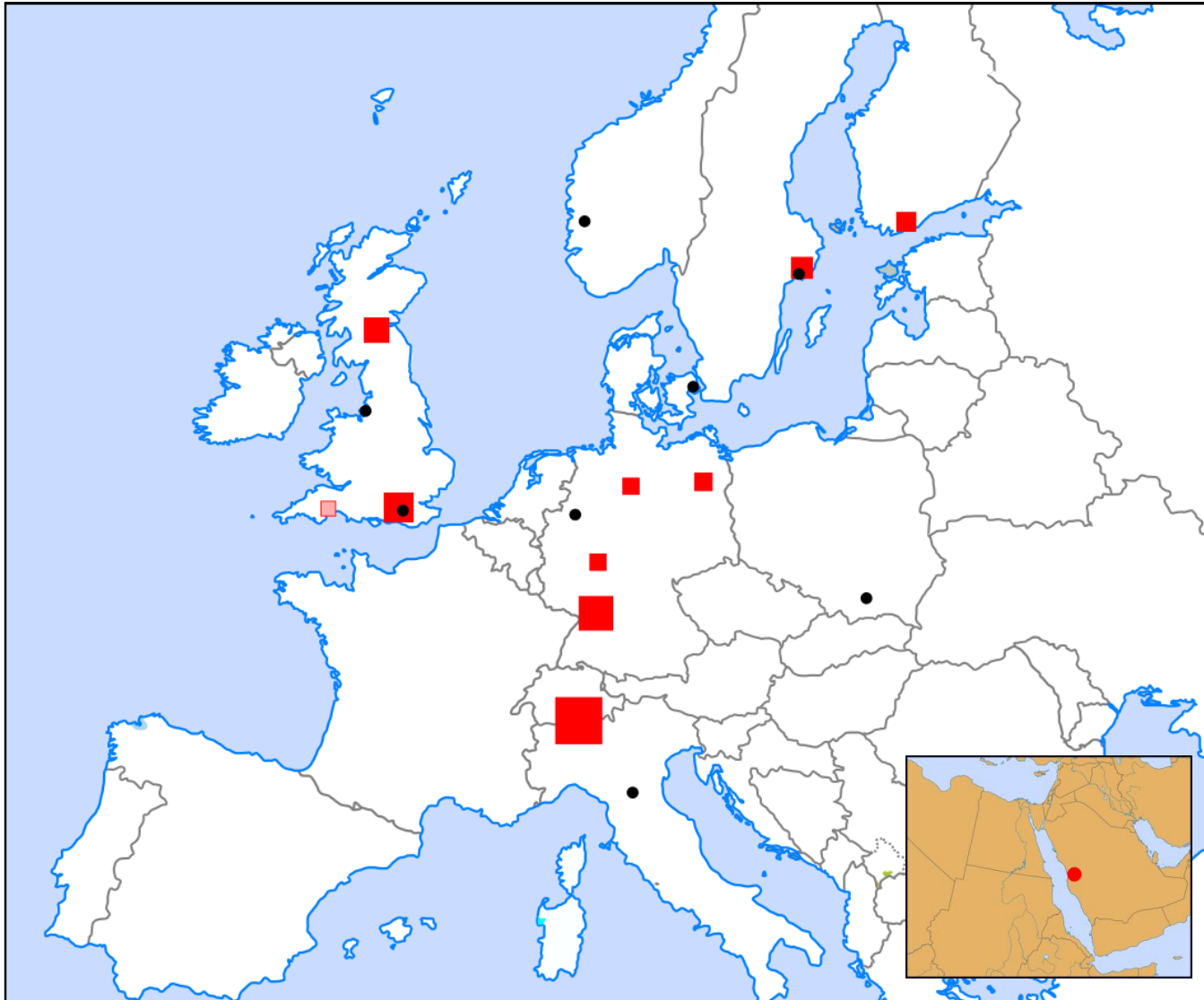# Cray Exascale Research in Europe Synergy with EESI2

Harvey Richardson
Cray Exascale Research Initiative Europe

EESI2 Final Conference, Dublin, May 2015

Cray Petaflop Sites in Europe

Cray Research sites and collaborators

Towards Exascale

- **Cray will be a top player to deliver scalable solutions**
- **There are clearly hardware, software, application and environmental challenges**
- **We also see convergence ("COMPUTE, STORE, ANALYZE")**
- **We want to support user application mix both in EU and worldwide**
- **Research into system software (resilience, workload management, energy management) and application software (programming models, management of memory hierarchy) is crucial**
- **We have been engaged in this (CRESTA, EPIGRAM)**
- **Cray announced investigation of European processor technology for HPC**
- **We need to be convinced new technologies and approaches yield benefits for applications**

- **Cray supports EU investment in software and applications**