

INDUSTRIAL 4.0: PAST, PRESENT, FUTURE

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INTRODUCTION

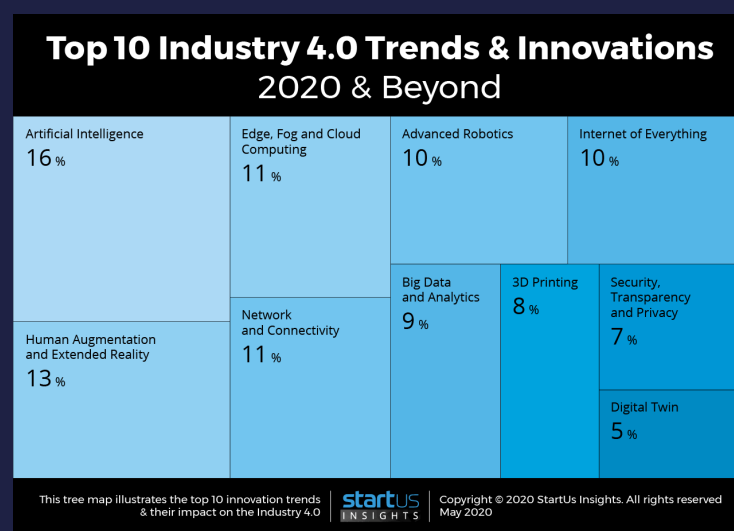
- Refer to the developmental process in the management of manufacturing and chain production.
- Main focus that contributing to the change.

IR1.0

- Transfer between muscle power to mechanical power.
- Use of steam-powered engines and water as a source of power.

IR2.0

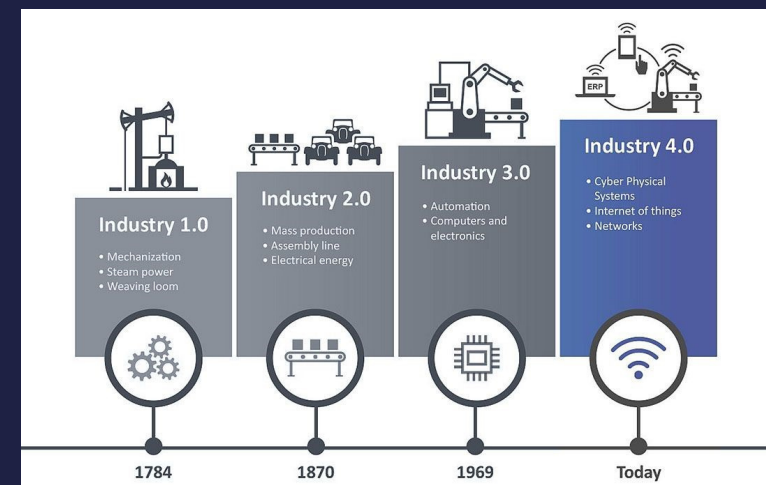
- Birth of electricity.
- Introduced pre-existing systems such as telegraphs and railroads into industries.
- Era in which mass production of goods and materials develop the factories in World.



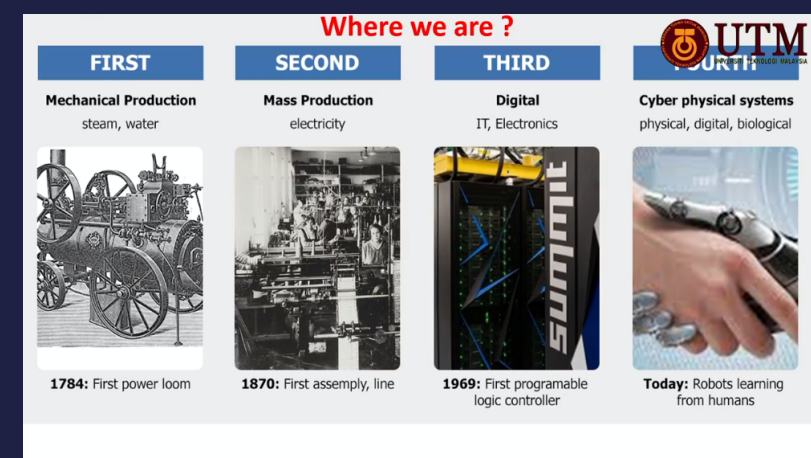
Trends(<https://www.startus-insights.com/innovators-guide/top-10-industry-4-0-trends-innovations-2020-beyond/>)

- Artificial Intelligence
- predictive maintenance, cognitive computing, swarm intelligence, context-aware computing, smart machines, hardware accelerators, and generative design
- Human Augmentation & Extended Reality
- Edge, Fog and Cloud Computing

- Network and Connectivity
- Advanced Robotics
- Internet of Everything
- Big Data and Analytics
- 3D Printing
- Security, Transparency and Privacy
- Digital Twin



<https://www.btelligent.com/en/portfolio/industry-40/>



IR3.0

- Era of computing.
- The change from analog and mechanical systems to digital ones.
- Called digital revolution(Computer & IT become the key).

IR4.0

- Birth of artificial intelligence.

FUTURE WORKFOCE IN IR4.0



How to Develop the IR4.0?

Government

1. Innovation for sustainable development and job creation.
2. Update regulatory frameworks for the platform age.

Student

- 1.Practice is the only criterion to test the truth, and the development of science and technology is constantly summarized, updated and innovated through the practice of science and technology.

How technology can help in human life?

With the progress of technology, the business environment has been greatly improved. We know that in the past there was too much work that required a lot of workers and time, but now it is done by a machine.

Another of the most effective and huge impacts of technology is on our communication. More and more chat rooms, discussion rooms, online databases and web pages are proving modern technology.



Based on industrial talk

https://m.facebook.com/watch/live/?v=197172358538587&ref=watch_permalink&_rdr