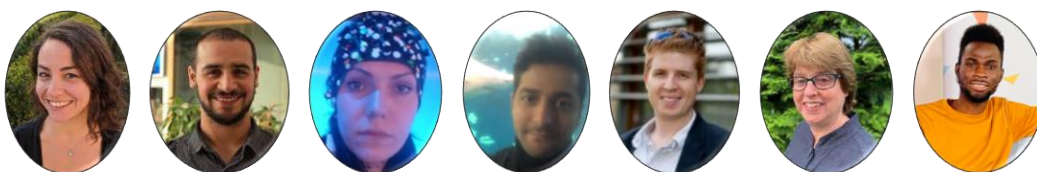


connected  
everything.



## DOMINOES: aDaptive human-rObot teaMING fOr rEmote taskS

### Project Team:



### The project team and timeframe

PI: Ayse Kucukyilmaz, Horia Maior

Team: Aleksandra Landowska, Khairidine Benali, Max Wilson, Sue Cobb, Gift Odoh

Industry Partner: Remote Applications in Challenging Environments (RACE), United Kingdom Atomic Energy Authority (UKAEA)

Timeframe: 1 February 2023 – 31 October 2023

### What does the project demonstrate?

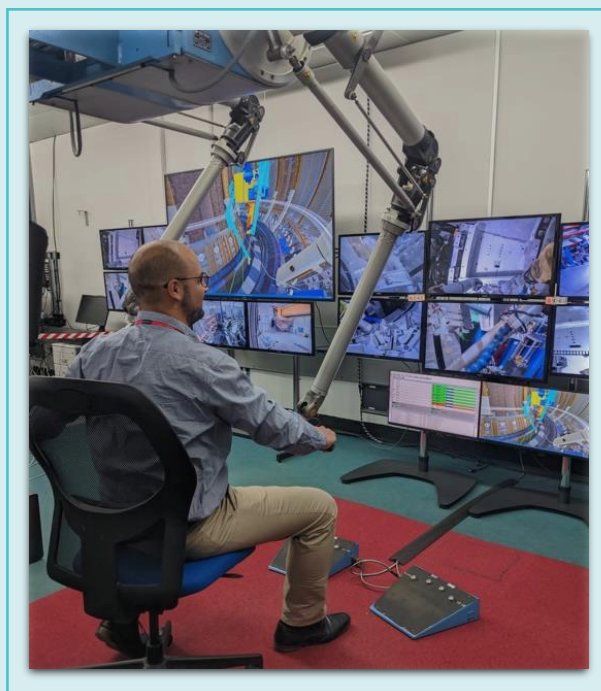
DOMINOES aims to create a framework of shared control using adaptive autonomy and human robot teaming for manufacturing applications, where a human collaborates with a robot, which can provide motion guidance through variable degrees of autonomy.

Our approach relies on dynamically changing the level of autonomy of the robot, based on human operation characteristics and indicators of human workload to increase human comfort, productivity and trust toward the robotic partner.

### Additional information regarding project, and key highlights wanting to address.

DOMINOES will investigate

- Novel methods for workload analysis in human-robot collaboration
- A novel shared control paradigm that uses dynamic levels of autonomy based on workload assessment



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Physical Sciences  
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