

# Introduction

From the talk by Mr. Nazri Edham on 01/11/21, we have been introduced to the 4.0 Industrial Revolution. Mr. Nazri has mentioned the CPS is the core basis of the IR4.0. At first, the idea which not rare in our life nowadays was presented to build a better manufacturing environment. There are ten significant components of Industry 4.0: Data capture & analysis, SaaS, Platforms, Artificial intelligence, Advanced robotics, Sophisticated sensors, Smartphones, Cloud computing, Augmented reality, and The Internet of Things. Besides, the speaker also introduce how TM Commercial strives to support the IR4.0 in Malaysia, the functionality of the IR4.0 to perform smart city and the use cases of 5G Digital Malaysia.

## Smart Cities

- Framework of technology that develops for the needs of citizen.
- Managing logistic performance and efficiency with Smart Fleet
- >Real-time tracking provided
- > more optimized resources can be deployed
- Driving production and speed up sales transactions and managing overall manufacturing performance with Smart Manufacturing Solutions
- Smart Water Integrated Management System (SWIMS)
- > We are losing billions of waters due to wastage, stolen, pipe leakage
- >SWIMS increases the visibility of the water usage and reduces the water wastage

## Way Forward

- Development of 4IR will increase the living standards of human life.
- More job opportunities and better treatment will be provided in relevant field.
- The operation in a variety of field like manufacturing be more efficient.
- Lesser waste of resources

## Executive Summary

In short, I4.0 and IR4.0 is the critical element in development of technology. The mentionable adoption areas within IR4.0 are Cloud/Digital, Smart Cities, and 5G network. These efforts will result in more efficient operation and processes for reducing resources wastage, providing better customer experience, real-time tracking progress, and more job opportunities. Lastly, 5G networks enabled the devices of IR4.0 to fully apply to our daily lives. People nowadays are striving hard for the evolution of IR4.0 for improve our life more intelligent.

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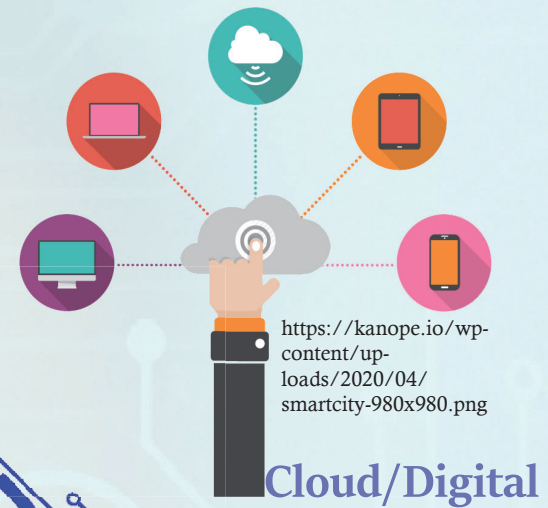
# Industry Talk 1 (by TM)

## 5G

- Mobile network evolution of the succeeding generations
- Enabling more technology and devices of 4IR
- Scope and parameters of 5G (Enhanced Mobile Broadband (EMB), Massive Machine Type Communications (MMTC), Ultra Reliable and Low Latency Communications (URLLC))
- The difference between 5G and 4G in different perspectives
- 11 use cases of 5G Digital Malaysia (Smart Retail Analytics, Smart Water System, Smart Vehicle System, Smart Helmet, Geolocation Safety App, Smart Agriculture, Smart Safety and Security, Smart Traffic light, Smart Parking, Smart tourism app, UNESCO 8K virtual reality)

Based on this talk, we discover that the innovation of smart cities helps humans in various aspects including Smart Fleet that providing real-time track the operation of the logistics, current water systems is replaced by the SWIMS that able to reduce water wastage and Smart Services which is designed and developed based on the citizen's needs. Finally, it showed the importance of the innovation of smart cities that could impact our daily lives. We should always work hard together to support and develop IR4.0.

# Reflection



- Digitalisation of Service
- Television services digitally, such as Netflix, Amazon Prime, and Apple TV.
- Payment services digitally such as Samsung Pay and PayPal
- >The customer's experience will become better based on the variety of services provided.
- >Operation of the organisation will be more efficient.
- >Innovation of the business model (Shopee and Lazada)
- >Strong digital infrastructure foundation required
- >Increasing execution performance with mobile and connected workforce