

INTRODUCTION



PAST.PRESENT.FUTURE

Industry Revolution (IR) 4.0 is the Era of Intelligent. IR 4.0 spanning from mobile computing to cloud computing. It is a form of basic of Cyber-Physical System (CPS) which is Faster and more Intelligent Machine. 5 keys area are Big Data Analytics, Smart Factory, Cyber Physical System, Internet of Things and Interoperability. This industrial evolution has also open path for e-commerce and multiple future jobs.



SUMMARY

Industrial Revolution has bring a lot of changes in human life. The industry has revolved massively in the past century. Every stages from the first to the fourth has bring significant changes. Human now can finish their tasks faster and effortlessly. The impact of industrial revolution 4.0 is need to be adopt faster to ensure that the technologies that we are using right now is compatible with the current situations such as logistics and supply chain With IR 4.0 and the technologies that are being used. Other than that, technologies in machine learning which are more advanced, we actually can have a predictive maintenance. We can analyse and predict the problems that will occur in the future. This will prevent the machine from having a dysfunction in the future and it also will reduce the cost of machine maintenance. In a nutshell, IR 4.0 has bring a new life to humans and makes our life much easier.

INDUSTRIAL REVOLUTION 4.0

REFLECTION



From this talk, we have learned how far the industry have evolved from 1.0 to 4.0. We learned about all the key components of Industrial Revolution 4.0 (4IR). We also learned about the growth of e-commerce from physical shopping to online shopping. there are multiple future jobs and also jobs which will face extinction due to revolution of industries. Not only that, we also discover the future plans of Telekom Malaysia to improve the communication system and the infrastructures of TM. The development of technology has opened a path for more advanced machines and automations. As humans we have to support this revolution for a better quality Of life. We are moving towards a digital world and our contribution in this revolution is vital because the interaction between human and machine is the base of this revolution. IR 4.0 can bring an effortless and innovative lifestyle in the future.

CONTENT

The 4th industrial revolution is divided by nine parts. There are autonomous robots, simulation system integration, industrial internet of things, cyber security, additive manufacturing, big data and analytics, cloud and augmented reality. Autonomous robots is an intelligent machine that can do tasks on their own without any help form human. They can help in reducing error and increase customer loyalty. They can also sense their environment. Next is industrial internet of things. IoT are things that is interconnected and can share data to each other by connected to the internet. Some of the examples of Internet of Things are Google Home, Philips Hue and Samsung SmartThings.

Cloud computing is mostly used for storage. There are three types of cloud computing which is private cloud, public cloud and hybrid cloud. Cloud can be connected through our mobile and the database. Apple user mostly is familiar with iCloud while Android user use Google Drive and Google Cloud. For enterprises, they use Amazon Web Services, Alibaba Cloud and Huawei Cloud. Next, big data and analytics. Big data is the large collection of unstructured data to be analysed. The process is big data will be analysed and then the decision will be made afterwards. Lastly, augmented reality. Augmented Reality is a simple application that can provide some information. It is very beneficial for tourism and education. The trend of the future is all about invisible analytics, artificial intelligence, virtual reality, video consumption, mobile payments, smart home, connected car, drones and 3D printing. Some of the future jobs that will be demanded by many companies are 3D printing technician, biomechanics service person, computer vision engineer, de-extinction zoologist, electronic textile designer, ethics hacker, infographic designer, machine learning engineer, transpoosion designer, urban agriculturist and web history archivist. TM embraces the digital technology and also industrial revolution 4.0 technology. TM contribute a lot for this country. They have the data center, cloud services and Internet of Things that will provide to the Digital Malaysia that consists of Digital Government, Digital Economy and Digital Society. There are 11 TM 5G use cases which are smart retail analytics, smart water system, smart vehicle system, smart helmet, geolocation safety app, UNESCO 8K virtual reality, smart tourism app, smart parking, smart traffic light, smart safety and security and smart agriculture.