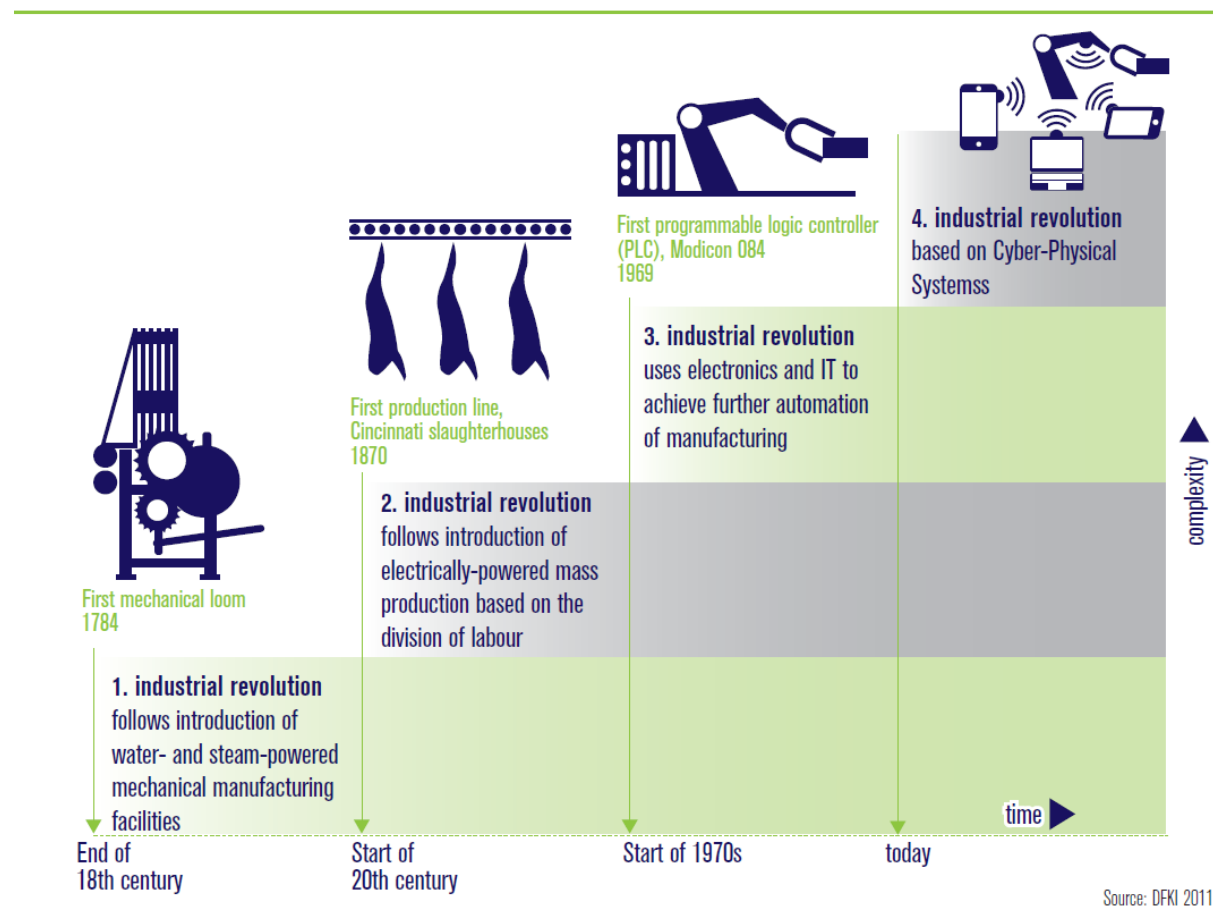


Industry 4.0

Industry 4.0 stands for the Fourth Industrial Revolution. You may also see it written Industrie 4.0 which is the German vision for the future of manufacturing.

This image summarises the four industrial revolutions.



The first industrial revolution, towards the end of the 18th Century, saw the advent of mechanical production using the steam engine and spinning jennies.

The second industrial revolution, at the start of the 20th century, was the start of mass production through assembly lines and electrification.

The third industrial revolution, starting in the 1960s, brought us the mainframe, then personal computing, and the internet.

Today we are in the fourth industrial revolution, It had been defined as a collective term for technologies and concepts of value chain organisation which draws together Cyber-Physical Systems, the Internet of Things and the Internet of Services.

Observers list three main differences between this revolution and the previous ones:

1. Speed. While the previous revolutions happened gradually over a number of decades, the fourth revolution is engulfing us like a tsunami.
2. It covers more than one branch of technology. It is not just about mobile networks, or sensors, but also about nanotechnology, brain research, 3D printing, materials science, computing, networks, and the interplay between all of these.
3. It encompasses the innovation of entire systems, not just single products or services.