

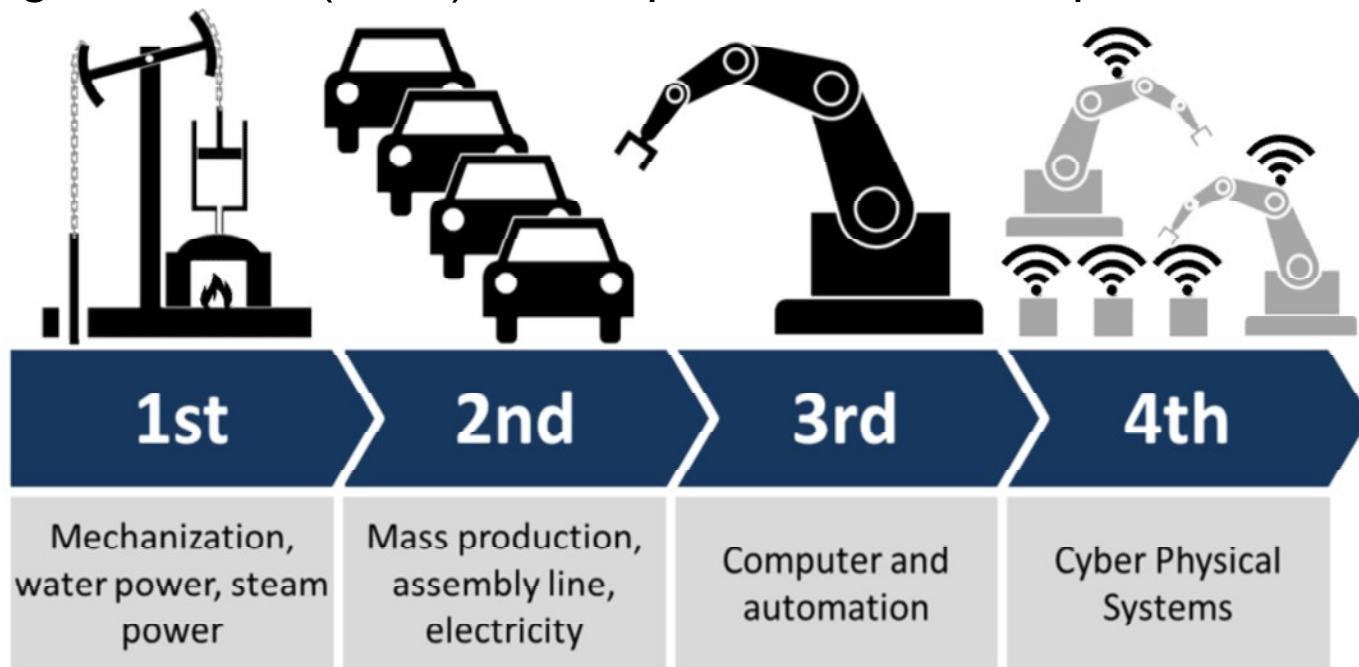
Standards and Industry 4.0





Industry 4.0

Industry 4.0, or the **fourth industrial revolution**, is the current trend of automation in manufacturing technologies. It includes cyber-physical systems, the Internet of things and cloud computing. The term "Industrie 4.0" originates from a project in the high-tech strategy of the German government (2011), which promotes the computerization of manufacturing

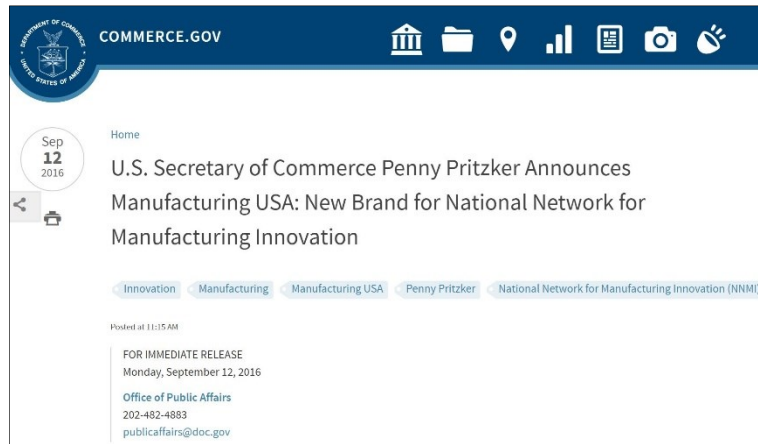


INDUSTRIE 4.0 is the German strategic initiative to take up a pioneering role in industrial IT which is currently revolutionizing the manufacturing engineering sector.



Industry 4.0

Programmes aiming at rebuilding manufacturing are underway in most countries where industry is an important sector





Standards for Industry 4.0

Industry 4.0 and related initiatives recognize that efficiently building self managing production processes requires **standards** to allow sensors, controllers, people, machines, equipment, logistics systems, and products, to communicate and cooperate with each other directly.



European Parliament

DIRECTORATE GENERAL FOR INTERNAL POLICIES

POLICY DEPARTMENT A: ECONOMIC AND SCIENTIFIC
POLICY

Industry 4.0

Standards

If data and communication protocols are proprietary or only recognised nationally, only the equipment of one company or group of companies will be compatible; competition and trade can be expected to suffer and costs rise.

*On the other hand, **independent, commonly agreed, international standard** communication protocols, data formats and interfaces can ensure interoperability across different sectors and different countries, encourage the wide adoption of Industry 4.0 technologies, and ensure open markets worldwide for European manufacturers and products.*