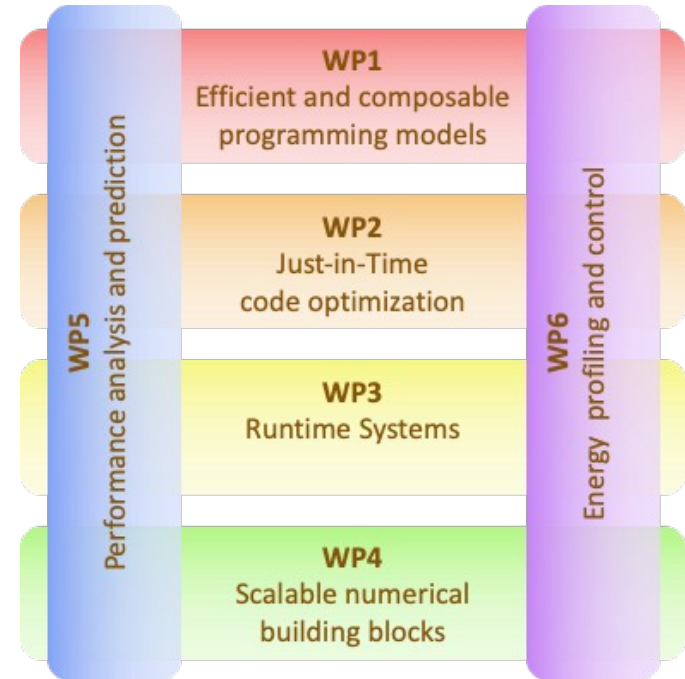PROGRAMME
DE RECHERCHE
NUMÉRIQUE
POUR L'EXASCALE

Exa-SofT developments integration in applications

Marc Pérache & François Trahay

How to transfer the Exa-SofT stack to real applications ?

- From research prototypes to industry-ready software

- May need to redesign some applications

WP5 Performance analysis and prediction

WP1 Efficient and composable programming models

WP2 Just-in-Time code optimization

WP3 Runtime Systems

WP4 Scalable numerical building blocks

WP6 Energy profiling and control

Making the software stack easy to use

- Identify the pieces of software that can be tested, hints : Ongoing empirical study on the scientific computing test

- Write documentation/tutorials

- Have a single web page with Exa-SofT stack

  - Which components work together ?

  - How do I debug performance with EZTrace / Chameleon / StarPU ?

- Organize meetings / trainings

Getting feedback from applications

- Organize meeting with users

- Important questions ?

    - Are they ok with non-reproductible execution. If not why ?

    - What is the acceptable level of compexity

    - ????