



EuroQCS-France

Paving the way to a federated European HPC-QCS infrastructure

HQI: FRANCE HYBRID HPC QUANTUM INITIATIVE

A scalable and open platform

Academic and Industrial research program



Hands-on training for end-users



Setting up an HQI platform end-user **high-level support team**




Development of **use cases** through national and international extensions of the Quantum Pack initiative




Creation of a network of excellence centers: **Houses of Quantum**




Choice of a sovereign Cloud Services Provider to provide access to the platform



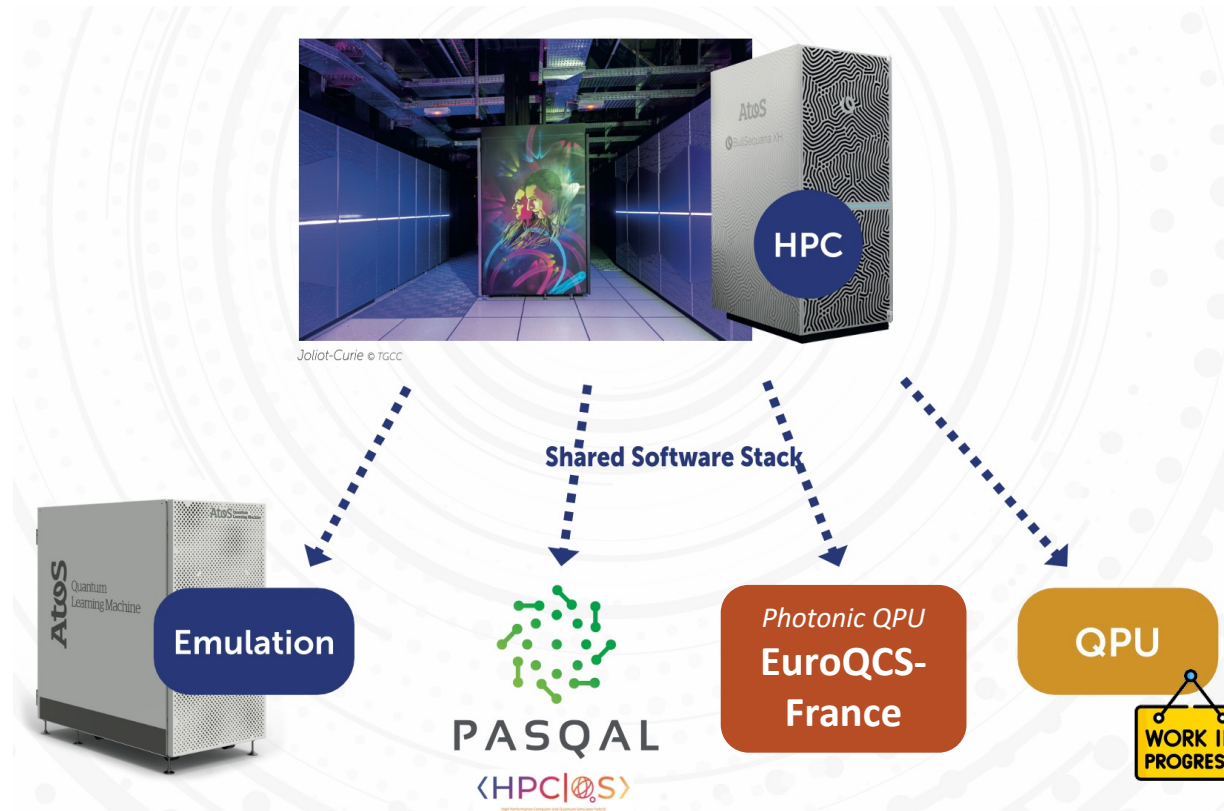
Community platforms - websites, wiki, Slack forum



Organization of dissemination **events**



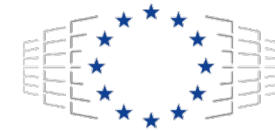
Development of **International relationships**





Based on the positioning paper "European Quantum Computing & Simulation Infrastructure" promoted by the Quantum Flagship.

Expose all European quantum technologies to European users within a federated Cloud-based hybrid HPC-QC infrastructure



EuroHPC
Joint Undertaking

Hardware complementarity



Share common use cases

Share and reuse ongoing
projects software
foundations



<HPC|QS>



Set up a distributed HPC-
QCS High-Level Support
Team

EUROQCS – FOUNDATIONS FOR A NEW EUROPEAN COLLABORATION ON HPC-QCS



Based on the positioning paper "European Quantum Computing & Simulation Infrastructure" promoted by the Quantum Flagship.

Expose all European quantum technologies to European users within a federated Cloud-based hybrid HPC-QC infrastructure



EuroHPC
Joint Undertaking

EuroQCS-France
led by



EuroQCS-Spain
led by



EuroQCS-Italy
led by



Discussed with
EuroQCS-Poland &
Lumi-Q
led by

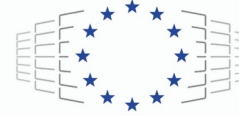


Open to
welcome any
other European
initiative

EUROQCS-FRANCE – HQI'S 2ND QUANTUM DEVICE !

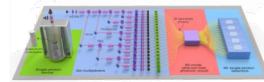
Hosting a European photonic quantum computing device

Initiated by 5 partners, for 4 years



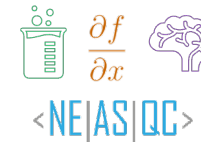
Participating in a federated European infrastructure

Targeting a photonic quantum device



Exposing complementary hardware

Coupled with Joliot-Curie's AMD extension



Sharing common use cases

Hosted at TGCC



Setting up a distributed HPC-QCS High-Level Support Team

HPC-QCS integration relying on HPCQS' initial work





HQI France



@HQI_France



THANK YOU

For more information on the HQI initiative, please contact:

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