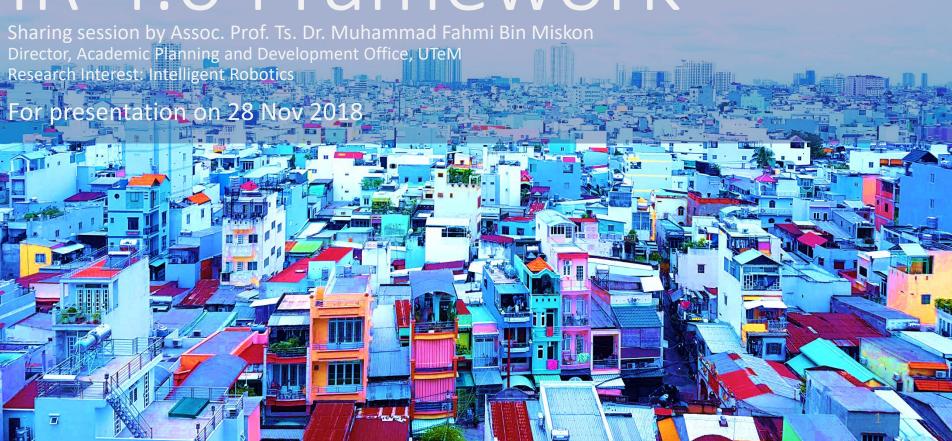
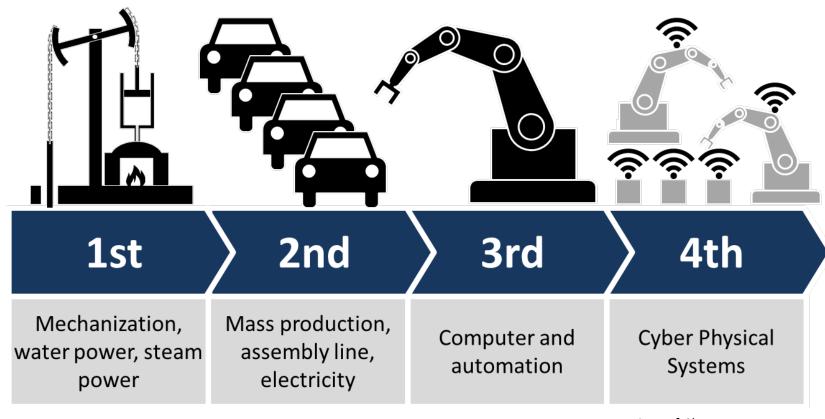




## IR 4.0 Framework



## How Cyber Physical Systems Change Education?



Driver of Change: Ubiquitous Mobile Internet

### IR 4.0 Framework (for future Jobs)

For discussion:
Relate future jobs with IR
Job Process A

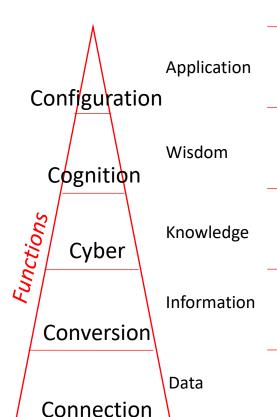
Job Process B

Job Process C

Job Process D

### **Attributes**

How graduate get ready for future jobs?



4.0. Why? How? What?

### Personalization and Value

Process: Self Configure as suggested by the system

#### Meaning and Correlation

Process: Collaborative diagnostics and Decision Making

E.g.: Future problem or scenario is predicted and action is suggested

### **Model and memory**

Process: Modelling and Clustering E.g.: Comparing and grouping

#### Computing and data on demand

Process: Data is converted to information in cloud

E.g.: Various profiles

### Sensor and Networks

Process: Data captured using IOT devices or IOP Data type: Depending on the field and application

# Manage

## IR 4.0 Framework (Education approach)

For discussion: Relate Education with IR 4.0. Why? How? What?

CURICULUM
DESIGN & DELIVERY

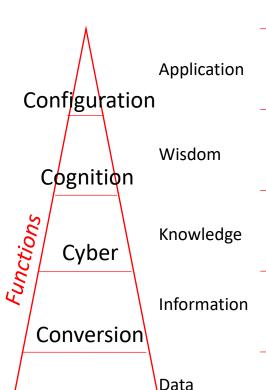
AGILE GOVERNANCE

RESEARCH 4.0

**TALENT** 

### **Attributes**

How educational institutions Operates



### Personalization and Value

Process: Self Configure PLE (Personalized Outcome, Delivery, Assessment etc.) as suggested by the system

### **Meaning and Correlation**

Process: Collaborative diagnostics and Decision Making E.g.: Future problem is predicted and action is suggested

### Model and memory

Process: Modelling and Clustering

E.g.: Comparing and grouping students in a class based on their performance

### Computing and data on demand

Process: Data is converted to information in cloud

E.g.: Individual student profiles

### Sensor and Networks

Process: Data captured using IOT devices or IOP

Data type: Cognitive & Psychometric test results, Student attendance etc.

Policies and procedures
Governance structure
Platforms and supports

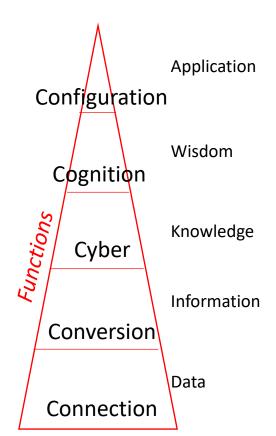
Original version 5C Architecture – Industry 4.0

Connection

Center for Intelligent Maintenance System for Cyber Physical Systems in Manufacturing

### IR 4.0 Framework (technology)

For discussion: What are the technology that becomes the main driver of IR 4.0?



Bagaimana keputusan diterjemahkan kepada tindakan (personalized action)? Robot, Additive Manuf.

Bagaimana analisa membantu membuat keputusan? Big data analytic, Artificial Intelligence

Bagaimana maklumat dikumpul/dianalisa/dijaga dalam alam siber? Platform, Cloud Computing, Cyber Security.

Bagaimana untuk menukarkan data yang dikumpul kepada maklumat berguna? System Intergration

Bagaimana untuk menghubung dunia fizikal dengan dunia digital? IOT, Augmented Reality, Simulation