INDUSTRIAL 4.0: PAST. PRESENT, FUTURE

EXECUTIVE SUMMARY

- mainly about artificial intelligence.
- · consists of totally 9 pillars.
- The speaker of industry talk, Mr Redzuan have emphasised in 5 main characteristics of 4IR
- he also mentioned that 5G is a prominent key factor to boost the development of 4IR.
- · 4IR is happening now and will bring better transformation to the future.

ROBOTS

AUGMENTED REALITY (AR)

A U T O N O M O U S MAIN CHARACTERS

BIG DATA ANALYTICS

4IR

CLOUD COMPUTING

INTERNET

OF THINGS

(IOT)

INTRODUCTION

FIRST INDUSTRIAL REVOLUTION

• Steam engine train



SECOND INDUSTRIAL REVOLUTION

- Mass production using electricity Factory

THIRD INDUSTRIAL REVOLUTION

- Era of automate production
- Digital and computing

FOURTH INDUSTRIAL REVOLUTION

- All the elements of previous industrial revolution come together
- Artificial Intelligence (AI) mechanism

Autonomous Robots

- Perform task by themselves
- · Laser scanners, camera, microphones, force-torque and spectrometers
- Reduce errors
- Improve cycle times
- · Used in spaceflight, household maintenance and other services

FedEx.

- Application-based software infrastructure
- iCloud, Google Cloud,
- storage, database and a full range of

great development in invisible

analytics, artificial intelligence, virtual

reality, video consumption, 3D printing,

drones, wearables and much more

Internet of Things (IoT)

· Google Home, Samsung SmartThings, and Philips Hue incorporates internet into real life



- or audio in real-time
- Pokémon Go
- Tourism Application



- Learning by digital
- WebEx, Google Meet and Zoom



Service Apps

- Better transformation to the humanity
- · Uber, Grab, Foodpanda, Google, Amazon and Aerodyne
- Convenience



Commerce 4.0

• e-commerce

-uture of Work

- · collecting user's
- shopping paterns
- Shoppee and Lazada



lectric Car Industry



Smart Home

- Turns house into an intelligent machine
- Allow user to control

their lights, CCTV, electrical appliances and kitchen appliances using your phones through an internet connection

Tuya and Agara



Enabling Digital Malaysia

- Smart Tourism and Smart Agriculture
- TM 5G Smart City Solutions
- accelerate the 4.0 IR

REFLECTIONS

WHAT WE GAIN

THE TALK? FROM



1. The 4.0 IR is mainly about artificial intelligence and consists of totally 9 pillars.

- 2. 4.0 IR is very important information that we ought to know and adapt to it.
- 3. Despite 4IR absolutely brings numerous conveniences to us, we believe that it will also produce troubles. Thus, it will enable us to do cogitation about every creation that we want to make analytically and holistically before we launch it to minimize the consequence
- toward human and also environment. 4. 5G Digital Malaysia is the agenda brought by TM Malaysia in order to bring a bright future for Malaysia.
- 5. We probably will work in collaboration with robots and the robots might able to have the ability to think itself just like humans.
- 6. It seems illogical but the technological revolution will basically make all impossible things to become possible.
- 7. As a computing student, we will be very honored if we have a chance to contribute our efforts in the 4.0 IR.