INDUSTRIAL 4.0
PAST, PRESENT, FUTURE

INTRODUCTION

Date: 24th of November
Speaker : Redzuan Shah Bin Yussoff
(Director of Telekom Malaysia in the Southern Strategic Economic Region)

- Upcoming era of digital transformation, IR 4.0
- New industry 4.0 technologies undergone high-speed development
- Some of these technologies are commercially available and can help link to an achievement
- Not a simple thing because it consists of many technologies and a variety of contexts
- Industrial 1.0, 2.0, and 3.0
- Understand the past, appreciate the present and how it will change our lives in the future

REFLECTION

Through this industrial talk, we were able to understand better about the different kinds of Industrial Revolution, from IR 1.0, up to the present which is IR 4.0. By understanding the different generations of IR, we could understand the past in depth and let us appreciate the present even more. We were also given the opportunity to learn about the 5G data usage here in Malaysia. In our country, there are two Tier III Data Centres, located in Selangor and Johor. With 5G data usage, faster and more efficient internet connection will be benefit from it.

The internet has become a necessity for people in this new normal. Thus, TM provided 5G Data usage for 2 Quarantine Centres during MCO. The usage of mobile data also has increased by 22% during MCO, as well as cloud services by 51%. This shows that we must opt for better options such as 5G, so we can work and study more efficiently.

Other than that, the future jobs mentioned in this industrial talk includes 3D printing technician, urban agriculturist, ethical hackers, infographic designers, and plenty others. As we are aiming for a more innovative future, the jobs awaiting surely require a higher level of abilities. Hence, we as students should grasp this opportunity to do well in our studies in order to strive for the betterment of our country in hopes that we will reach the international standards.

SUMMARY

In short, Malaysia is increasingly focused on and developing IR 4.0 technology, product, and solution. This scenario offers more significant employment opportunities in these emerging industries. Therefore, IR 4.0 technology will improve our standard of living and facilitate all of our lives in the future. We hope that Malaysia is moving in the right direction and is more internationally competitive.

CONTENT

Learn about the past to appreciate the present in order to change our lives in the future

IR 1.0 Mechanical Production
Manual power → mechanical power

IR 2.0 Mass Production
Emergence of factories

IR 3.0 Digital Evolution
Era of Computing

IR 4.0 Birth of Artificial Intelligence (AI)

Autonomous Robots	Simulation	System Integration
Industrial Internet of Things	Cybersecurity	Cloud
Industrial Internet of Things	Additive Manufacturing	Big Data and Analytics

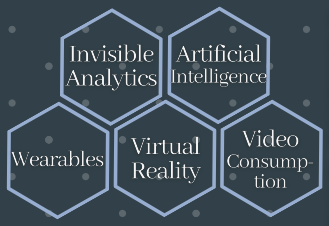
TRENDS

Education 4.0
Virtual Reality (VR) Usage

Commerce 4.0
Amazon, Shopee, Lazada

Autonomous
Tesla, Smart Home

THE FUTURE



In 2020, 73 Malaysian Technology Companies have implemented the Internet of Things (IoT) in their works, while Augmented Reality and Additive Manufacturing have been implemented in 3 companies each.

PAST JOBS
PRESENT JOBS
FUTURE JOBS

- Computer Operator
- Typist
- Blogger
- Mobile app designer
- Ethical hacker
- Infographic designer

5G IN MALAYSIA

- Not compulsory
  Helps in accelerating IR 4.0
- Main component : fibre → JENDELA focused on fibre roll-out throughout the nations
- Nearest roll-out is 2022
- Target on sustainable and enriching community
  → Smart city
  → Smart tourism
  → Smart agriculture