

# Industry 4.0

## Unpacking the skills challenges

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# South Metropolitan TAFE

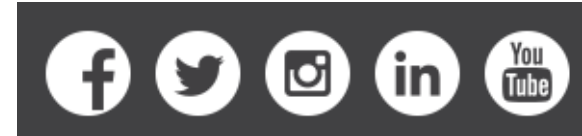
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# Industry 4.0



DIGITAL  DISRUPTION



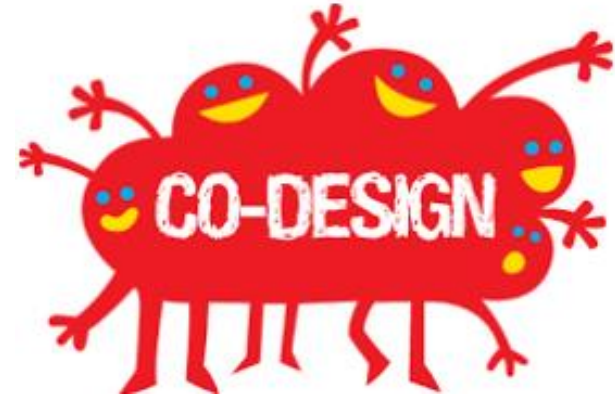
Job loss  
Job transformation  
Job creation



# How are we responding?

Co-design - designing solutions *with* stakeholders (not *for* stakeholders)

- Has application in addressing complex problems faced by industry such as digital disruption and automation
- End users are treated as “experts”, equal partners and are central to the design process
- Process is not linear, is often messy, and can’t be rushed.
- Bottom up approach which involves rapid prototyping and encourages “fail fast”



# Challenges and tensions

- Industry 4.0 is still emerging
- Rate, depth & breadth of change - working in a highly evolving workplace
- Confidentiality - in a competitive industry (and training) environment
- Preparing our students for the employability skills needed for I4.0 – balancing this with employer expectation

Feasibility of  
**I4.0 technology for oil  
& gas industry**



UWA & SMT  
collaboration

**Digital shipyard**



Defence industries  
partnerships

**Automation**



Rio Tinto Iron Ore  
partnership

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**Challenges**

- Applied research skills
- Just in time – just too late
- Emerging industry expertise - lecturers
- Industry quality & standards
- Infrastructure & equipment
- Curriculum expertise
- Development of high quality learning materials

# Industry 4.0 Unpacking the skills challenges

Join the conversation at #IBSAindustry4

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