INDUSTRIAL 4.0 : PAST, PRESENT, FUTURE

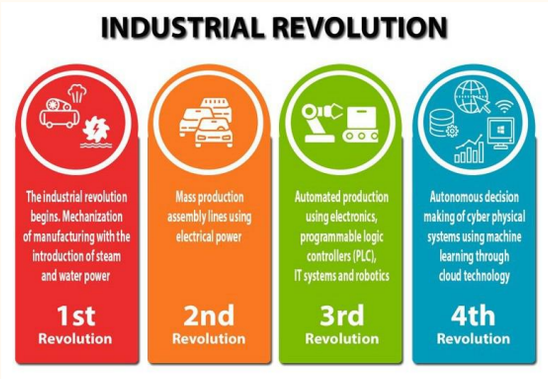
EXECUTIVE SUMMARY

An industrial poster about the "4IR Past Present Future" Industrial talk. This poster regarding the 1st, 2nd, and 3rd industrial revolution. There will be a further explanation of today's 4.0 IR and the future of 4.0 IR, also the description of Telekom Malaysia and the reflection of each member.

INTRODUCTION

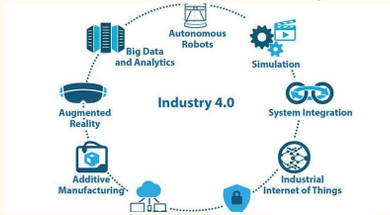
The industrial talk "4IR Past Present Future" was online using the cisco Webex platform on the 24th of November 2020 from 10:00 AM to 12:00 PM. The speaker of the industrial talk was Mr.Redzuan Shah Bin Yussoff. The speech was mainly about the "4.0 Industrial Revolution" which are 4.0 IR technologies in the present such as autonomous robots and cloud computing and what could be in the future. For example, Smart Home and Smart City. He also talked about the 1.0, 2.0, and 3.0 industrial revolution of the past briefly, as an introduction.

INDUSTRIAL REVOLUTION



4.0 INDUSTRIAL REVOLUTION

The component of industry 4.0:



1. Autonomous robot:

Robots that can make their own decisions and perform an action accordingly without human control and it equipped with sensors, cameras, microphones, scanners, spectrometer and be programmed with artificial intelligence.

2. Cloud computing :

The distribution of various services including data storage, servers and databases through the internet such as Google Drive, Apple iCloud and Dropbox Business allows keeping files to a remote database.

3. Internet of Things (IoT) :

A system of interrelated physical devices with unique identifiers that connect to the internet and able to transmit data over a network without the need for contact between humans and humans or between humans and computer.

4. Augmented Reality (AR):

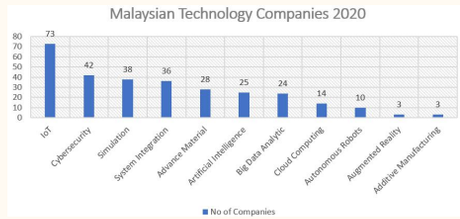
A technology that allows user to see the real-life environment in front with a digital augmentation overlaid on it such as Pokemon Go and IKEA Place.

5. Big Data Analytic

Big data will be analyzed for insights and help businesses to find the root causes of the company failure, evaluate sales patterns and determine fraudulent behavior and it use for health care, social media analysis, weather and other public sector.

Application of Industry 4.0: Jobs in The Future:

- E-commerce
- Education 4.0
- Smart home
- Smart car



TELEKOM MALAYSIA BERHAD

TM collaborates with developers to create a smart home for the community.TM also has project named TM 5G smart city solutions .The ecosystem of services for a safer, sustainable & enriching community which accelerating IR4.0. Another projects of TM are TM 5G Use Cases for Smart Tourism Langkawi, Smart Helmet and UNESCO 8K Virtual Reality.

Smart Helmet

UNESCO 8K Virtual Reality

REFLECTION

From the talk, I can see clearly that technology and innovation have passed the time really fast. A company need to innovate product to stay relevant in the competitive market.(Nurmazli Azlin binti Mohd Razali, A20EC0125). From my perspective, I realize that a business opportunity will enhance human life and creating a job for society like the foodpanda and grab. (Wong Pei San, A20EC0170). In my view, I hope that with the advancement of new technologies they could produce new and exciting jobs that can reduce bring values.(Jaudan Afzal, A20EC0308). In my view, revolution of technologies can create new innovation that make life easier and bring new jobs to the world.(Siti Hajar binti Muchtar, A20EC0149).

REFERENCE

- Fitzgerald, J. (n.d.). Using autonomous robots to drive supply chain innovation. Retrieved from Deloitte: https://www2.deloitte.com/us/en/pages/manufacturing/articles/autonomous-robots-supply-chain-innovation.html
- Frankenfield, J. (2020, July 28). Cloud Computing . Retrieved from Investopedia: https://www.investopedia.com/terms/c/cloud-computing.asp