



Professor Linda Newnes & Dr Susan Lattanzio

Energy Exports Conference – 12<sup>th</sup> June 2024

In 2016, the World Economic Forum estimated \$100 trillion of value could be realised globally in a decade through digital transformation.

However, the UK is not adopting digital technologies  
as quickly as some of our competitors. (Made  
Smarter Review, 2017)

**PEOPLE AND ORGANISATIONAL CULTURE ARE A  
BARRIER TO DIGITALISATION**



Centre for  
**People-Led  
Digitalisation**

Working together for the people-led digital manufacturing future we want.

**With our partners we're investing £300m to develop digital ideas more quickly.**

# MADE SMARTER INNOVATION



## STANDARDS & INTEROPERABILITY

Building a common open standards environment for manufacturing digital technologies through workshops, guides and helpful tools to address interoperability challenges through standardisation.



## RESEARCH

Made Smarter Innovation has invested in 5 research centres to identify early stage, transformative innovation ideas, covering both technological and societal aspects.

Our InterAct project is a call to arms for academics from the social sciences to support the innovation and diffusion of digital technologies that will result in a stronger, more resilient UK manufacturing industry.



## COLLABORATIVE R&D

So far over 320 participants and over 80 projects have been supported over multiple themes:

- Fast Start
- Digital Supply Chain
- Sustainable Smart Factory
- Robotics & Automation Industrialisation (open early 2023)



## INNOVATION HUBS

Together, the Smart Manufacturing Data Hub and the Digital Supply Chain Hub are a national network of facilities available to the manufacturing industry collaboratively developing novel digital solutions for key manufacturing challenges through a network of test beds. Their purpose is to drive innovation by enabling the testing of digital solutions.



## DIGITAL ACCELERATORS

Connecting leading UK manufacturers and pioneering technology start-ups to develop innovative technology solutions to many of the UK's manufacturing challenges.



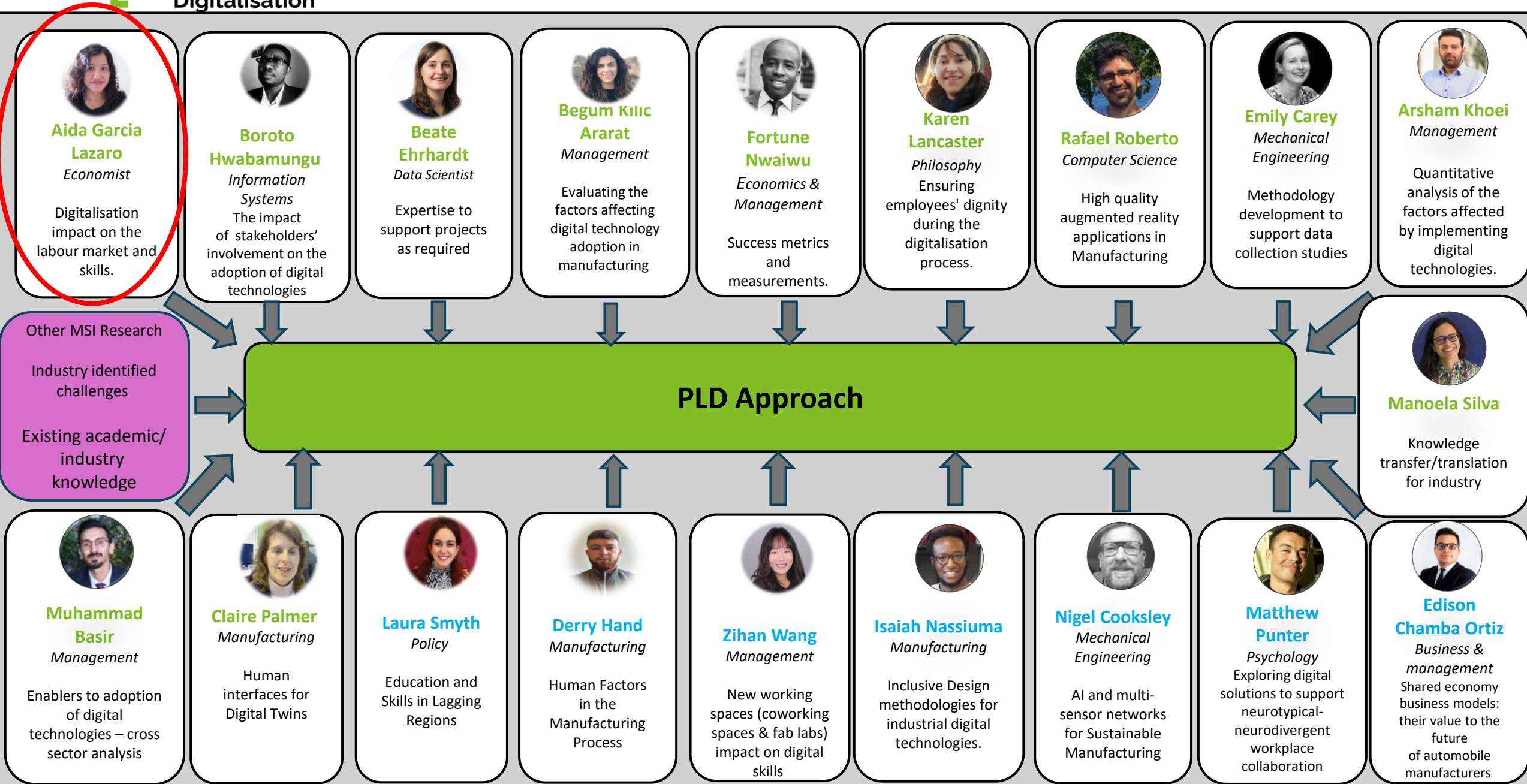
## GLOBAL

Supporting UK companies, working with leading industrial nations, to develop global innovation bridges and global collaborative research & development to increase exports and inward investment opportunities.



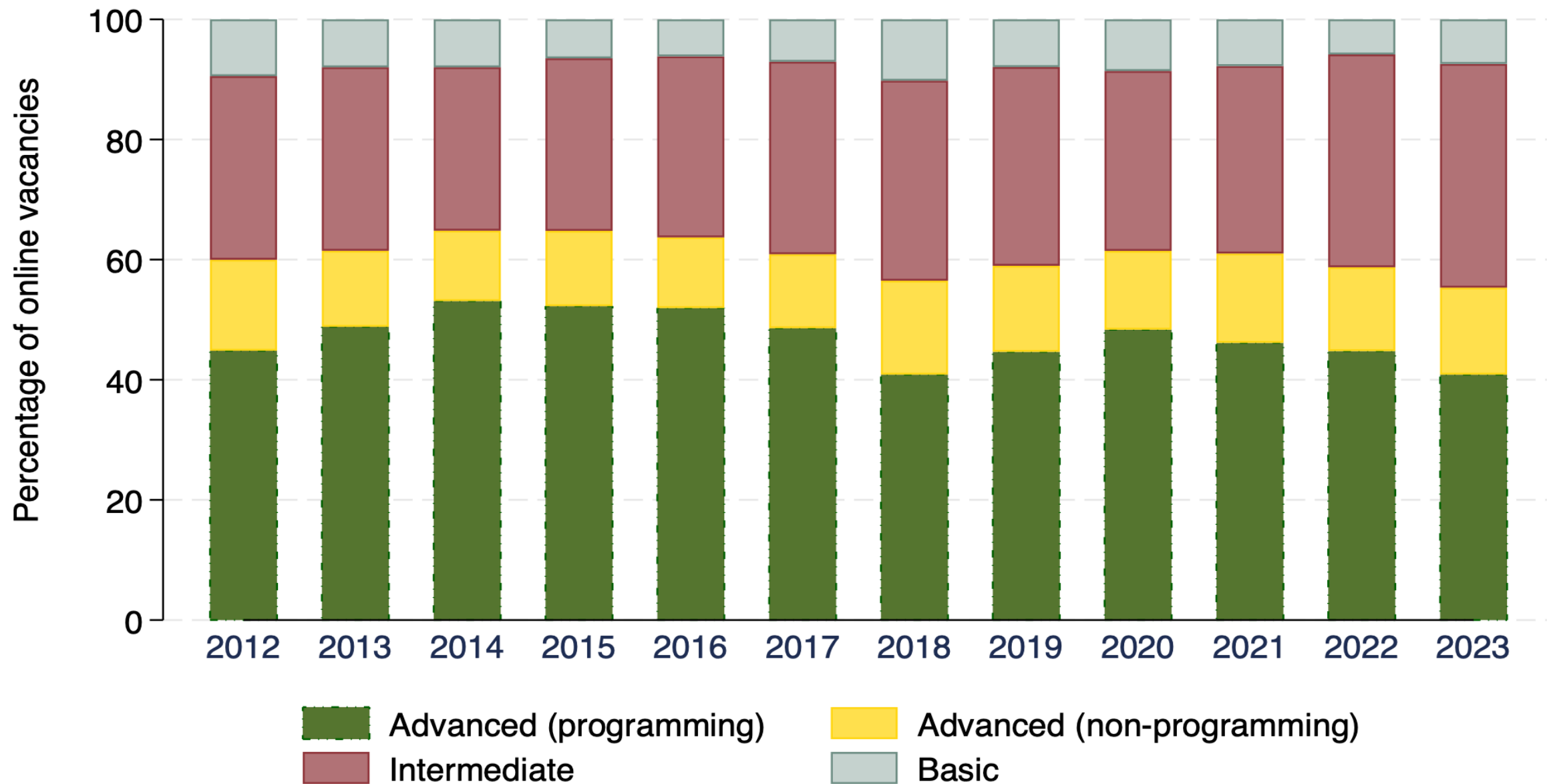
## People-Led Digitalisation:

Aims to **improve the outcome** of the adoption of digital technologies through **prior** explicit consideration and **planned** appropriate action that **prioritises human needs** and working patterns in the **design** and **implementation** of digitalised work systems.





# Composition of online vacancies demanding digital skills



How does the energy sector meet  
its demand for digital skills?