

INDUSTRIAL TALK 4.0

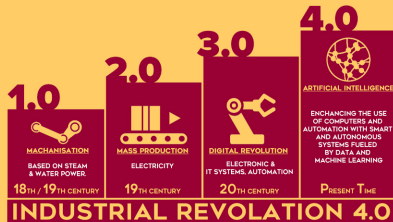
Past, Present, Future.

SPEAKER



SPEAKER: REDZUAN SHAH BIN YUSOFF
(Director of Southern Strategic Economic Region,
Telekom Malaysia)
TALK TOPIC: Industrial 4.0: Past, Present, Future.
TIME: 24 November, 2020. 10AM-12PM

CONTENT OF THE TALK



This is an area where all elements (1.0, 2.0, 3.0) come together. Industry 4.0 will see many tasks, that were once performed by us now being automated with collection and analysis of real time artificial intelligence. Industry 4.0 applies to today's accelerated speed of digitization of production. Industry 4.0 blends developments in emerging technology such as robotics and artificial intelligence, cloud computing, the Internet of Things (IoT), mobile enforcement and many other applications with inventions.

INDUSTRY 4.0 - 9 KEY COMPONENTS

- SIMULATION** : Ideal for training employees and scenario planning.
- AUTONOMOUS SYSTEMS** : Program machinery and robots to act autonomously.
- CLOUD COMPUTING** : Uses remote servers to store, manage and process data for faster process.
- ADDITIVE MANUFACTURING** : Digital 3D design data builds in layers by depositing materials.
- AUGMENTED REALITY** : Save expense of a physical trial to show a product.
- BIG DATA** : Can determine further actions and improve process.
- CYBER SECURITY** : Protects manufactures most valuable data.
- INTERNET OF THINGS (IoT)** : Connect internet to machines to send, receive and process data.
- HORIZONTAL AND VERTICAL SYSTEM INTEGRATION** : Enables truly automated value chains.

BENEFITS OF INDUSTRY 4.0

- Mass customization
- Flexible production
- New value creation method
- Increased production speed
- Improve work life

INDUSTRY 4.0 AND THE FUTURE OF WORK

- Industry 4.0 and the prospect of jobs have a darker side. It is unquestionable that all the jobs most likely to be automated in the future.
- This lead to a major controversy over whether 'robots are going to steal our work'.
- Employee will become more supportive of existing Remote working

REFLECTION

ASIF IQBAL:

Though artificial intelligence has the power to address different challenges, but being able to take advantage of the opportunity requires an understanding of the past, the present and the future.

In its short existence, artificial has increased understanding of the nature of intelligence and it has revealed the complexity of modeling human reasoning providing new areas and rich challenges for the future.

MD ROKNUZAMAN RASEL:

During the past it was discovered that artificial intelligence could be used to predict stock prices allowing it to solve more complex business problems.

Although we cannot sure of the exact future, it is quite evident that interacting with artificial intelligence will soon become an everyday activity.

NAIMUL HASAN SHIMON:

Notwithstanding the future is really unknown, we can imagine two different kind of future of artificial intelligence which will be positive or negative.

Unemployment- AI replacing the majority of the repetitive tasks and other works with robots, Human interference that becoming less, which will cause a major problem in the employment standards.

GROUP MEMBERS

1. ASIF IQBAL (A19EC4035)
2. MD ROKNUZZAMAN RASEL (A19EC4051)
3. NAIMUL HASAN SIMON (A19EC4054)

THANKS TO

Dr. Goh Eg Su