Craft Production | Job Shops | First Factories | Agile / Lean Manufacturing Mass Production | Computer Integrated Manufacturing (CIM) Mass Customization (MC) | Cyber-Physical Manufacturing Circular Economy Mfg. | 5th Industrial Revolution

1st Industrial Revolution 18th Century — Steam-based Machines

2nd Industrial Revolution 19th-20th Century — Electrical Energy-based Mass Production

3rd Industrial Revolution Late 20th Century — Computer and Internet-based Knowledge

Artificial Intelligence Information Technology — AI Software — Intelligence + Big Data IoT Cloud

4th Industrial Revolution Early 21st Century — Internet of Things (IoT), Cyber Physical Systems (CPS), Digital Platforms, Product Service Systems (PSS), Networks

5th Industrial Revolution — Mass Customization, Co-operation between man, and machine, Cyber Physical Cognitive Systems, Sustainable Systems, Human Centric Systems, Resilient Systems

Complexity

Timeline: 1850 — 1910 — 1980 — 2010 — 2025

AI will lead the fourth industrial revolution of human beings' intelligence

SW: Software
IoT: Internet of Things