

# Internet of things(IoT)

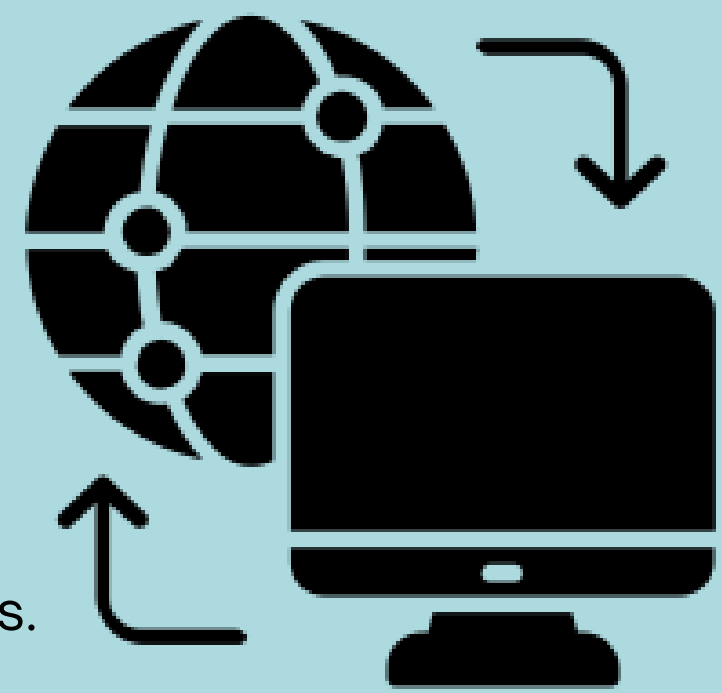
## GROUP 5 (SECP1513)

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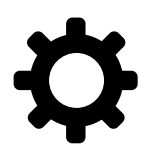
## INTRODUCTION

The concept of Internet of things or IoT can be trace back to 1990 when John Rowkey create a toaster that can be controlled via the use of the internet and in 2005 the concept of IoT hit the next level with the creation of Nabaztag a device capable to access the internet to complete multiple tasks. Finally, in 2008 the concept of IoT has been properly established with the introduction of smartphones. (Postscapes,2019)



## DESCRIPTION

Internet of things or IoT can be described as devices capable of connecting to the internet and other devices via the use of embedded sensors, software, and other technology without human involvement.



## EXAMPLE OF INTERNET OF THINGS (IOT)

- Smart Phone-Smart phone can be said as the pinnacle of IoT because of its capability to complete the task of multiple devices and can connect with other smart devices as long it has internet access.
- Smart Car-The automobile industry has been integrated with IoT technology as cars are now capable to connect to the internet and bring convenience to the driver with better safety and comfort.
- Fitness Tracker-Generation today can monitor their health more easily as these wearable trackers can track the user-health condition smoothly and some even update the patient condition to their doctor .



## REFLECTION

From this chosen topic "Internet of things", It helps us understand how massively IoT contribute to the progress of technology in today society as this technology bring the true meaning of connectivity. IoT has brought humans better efficiency to their lifestyle. Nowadays, people can do their jobs anywhere as long as the availability of the internet as all the things are connected on the internet. People will also do their house chores much faster because of the various home devices that implement IoT technology that is connected to their phones. To conclude, IoT has truly brought a new era of advancement to modern society with the never-ending IoT devices emerging every year to satiate the demand of the new generation's lifestyle.



## INTRODUCTION



The Fourth Industrial Revolution (4th IR) has already begun, changing the way we work to make it faster and more optimized with the use of technology. There are 11 enabling technologies that enable the existence of the 4th IR.



## EXECUTIVE SUMMARY

This poster is about 4th Industrial Revolution (4th IR) that has been shared in the industrial talk which took place on 1st November 2021. This talk was delivered by Mr. Nazmi Edham, Head of Product Design of TM Commercial. This Industrial talk is a part of Technology & Information System Subject (SECP1513). This industrial talk highlights more about the adaptation areas within 4th IR. Many important elements such as 11 use cases has been introduced to us. Apart from that, the speaker also explains about the services provided by TM and what are the upgrades that has been done in the services that they provide during this 4th IR.

## REFLECTION



We learned about the importance of the 4th IR in our lives. Without technological transformation, we will never find the best way to make our lives better either at home or at work. The 4th IR technology helps humans to do the job accurately in a short time with limited effort. Therefore, by knowing the importance and advantages of 4th IR in improving our lives, we can take more action in applying 4th IR technology in our daily activities. We also learn to value our current technology by leveraging it and it also prepares us to adapt to new technologies in the future as technology changes faster.

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# TECHNOLOGY INFORMATION SYSTEM & 4TH INDUSTRIAL REVOLUTION



## CLOUD / DIGITAL

- Provide various of digitalization services such as gaming and education services to benefits many consumers
- Digital infrastructure and foundation is important to build a successful digital transformation
- Digital Insight (product, business or customer analytics) is important in shaping the engagements
  - We are able to build the transformation by aggregating the supply chain or businesses through serving the partners and customers
- 4th IR - Increasing execution performance with mobile and connected workforce

## SMART CITY



- Smart services needs full commitment from local government and private enterprises in implementing smart city
- Vehicle services is a collaboration of multiple party or public-private partnership
- Existing services enhancement upgrades the existing service and refresh the maintenance contract
- 4th IR - Digital solution : Managing logistic performance and efficiency with smart fleet
  - Driving production volume and speed up sales transaction and managing overall manufacturing performance with smart manufacturing solutions
  - Smart water Integrated Management System (SWIMS)

## 5G



- The next generation of mobile network evolution
- An unifying connectivity fabric for society
- Much more superior technology as everything is being connected to it (e.g. video call, text messages)
- Opens up a wide range of use cases such as Enhanced Mobile Broadband (eMBB)
- Uses cases focus on job creation, talent development, safety and security such as smart agriculture and smart parking
- TM - Upgrade their customer interaction channel
  - Build twin core data centre to support the development of region



# Technology Information System and Fourth Industrial Revolution

by Ms Sarah Khadijah Taylor - Strategic & Project Manager Digital Forensic Department

## Introduction

- IR 4.0 is the infusion of automation in the manufacturing industry and constantly evolving
- How? - Advanced digitization, Advanced technologies and Efficient resource utilisation
- Why? - Enhanced efficiency

## Content of talk

- **Are Malaysia ready for future IR 4.0?**
- Yes ! Prediction shown that Malaysia has been prepared & comparable to the other high tech country like US, Germany, Japan and Korea.
- **3 Factors lead to future of manufacturing in Malaysia**
- Global value chains and geographies of production are continuing to shift
- quality of labour and higher productivity, but not low labour cost
- New technologies are disrupting and fostering a technology based model of production.



## Malaysia issues & Challenges

- Demand - (Awareness, Innovation, Digital Readiness & connectivity, Skill Enhancement, High cost of Investment, Best Practices)
- Supply - (Governance, Funding & Innovative, ecosystem Support, training Providers, Standards & Digital Integration, Infrastructure)

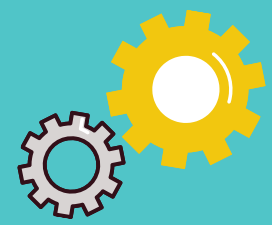
## Cybersecurity Malaysia committed to provide :

- People - upskilling, certification and job attachment program, awareness program
- Process - to develop process that is accepted by international standards, Develop process method, SOP and guidelines.
- Technology - to setup labs and test product, Product development & testing, pilot project



## summary

The future technology must develop all the 4th IR to maximize the efficiency of the technology revolution in this 21st century. There are so many challenges that our country needs to enable the technologies such as Malaysia must have the best practices by hiring professional guider to produce people who can lead in this field. The awareness in technologies, innovation, digital readiness & connectivity and skill enhancement are the demand of an organization in technology today. So, to bring Malaysia forward Cyber Security Malaysia has provided a way to hone someone's skills by creating knowledge among workers, developing the process that is accepted by international standards and many more to make sure they are ready enough to face the future challenge.



## Reflection

- ✓ As we can see today, technology has already been the most important thing that we must have especially when we go to work or even we are in school, we also need to use technology to help us in anything.
- ✓ We as Malaysians must take part in the development of technologies so that we will not be left behind in the field of computing , innovation of technology and information system with other countries.
- ✓ Since the future will depend on technology , so only people who have the basics of IT can make all necessities become a reality which they have to make the world better and make life easier by the use of technology.



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