

SECP 1513 - Sec 07

# TECHNOLOGY AND INFORMATION SYSTEM **ASSIGNMENT:**

ASSIGNMENT 1, POSTERS ON:
4th IR, Industry Talk 1 and Industry Talk 2
GROUP 6

LECTURER: Hairudin Bin Abdul Majid

**DUE DATE**: 13/11/2021

**Group leaders contact number**: 016-5653191

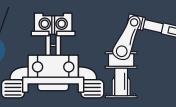
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CONTENT	PAGE
1. POSTER ON 4th INDUSTRY REVOLUTION	1
2. POSTER ON INDUSTRY TALK 1 BY TM	2
3. POSTER ON INDUSTRY TALK 2 BY CYBERSECURITY	3
4. REFERENCE	4

# DOUGTRIAL 4.0

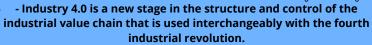
#### **MOVING FORWAR** TO A BETTER FUTURE







# Introduction



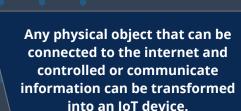
- Manufacturers are incorporating new technology into their manufacturing facilities and processes, such as the Internet of Things (IoT), cloud computing and analytics, and AI and machine learning.
- In the 4th industrial revolution, artificial intelligence was born.
- Advanced sensors, embedded software, and robots are used in these smart factories to gather and analyze data, allowing for better decision-making.



- According to the 1st talk, the key components of industry 4.0, such as cloud computing, manufacturing, e-commerce, autonomous robots, the internet of things, and data systems, were already in place. These components have the potential to make our technology more effective and efficient.
- As a result, global players such as TM Telekom and others Telekom are positioned today. They have formed partnerships and are working on Industry 4.0 solutions while also producing demonstrations. It allows us to do a lot of things and not squander our time.
- We do not hesitate to follow the lead of industry 4.0, as this period presents us with numerous potential to improve and expand our country's technological capabilities.
- The talk also taught us to look at our surroundings. Are we still using a manual process like writing on paper? Or are we have using technologies efficiently in our daily life?
- Therefore, to qualify for technologically sophisticated workplaces, we, as consumers, must become used to these technologies especially in the Internet of Things in everyday life.



The Internet of Things (IoT) is a system of interrelated and internetconnected objects that can gather and transmit data without the need for human interaction across a wireless network.













### INTERNET OF THINGS **APPLICATIONS**

Smart Home, Wearables, Smart Cities, Connected car

### INTERNET OF THINGS **DEVICES & EXAMPLES**



BIN JURIMI A21EC0095







## 1st Industrial Talk **TECHNOLOGY INFORMATION SYSTEM**



## & 4TH INDUSTRIAL REVOLUTION



In summary, 4th IR is really important to thrive our nation to modernity. **Industrial Revolution has gone** through four phases, and nowadays it is focusing on cyber physical systems, networks, IoT and all aspects of human's life. TM served the nation since 1946 and supported the revolution of 4th IR in Malaysia. TM has contributed a lot to our nation, by driving the Digital Nation agenda for Malaysia. TM also supports government initiative and protects the nation's infrastructure from any intrusion.

REFLECTION

From the industrial talk, we learned and

realized that 4th IR is really vital for the

improvement of human's life, future of

work and business. Therefore, we as the

future leaders of this nation, should be

motivated and learn about what are the

possibilities and benefits that 4th IR

brings and take advantages of this phase

of time where everything in life is going

efficient and autonomous. Through 4th

IR, we should also appreciate the current

technology as its benefits which are

helping us making our country

technological advanced and bringing our

country becoming a modern country also

having the ability to compete with other countries. Therefore, students and graduates must prep up their skills and knowledge on applying technology into daily life from now in order to be qualified into technologically advanced workplaces.







### Speaker: Mr. Nazri Edham

Head of Product Design, TM Commercial Date: 1st November 2021 Time: 3pm - 4.30pm

### INTRODUCTION



The speaker mentioned that the lifestyle might change in couple years later as everything is going autonomous and efficient after the 4th IR. Nowadays, TM **Commercial is targeting to connect** Malaysian everywhere, inclusively, with enriched digital lifestyle and empowering and creating values businesses digital possibilities.





## CONTENT OF TALK 🤧



#### TM journey to support 4th IR



Data centres Cloud services



### Cloud/Digital

Outcome - innovative business model etc.

Adoption areas with 4th IR:

Digitalization of services

#### **Smart Cities**



Allow a city to adapt and respond



5G

Next generation of mobile network evolution

#### TM drive the Digital Nation • agenda for Malaysia

- Connecting Malaysians
- Empowering and creating values businesses digital possibilities
- Supporting government initiatives











The improvement of 4th IR will help to create a lot more opportunities, potentials and jobs.



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## **2nd INDUSTRIAL TALK**



## TECHNOLOGY INFORMATION SYSTEM **6** 4TH INDUSTRIAL REVOLUTION



Speaker: Ms. Sarah Khadijah Taylor

Strategic & Project Manager Digital Forensics Department Date: 2nd November 2021 Time: 3pm - 4.30pm



- The talk was from Ms Sarah, a representative of CyberSecurity Malaysia, an agency under KKMM, to secure nation's cyber space
- -Industry 4.0 is an infusion of automation to the manufacturing sectors which enhances efficiency.
- The shift in the global economy, the rate of technology advancement, the increasing complexity of the global supply chain, the competitiveness of nations, the increased regulations, and the emergence of new products move us towards industry 4.0



## Reflection

- This talk motivates us to gain more awareness towards the importance of IR 4.0 and how we need to approach the transformation to its technologies just like how the development of AI can shift us from manual labor to automation
- As an example, IR4.0 has created many new automation industries such as transportation and surgeries being done by robots.
- Also, the development of simulations in manufacturing will ease the process of making more complex and flawless products.

## EXECUTIVE SUMMAK

- The geographies and global value of production is changing allowing Malaysia to have new opportunities to transform itself to IR 4.0.
- The new technology that improves product quality is becoming normal requiring Malaysia manufacturing firms to adopt these technologies to stay competitive.
- The enablers for the transformation to industry 4.0 are:

The funding to start private investments, the infrastructure to secure industry 4.0 operations, including SMEs to power a step-in labor productivity, upskilling the labors, the collaborative platforms to foster the development and access to cost effective technologies

- Cybersecurity Malaysia is determined to create high skilled knowledge workers, to develop guidelines that are accepted by the international standards, to setup labs to create and test products

# CONTENT OF TALK

Transformation to IR 4.0 issues:

- Advance digitalization
- Advanced technologies
- - Efficient resource



- Demand for customization to local products





- Attract stakeholder
  - Create the right









- Limited cooperation and etc.



### WAY FORWARD

#### Vision

- To become a strategic partner for smart manufacturing in Asia pacific. - To become a primary destination for high tech industry and to become a solution provider for advanced technology

#### Goal

-To increase labor productivity growth, to offer high skilled jobs and to increase innovation capacity



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#### **REFERENCE**

Meola, A. (2021, January 28<sup>th</sup>). A look at examples of IoT devices and their business applications in 2021. Retrieved from https://www.businessinsider.com/internet-of-things-devices-examples

What is IoT? Defining the Internet of Things (IoT). (n.d.). Retrieved from https://www.aeris.com/in/what-is-iot/

TM Logos. (n.d). Retrieved from www.tm.com.my

Cybersecurity Malaysia Logo. (n.d.). www.cybersecurity.my

UTM Logo. (n.d.). brand.utm.my/use-of-logo/