eFlows4HPC

Enabling dynamic and Intelligent workflows in the future EuroHPC ecosystem

OBJECTIVES

Creating a **European workflow platform** to enable the design of complex applications that integrate HPC processes, data analytics and artificial intelligence

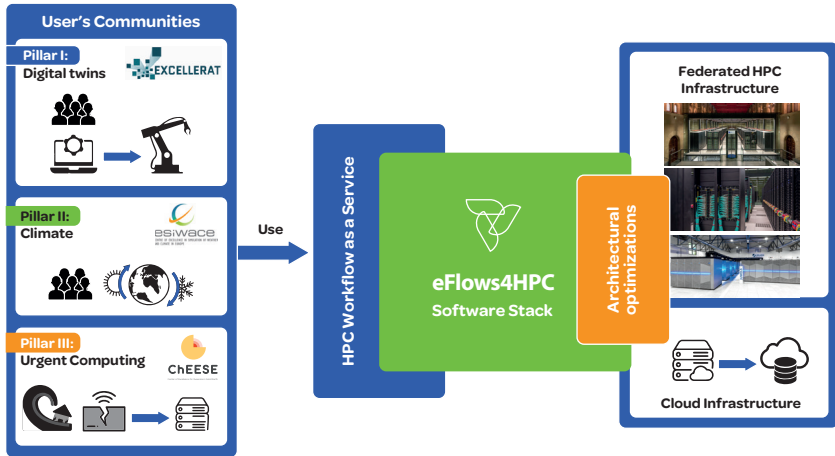Developing **methodologies** to widen the access to HPC to selected user communities

Demonstrating new workflow technologies through manufacturing, climate and urgent computing for natural hazards **use cases**
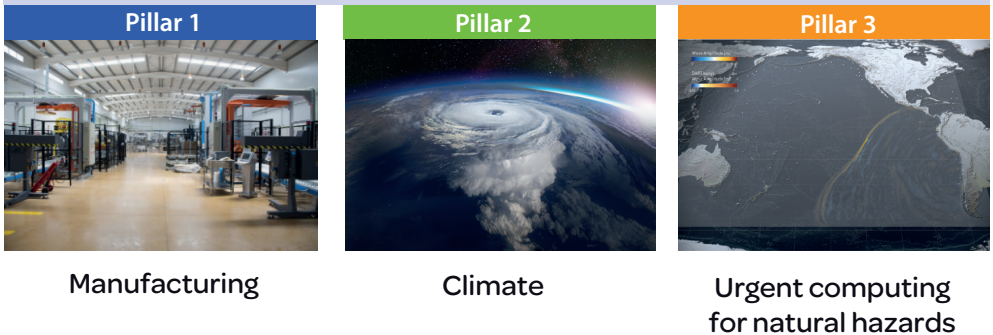
The eFlows4HPC overview

User's Communities

Pillar I:
Digital twins
EXCELLERAT

Pillar II:
Climate
esiwace

Pillar III:
Urgent Computing
ChEESE

Use

HPC Workflow as a Service

eFlows4HPC
Software Stack

Architectural optimizations

Federated HPC Infrastructure

Cloud Infrastructure

Applying the novel workflow technologies in use cases of three application Pillars

Pillar 1	Pillar 2	Pillar 3

Manufacturing

Climate

Urgent computing for natural hazards

Partners

www.eFlows4HPC.eu

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eFlows4HPC Project