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**Digitalisation in the supply chain**

Unrestricted Siemens AG 2018

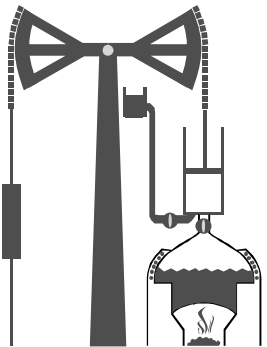
[www.siemens.com/chemicals](http://www.siemens.com/chemicals)

# The 4<sup>th</sup> Industrial (r)Evolution

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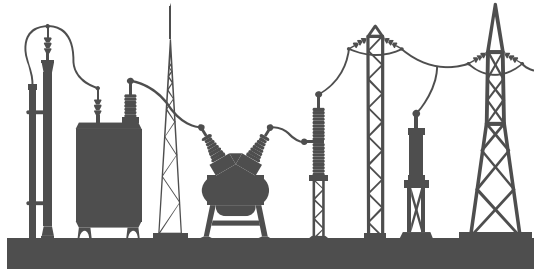
1<sup>st</sup> Industrial  
Revolution

**Water & Steam**



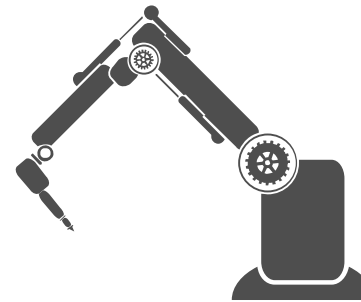
2<sup>nd</sup> Industrial  
Revolution

**Electrification**



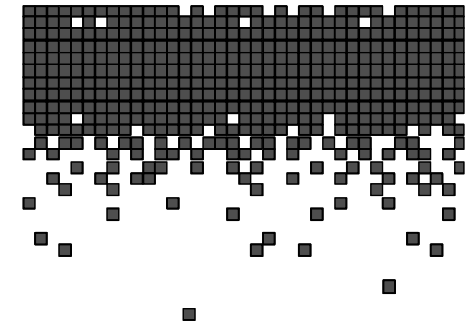
3<sup>rd</sup> Industrial  
Revolution

**Automation**



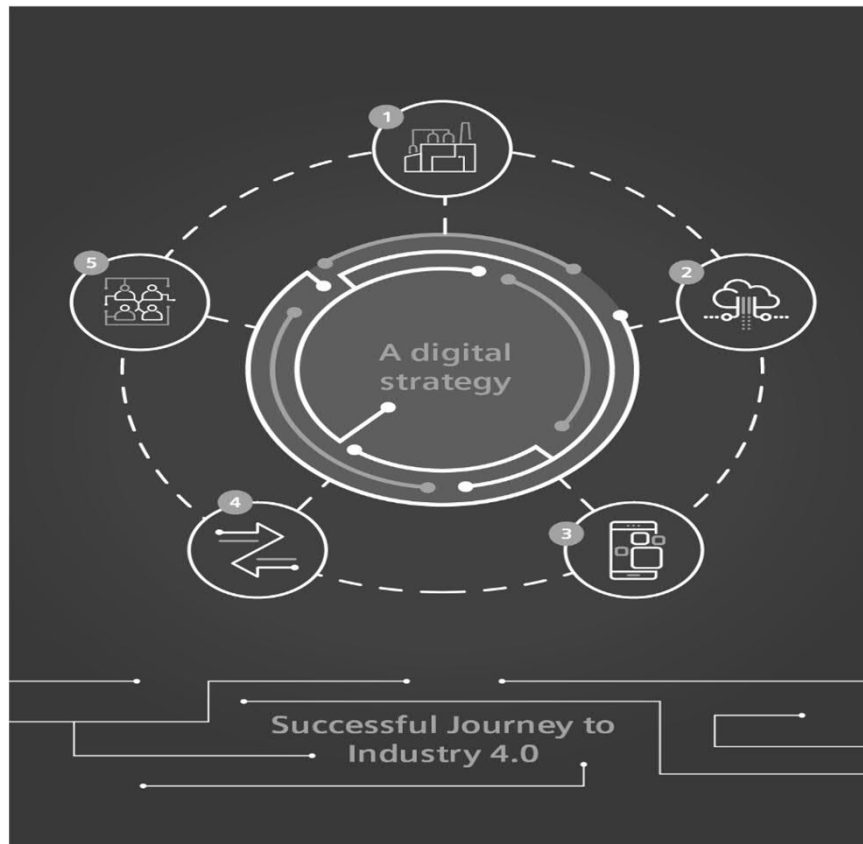
4<sup>th</sup> Industrial  
(r)Evolution

**Digitalisation**



**Digitalisation  
is the data  
(r)Evolution...**

## Building blocks to complete digital transformation



Digitize the physical environment

Standardise data protocols

Invest in applications enabled by data

Data exchange to the upstream supply chain

Make the digital connection to customers

# Congleton Chronicle



Registered at the Post Office as a Newspaper  
 No. 1895. At the Court of the Commissioners for the General Regulation of the Press, 25th March 1911.

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 THE WORKS, 15-18 MAIN ST.,

Price 55p

INSIDE: OUR PULL-OUT PROPERTY GUIDE FROM LOCAL ESTATE AGENTS: PAGES 23-34



**Rose queens reunited: p6**



**Plain sailing 37**

LETTERS 38-42  
 REVIEWS 16-19  
 TOWN NEWS 20-22 & 35-37

## Downturn strikes Siemens

A large swathe of land on the edge of Congleton now faces the threat of development for as many as 700 houses.

This month West Cheshire residents became aware of plans to build 300 houses on land off Padbury Lane, south of the town.

Lincolnshire Farm, behind Congleton High School, where a plan for 200 properties was approved last year after Cheshire East Council approved the application.

And West Cheshire Council has announced plans for up to 200 houses in Northwood, just a stone's throw east of the town, on land between Church Road, Church Lane Road and Black Fir Lane, and also to the north of the proposed link road.

However, currently, the council is holding Padbury Lane development, just 1,000 yards from the doors of West Cheshire residents this week, including those of the proposal.

It said the site was subject to an application had been submitted as a residential extension. The local planning authority

is currently reviewing the application. It is not clear if the council will approve the plan. The council is currently reviewing the application. It is not clear if the council will approve the plan. The council is currently reviewing the application. It is not clear if the council will approve the plan.



## 'Exciting opportunity' for mere watersports

The owner of a property at Audley, near the town, has announced a plan to build a watersports centre. The plan is to build a watersports centre on the site of the former Audley Golf Club. The plan is to build a watersports centre on the site of the former Audley Golf Club. The plan is to build a watersports centre on the site of the former Audley Golf Club.

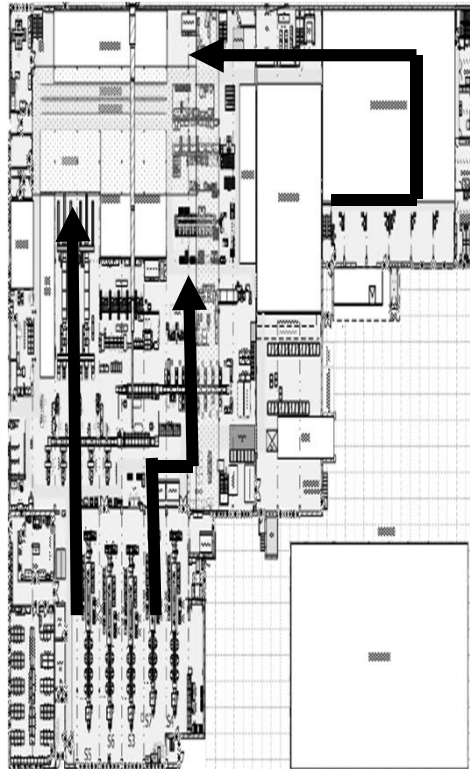
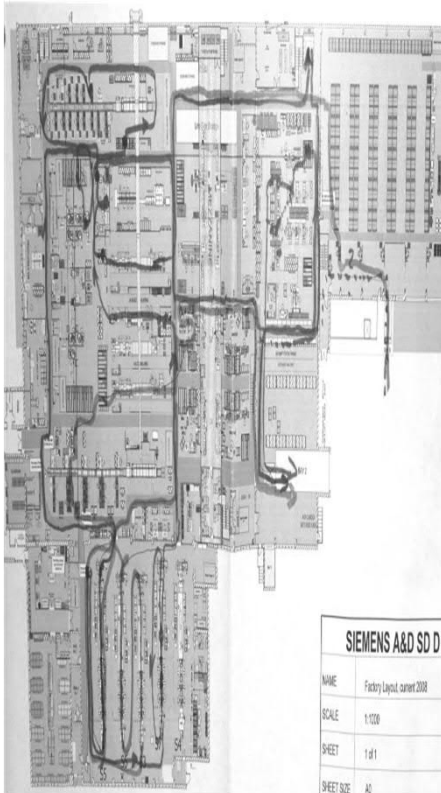
**Birch**  
 WE BUY GOLD & SILVER  
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 Phone: 01273 511111  
 Free Brands available including a range of office  
 products of the Sphero of Life Range

**DAVENPORTS**  
 UNDER NEW OWNERSHIP  
**Suit & Jacket Event**  
 Save 25% off all Suits & Jackets

25% off  
 all Suits & Jackets

# Vision 2020: Siemens Congleton

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Continuous improvement programme

Lean

EI(DSP1)

Value stream mapping

=

Reduced manufacturing time

Increased quality

Higher employee engagement

**Slide 5**

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**EI(DSP1** Elsby, Ian (RC-GB DF S-VS PRO), 06/03/2019

## Vision 2020: Siemens Congleton

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“Through utilisation of digital tools, we have revolutionised process improvements. Production time for one of our products reduced, 168 hours down to 2 “

*‘Siemens Congleton’*

Customised production

Co-botics

EI(DSP1)

Virtual reality modelling

Connected supply chain

Digital tools revolutionise production

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**Slide 6**

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**EI(DSP1** Elsby, Ian (RC-GB DF S-VS PRO), 06/03/2019



## G120X VSD - Customised production

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“Through agile manufacturing, innovation & supply chain collaboration, we now build customized products in similar time frames to single piece flows“

*‘Siemens Congleton’*

High volume production

Complex products

EI(DSP1)

17,000 variations

Batch size of 1

Kanban driven to customer orders

Reliance on supply chain

**Slide 7**

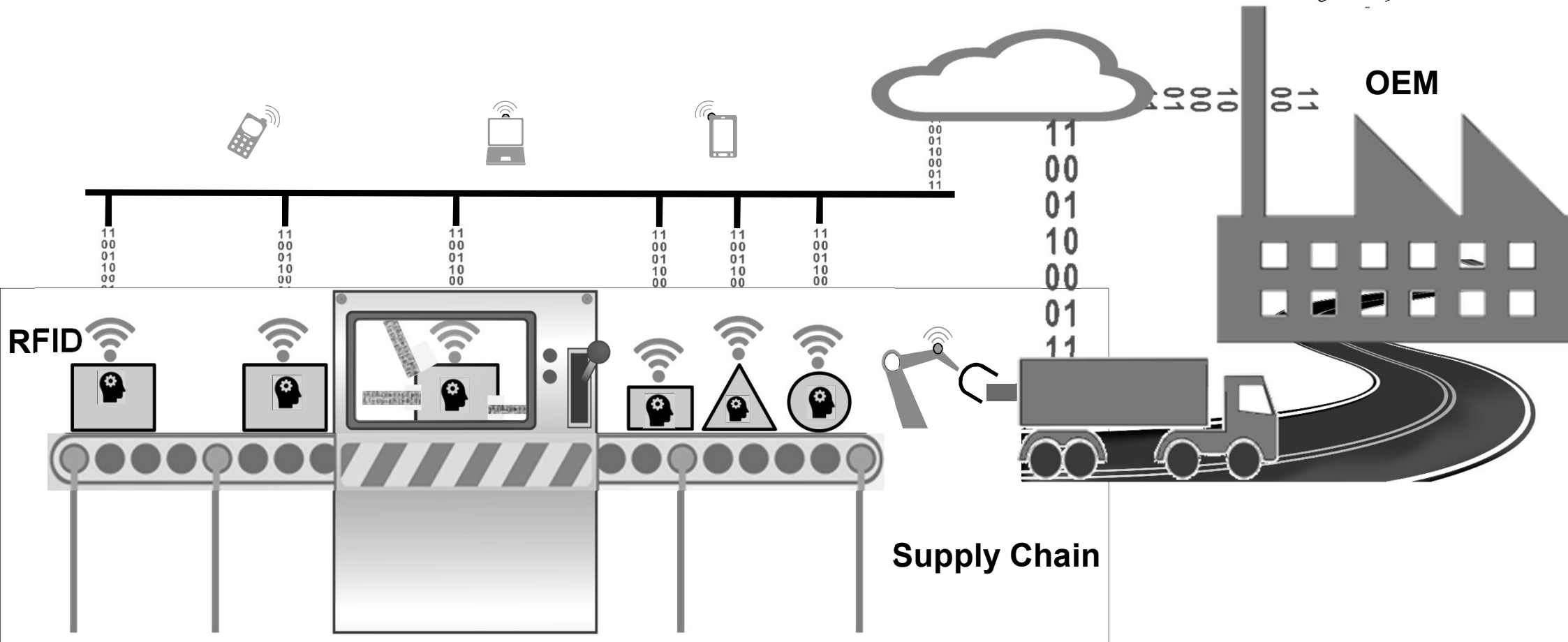
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**EI(DSP1** Elsby, Ian (RC-GB DF S-VS PRO), 06/03/2019

# The Factory of the Future

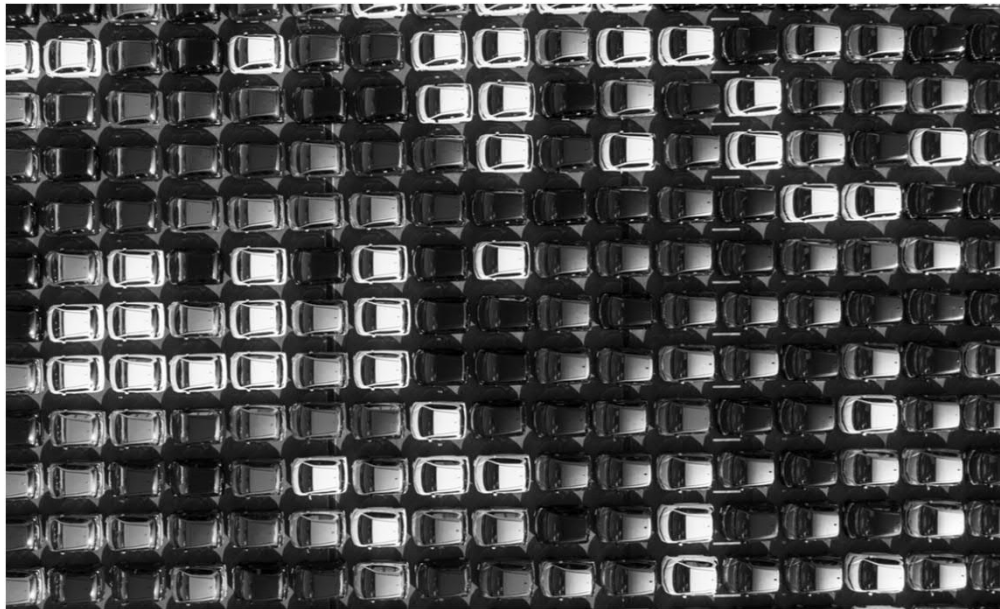
Mass Customisation – Raw material taking control

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## Data exchange to the upstream supply chain: Ford optimise inbound supply chain

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“A transparent & functioning supply chain is a must in spare parts logistics. The cloud based platform AZ4 delivers end to end optimization and easy integration of all essential partners “

‘Reiner Boltersdorf Supervisor European Inbound Operations (FCSD), Ford-Werke GmbH ’

Unrestricted © Siemens AG 2018

All Supply partners integrated into single network

Total transparency of spare parts procurement

Shipping data for monitoring of transport delays

Track goods at any point in transport chain

Dashboard to monitor and zoom in on locations



## Make the digital connection to customers: Hosokawa Micron

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“IIoT & sensors will be vital to HML and its equipment supply business well into the future, and we’re happy to share our digital experiences with other processing companies“

Hosokawa Micron deployed Siemens Mindsphere IOT control systems with SIMATIC S7 hardware

Siemens IOT assist with driving digital business strategy

- Digitalisation in the chemical supply chain
- Analytics & decision making in the cloud
- Predictive MRO / process optimisation / quality

## Digital (IIOT) Initiatives

Condition Monitoring

Operational Transparency

Predictive Maintenance

Performance Intelligence

Complete Digital Twin

