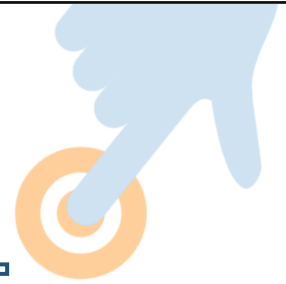


INDUSTRIAL 4.0

PAST PRESENT FUTURE



Executive summary:

- The revolution of industry
- The component of IR 4.0
- Role of IR 4.0 in daily lives

➤ REVOLUTION OF INDUSTRY <➤

17th-18th century

1

Conversion from
muscle power to
mechanical power

Impact of
electricity to
the world

2

Mass
production of
goods and
materials

Era of computing

3

Digital revolution



The birth of **Artificial Intelligence**

4



Commerce 4.0

- Change shopping mode from physical store to e-commerce
- The seller able to study our shopping pattern

Vehicle 4.0 (Connected Car)

- Connect to cloud
- Do not need to drive on our own



Smart home or connected home

- All the devices are connected to internet

Service application

- Save our time
- Exp: Foodpanda, Amazon, Grab



Components of IR 4.0



Autonomous Robot
(do not require human control)



Cloud Computing
(Public, private, hybrid)



Big data and analytics
(Large unstructured data => analytic engine => decision)



Cybersecurity



Simulation

Internet of things
(sensor connected to internet)



Augmented reality
(simple application to provide more information)



Additive manufacturing



System integration



REFLECTION

Throughout this informational talk, we understand the importance of industrial revolution from 1.0 until 4.0. The changing from using only steam and waterpower until the birth of artificial intelligence is a huge achievement in human history. In industrial 4.0, many tasks of human are done by using autonomous robot. This reduces the heavy burden of human and let us can more focus in certain task. We should appreciate what we have now and learn from time to time to change our future.