UTM — UNIVERSITI TEKNOLOGI MALAYSIA

4IR

- Software as a servies (SAAS)
- Data capture & analytics
- plaforms
- The internet of things
- Artifical Intelligence
- Augmented reality
- Cloud computing

Introduction

Industry 4.0 is majority on manufacturing while 4 industrial revolution is more focusing in all aspect of human life
Due to covid-19 pandemic, it has increase the speed of human to get used on internet.

Summary

4IR has adopt certain vital areas in our daily life.
1. Digital & cloud
2. Smart City
3. 5G
This minor sector has turn our personal lifestyle into a whole new level.

Smart City

Smart city is a technology to intuitively adapt and respond to the need of the citizen

4IR not only managing logistic performance & efficiency with Smart fleet

It also Driving the Production & speed up the Sales Transaction and Managing overall manufacturing Performance with Smart Manufacturing Solutions

It could Suggest on new potential Areas or Distribution Channels to increase Sales Volume.

Digital Framework

CONSUMERS ← PLATFORM → PRODUCERS

A business model that creates value by facilitating exchanges between two or more interdependent groups, usually consumers and producers.
The purpose is to create a repeatable method or process when planning and guiding a digital transformation.

What is the outcome of this Transformation?
1. Innovative business model
2. Differential value proposition to beat competitor
3. Operationally efficient

5G is a unifying connectivity fabric for society and an extensive mobile ecosystem to new industries.

5G opens up a wide range of use cases

Enhanced Mobile broadband (eMBB)
This will help to develop today's mobile broadband use cases such as Virtual and augmented Reality, UltraHD or 360-degree streaming video and so on.
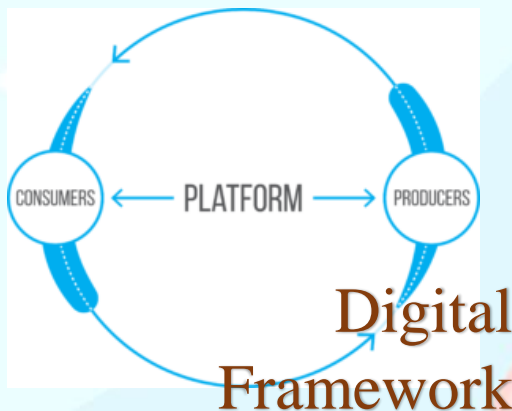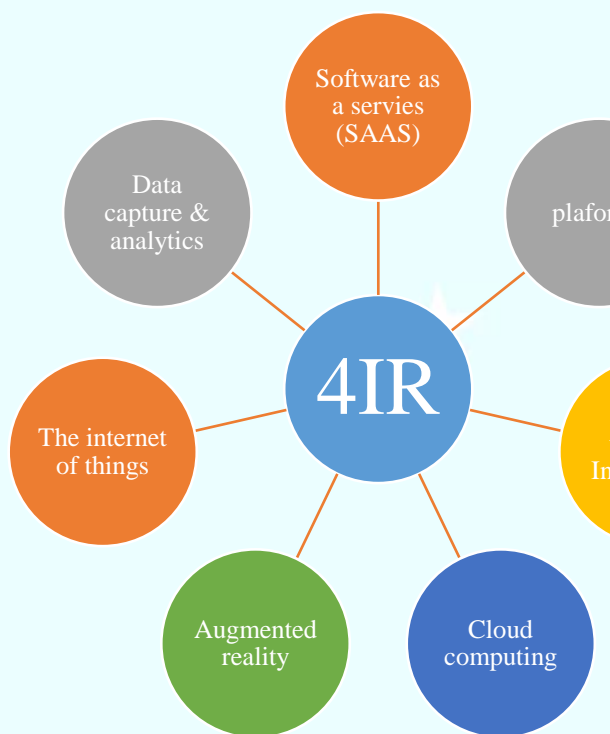
Massive Machine type communications (mMTC)
has been already developed as part of 3GPP Release 13/14 low power wide area (LPWA) technologies for example, Smart energy networks, Smart agriculture & smart retail

Ultra-reliable and low latency communications (uRLLC)
It require the 5G Core deployment for full end-2-end latency reduction which is highly unlikely in Autonomous monitoring & Smart manufacturing

The Evolution of 1G to 5G

1G	2G	3G	4G	5G
Analog Technology	Digital Technology	Wireless Capability	Phones Became Computers	Unparalleled Latency

Reflection

In this 4.0 Industrial Revolution talk, we know about the new generation will become more on 5G. Not only 5G, SMART city will also appear in our life in the next few years. We also know that Digital Framework is a trend in this era, because it has a win-win business model for consumers & producers. From this 4IR talk, I know that Internet has become something necessary for daily life. In the next few years, we are more on Internet and we need to get used to it.