# INDUSTRIAL REVOLUTION 4.0

### INTRODUCTION

Since technology has grown exponentially since the early decades, it is a must for each country to have their own technology breakthrough. By doing so we can use the technology to create knowledgeable workers and develop process that is welcomed by international standards and also construct labs to create and test product. With that, It grows productivity, consumption, promotes flexibility in innovation and helps lessen the waste.

### INTRODUCTION

IR 4.0 is an ongoing revolution whereby infusion of automation covers both traditional industrial and advanced technology in manufacturing. It is crucial considering that it helps boost efficiency and add value in marketing.

How are we agoing toward IR 4.0?

- Advancement of digitalization
- Advancement of technologies
- Efficient resource utilization

### THE DRIVES TO IR 4.0 TRANSFORMATION

- Global Economic Order
- Technology advancement
- Future production of knowledge and skills
- Global supply chain
- Demand



### **FACTORS**

 Global production constantly grows

TO OVERCOME

· Higher quality of labour and productivity



### **CHALLENGES**

• Less public awareness

transformation, optimizable

policies and action plans.

- High cost of invesment
- Limited skills
- Lack of supply: funding, infrastructure, governance and ecosystem support.

## **TECHNOLOGY ADVANCEMENT**

• ARTIFICIAL INTELLIGENCE

CYBERSECURITY

Programs developed by machine learning

Programs

developed by



**ANALYTICS** 

BIG DATA



**CLOUD COMPUTING** 

Commonly used for data backups, file storage & software development



systems into one system process

AUGMENTED

**Upskilling, inclusive involvement and funding support** 

**INTEGRATION** 

SYSTEM

**Connection of** 

different sub-

**REALITY** Provide real-life training



• SIMULATION

**Create virtual** representations of a process on a computer for manufacturers



**MANUFACTURING** A name of an

ADDITIVE

**EXECUTIVE SUMMARY** 

This poster is about the Industrial Talk of

Revolution 4.0 that has been delivered by

**Forensics Department of Cybersecurity** 

Malasyia, Ms. Sarah Khadijah Taylor on 2nd

emphasized about the 4th IR, the drives to

technologies advancement of 4th IR and

what Cybersecurity provide in order to

achieve 4th IR.

THE FUTURE OF MANUFACTURING IN MALAYSIA

solution provider, measure to the progress of

To become a strategic partner for smart manufacturing,

shift factors and enable determination of strategies,

4th IR, the future manufacturing in Malaysia,

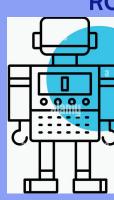
November of 2021. During the talk, Ms. Sarah

**Strategic & Project Manager Digital** 

**Technology Information System & Industrial** 

ndustrial production for 3D printing

 AUTONOMOUS **ROBOTS** 



Perform advanced tasks



• INTERNET OF THINGS (IOT)

Embedded with physical objects: sensors, processing ability, software, and other technologies

### CYBERSECURITY MALAYSIA PROVISION

- Create knowledgeable workers
- Develop process that is accepted by international standards
- Setup labs to create and test product

### REFLECTION

Through this industry talk, we know that industrial revolution 4.0 is very important for us. Industrial revolution 4.0 helps us to enhance efficiency which it improves our quality of life. There are some advanced technologies that can help human to fulfill their tasks that is difficult to done. For example, simulations, autonomous robot and cloud computing. Those are the technologies that can make human's tasks easier to be done. However, there are still lots of issues and challenges that we need to overcome to make sure Malaysia are always moving forward. Thus, we must put our effort in to make sure we are going towards IR 4.0.

### **SPECIAL RECOGNITION TO**





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