Group Assignment 1

The 3 Posters

Group 1

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4TH INDUSTRIAL REVOLUTION:

Internet of Things

The internet of things is a system of devices, embedded with technologies like sensors, cameras, and motion \ sound detectors, connected wirelessly using the internet and Bluetooth for the purpose of collection, exchange and analyzing data.

Smart Parking

Security Systems

Smart Wearables

Smart Household Appliances

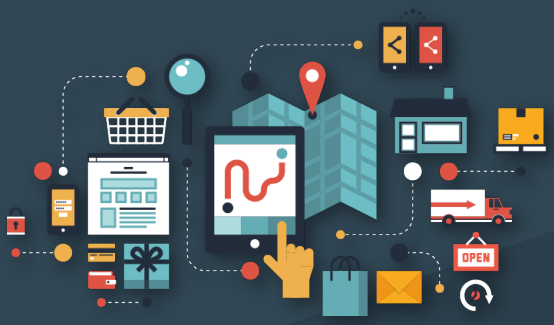
Agriculture Automation

Medical Equipment

Reflection and info.

Throughout the centuries, numerous inventions have emerged into the world that changed our ways of living drastically, and IOT one of the major ones. In my view, it has successfully contributed to our comfort and convenience, overall improving the quality of our lives. IOT can now be found in almost all homes, attracting more people every day, even the ones that are non-technologically inclined.

Personally, IOT has impacted my life by making it so much easier. I can work on my laptop, input some handwritten notes wirelessly using my tablet, and also get reminders about my next deadline on my smart watch. I can see that such a technology will help humans lead breakthrough discoveries in the near future.



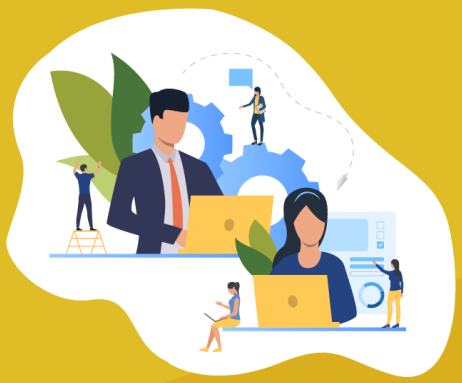
INTRODUCTION

Industry 4.0 is the interference of intelligent systems and automations in the world's industry, moved by data through Artificial Intelligence and Machine Learning.
The term of Industry 4.0 was found at Hannover Fair that was held on 4th-8th April 2011. Germany, as well, used this term during its march towards developing its industries, and integrating them with technology.

CHALLENGES FACING TM

Telekom Malaysia is the Malaysia's major telecommunications corporation. It goes back in history to the 20th century when the country's communication services were held by the British colonizers.

With the rapid changes in consumer behavior, fixed technologies will be replaced by new ones. TM has to reflect on how to meet new demands to provide better services. However, new technologies will bring new problems, and the original customers and businesses need to be migrated on a large scale.

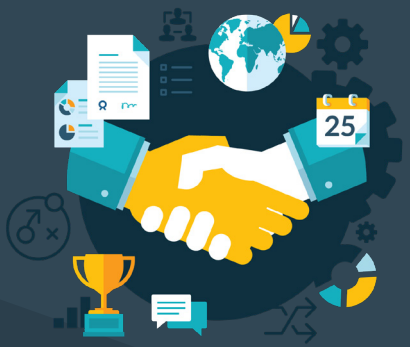


SUMMARY

The industrial revolution 4.0 will make most of decision work with computer, and connect all the data to the internet. With the combination of Internet Of Things (IoT), Cyber Physical System, and Information Systems. Therefore, humanity, and people of Malaysia, are on the brink of witnessing great revolutions in various life sectors, which carry their own advantages and challenges.

REFLECTION

Innovation of new technologies has to provide people with better services and experiences. Communications-wise, it would be such a ginormous improvement in our lives, and can reach to stages we've never imagined. However, we also need to adapt to more advanced technologies and enterprises to keep up with the arrival of the information age, since every new technology comes with more complex dilemmas, aside from the foreseen advantages.
We really hope that the upcoming age gets utilized towards the mankind's favor, and not get used in any way against it, in any time in the future.



INDUSTRY TALK 2 -AL FARABI MOHANI, ABDULKADER SARDINI, AWFAN ALFA VINANDRY, JUNHUI SHI, SONDOS MOUSTAFA

(SECP1513)

CYBERSECURITY MALAYSIA

"An agency under the umbrella of the Ministry of Communications and Multimedia."

Exists to help expand and create a more extensive foundation for the security of the nation's cyber space.

IR 4.0

With the proposed succession of the IR 4.0, Malaysia exists as a country that is far more ready for its advancement than other countries. Placing within the top 75%, Malaysia appears to be ready for the next stage of technology.

Through recent times, there has been a better garnering of development within the fields of manufacturing. Things varying from assistance from robotics and aid from manual labour, the evolution of the manufacturing section is rapidly improving.

THE FUTURE OF MANUFACTURING

1. Geographical Productions and Chains will require Malaysia to transform itself fast in order to adapt with other countries.

2. The productivity of labour within the past years has grown at a rate of 3%-4%, but the high-skilled labour has seen a point of standstill, which must be changed.

3. Undeniably, Malaysia must be ready to invest time and money towards the newer medias of technology that are understood to be far more efficient and powerful than current ones.

ISSUES AND RESOLUTION

"There always exists the idea of Supply and Demand, and this is no exception for Malaysia. It will be a key factor in the play of development."

Demand: Innovation, Awareness, Digital Connectivity, High Cost of Investment

Supply: Infrastructure, Ecosystem Support, Training Providers, Funding & Incentive

"WHAT IS CYBERSECURITY MALAYSIA DOING ABOUT THIS SITUATION?"

1. Creating a workforce that hones knowledgable workers.
2. Developing processes that can be accepted by institutions not just in Malaysia, but all across the world.
3. Putting forward labs that can be used to create, test, and operate products and projects

A FINAL REFLECTION

This industrial talk speaks upon one of the most vitals parts of technological advancements and how important it i understand the relevance of efficient technology. Everyday, technology grows faster and wider. Faster than many can adapt to. But that is exactly what is important and what needs to be performed my nations all across the world. The idea of adaptation is the real key behind being able to coexist with such high levels of technology. It is always technology that helps create an ease to our lives by making certain actions we must perform everyday easier. We do not see the need to send letters via post anymore when the accessibility of an email is extremely easy. Falling behind in the age of technology is a dangerous game to tread, which is why keeping up with it and performing sacrifices in order to stay afloat, is an important assignment humans must complete in order to innovate the way we live as humans.

Resources

https://asia.nikkei.com/Companies/Telekom-Malaysia-Bhd

https://www.ibm.com/blogs/internet-of-things/what-is-the-iot/

https://azure.microsoft.com/en-us/overview/internet-of-things-iot/what-is-the-internet-of-thing

https://kclpure.kcl.ac.uk/portal/files/97261726/PaG_6_2_Global_Cybersecurity_New_Directions_in_Theory_and_Methods.pdf

https://it-online.co.za/2019/07/24/4ir-and-the-cybersecurity-risks/

https://www.netscout.com/blog/cybersecurity-fourth-industrial-revolution-reducing-risk-times-rapid

https://www.foreignaffairs.com/articles/2015-12-12/fourth-industrial-revolution

https://www.techradar.com/news/what-is-industry-40-everything-you-need-to-know

https://www.weforum.org/focus/fourth-industrial-revolution

https://www.tm.com.my/Pages/Home.html

https://asia.nikkei.com/Companies/Telekom-Malaysia-Bhd

https://www.pngitem.com

https://www.pngegg.com

https://ivorypirate.blogspot.com/2021/07/industry-40-icon-png.html

https://www.istockphoto.com/illustrations/industrial-revolution

https://www.subpng.com/png-vqd6h0/download.html

https://www.pngitem.com/middle/hmhbmxT_vector-motion-graphics-png-transparent-png/

https://ivorypirate.blogspot.com/2021/07/industry-40-icon-png.html