INDUSTRIAL 4.0

PAST, PRESENT,FUTURE

AHMAD ZULFIKAR (19EC3003)
MUHAMMAD FARIS IBRAHIM (A19EC3012)
EMON MUKHLASUR RAHMAN (A19EC4036)
HAFIZ RIDWAN (A18CS9011)

24 NOVEMBER 2020

By :Redzuan Shah bin Yussoff

INDUSTRIAL TALK 1

"Industrial 4.0: Past, Present, Future." was the title used for an industrial talk we attend on 24th November, specifically on 10 - 12 AM. The industrial talk was held by UTM Digital via webex online conference and can still be accessed on demand on UTM Digital's facebook page because the talk was also broadcasted and saved there. The main speaker for our talk was Redzuan Shah bin Yussoff, a Director in Southern Strategic Economic Region Departement for Telekom Malaysia while the talk was moderated by Nik Kamal Izuddin bin Nik Ibrahim.

INDUSTRIAL 4.0

WHAT IS IT??

The Industry 4.0 is a new industrial model that characterizes the Fourth Industrial Revolution. This advanced manufacturing model is represented by intelligent, virtual, and digital performance in large-scale industries and emerges as a disruption to the three industrial revolutions that occurred before it. The new industrial model itself includes a factory-wide integrated structure and potential technologies in various areas of industry activity, and these technologies are intrinsic to Industry 4.0 design principles, which are also responsible for ensuring the innovative performance of this new industry. With this explanatory context, the objective of this paper is to present what is really Industry 4.0, its origin, as well as its main characteristics

companies usually follow a pattern, they take data, make analytics, then they can take decisions. The scope of data gathered is larger than it has ever been 10 - 20 years ago. They also use connectivity as their main selling point, making their products accessible to everyone who has internet access

Industrial revolution 4.0

Points of Discussion

As students, we are curious to see where this talk will bring us since this talk will likely affect our future as the industrial revolution 4.0 comes ever sooner. The talk started out with history like what industrial revolution means and what revolutions have already passed. He then showed us examples of which new technology would be our new normal such as autonomous robots, cloud computing, Internet of Things, and Augmented Reality (AR).

He also showed us how companies can join in the revolution by utilizing BIG DATA and analytics, such as the one implemented in online shops, electric self-driving cars, online taxis. There are so much that we learn from this talk, he also talked about jobs in the future that are beyond imaginations.

In the last part of his talk, he explains to us how the back-end of a Industrial 4.0 system would look like by showing us the inner workings of Telekom Malaysia in making it come true for malaysia. He even sneak peeked a bright future with a smart city project that might come from Them

EXECUTIVE SUMMARY & REFLECTION

"The First Industrial Revolution began in the 18th century through the use of steam power and mechanisation of production. The Second Industrial Revolution began in the 19th century through the discovery of electricity and assembly line production. The Third Industrial Revolution began in the '70s in the 20th century through partial automation using memory-programmable controls and computers. This is characterised by the application of information and communication technologies to industry and is also known as "Industry 4.0". This is the next step in production automation."

AHMAD ZULFIKAR (A19EC3003) : "The Industrial Revolution 4.0 applies the concept of automation carried out by machines without requiring human labor in its application. I hope by the development of this indutrial revolution i hope opportunities for efficiency and productivity that will open up new markets and economic growth at the process for doing the industrial talk report as expected and said smoothly, and i happy because the guest star was really amazing that make me still enthusiastic for participate in any industrial talk"

MUHAMMAD FARIS IBRAHIM (A19EC3012) : "I like the event as it opens up new insight for a phenomenon that is growing rapidly within the industry, we as students need to be aware of this revolution because the workforce when we graduate will likely be determined to this revolution"

EMON MUKHLASUR RAHMAN (A19EC4036) : "I really lucky can be participated in this industrial talk because it's make me more know about challanges that must we face in the industrial environtment"

HAFIZ RIDWAN (A18CS9011) : The Industrial Revolution 4.0 represents the growing trend towards automation and data structure in technology and works within the manufacturing industry like smart manufacturing, smart factories, cloud computing, cognitive computing, wireless connectivity, and artificial intelligence. All of these industries could give us cutting-edge technology and interventions in the future. Wireless connectivity and the augmentation of machines will be greatly advanced with the full roll-out of 5G. This will provide faster response times, allowing for near real-time communication between systems.