



> Ind 3.0 to Ind 4.0 Skills Gap ?

- > What & Where are the skills gaps ?
- > Automation Up-Skilling Pathways.





Industry 4.0

IOT (Internet of Things)

Big Data Analytics

CPS (Cyber Physical Systems)

ML (Machine Learning)

Unified Architecture

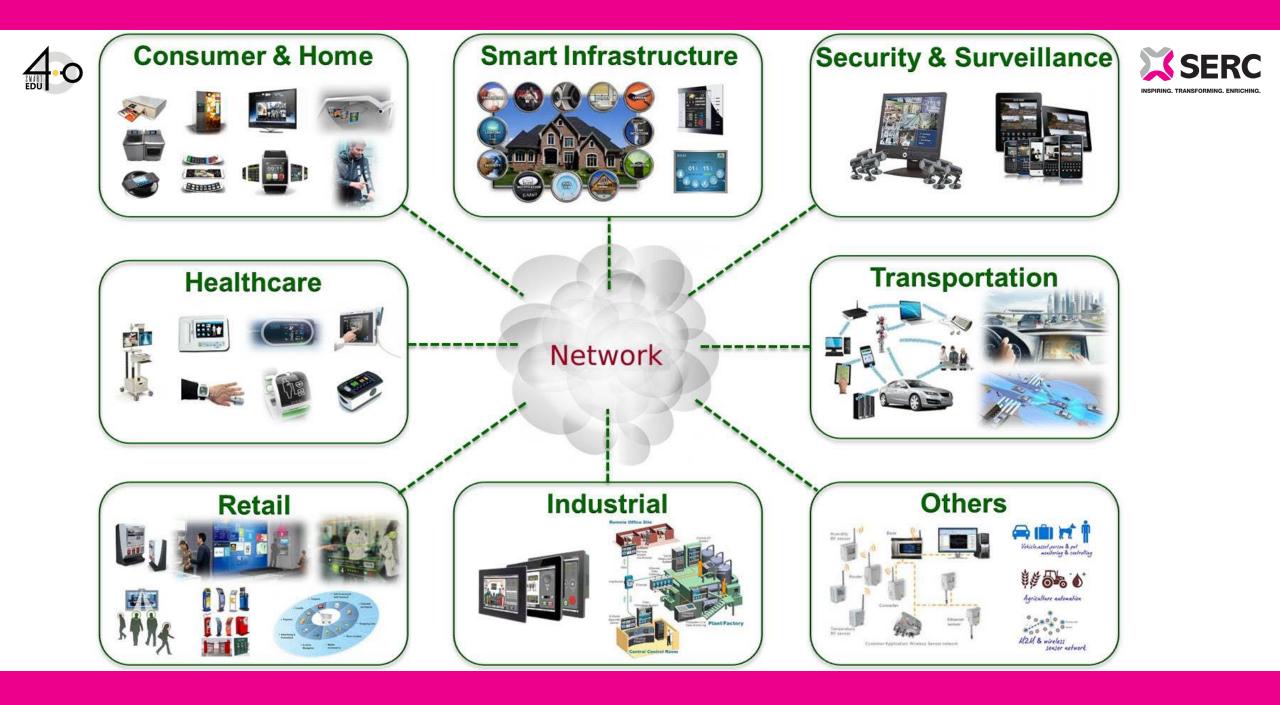
IIOT (Industrial Internet of Things)

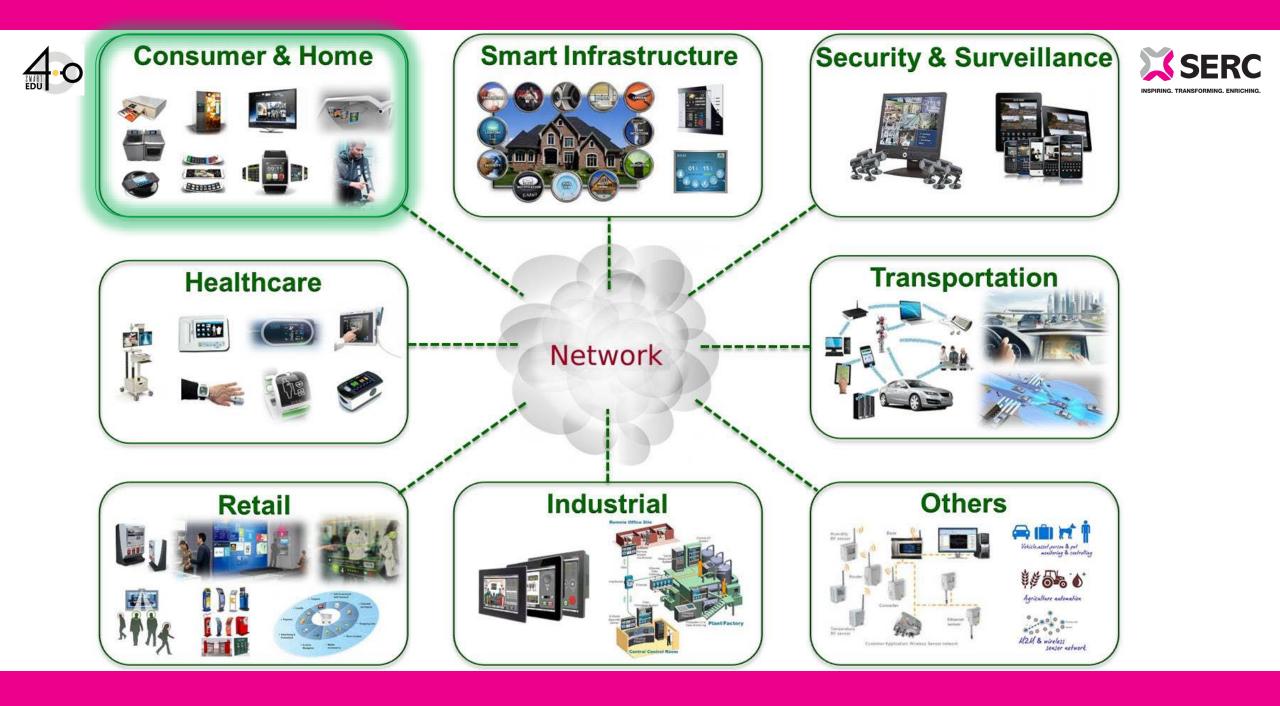
Digitalisation

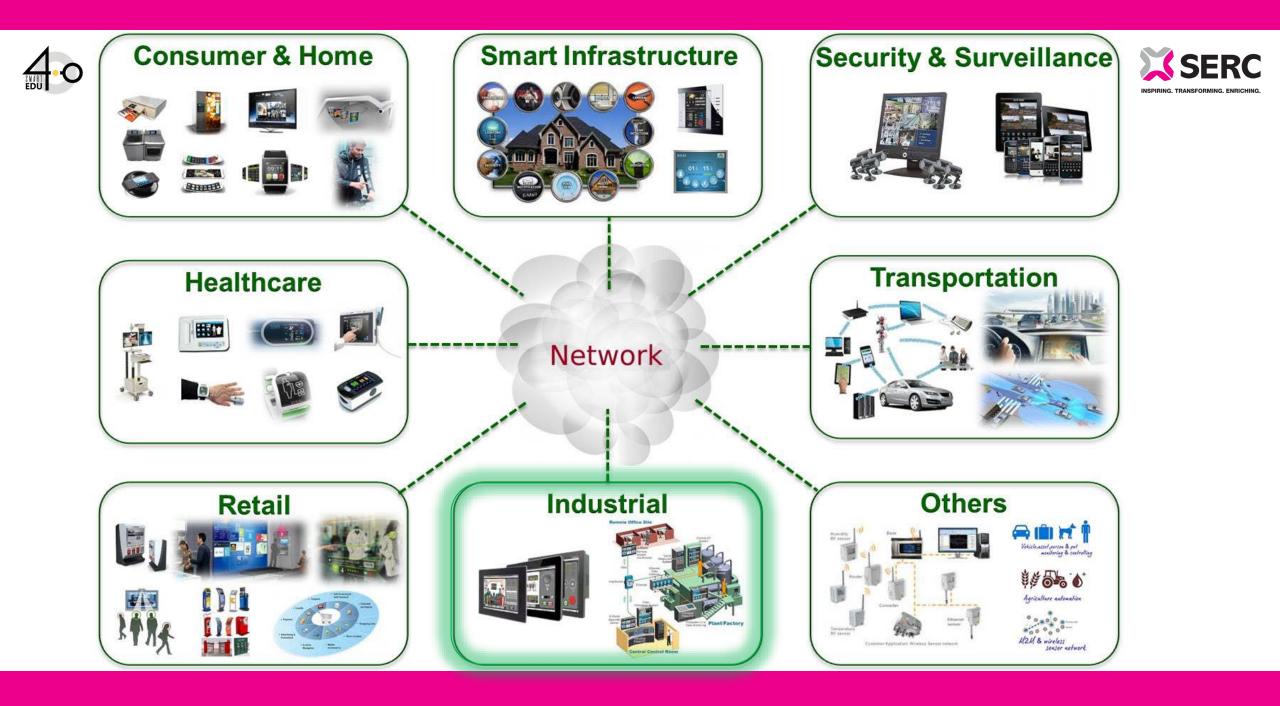
M2M (Machine to Machine Comms)

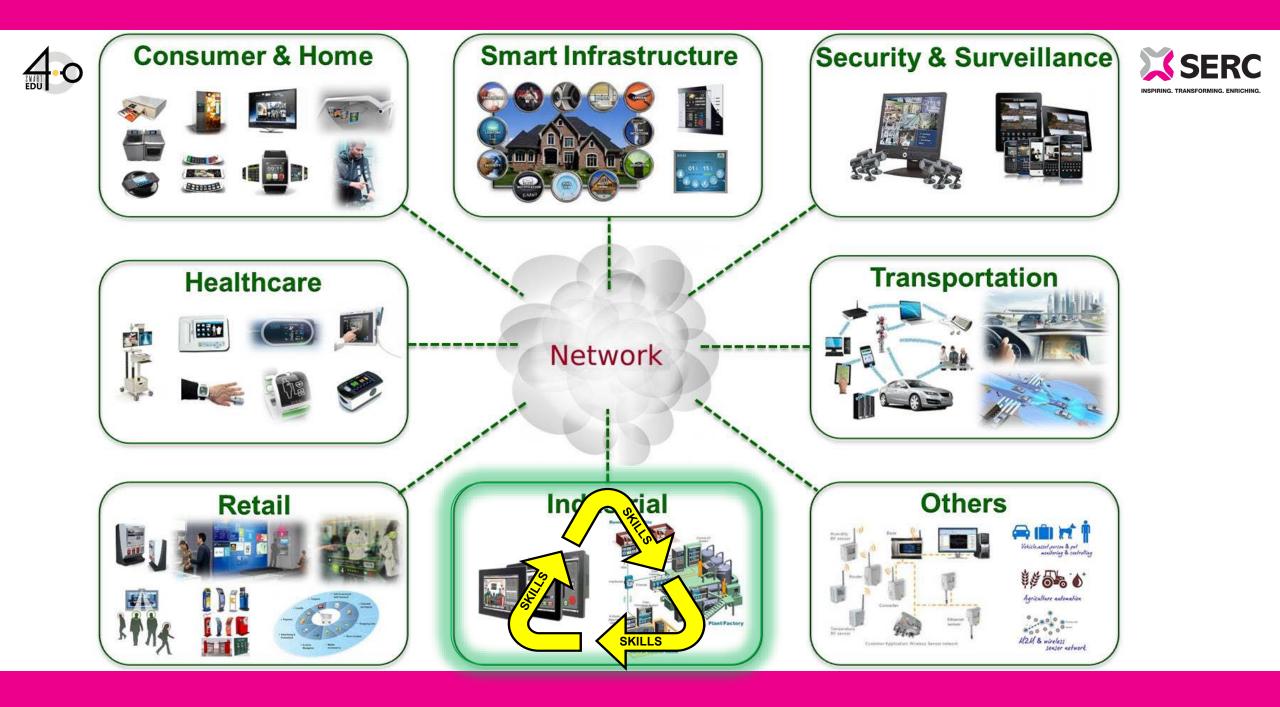
Ai (Artificial Intelligence)

Digital Transformation

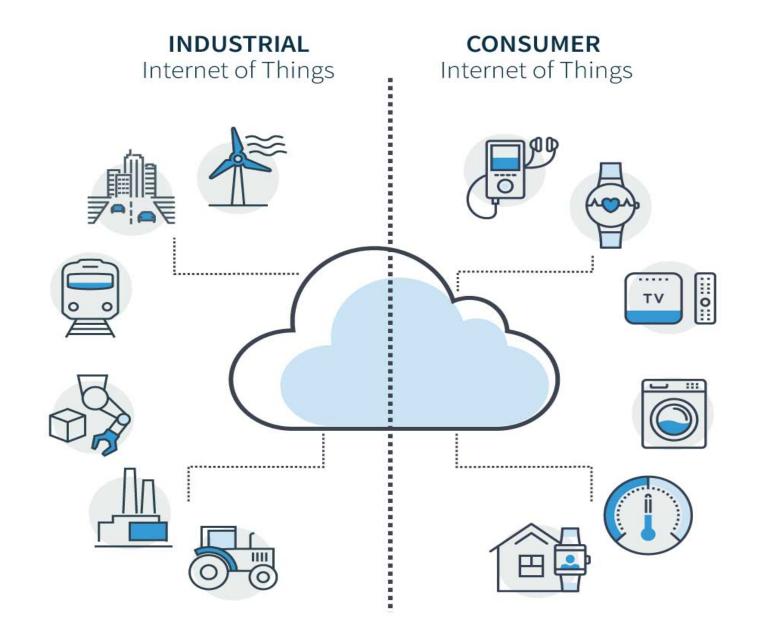










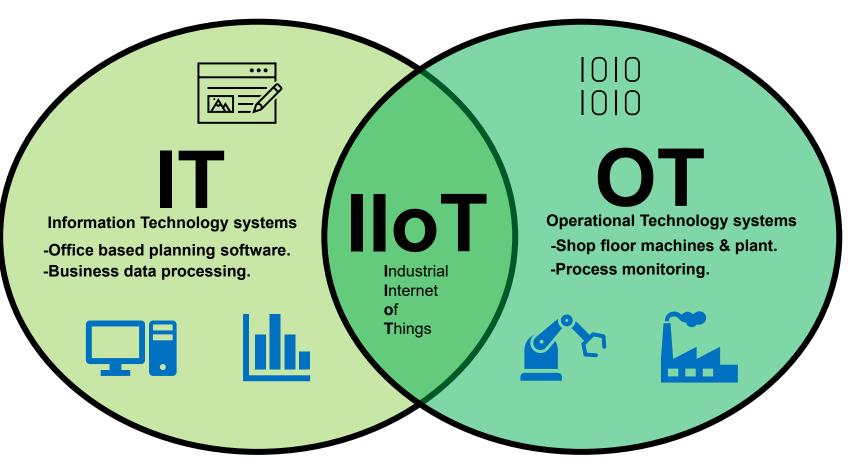








Systems Integration

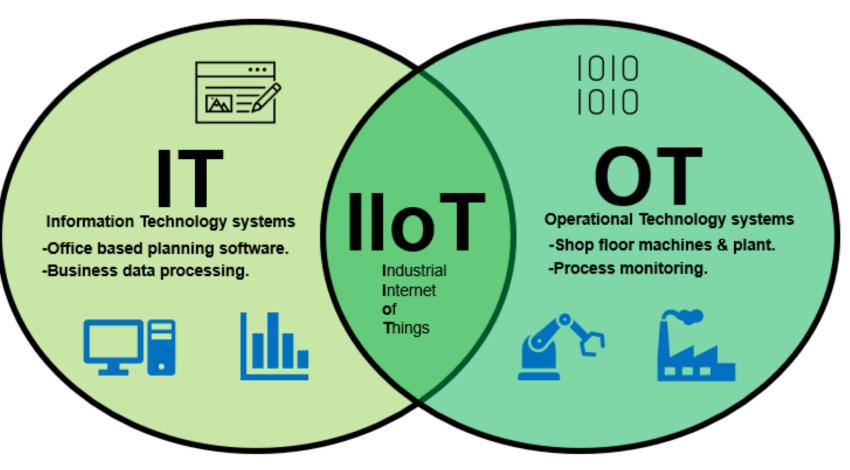


OT devices & systems need to be connected to IT systems to allow businesses to Digitally Transform into Industry 4.0 Enterprises.



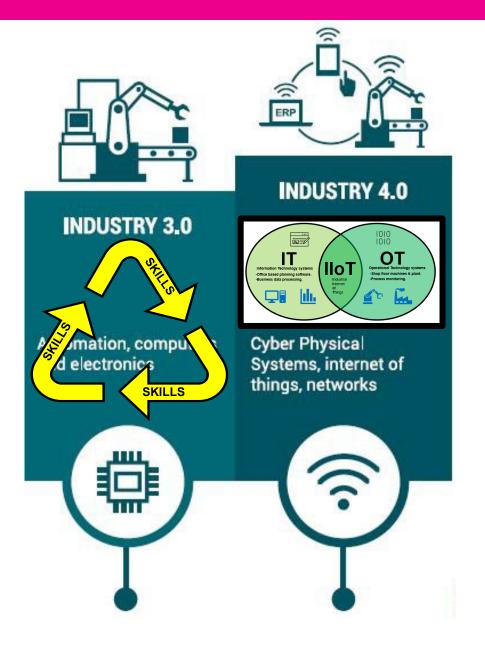


Systems Integration



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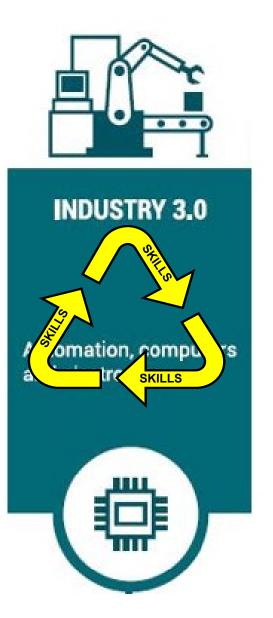






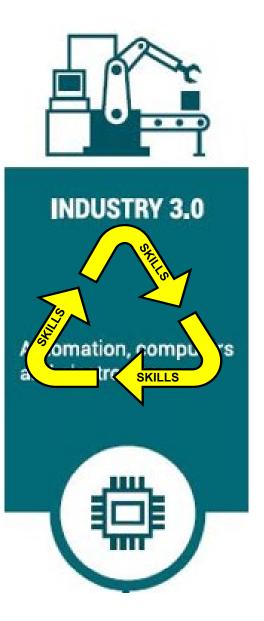






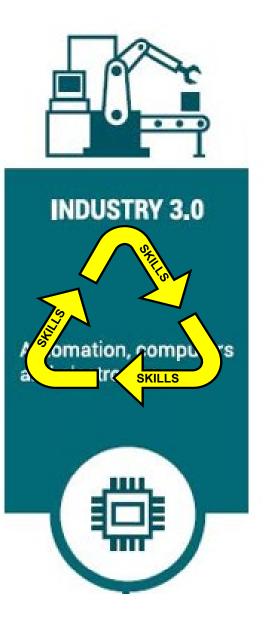




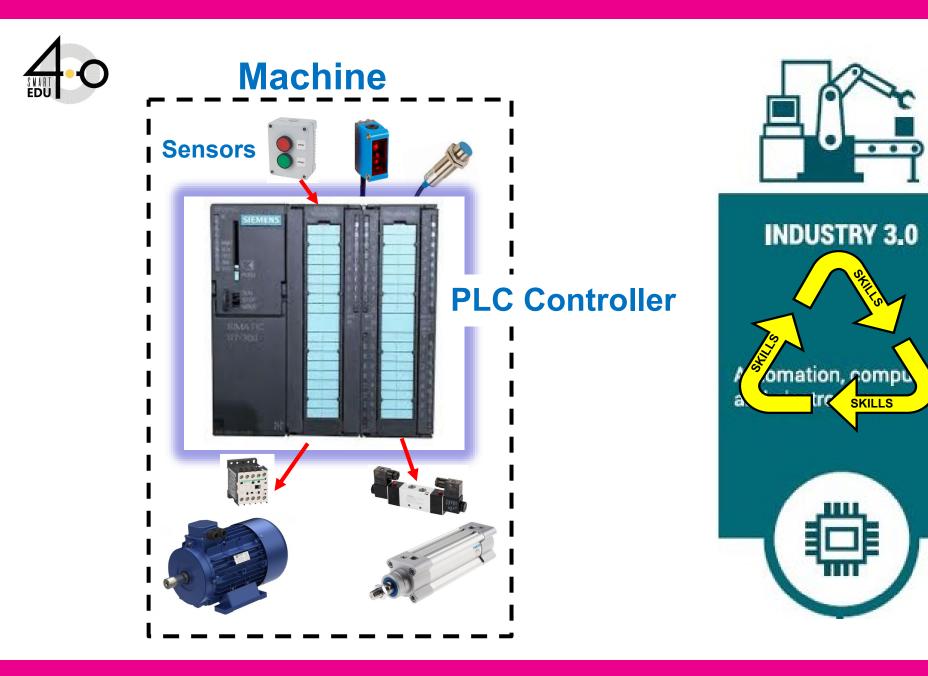




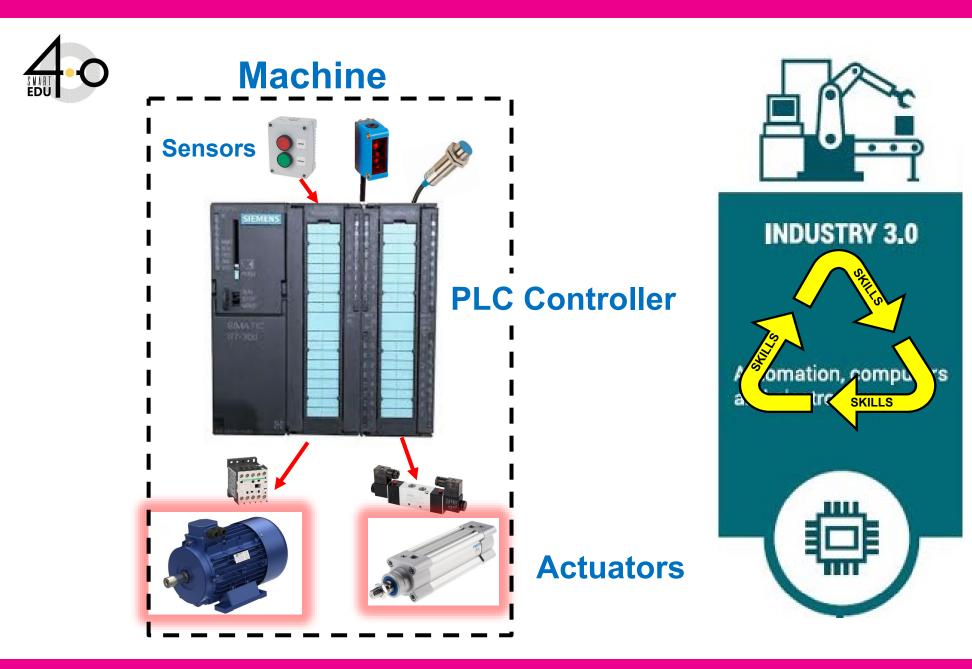




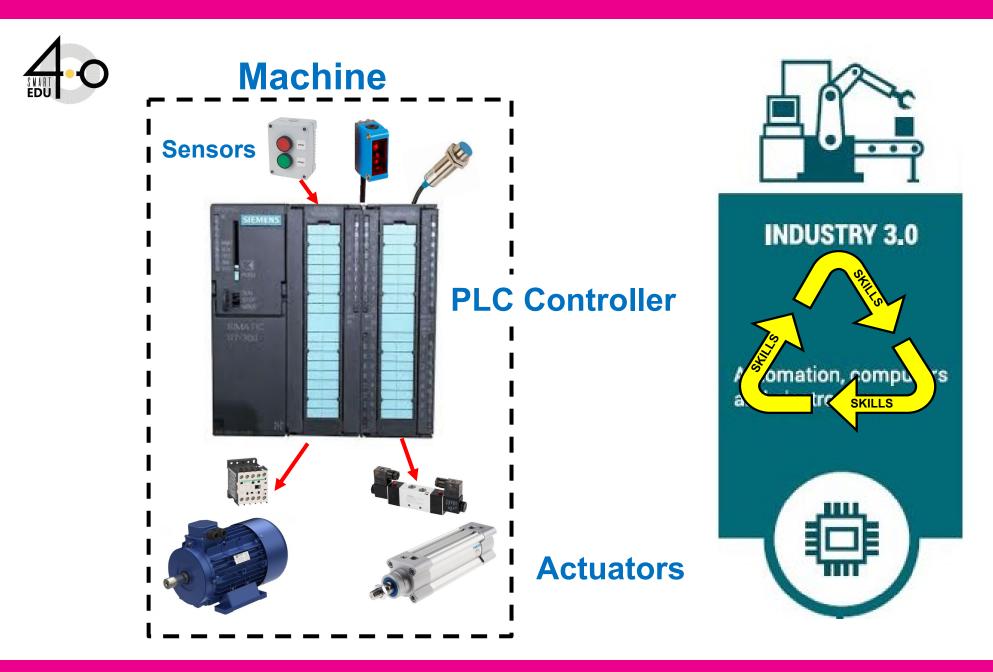




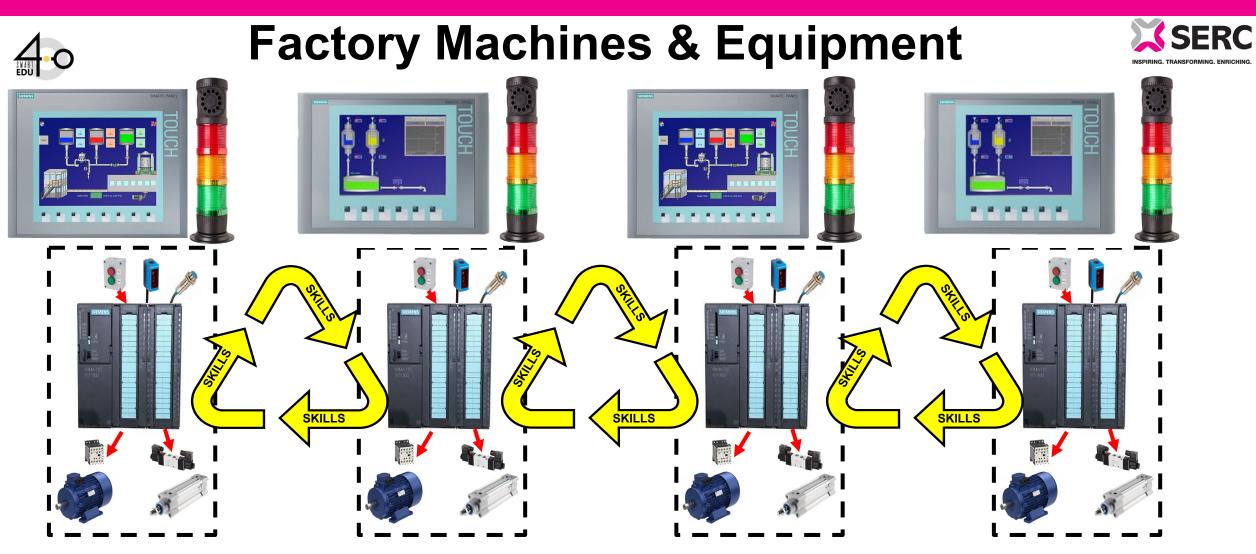










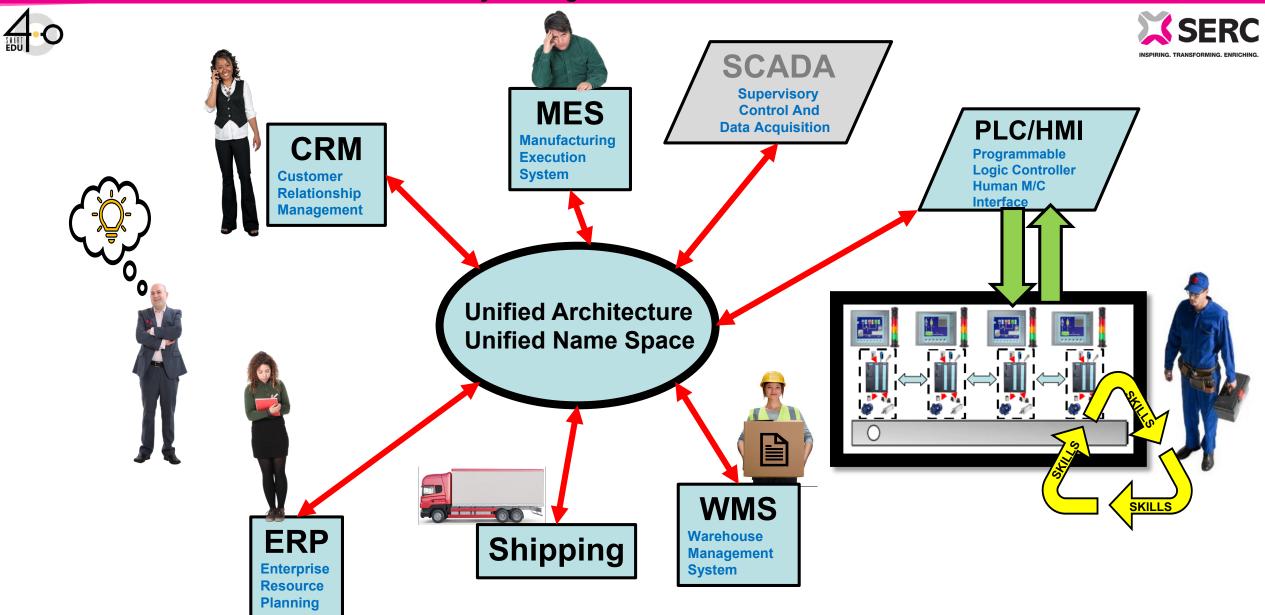


Automated Manufacturing Processes

Raw Material Infeed

Finished Products Outfeed

Industry 4.0 Digital Transformation

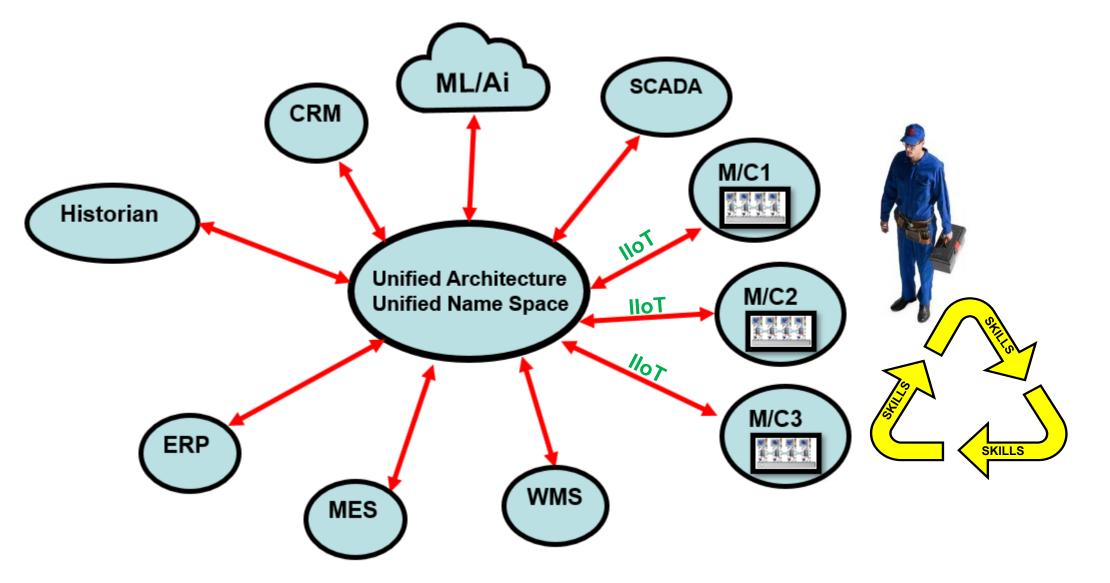


Industry 4.0 Digital Transformation



ISA-95 (IEC 62264) Hub & Spoke Architecture

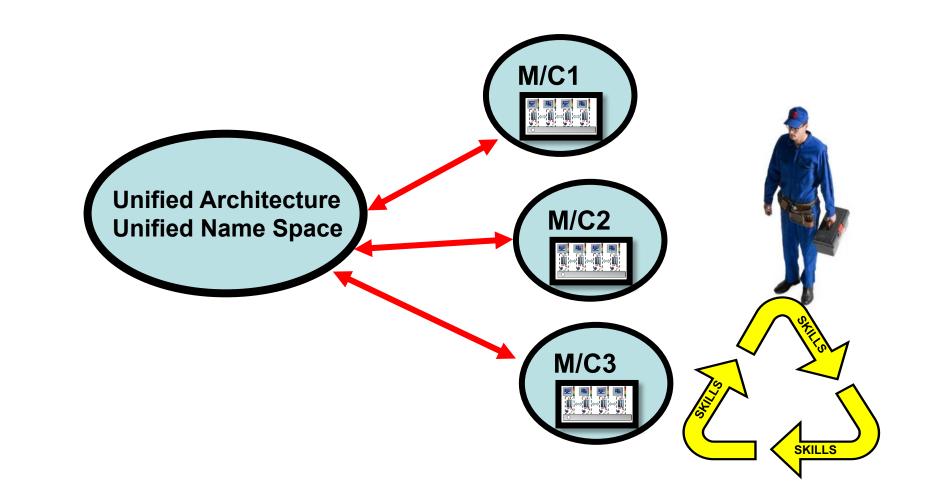




Industry 4.0 Digital Transformation



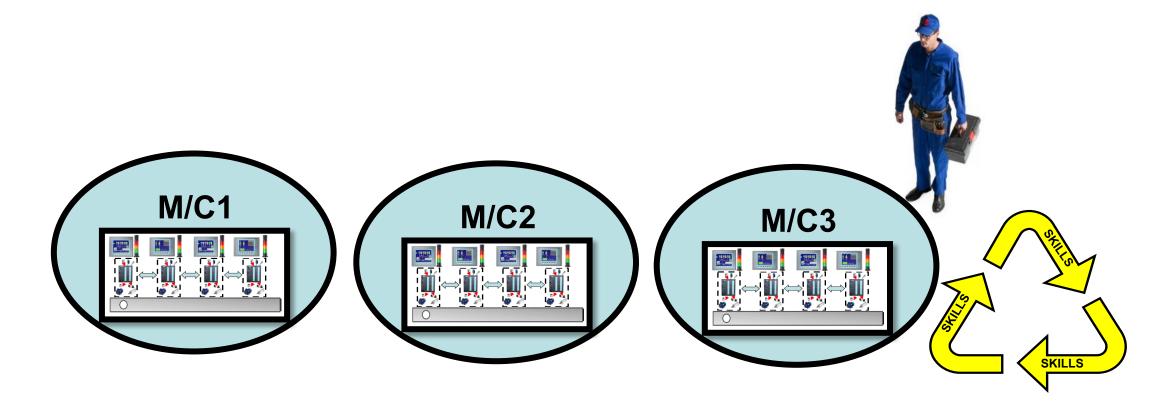


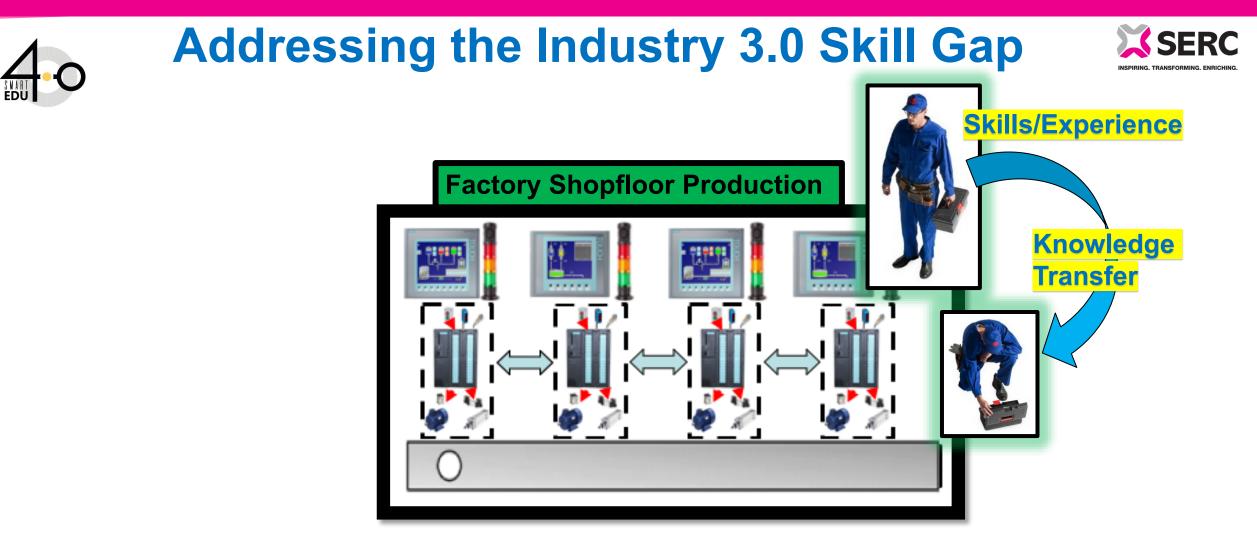


Industry 4.0 Digital Transformation

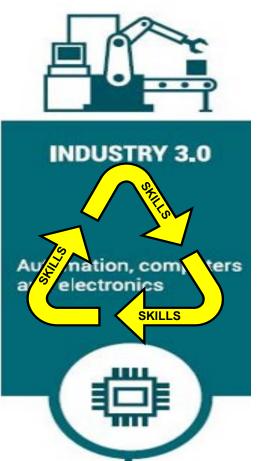
Industry 3.0 Automation Skills Gap Remains





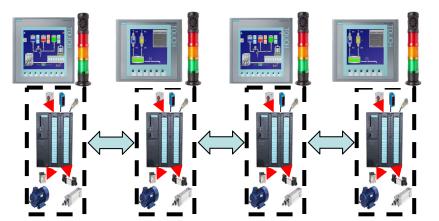






Industry 3.0 Skills Gap





SHOP FLOOR





INDUSTRY 4.0

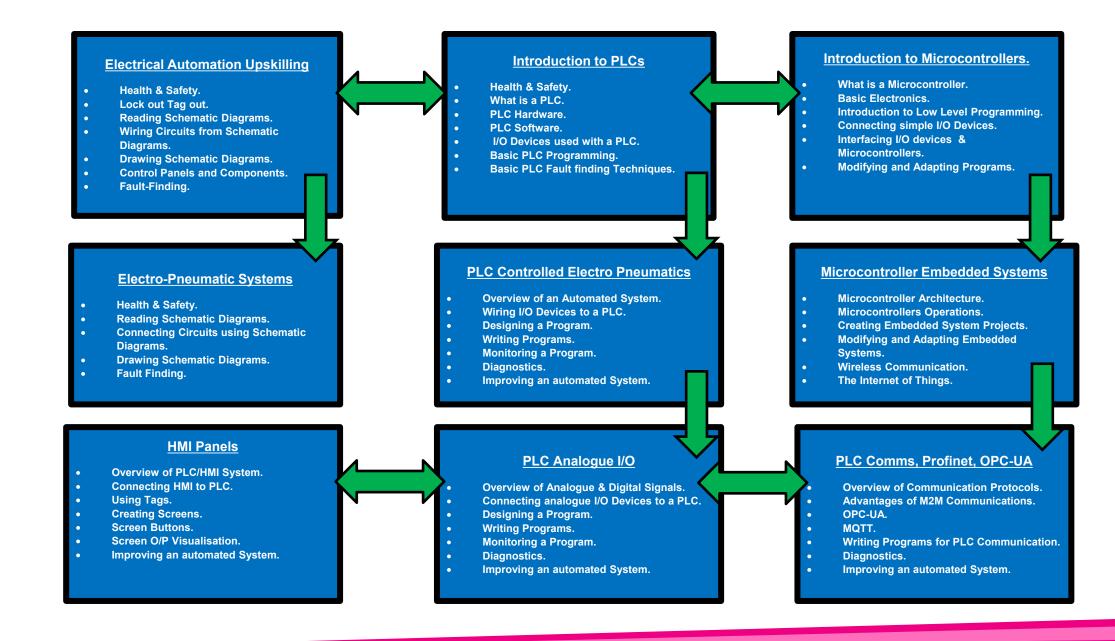
Cyber Physical Systems, internet of things, networks



Skills Gap

Potential Up-Skilling Pathways: Automation Example.



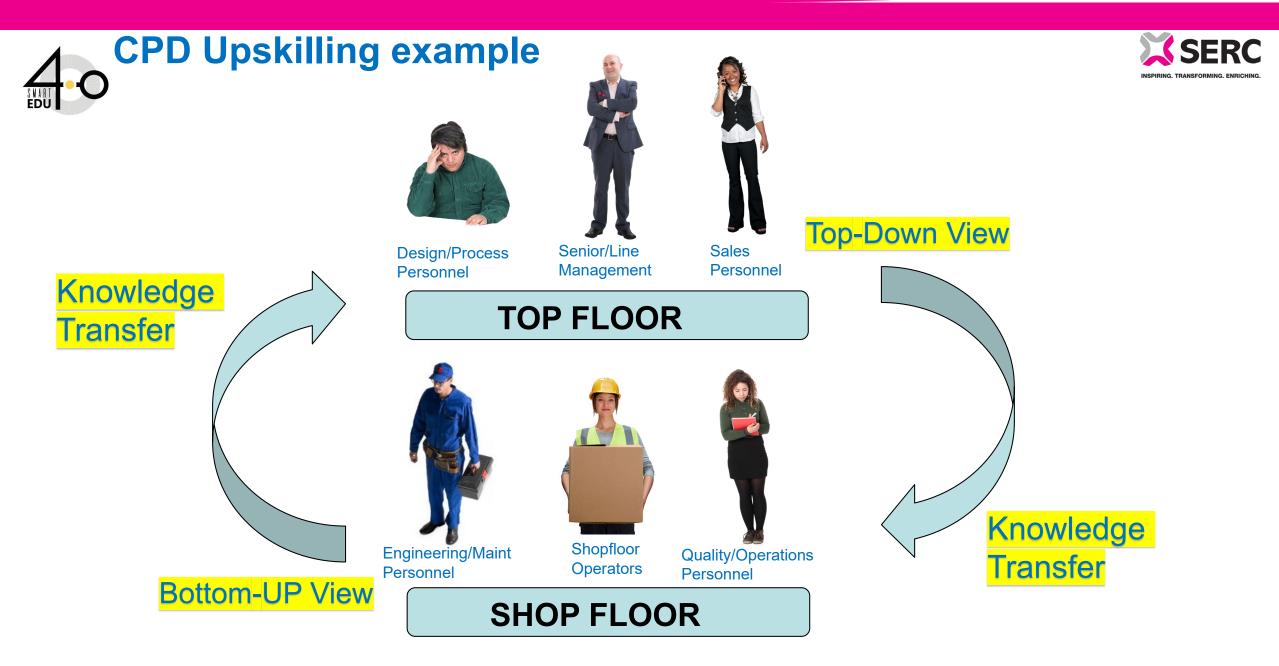


CPD Upskilling example









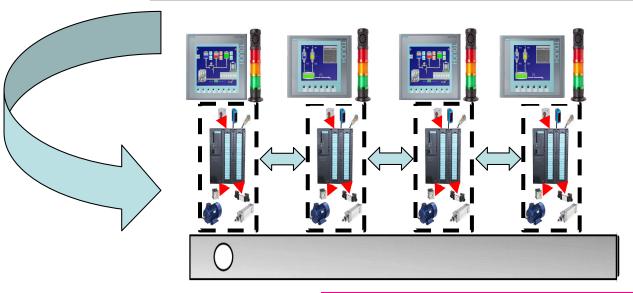
CPD Upskilling example

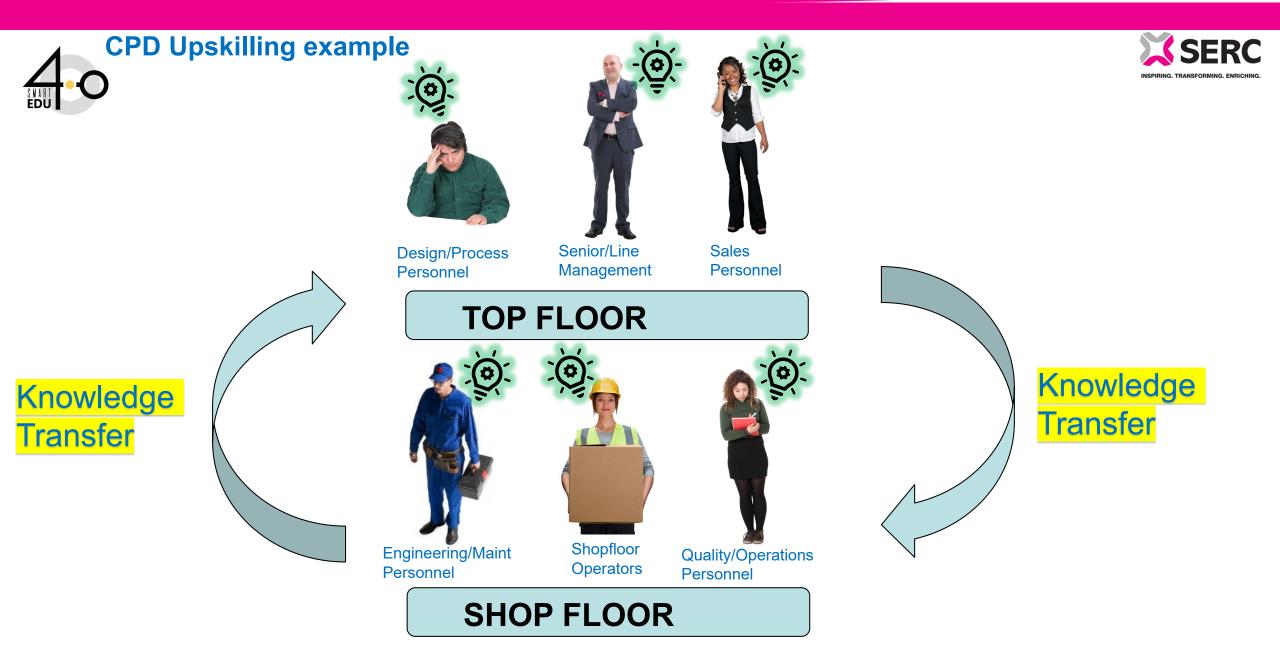


Up Skilling multi-disciplinary "TEAMS"



TOP FLOOR & SHOP FLOOR







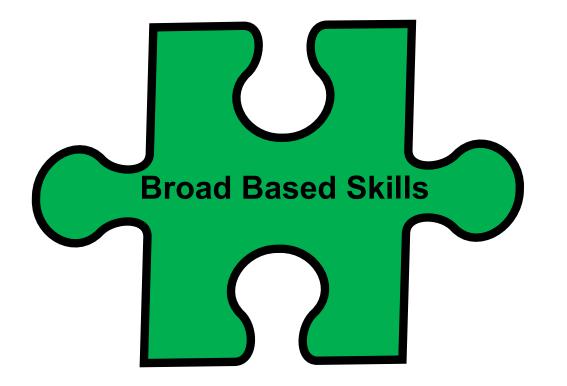
New & Existing Workforce Skills

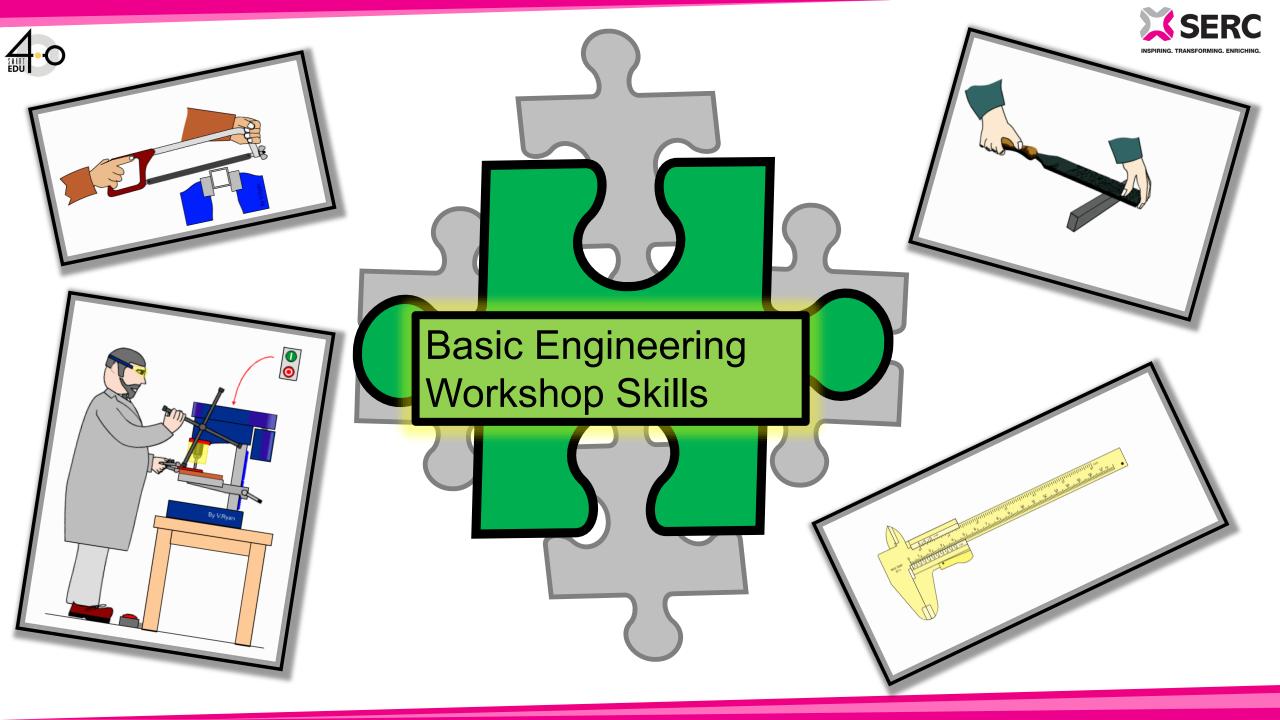


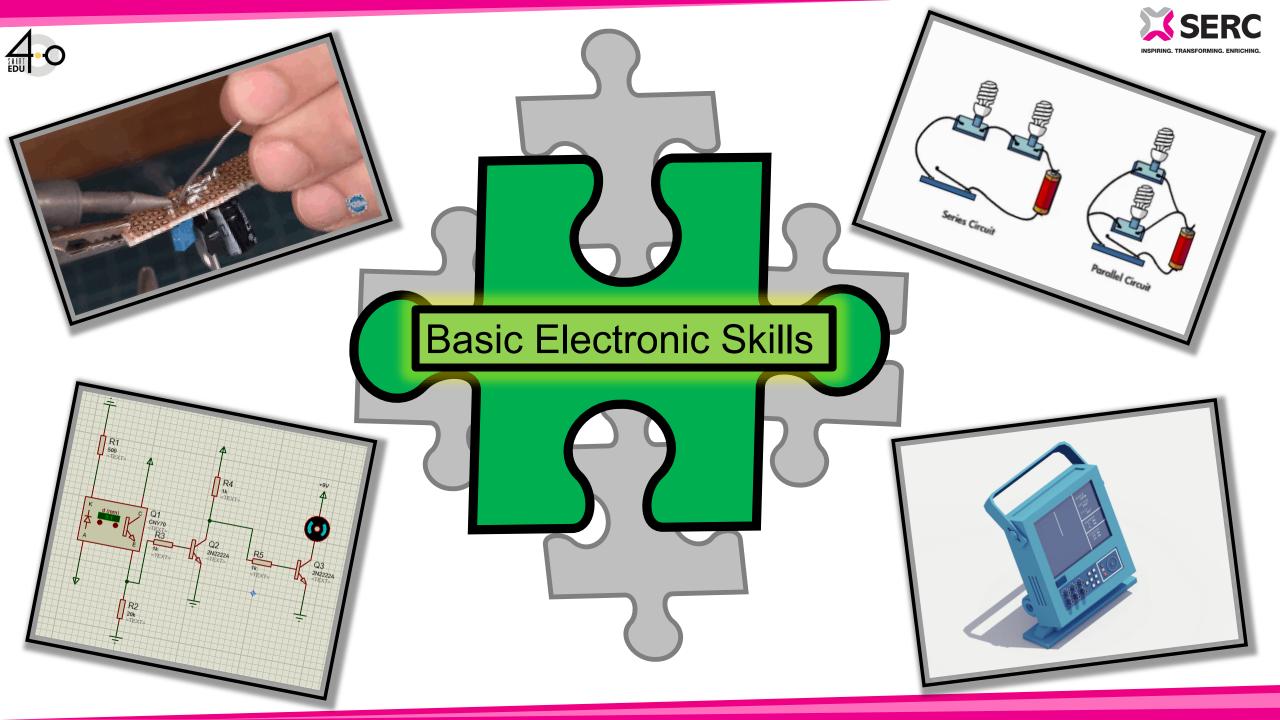
Up-Skilling Existing Workforce

Re-Skilling Existing Workforce

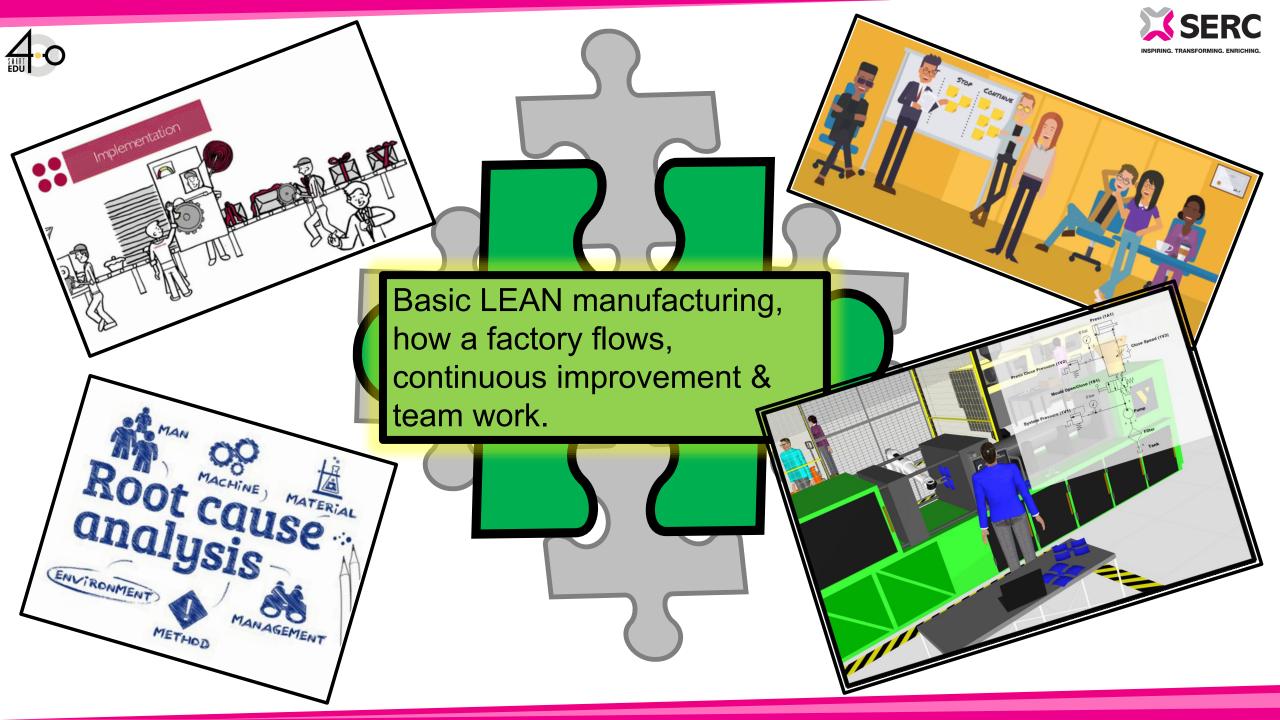
Training New Employees

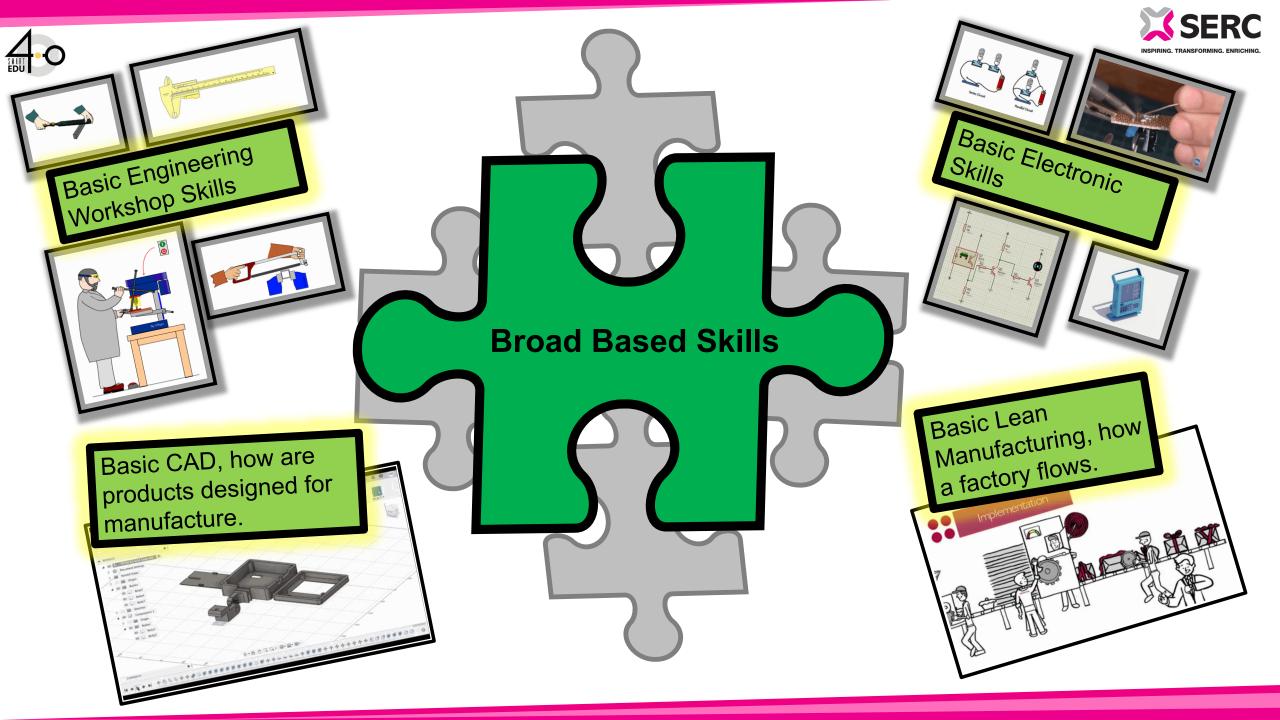




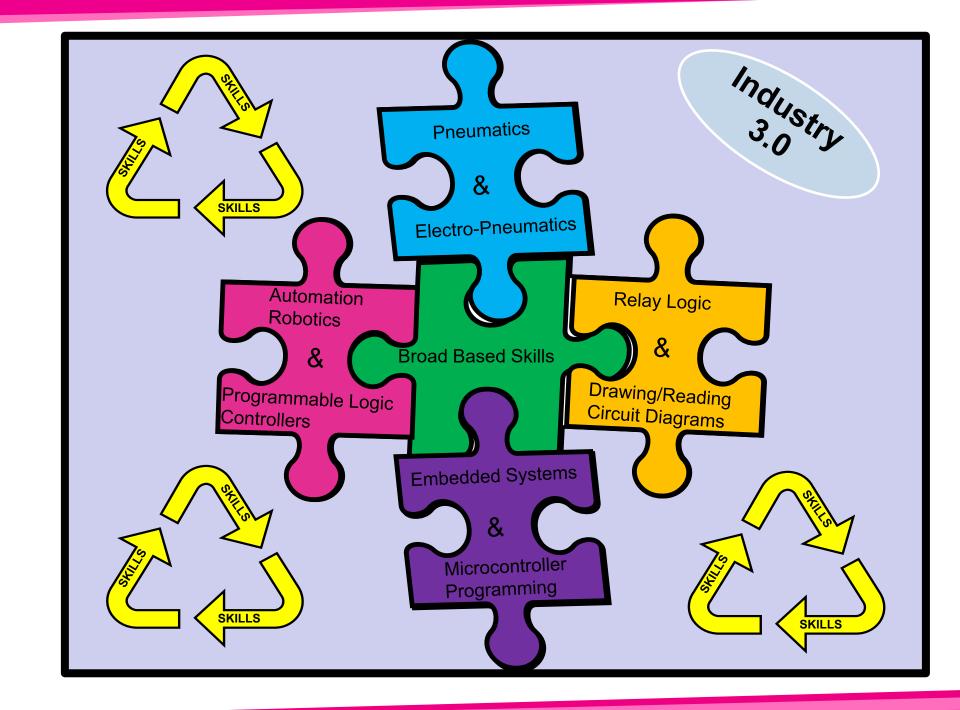






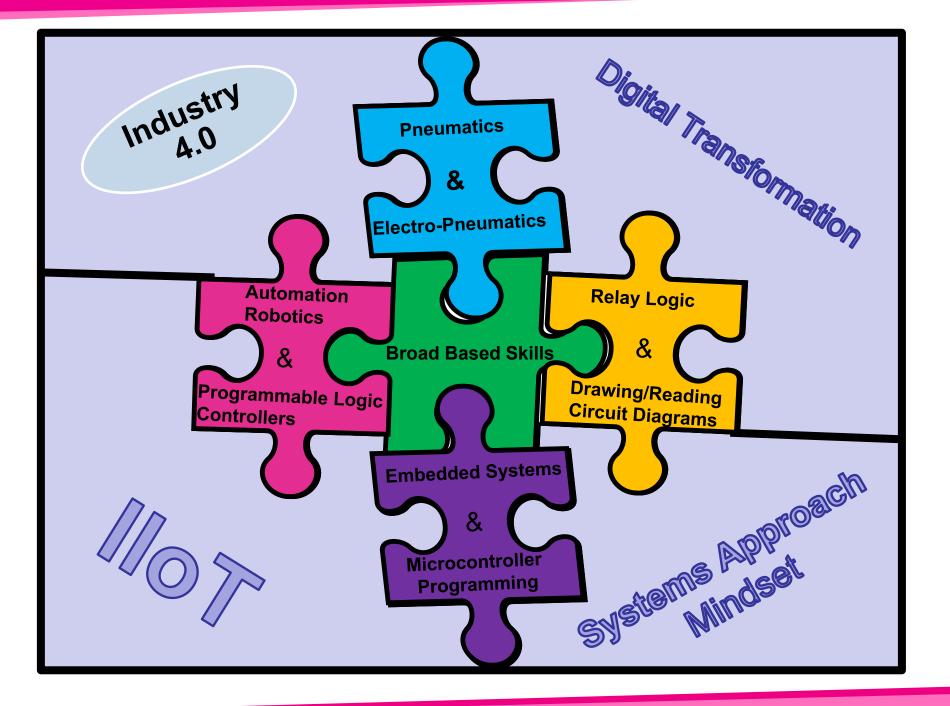


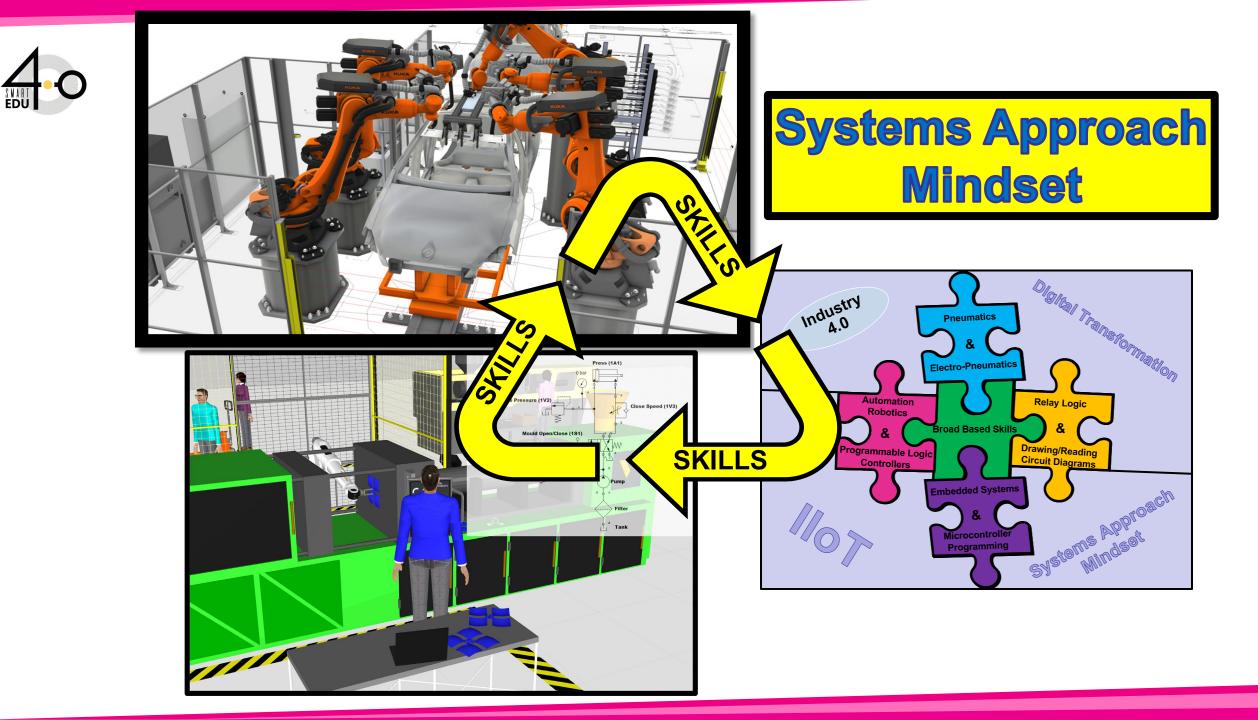




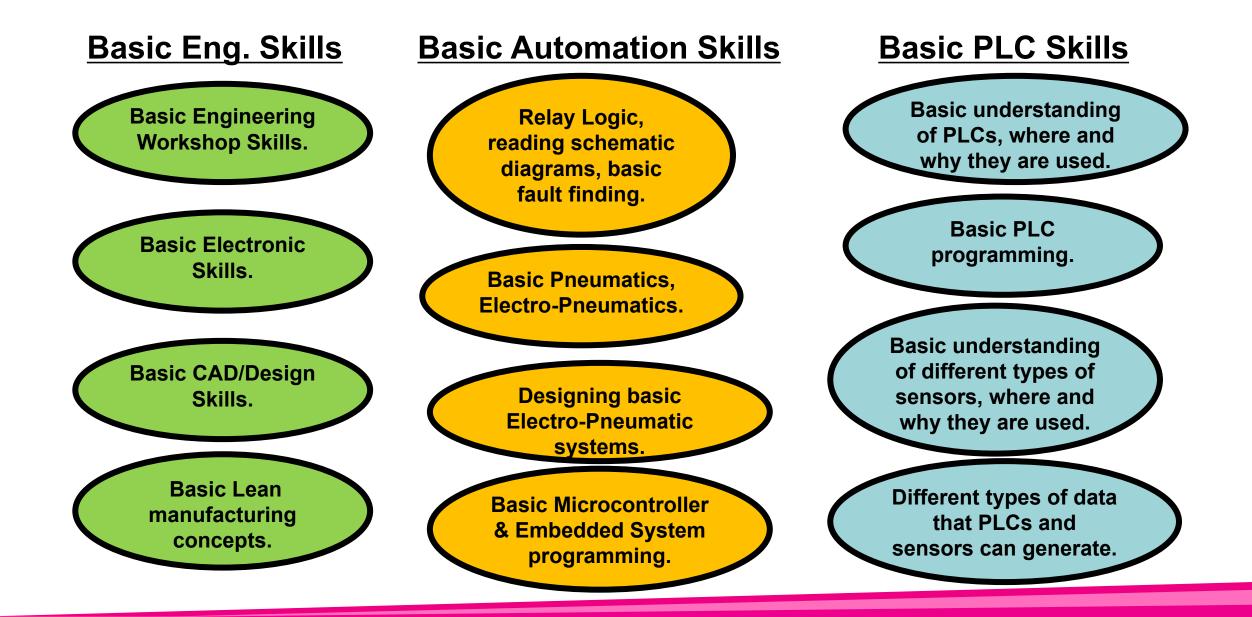
EDU



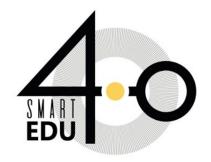




Development of a "Pick & Mix" suite of upskilling modules



SERC





Thank you.