



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SECP1513 – Section 07

Technology and Information System

**ASSIGNMENT: Posters on 4th IR, Industry Talk 1 by TM
and Industry Talk 2 by Cybersecurity Malaysia**

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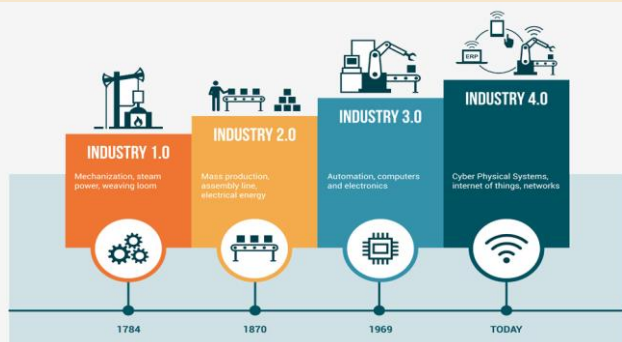
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Industry Revolution 4.0: 4th IR



Introduction

Technology is something we use in our everyday life. Who would have thought that we'd live in a world, where technology is transforming our societies, automating our jobs and businesses and completely changing the manufacturing industry? Self-driving cars, delivery drones and AI are just the beginning of a revolution. A revolution in the industry unlike anything seen, dubbed as the 4th Industrial Revolution (IR4.0). This revolution is said to create a world where physical and virtual devices would cooperate with each other in the most flexible way.

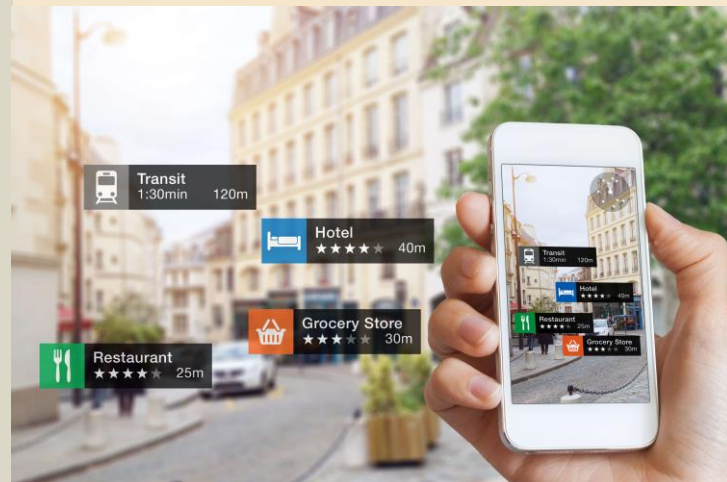


1 Augmented Reality

Imagine an experience, where what you see in the real world is virtually enhanced through the use of visual effects, sounds, videos, GPS overlays and haptic feedback. Then, there's Digital interactive elements appear on top of the real world you see every day. The term for this is called Augmented Reality. With the rise of data collection and analysis, one of the main objectives of augmented reality is to highlight the most important and specific features and facts of the world. Information at your fingertips!

2 Examples of AR

As stated before, AR enables the users to interact with digital objects and elements with real world environments! Imagine you are in a shopping mall and you can look up all the details, reviews and prices of a product. Or imagine look at something and all the essential information about it pops up on your sunglasses! These are just some of the examples of Augmented Reality.



3 Reflection

The IR4.0 Technologies are some of the leading-edge trends in the industry. Any why won't they be? Just one of them, called Augmented Reality can completely change our lifestyle, the way we study and the way we work. Altogether, We've learned about IR4.0, it's technologies, their importance and especially Augmented Reality. Things we never knew about. There is a wise saying,

"The true wisdom is in knowing you know nothing." - Socrates

The scopes and potential that AR can bring to the table is just revolutionary!



THE 4th INDUSTRIAL REVOLUTION

What is it?

The digital Malaysia TM is a comprehensive strategy to make life and work simpler for Malaysians as a linked nation, embracing connectivity (fiber and 5G), digital infrastructure (cloud and cybersecurity), along with digital skills and knowledge, and talents.

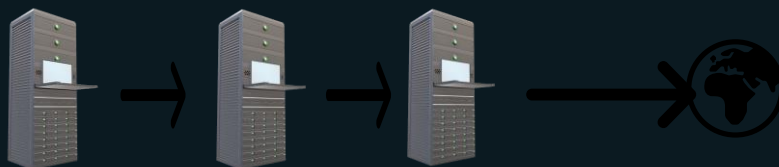


Where? And how many Data Centers?



They have many data centers and it's divided into two Tiers Tier II and Tier III. Tier II are Located in (Boustead, VADS, Cyberjaya 1, Cyberjaya 8, and Brickfields). As for the Tier III Data Centers there are only two which are (Iskandar Puteri Core Data Center, and Klang Valley Core Data center.

These data Centers have more than nine hundred thousand Km of Fiber-optic cable, more than 30 direct connectivity to 60 countries, over Ten thousand Wi-Fi hotspots and 9 data centers Including 2 world class ones that I mentioned above.



The 4th Industrial Revolution and its Evolution



The first one took place in 1784, it was basically water power and steam power. The Second made mass production possible by utilizing electric power. Electronics and information technologies were employed to automate manufacturing in the third. The 4ir is now building on the Third, the digital revolution, which began in the middle of the previous century.

After we attended the meeting, we now know more about "Digital Malaysia TM". Before the meeting we didn't know about the 4th industrial revolution, and most student now know more about it they are motivated to participate in this huge change of all the network same as we do. As Dr. Nazri said "it's not about the present of tech it's about how we inadapt that tech to support the needs of the business". Cause in the end we always need to evolve to improve the world.

Lately, new technologies have been dominating the manufacturing sector causing a rapid evolution. Leading to less intensive labour force and more reliability on robotics which makes manufacturing more efficient in terms of time and money.



INDUSTRY

4.0



The biggest factors that control IR4.0 transformation are the shift in the global economic order, the rate of technology advancement. Then comes other factors like producing skilled future work force, global supply chain, competitiveness, regulations and customer behavior. Technology advancement has technological drivers that enhance the production-based industries. For example, artificial intelligence is used in face recognition instead of hiring a security guard that watches the cameras all the time, big data has impacted the market by helping to predict the changes, augmented reality used in training pilots, and the many other enabling technologies.

So far, Malaysia has been doing pretty well according to the readiness for IR4.0 holding a position in the leading quadrant among the world with a strong production. In order to close the gap between Malaysia and other big countries, Malaysia needs to embrace global value chains of production, higher productivity and better quality of labour without lowering the labour's cost and finally adding new technologies to a technology-based model of production. Addressing the difficulties, MITI developed a policy called **A-C-T**. First **Attract** stakeholders. Second **Create** the right ecosystem. Third **Transform** industry capabilities. There are 4 frameworks 1- the vision for the next 10 years 2- the national goal to measure the progress 3- A group of shift factors that need to be optimized 4- specific enablers determine strategies, politics and plans.



Cybersecurity Malaysia is a national agency that their goal is to keep the cyberspace secure. This agency works for the government under the ministry of communication and multimedia. They have several services such as cybersafe which provides awareness to people. CyberGuru works on upskilling certifications and job attachment programs. MyCERT a team that manages incoming malware and future threats. CyberCSI known as digital forensics which investigate in crime scenes by collecting data and seek evidence then presenting it to the court.

After taking this deep look into IR4.0 and how much effort is put into it. We're looking forward to learning more about this industry evolution and get more familiar with it. Everyone should be aware of these global industrial changes. I'm pretty sure that all students are now motivated to be part of this huge shift that will make humans life easier and more efficient. Now we can see how Malaysia became one of the greatest manufacturing countries worldwide. The steps, process and obstacles are all shown and discussed in a way that students can absorb, since we are the future leaders. One last thing to mention, is the great advice Ms. Sarah gave us which is to start learning cybersecurity even if it is not your major because of its significance. Stop cyber security from being an afterthought !