00 [50] Panel discussion (moderator: Guy Lonsdale, scapos/D)
 - HPC application CoEs' preparations for exa-scale
- 17:50 [10] Conclusion (García & Wylie)
- 18:00 *Adjourn*



Performance Optimisation and Productivity

A Centre of Excellence in HPC

Contact:

 <https://www.pop-coe.eu>

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 [youtube.com/POPHPC](https://www.youtube.com/POPHPC)

