

What is INDUSTRY 4.0?



4th Industrial Revolution (Industry 4.0)

WHEN? Now
WHAT? Connectivity, smart devices, data exchange, real-time data, AI and machine learning
WHY? Lorem ipsum dolor

3rd Industrial Revolution

WHEN? Late 20th century
WHAT? Electronics, microprocessors, telecommunications, computers, automation, global supply chains
WHY? Lorem ipsum dolor

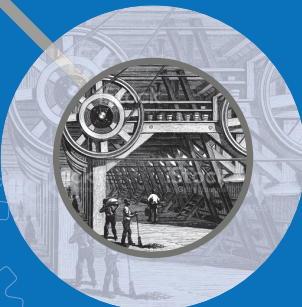


2nd Industrial Revolution

WHEN? Late 19th century
WHAT? Electricity, mass production, oil
WHY? Lorem ipsum dolor

1st Industrial Revolution

WHEN? 18th century
WHAT? Mechanisation, coal, steam and water power
WHY? Lorem ipsum dolor



INDUSTRY 4.0
Network

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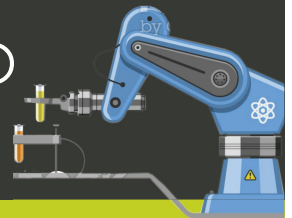
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The Industry 4.0 NETWORK



The Industry 4.0 Network is about boosting New Zealand's productivity, innovation and global competitiveness. It has four parts:

Mobile Showcase

A travelling Industry 4.0 showcase featuring a mini production line and real-life case-studies highlighting the uses and benefits of emerging technologies.

Hosted by BECA



Network Site Visits

Virtual and face-to-face visits to Industry 4.0 sites – practical examples of the technologies in action.

Hosted by EMA

Smart Factory Tours

Tour a factory using a high level of Industry 4.0 technology and see large-scale, intensive use of i4.0 in action.

Hosted by EMA



Industry i4.0 Centre

A space for exploring opportunities for growth and innovation. Visiting teams will design their own company roadmap for change.

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About the MOBILE SHOWCASE

The Industry 4.0 Mobile Showcase is designed to let you experience Industry 4.0 technologies for yourself.

There are five sessions to choose from:

Industry 4.0 101

An overview of Industry 4.0 technologies and how they can help manufacturers reduce costs, become more flexible and react faster to changes in the market.



Productivity

Discover how Industry 4.0 can help you to increase productivity by improving the collection and analysis of data to drive better decision making.



Quality

Learn how Industry 4.0 can improve the speed and efficiency of quality assurance activities and help prevent quality issues before they arise.



Maintenance

Learn how Industry 4.0 technologies can boost the quality and efficiency of maintenance work for both unplanned stoppages and planned work.



Capital Projects

Discover how Industry 4.0 technologies can improve decision making on capital spend, reducing uncertainty, down-time and costly errors.



Bluff your way into INDUSTRY 4.0

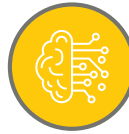


Some key i4.0 concepts



Internet of Things

IoT is about objects connected via the internet, sharing real time data from small embedded sensors to identify bottlenecks.



AI and ML

Artificial Intelligence is human-like intelligence in computers. Machine Learning (ML) uses algorithms to find hidden patterns in data.



Cobots

Short for **collaborative robot**. Cobots are designed to work with humans, taking on dangerous, dull, dirty or awkward tasks.



AR and VR

AR layers interactive Computer-Generated Imagery over the real world. VR is entirely CGI. VR is often used in H+S training; AR in...



Digital Twins

Exact digital versions of real-life machines or processes. Data from a machine is shown in real-time in its Digital Twin.



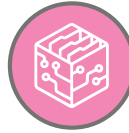
Big Data

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Additive Manufacturing/3D Printing

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Modelling & Simulation

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Data Analytics

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