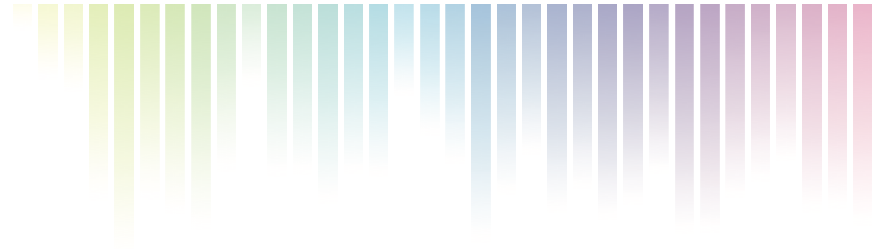


allinea



High performance tools to debug, profile, and analyze your applications

Weather and climate models

Preparing development workflows for Exascale



esiwace
CENTRE OF EXCELLENCE IN SIMULATION OF WEATHER
AND CLIMATE IN EUROPE



allinea
DDT

allinea
MAP



HPC Ultimate target



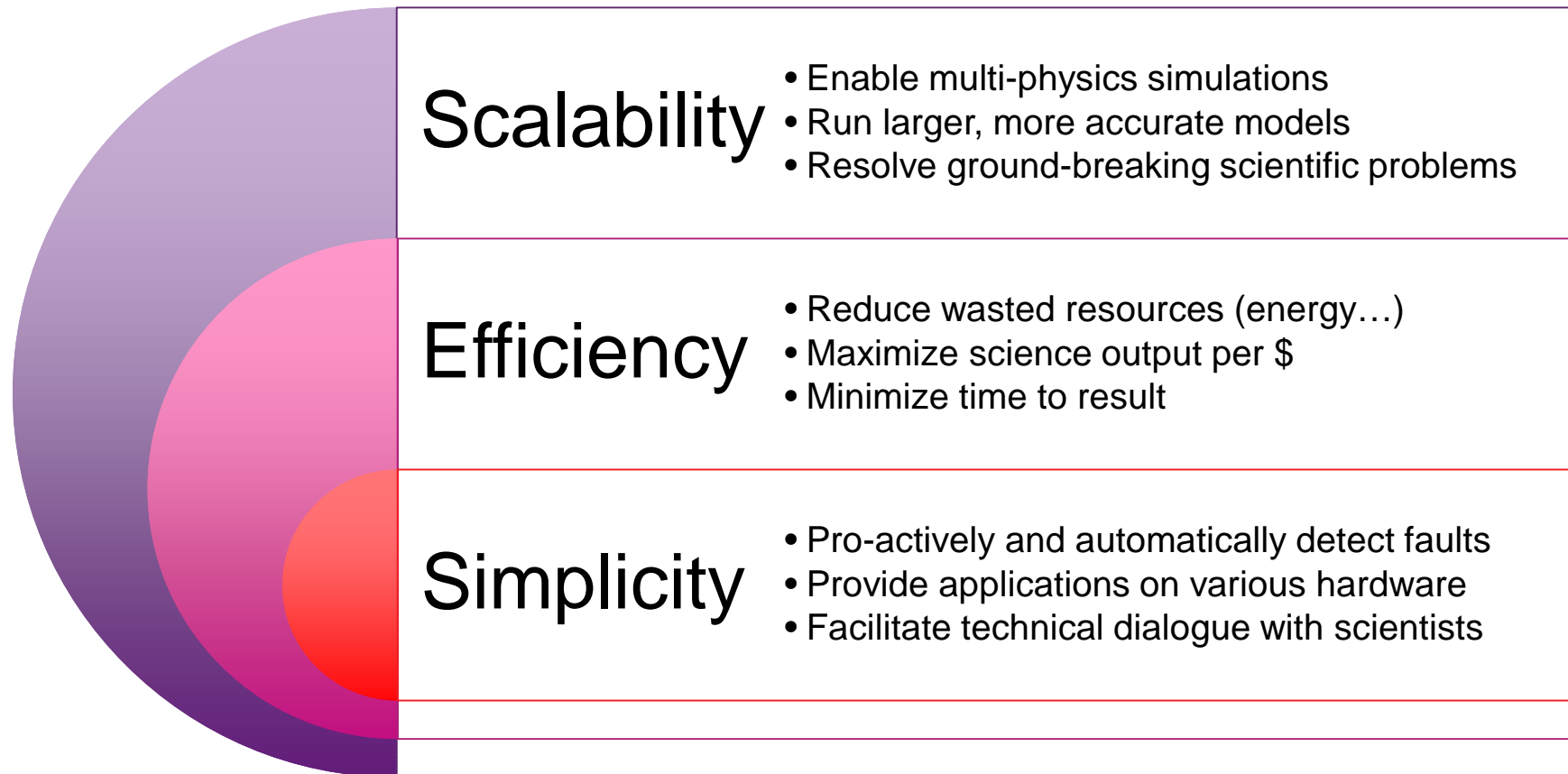
Example: Weather and Forecasting models



esiwace
CENTRE OF EXCELLENCE IN SIMULATION OF WEATHER
AND CLIMATE IN EUROPE

alinea

Building blocks for Exascale



esiwace
CENTRE OF EXCELLENCE IN SIMULATION OF WEATHER
AND CLIMATE IN EUROPE

allinea

Towards more vertical & horizontal scalability

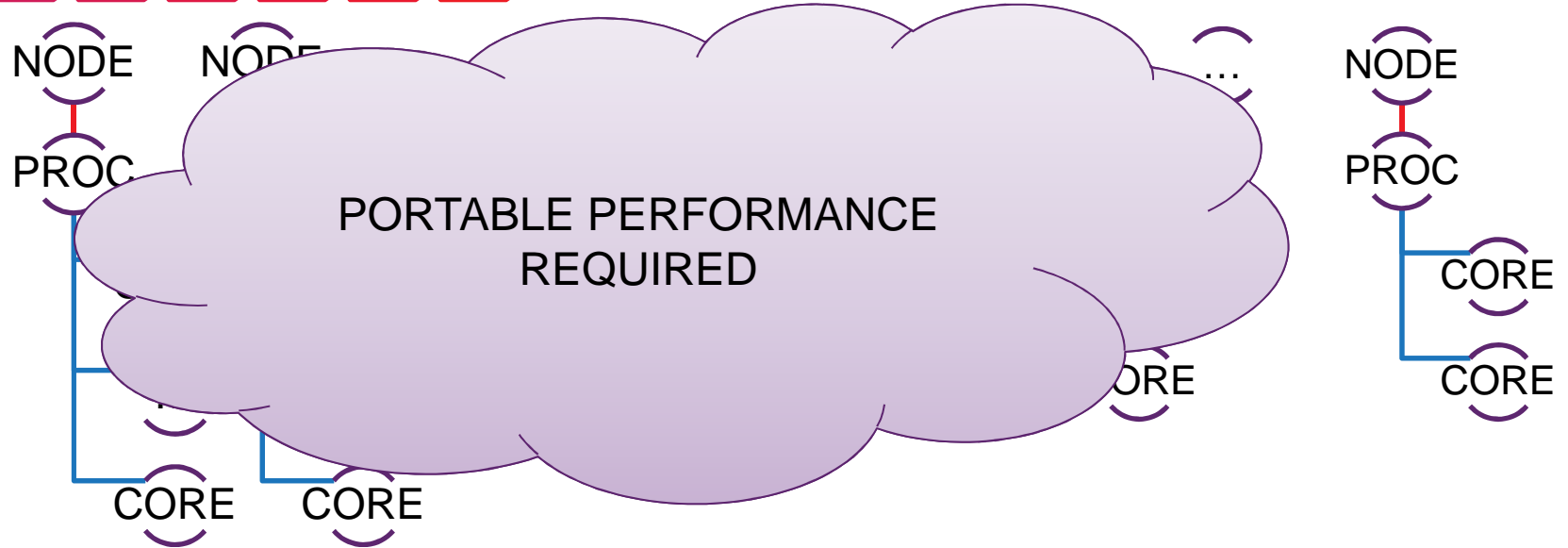
INTEL KNIGHTS LANDING

NVIDIA GPUS

FPGAs

NEXT-GEN INTEL XEON

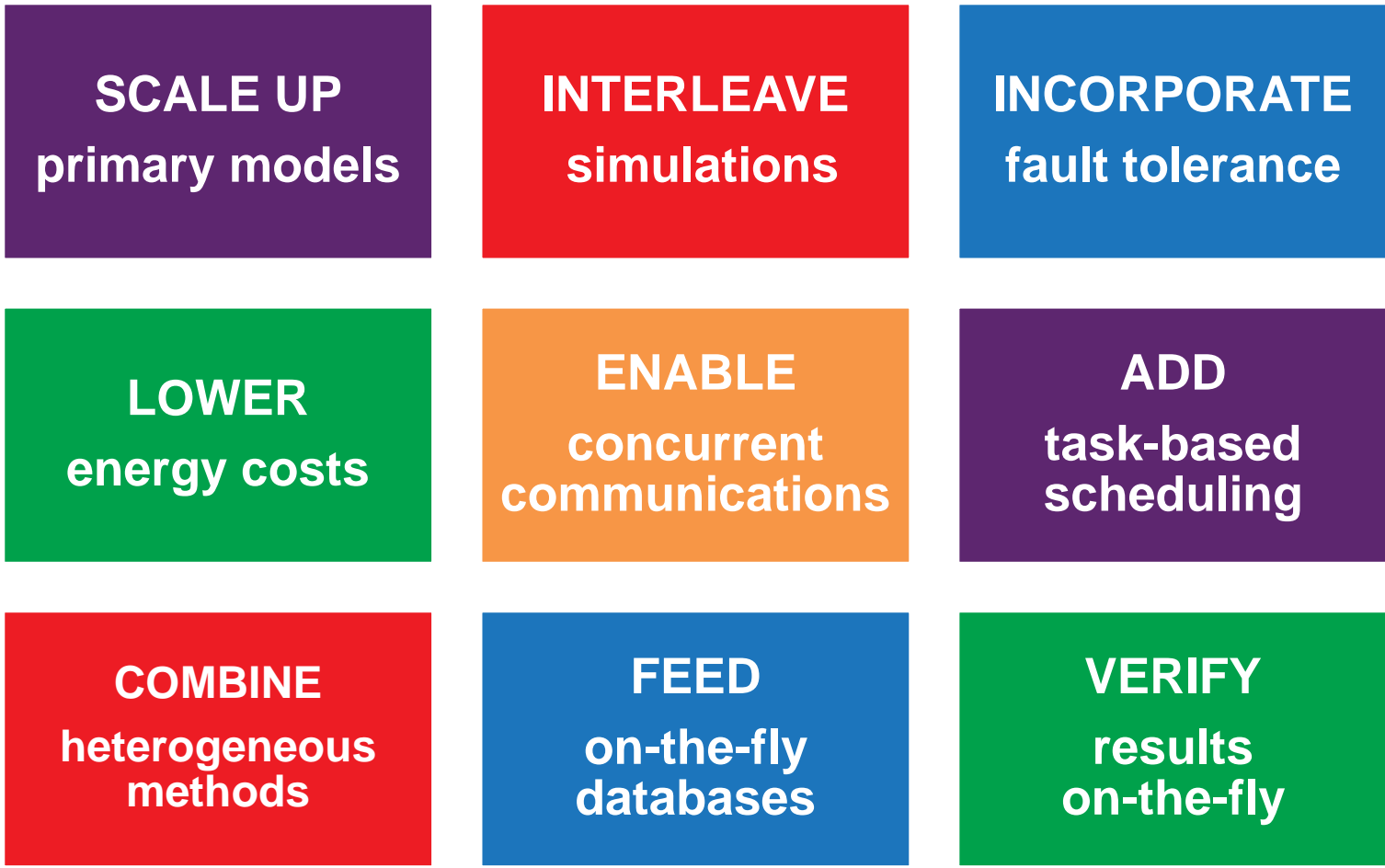
ARM v8



esiwace
CENTRE OF EXCELLENCE IN SIMULATION OF WEATHER
AND CLIMATE IN EUROPE

allinea

Portable performance is critical – but not only.



Allinea's vision and contribution to ESIWACE

- **Helping maximize HPC production**



allinea
PERFORMANCE
REPORTS

- Promote Efficiency (as opposed to Utilization)
- Transfer knowledge to HPC communities

- **Helping the HPC community design the best applications**



allinea
FORGE
DDT + MAP

- Reach highest levels of scalability and accuracy
- Improve performance portability and reliability

ESIWACE WP3 (Usability) tasks include:

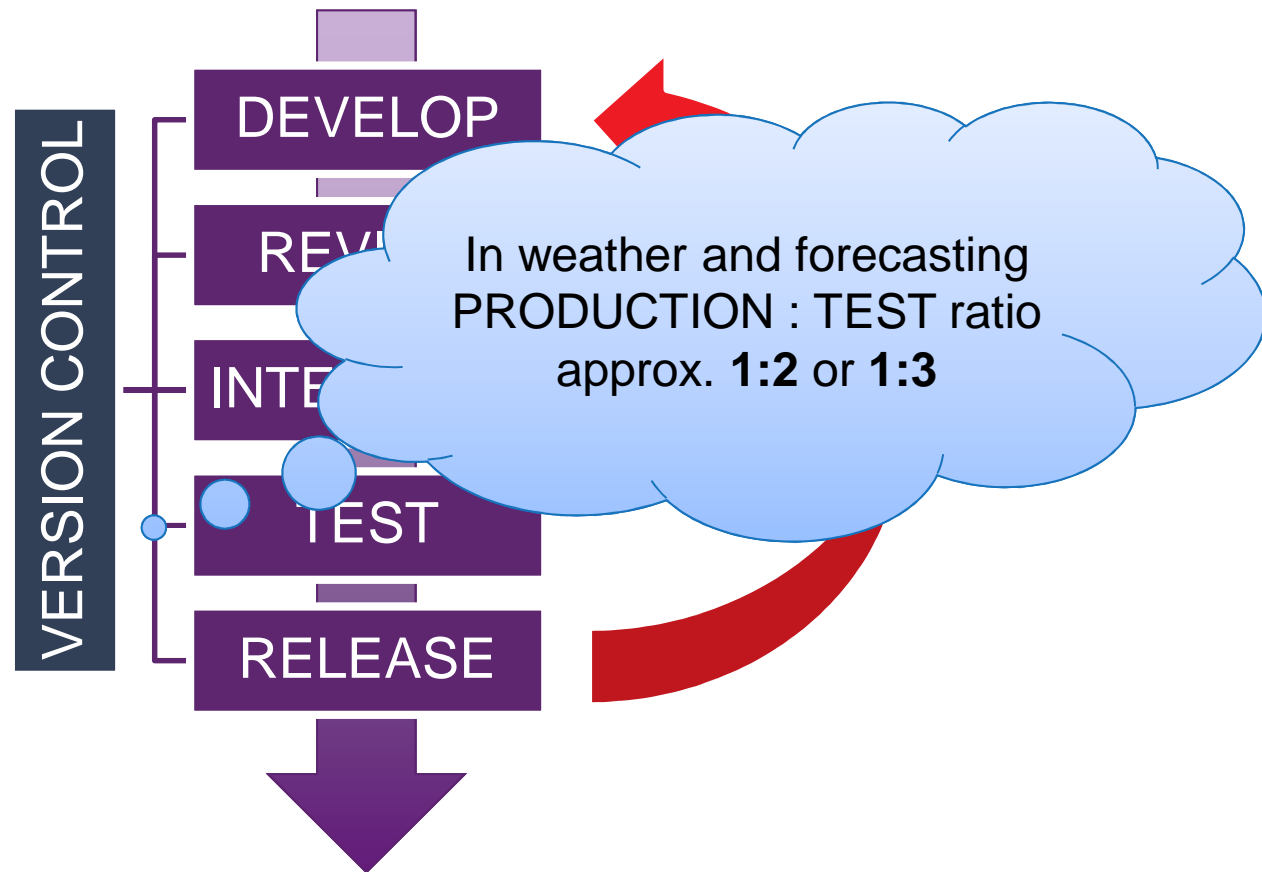
*Enable scientists to easily exploit models.
Considerably improve software ease-of-use.
Increase ability to cope with software.*



esiwace
CENTRE OF EXCELLENCE IN SIMULATION OF WEATHER
AND CLIMATE IN EUROPE

allinea

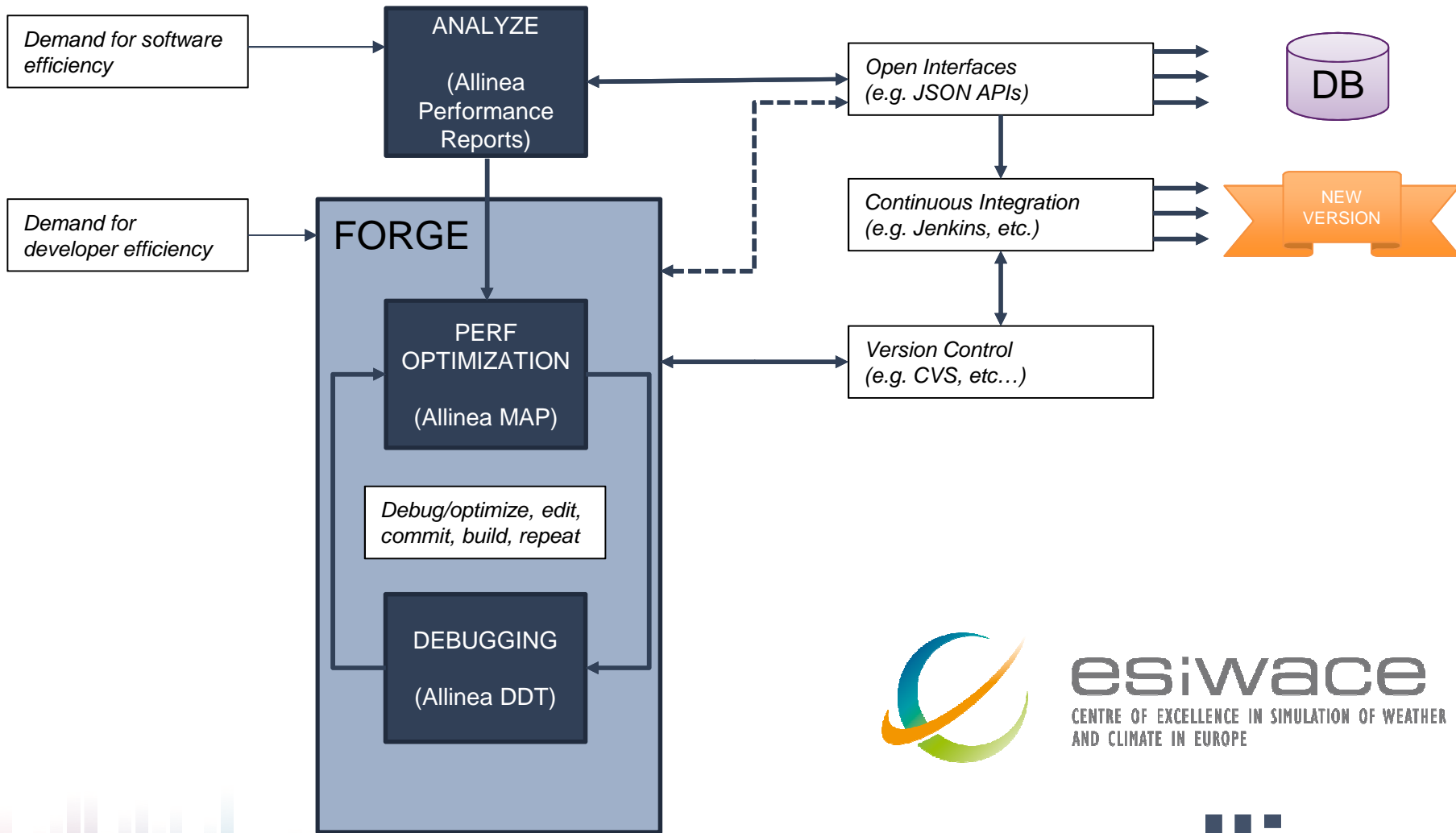
Development workflow in the industry



esiwace
CENTRE OF EXCELLENCE IN SIMULATION OF WEATHER
AND CLIMATE IN EUROPE

allinea

Software tools-centric view



esiwace
CENTRE OF EXCELLENCE IN SIMULATION OF WEATHER
AND CLIMATE IN EUROPE

allinea



Summary

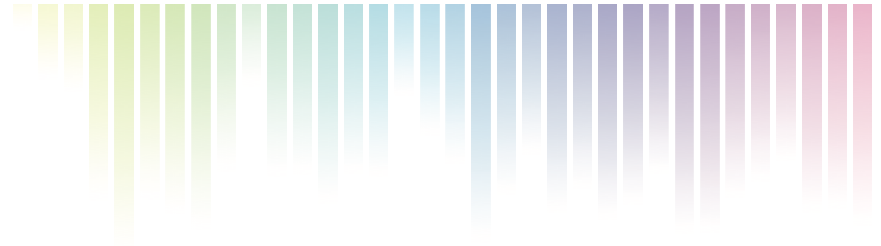


- Change is inevitable

- Reduce your costs

- Allinea's mission.

allinea



High performance tools to debug, profile, and analyze your applications

Thank you !

Technical Support team :

support@allinea.com

Sales team :

sales@allinea.com



esiwace
CENTRE OF EXCELLENCE IN SIMULATION OF WEATHER
AND CLIMATE IN EUROPE



allinea
DDT

allinea
MAP

