

## INTERNET

## OF THINGS (IoT)

### WHAT IS IR4.0?

The ongoing automation in transforming industry using modern smart technology.

### WHAT IS IoT?

A network of physical objects that connect devices and exchange data to the Internet.

### HOW DOES IoT IMPLEMENTED?

In everyday use devices with sensors and processors; Smart homes, Wearables, RFID.

### HOW DOES IoT IMPACTS THE FUTURE?

IoT can improve efficiency and reduce waste in our daily lives by becoming specialised, personalised and intelligent to adapt with our demands.



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# INDUSTRIAL TALK 1

by 

## EXECUTIVE SUMMARY

TM acts as the catalyst in forming and enhancing the IR.40 in Malaysia. TM provides a wide range of services that are in line with the **Digital Nation** agenda for Malaysia. Thus, ensuring global connection from Malaysia to Worldwide.

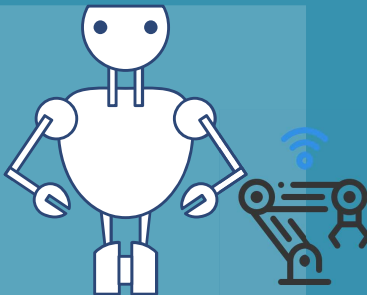
## INTRODUCTION

The Industry Revolution 4.0 is widely implemented in a lot of countries including Malaysia. It is the implementation of automations embedded with software and connectivity to increase efficiency. Telekom Malaysia (TM) is one of the company that takes an active approach to support the 4IR implementation in Malaysia.

### WHAT IS IR 4.0?

Implementation of technology embedded with software and connectivity to maximise efficiency

AI - Cloud Computing - Big data - IoT - Augmented reality



### TM SUPPORTS TOWARDS IR 4.0

By creating data centres that support cloud services used for IoT.

Moving towards Digital Malaysia

### DIGITAL MALAYSIA

- GOVERNMENT (Smart Water System)
- ECONOMY (Digital Payment)
- SOCIETY (5G connection)



### IR 4.0 Implementation During COVID -19

#### Education

- Online learning using Google Meet

#### Work

- Work virtually from home using Zoom

#### Healthcare

- Monitoring COVID-19 status through MySejahtera



### SMART CITY

City embedded with technology that can intuitively adapt to people's needs

Having multiple stage such as existing service enhancement, vertical services and smart city



### CLOUD DIGITAL

Digitalization of services

Offer services through digital platform to promote users a friendly, more efficient and innovative services.



### 5G CONNECTIVITY

Everything connected. People, Things, and City

Digital transformation which leads to digitalization of services in our daily lives



## REFLECTION

The implementation of IR 4.0 will contribute greatly to our country in the long run. Things like AI & cloud computing will definitely help to improve many aspects of our life such as the economy. Digitalization in business can help to analyze business trends, predict future trends accurately, and also help to cut cost efficiently.



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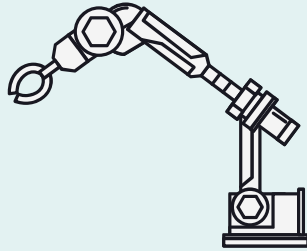
# Industry Revolution (IR 4.0) –Talk 2

*IR 4.0 is an evolution of production in manufacturing sectors. The use of intensive labor force in manufacturing sectors change into modern smart technology that enhance the rate of mass production.*

## Transformation Drivers.

Drive us to IR 4.0.

*Global Economic Order, Technology Advancement, Knowledge & Skills, Global Supply Chain, Competitiveness, Regulations, Customer Behavior.*



## Technologies Advancement.

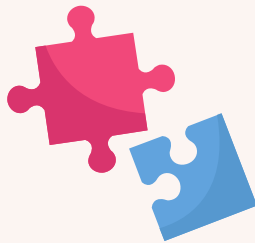
AI, Big Data Analytics, Augmented Reality, Internet of Things(IoT), Cybersecurity, Cloud Computing.



## Challenges

Malaysia need to satisfy the demand and supply the needs for IR4.0 in order to overcome the issues.

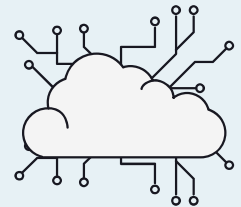
*Demand - Skill enhancement, Innovation, High Cost of Investment.  
Supply - Funding & Incentive, Training Providers, Infrastructure.*



## Future of Manufacturing.

3 factors that will affect the future of manufacturing in Malaysia.

*Geographic of production, Quality of Labor, Invest in New Technologies.*



## Vision

Set a sight for Malaysia's manufacturing sector for 10 years ahead.

*Strategic partner for smart manufacturing, primary destination for high-tech industry, total solutions provider for advanced technology.*



## CyberSecurity Malaysia

**Develop high-skilled workers:** providing upskilling program, giving certification and job-attachment program and provide awareness program.

**Create process strategy:** SOP and guidelines.

**Product development in setup labs:** Product testing, pilot project



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