



# eFlows4HPC

Enabling dynamic and Intelligent workflows  
in the future EuroHPC ecosystem



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



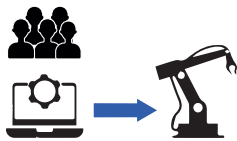
Developing **methodologies** to widen the access to HPC to selected user communities



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

## User's Communities

**Pillar I:**  
**Digital twins**



**Pillar II:**  
**Climate**



**Pillar III:**  
**Urgent Computing**



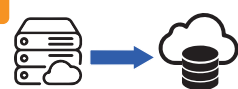
Use

HPC Workflow as a Service

eFlows4HPC  
Software Stack

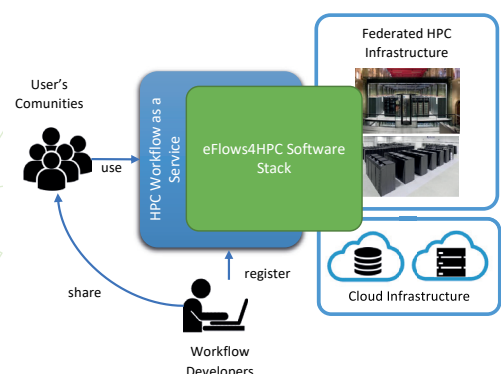
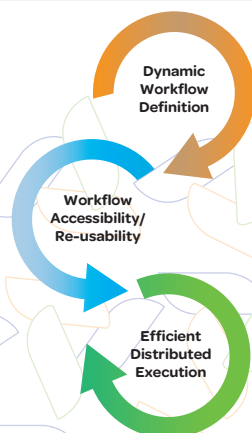
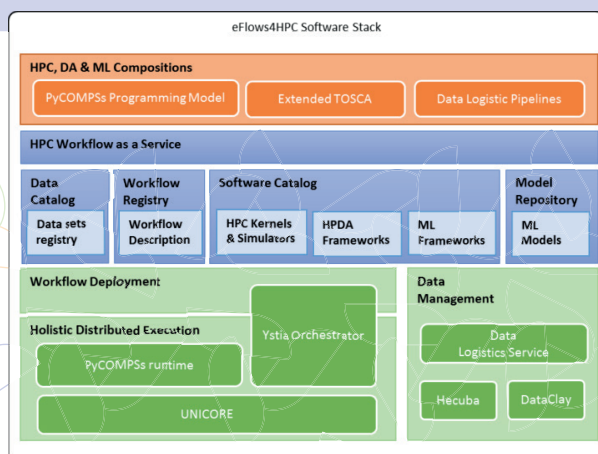
Architectural  
optimizations

## Federated HPC Infrastructure



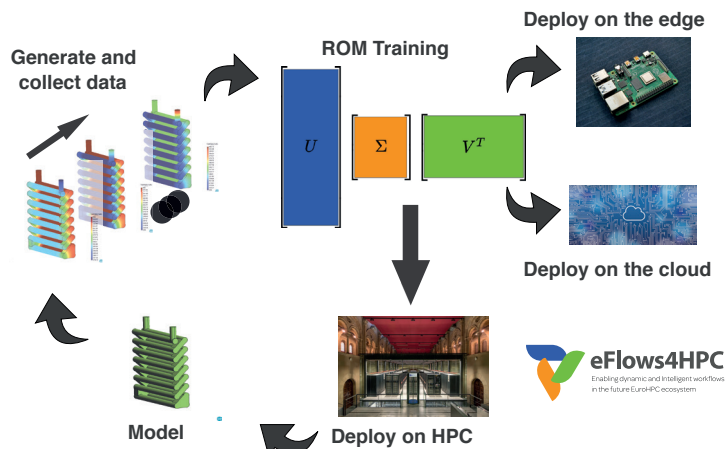
Cloud Infrastructure

## The eFlows4HPC approach

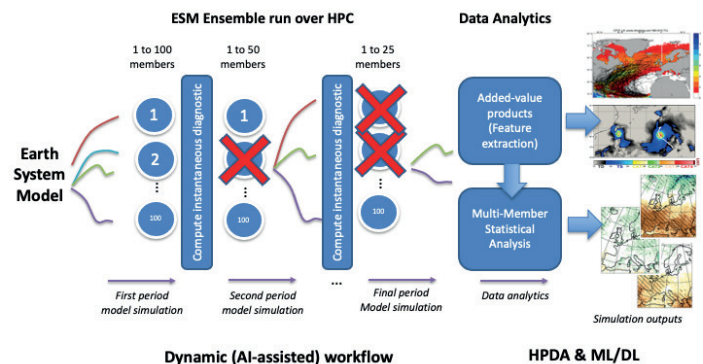


# Application of the novel workflow technologies to three application Pillars

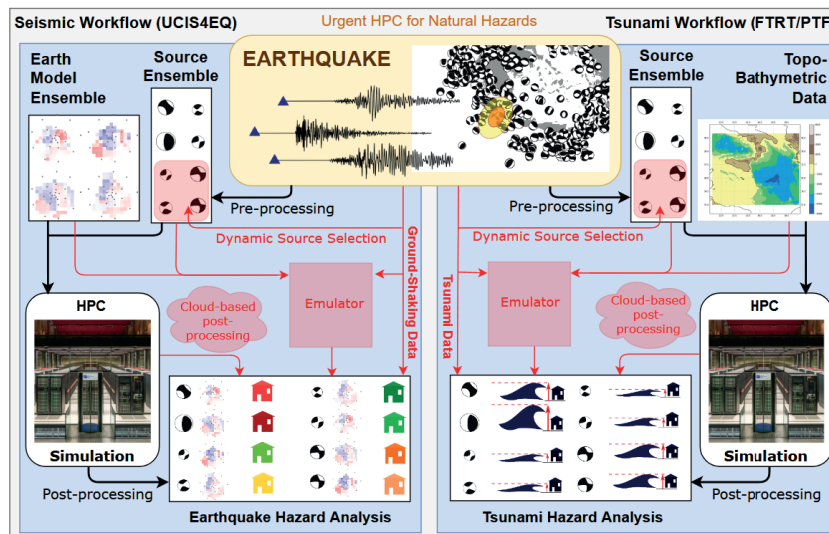
## Pillar 1 · Manufacturing



## Pillar 2: Climate



## Pillar 3 · Urgent computing



## Partners



[www.eFlows4HPC.eu](http://www.eFlows4HPC.eu)



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eFlows4HPC Project



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