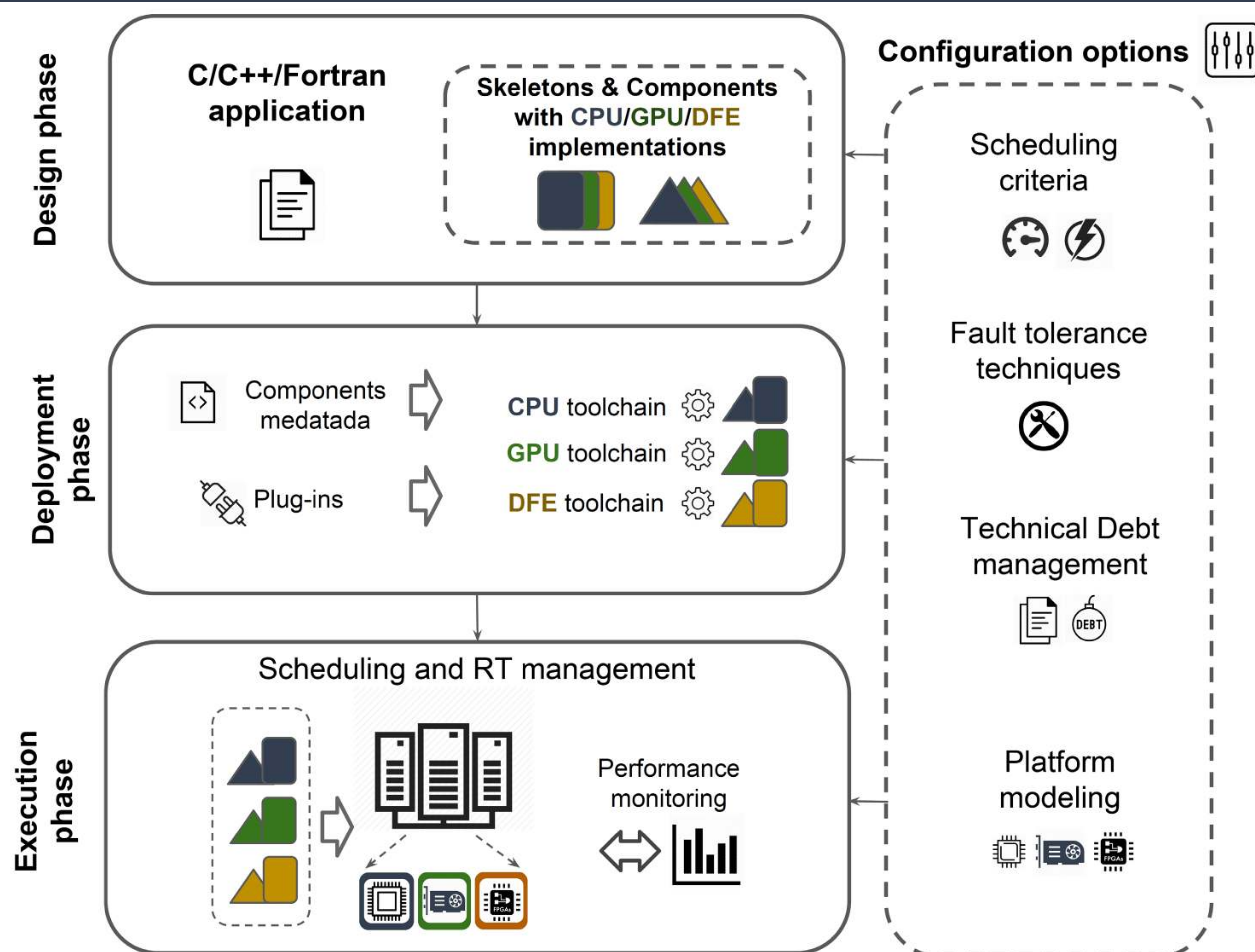


# Enhancing Programmability and boosting Performance Portability for Exascale Computing Systems



## Application development, optimization and deployment in heterogeneous exascale systems

- High-level software abstractions for improving productivity of application development.
- Optimization tools: memory management, code quality and fault tolerance support.
- Increased productivity: Minimization of cost, time and complexity for application deployment in exascale architectures.

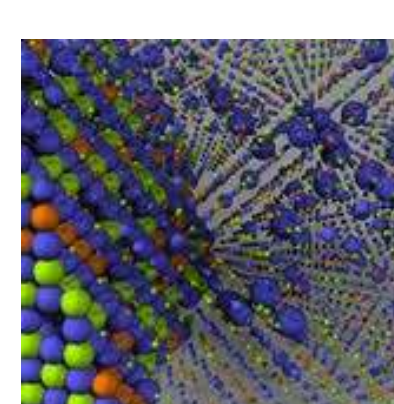


## Applications



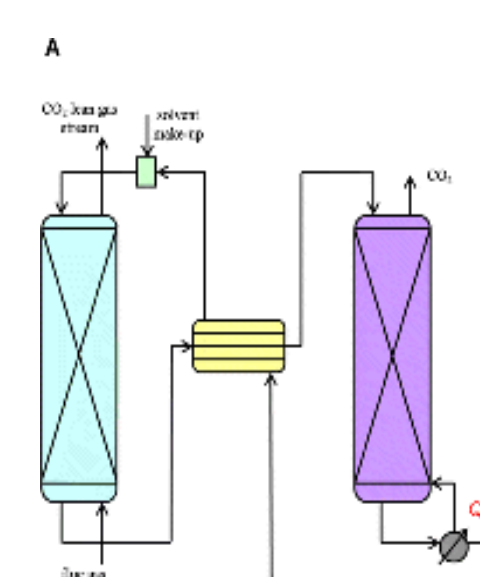
**LQCD**

High energy physics

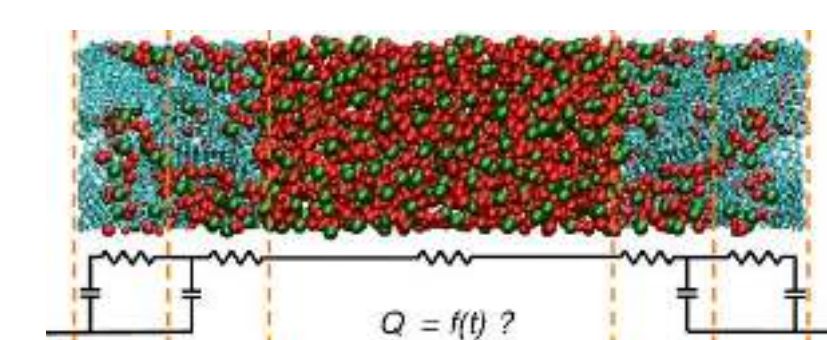


**KKRnano**

Materials science



**Material and process design  
for CO<sub>2</sub> capture**



**MetalWalls**

Supercapacitors