4th IR Autonomous Robot





Industry 4.0 was first mentioned in Germany in 2011, at the "Hannover Fair." Klaus Schwab, Executive Chairman of the World Economic Forum (WEF), published the details of the concept in 2015. The Fourth Industrial Revolution is a term used to describe the blurring of boundaries between the physical, digital, and biological worlds. It is the result of advances in artificial intelligence (Al), autonomous robots, the Internet of Things (IoT), 3D printing, genetic engineering, quantum computing, and other technologies.





Description

An autonomous robot is a device designed and engineered to handle the environment on its own and operate for extended periods of time without human interference. They usually possess sophisticated features that help them to understand the physical world around them. It is common for autonomous robots to work without any human assistance, unless it is necessary for their tasks. These robots possess sensors and other equipment that helps them to see any obstacles in their way. The most advanced delivery robots can even be programmed to use elevators and move throughout a multi-story building independently. However, autonomous robots still need physical maintenance.



Reflection



We believe that autonomous robot is an essential asset for us as it can help reduce human labor as well as produce consistent results that are hard to achieve. Autonomous robots are beneficial to a number of industries. Their high levels of adaptability to different situations and environments enable them to be flexible and widely used. As the world keeps evolving, we believe that autonomous robot will make our life better in many aspects.



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Industrial Talk 1

TECHNOLOGY INFORMATION SYSTEM

4.0 INDUSTRIAL REVOLUTION



SUMMARY

This poster is about "TM humanizing technology" which includes the 4.0 Industrial Revolution (4IR), Adoption area within 4IR and the journey of 4IR



INTRODUCTION

TM has been serving this nation since 1946. Since then, TM have been support the are TM Wholesale, Unifi and TM one. While most people think TM' service is about Fiber







INDUSTRIAL REVOLUTION

FIRST SECOND Mechanization Steam and Water Power

1784

Mass Production and Electricity 1870

THIRD Computer, Electronic and **IT System**

1969

Cyber Physical System Manufacture

TODAY

Cyber Security

Smartphone



FORTH



Adobtion areas within 4IR







- · Advertise strengths are driving Digital Transformation (DX) in businesses over all vertical
- · Digitalization of all service. For example, Whatsapp is platform used to digitalize telco platform. By Doing this, its can enhances customer experience
- Increase the Performance with mobile and connected workforce

Smart Cities

- · Overseeing logistic performance and efficiency with smart fleet by Centralize Fleet Data With Integrations
- integrated Smart water management system (SWIMS) which provide visibility of water industry
- · Adopting Smart Service such as transportation, safety security

- . 5G is the next generation of mobile network evolution which unifying connectivity fabric for society
- Ultra-reliable and low latency communication
- · Increse the efficiency of mobile broadband
- · Focus on job creation, development of talent, safety and security

ENABLING THE 4IR JOURNEY

- TM has built world-class information centers to bolster improvement inside the locale
- The center operates 24 hours daily to ensure best performers of service to customer
- TM NOC (network operation center) main function is manitoring network, facilities, environment and cyber threat. It's also the command and and control in all TM services

REFLECTION

BASED ON THE TALK, WE CAN SEE THAT THE WORLD IS KEEP INVOLVING. SO AS A HUMAN BEING, WE NEED TO CONTRIBUTE OUR ENERGY ON MAKING IT HAPPENING AS THE WORLD WOULD A LOT HARDER WITHOUT THE TECHNOLOGY WE HAVE TODAY, WE ALSO NEED TO BE CAREFUL ABOUT TECHNOLOGY TOO BECAUSE SOME TECHNOLOGY SUCH AS SMARTPHONE HAS CAUSE A LOT ADDICTION. THEREFORE, WE NEED TO ALWAYS IMPROVE THE TECHNOLOGY SO THAT IT GIVE MORE BENIFIT THAN THE DISADVANTAGES







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R4.0 : A MALAYSI*A* ERSPECTIV

INTRODUCTION

CYBER SECURITY MALAYSIA

An agency under the Ministry of Commmunications and Multimedia. They established with the aim of securing the nations cyber space.

CYBERCSI

Digital Forensic Service assist enforcement to cease evidence to collect data from the crime

scene CYBERSAFE

provide awareness to student , SME, and private sector about internet security

MYCERT

malware cases and share information | economic reallignment

country

CYBERGURU

provide professional 3 training service and offered training supplication to Malaysia

manage incoming

• other country need to catchup with other with China which is more further

in technology customer behaviour

they wanted very specific and detailed for their needs competitiveness

each company will defend their

increase regulation · demand from the market to see

something quality

EXECUTIVE SUMMARY

This poster is about the talk from Miss Sarah Khadijah Taylor about Malaysia perspective to 4.0 IR and how Malaysia treat to this revolution and respond to it.

IR 4.0

Many infusion of automation had been used in nowadays manufactoring sector

THE NEED TO EMBRACE IR 4.0

Future of manufactoring in Malaysia impact by 3 factor

Global value chain and geoghrapics of production are continuing to shift

> Quality of labour and higher productivity, but not low labour cost

New technology disrupting and fostering a technologybased model of production

DIGITAL FORENSICS

() IDENTIFICATION

3 ANALYSIS

- · be clear about the investigation · process the data · identify type kind of resources
 - · interpret analysis result
- 2 PRESERVATION
- DOCUMENTATION · documentation of the crime
- · data obtained are secured, scene includes photographing, preserved, and isolated sketching and crime-scene mapping



BASED ON THE TALK, WE ARE ABLE TO GAIN DEEPER UNDERSTANDING OF INDUSTRY 4.0 AROUND THE GLOBE AND

KNOW ABOUT THE CURRENT STATUS IN OUR COUNTRY. THERE ARE A LOT MORE THINGS

THERE ARE A LOT MORE THINGS TO IMPROVE IN THE FUTURE. THEREFORE, YOUNGER GENERATIONS MUST HAVE THE COURAGE AND INTEREST TO GET INVOLVED IN THESE FIELD TO EXPAND THEIR KNOWLEDGE AS WELL AS ENHANCE THEIR SKILLS.

ID ADIE WAFI EIN MUHAMAD JAIS AZIECOOS

- COLLECTION
- summarize result to gather facts

READINESS OF 4.0

In a GOOD & STEADY track in IR 4.0

A slight gap with leading countries eg. Japan, China & United Kingdom



MOVING FORWARD...

ALL ABOUT MALAYSIA

DEMAND

eness about IR 4.0 in terms of

Innovation

Allow customers to customize their quality and satisfaction

Digital Readiness & Connectivity

NFT (Non-Fungible Tokens) help youngsters to expa their creativity and gain income by selling their prod

Skill Enhancement

High Cost of Investment

Rest Practices

SUPPLY

ive their own programs, they need to be

Funding & Incentive

Ecosystem Support

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Training Providers

Standards & Digital Integration

Infrastructure

lopment of high speed broadbands

POINTS TO PONDER:

Upskill &

Reskilling

Inclusive Involvement of **SMEs**

Significant Evolution in

Innovation collaborative platforms is

Focused Funding Support

link with private sector investments

Good Digital Infrastructure