



INTRODUCTION

ON 24TH OF DECEMBER 2020, THE INDUSTRIAL TALK OF REVOLUTION 4.0 (PAST, PRESENT AND FUTURE) WAS HELD BY MR. REDZUAN SHAH YUSSOFF THE DIRECTOR OF SOUTHERN STRATEGIC ECONOMIC REGION, TELEKOM MALAYSIA. MENTIONING THAT 4IR HAS BEEN INITIALED IN BRITAIN, IT'S A MAIN FOCUS NOW FOR EVERY OTHER COUNTRY IN THE WORLD SINCE THAT INDUSTRIAL REVOLUTION 4.0 HAD A BIG CONTRIBUTION TO THE CHANGE IN THE 18TH CENTURY.

EXECUTIVE SUMMARY

- IR=INDUSTRIAL REVOLUTION
- THE HISTORY OF INDUSTRIAL REVOLUTION STARTING FROM IR1.0....IR4.0 PRESENT NOW
- IR1.0-STATES HOW MECHANICAL MACHINERY WAS EVOLVED
 IR2.0-STATES HOW ELECTRICITY WAS EVOLVED AND HOW IT IMPACTED THE WORLD BY DISCOVERING A NEW SOURCE OF ENERGY IR3.0-STATES HOW COMPUTING POWER WAS DEVELOPED

IR4.0-IT'S THE PRESENT NOW AND IT INCLUDES THE REVOLUTION OF AI

- (ARTIFICIAL INTELLIGENCE)
 COMPONENTS INCLUDED IN IR4.0:
 - 1. AUTONOMOUS ROBOTS
 - 2. SIMULATION
 - 3. SYSTEM INTEGRATION
 - 4. INDUSTRIAL INTERNET OF THINGS
 - 5. CYBERSECURITY
 - 6. CLOUD STORAGE & COMPUTING

- 7. ADDITIVE MANUFACTURING
 - 8. AUGMENTED REALITY
 - 9. BIG DATA AND ANALYTICS
- EXAMPLES OF IR4.0:
- 1. SMARTHOMES
- 2. TESLA AUTONOMOUS DRIVING WHICH RELIES ON AI CONCEPTS
 - 3. 3D PRINTING HUMAN ORGANS ETC.

WHERE ARE WE NOW

- EDUCATION 4.0 USING VR AND AUGMENTED REALITY
 - COMMERCE 4.0
- JOB FUTURE WITH RELATION TO IR4.0
- HOW 5G TECHNOLOGY CAN AFFECT IR4.0

Content based on the situation discussed in the topic

AUTONOMOUS ROBOTS: INTELLIGENT MACHINES CAPABLE OF PERFORMING TASKS ALONE WITH NO EXPLICIT HUMAN CONTROL EXAMPLES OF COMPANIES WHO USE AUTONOMOUS ROBOTS: BMW, TOYOTA

INTERNET OF THINGS (IOT): CONSISTS OF THREE LAYERS, APPLICATION LAYER, NETWORK LAYER, PERCEPTION LAYER. AUGMENTED REALITY: CAN HELP WITH TOURISM AND

BIG DATA -> ANALYTICS -> DECISIONS

1R: MECHANICAL PRODUCTION

2R: MASS PRODUCTION

3R: DIGITAL

EDUCATION

4R: CYBER PHYSICAL SYSTEMS

COMMERCE 4.0: BEING ABLE TO SHOP THROUGH VR SHOPS

CLOUD 4.0: CONNECTING VEHICLES ON

THE ROAD, ALLOWING THEM TO DRIVE ON ITS OWN

EXAMPLE: TESLA 3

SMARTPHONE APPLICATIONS HAS

TRANSFORMED THE E-COMMERCE INDUSTRY EXAMPLE OF APPLICATIONS: UBER, GRAB,

FOODPANDA ,SHOPEE

OVER THE YEARS, A LOT OF TECHNOLOGY

COMPANIES STARTED FOCUSING AND DEVELOPING IR 4.0

TECHNOLOGY IN MALASYIA





