

Danny LAI Lead Consultant Smart Manufacturing and Mainland Business Division



Industrie 4.0 (The 4th Industrial Revolution)







「i3.0」 VS 「i4.0 」



Equipment IoT Real Time



- Digitalisation, Connectivity, Visualisation









Through sensor applications and digital application tools

Real time Equipment Management – ^{*hkpc} Status Visualisation

























Labour Intensive Assembly Line













Devices with standalone appliance and gateway (wireless network that cover 200 meter end-to-end)





Digital Dashboard for real time visualisation

Digital Analyser interfaced with infrared photo sensors for real time capturing of processing time and idle time

Assembly Work bench with labour workstations





- Optimise labor intensive operation for manufacturing industry

- Interfaced with infrared photo sensors for real time capturing of processing time and idle time for the labour assembly operation
- Real time monitoring the variations of processing time and WIP in assembly line
- Act as real time data-driven tool for assembly process analysis and optimisation

Commercialization Plan (Yr 20/21)



RTTP Digital Lean Certification Program Series - Certified Digital Lean Practitioner (3 Days In-Company Training)

Day 1 (Training)

- i4.0 & Digital Lean Concept
- IoT Methodology
- Sensor Application

Day 2 (On-site Practical)

- Digital Lean Analysers Setup
 - Hardware/Software installation
 - Trial run (2 Lines Max)
- Real time data acquisition

Day 3 (On-site Practical)

- Data Analytics
- Review KPI
- Data Driven Improvement



Industry Sector Specific

- Target : Home Appliance / Toys / Electronic PCBA / Textile and Clothing
- With Labour intensive operation





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