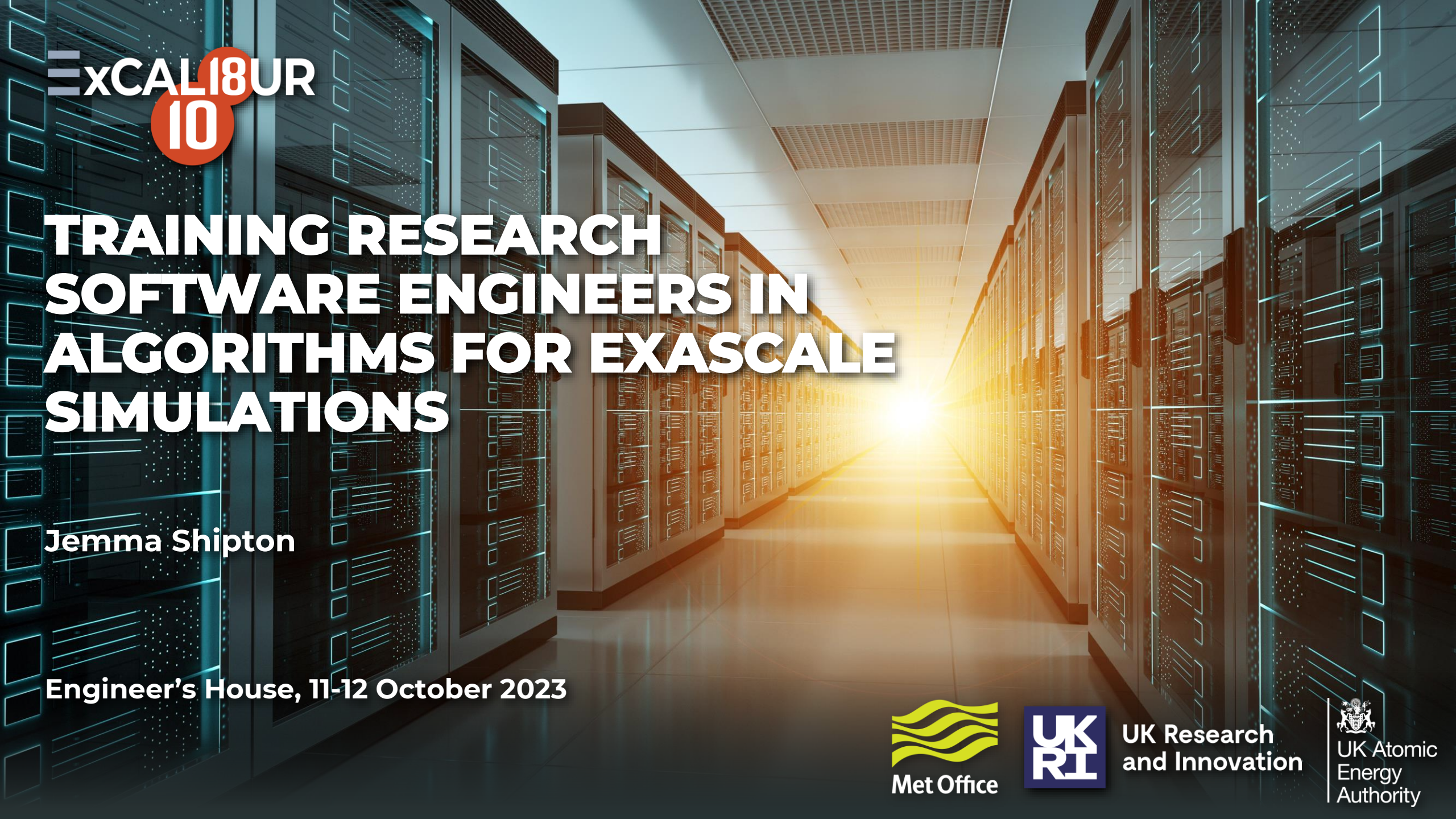

TRAINING RESEARCH SOFTWARE ENGINEERS IN ALGORITHMS FOR EXASCALE SIMULATIONS

Jemma Shipton

Engineer's House, 11-12 October 2023

Met Office

UKRI UK Research and Innovation

UK Atomic Energy Authority

Project Outline

Aims:

- Provide specialist training for RSEs in algorithms for exascale simulations, their implementation in software, application to domain science and optimisation on hardware.
- Strengthen collaboration between academia and industry by running training events that facilitate communication and knowledge transfer to the RSE community.
- Provide opportunities for RSEs to develop their own skills and interests and grow their peer-networks.
- Attract new entrants to the RSE community by providing taster sessions and hands-on experiences.
- Ensure that training is provided through a variety of models and is available in an easily updatable format online.

Workshop: Parallel-in-time algorithms (January 2023)
Workshop: Data-driven methods (January 2024)
Summer School: Algorithms for exascale simulations (July 2024)

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Current Challenges

- The first workshop was well received
- Making online materials available and keeping them up to date is time consuming
- Organising dates that work for enough people
- Trying not to over-fill time at events while also feeling like the right things are happening

The Summer School is intended as a platform for ExCALIBUR projects to offer training – get in touch if you're interested!!
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