European Union side events

05/12/2023

Empowering a Human-Centric Industry for the Twin Transitions

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- Project Up-skill

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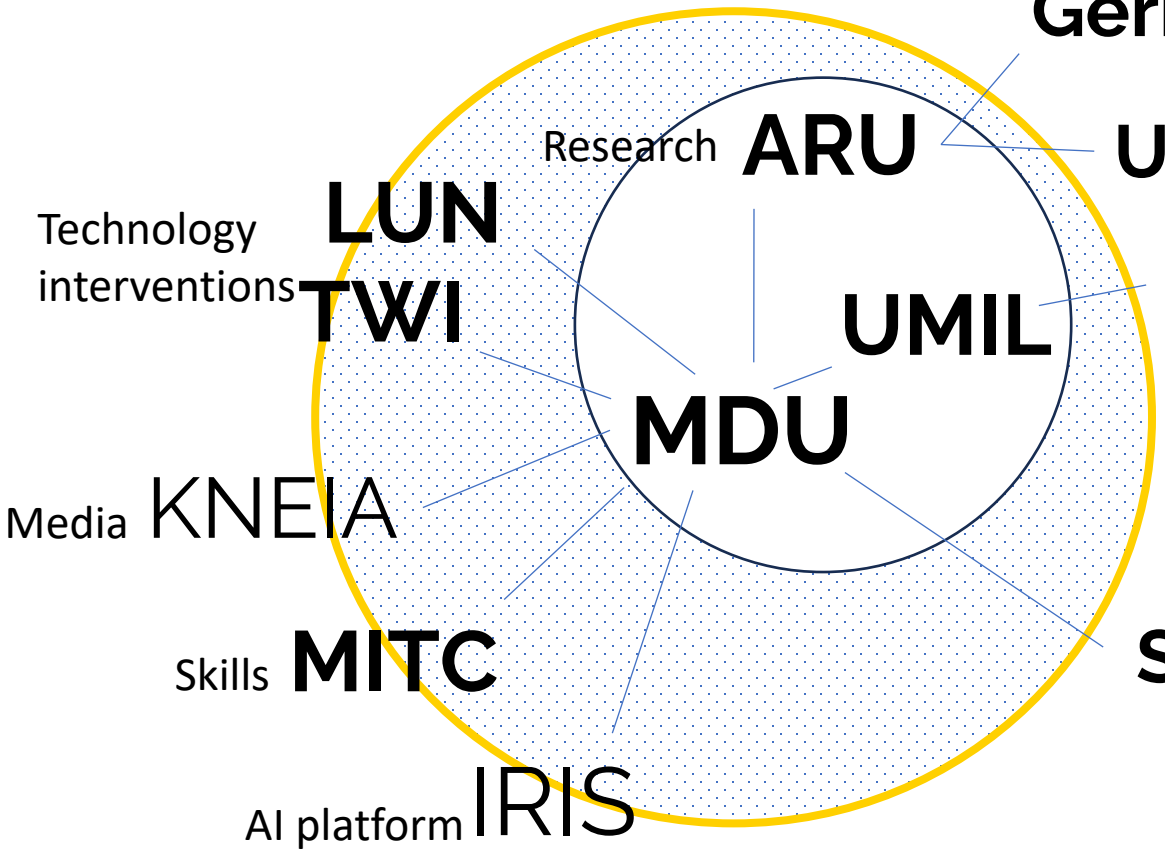
ACT NOW

Rationale

Table 2 Outcomes Categorization

CODE	CATEGORISATION	DESCRIPTION
AAA *(e.g., Offshore wind turbine repairs)*	**Full Automation**	*It is likely the job will ultimately cease to exist because it can be wholly automated, as and when equipment is available and becomes a cost-effective option*
AAH *(e.g., Ship Building)*	**Irreducible Human Integration**	*Roles will be largely automated but require certain human intangible characteristics/intelligence/judgement which cannot be automated, and perhaps should not be automated*
HAA *(e.g., Ornate Shotguns and fine watches)*	**Strategic Human Integration**	*These are Industrial-scale products, but must retain a level of skilled craft to maintain the quality of product and desirability to consumers*
HHA *(e.g., Gold leaf manufacturing)*	**Artisanal work Augmented with Technology**	*A skilled craft, often an isolated artisan who seeks to engage technology, where appropriate, to augment their craft and maximise its potential market value and deliver efficiency*

Research and intervention



Ethnographic research sites

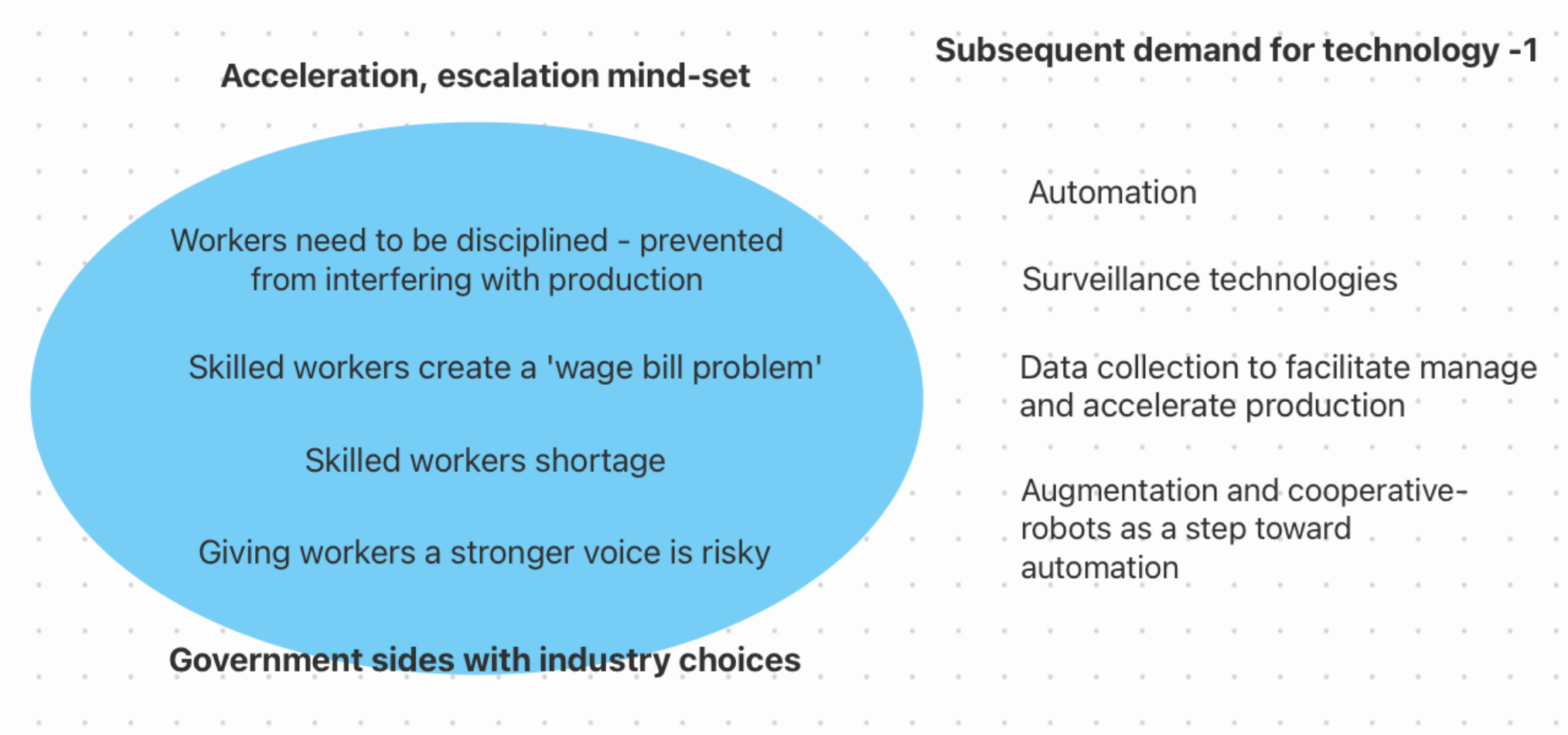
Germany: Webber

UK: FORD

Italy: Attolini, Molteni, Victoria Accordion Pipe Savinelli, Aurora Penne.

SWE: ALFA, HEK - Ztift

Industry 4.0: Accelerative, escalatory.



Industry 5.0: Sustainable, shared prosperity

Sustainable, shared prosperity mind-set

Workers regarded as citizens - should have an agreed standard of living

Skilled workers should be retained and supported

Industrial work should be made more attractive and training expanded

Workers must have a stronger collective voice - unions supported

Government supports workers and science to drive shared prosperity and green solutions

Subsequent demand for technology -2

Augmentation aimed at better quality work and products and giving workers more control

Surveillance technologies not adopted

Co-bots (whose bots?) - better to think about 'team bots, servant bots, helper bots'

Data collection aimed at augmenting shop-floor decisions, supporting horizontal coordination and cooperation

Data collection aimed at identifying and reducing carbon foot print not accelerating production

Up·skill

1st September 2023 – 30th August 2025

5 million Euros

Research sites in Sweden, UK, Italy, Germany

Mälardalens University (SWE), Anglia Ruskin University (UK),

Lancaster University (UK) and University of Milan (IT)

website: upskill-horizon.eu