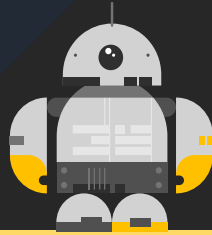
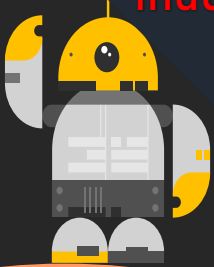


# The world

has experienced **three** Industrial Revolution which is **Industrial Revolution 1.0** (18th century), **Industrial Revolution 2.0** (19th century) and **Industrial Revolution 3.0** (20th century).

Experts believes that the Industrial Revolution 3.0 is coming to an end and we must prepare for

## Industrial Revolution 4.0.



### 4th Industrial Revolution

- Autonomous Robots
- Stimulation
- System Integration
- Industrial Internet of Things
- Cybersecurity
- Cloud
- Additive Manufacturing
- Augmented Reality
- Big Data and Analytics

### Acknowledgement

Many thanks to UTMDigital and Mr Nik Kamal Izuddin bin Nik Ibrahim for hosting and moderating the industrial talk. Thank you, Mr Reazean Shah, bin Yussoff for being the speaker of this industrial. We would like to thank everyone who gave their support and cooperation.

## The Journey of Industry Revolution

### First

- Mechanical Production
- Example: steam, water
- 1784: First power loom

### Second

- Mass Production
- Example: Electricity
- 1870: First assembly line

### Third

- Digital
- Example: IT, electronics
- 1969: First programable logic controller

### Fourth

- Cyber Physical Systems
- Example: physical, digital, biological
- Today: Robots learning from humans

### The Future

- Invisible Analytics
- Artificial Intelligence
- Virtual Reality
- Video Consumption
- Wearable
- Mobile Payments
- Smart Home
- Connected Car
- Drones
- 3D Printing

"From this industrial talk, I had **learned** about **4IR**, the history and the future of **Industry Revolution 4.0**. I really hope that I can give some **contribution to my country** after I finish my course in university so that Malaysia can be **more advanced in 4IR**."

-Joey-

"From this industrial talk, my **knowledge of Industry Revolution 4.0** has greatly **improved**. This can help me **have greater preparation for the future**. I study hard on the cybersecurity part so I can catch up in this revolution and I can also **help in our country's development** in this aspect."

-Lim-

"This industrial talk made me realize that there are a lot of things that I need to **learn especially in this Industry Revolution 4.0** to **improve myself** so that I can **contribute with the modernisation** of our country as my aim is to be someone useful to my race, religion, and country. "

-Lina-

"Throughout the talk, I learnt **many valuable knowledgeable and insightful infomartion**. Besides that, the talk has **expanded my understanding about the IR 4.0** and has taught me how to **better equip myself** in order to serve my country in the near future."

-Sharra-

### Introduction

Date: November 24, 2020

Title: "Industry 4.0: Past, Present, and Future".

Time: 10:00 am to 12:00 pm

How: **Cisco Webex** and **Facebook**

Attendee: **TIS** students

Host: Digital Services Department, UTM (**UTMDigital**)

Moderator: Mr Nik Kamal Izuddin bin Bin Nik Ibrahim

Speaker: Mr Reazean Shah bin Yussoff (Director of **Telekom Malaysia** Southern Strategic Economic Region)