

Fourth Industrial Revolution (IR 4.0)

Topic: Internet of Things (IoT)

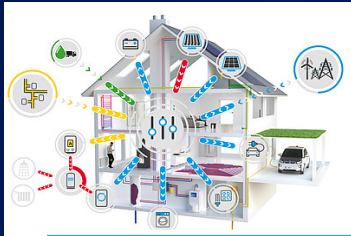
INTRODUCTION

- The Internet of Things is a structure where many portable electronic devices that are connected to the Internet, so that the devices are able to share, collect, transfer data automatically over a network or internet without the need of human operation.

DISCRIPTION

- The technology of the Internet of Things allows the electronics devices to operate and communicate with the other electronics devices without depending on the interaction of humans with electronics devices. The IoT devices have such capability as they are connected to the network or Internet to share, collect and transfer the data, enabling the communication between devices in real-time. Thus, this technology has significantly reduced the workload of humans to interact with machines.

Example OF IoT APPLICATION



SMART HOME

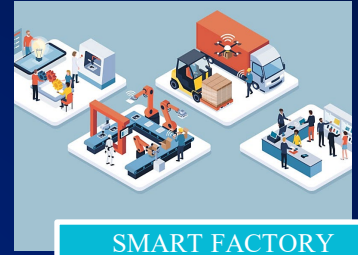
Image Source:

<https://ehi.eu/heating-technologies/smart-heating-and-smart-home/>



SMART FARMING

Image Source: <https://pandaily.com/china-aims-to-develop-smart-agriculture/>



SMART FACTORY

Image Source:

<https://internetofbusiness.com/complete-guide-10-smart-factory-trends-to-watch-in-2019/>

REFLECTION

“The 4th Industrial Revolution has brought many goods to society. Especially the creation of IoT has made people's life easier and society prosper more. Its function to connect everything to one network has allowed people to do stuff and tasks more easily and more conveniently. Society has also prospered with IoT as it opens up new sectors in the industry and allows new technology to be used to help people in a larger picture.”

(Puah Jun Hong- A21EC0221)



“By using the IOT, we are able to save a lot of time and energy in complete the tasks. For example, I realized that the smart farming actually help the farm industries to save a lot of human resources. At the same times, the smart farming can do a huge amount of work more efficiency in the short time.”

(Goh Jun Boon- A21EC0179)

“After I had learn about the IoT, I realize that IR 4.0 had change our world become better. In my surrounding, I notice that I already use many application that used IoT technology. I also found that IoT has bring up new market that can provide more job opportunity to us. Not only that, IoT also had explore innovative of human when producing new product of IoT. In the business field, IoT had improve the efficiency and productivity that can make workers feel more comfortable. After using IoT applications, businessman can reduce their costs and get more profit.”

(Teo Cheen Sheng- A21EC0232)



“From my point of view, IoT technology could be beneficial to human life especially in the aspect of the manufacturing industry as it will transform the industry to a complete autonomous. Thus, this will significantly reduce the risk of humans exposing to a dangerous environment during manufacturing and even increase the production quantity and efficiency as the IoT machines could operate without the commands from humans and able to operate non-stop to catch up with the huge demand from the customers.”

(Yaw Choon Hong- A21EC0240)



“In recent years, the rapid development of IoT has brought convenience to our life. I realized that IoT will transform our home become smart and easy to use. It not only brings more possibilities to life but also to society. IoT can detect the natural environment, simplify industrial processes and make our life better.”

(Zhang HanChen- A21EC4024)

