



# INDUSTRIAL REVOLUTION 4.0



There are 9 components of the IR 4.0

Industrial Internet Of Things

Big Data and Analytics

Addictive Reality

Cyber Security

Simulation

Augmented Reality

Autonomous Robots

Cloud Services

System Integration

Industrial Revolution, in modern history, the process of change from an agrarian and handicraft economy to one dominated by industry and machine manufacturing. This process began in Britain in the 18th century and from there spread to other parts of the world. The Industrial Revolution changed the world by transforming business, economics, and society. These shifts had major effects on the world and continue to shape it today. Before industrialization, most European countries had economies dominated by farming and artisan crafts such as hand-woven cloth.

## Examples Of Industrial Revolution 4.0

- 1.Smart Home.
- 2.E-Commerce.
- 3.Electric Car.

### 1<sup>st</sup> Industrial Revolution 1.0

-It was start with the mechanical power.  
-Steam, charcoal and water was then the mechanical power.

### 2<sup>nd</sup> Industrial Revolution 2.0

-The invention of Electricity by Thomas Alva Edison.  
-Assembly Line and production were started then.

3<sup>rd</sup> Industrial Revolution 3.0  
-Digital era such as Computers, IT and Electronics.

### 4<sup>th</sup> Industrial Revolution 4.0

-This is the combination of 1<sup>st</sup> ,2<sup>nd</sup> and 3<sup>rd</sup> revolution.  
-It is also based on the artificial intelligence.  
-Smart home, Autonomous Robots, Electric Cars etc. are the examples

## Education 4.0

Education system is now online based. Moreover, Artificial intelligence is also added to the education system. Now, learning is become more effective and comfortable. Many students feel this is the best way of learning. We can do many simulation to become expert in almost every field of practicality.

## E-Commerce 4.0

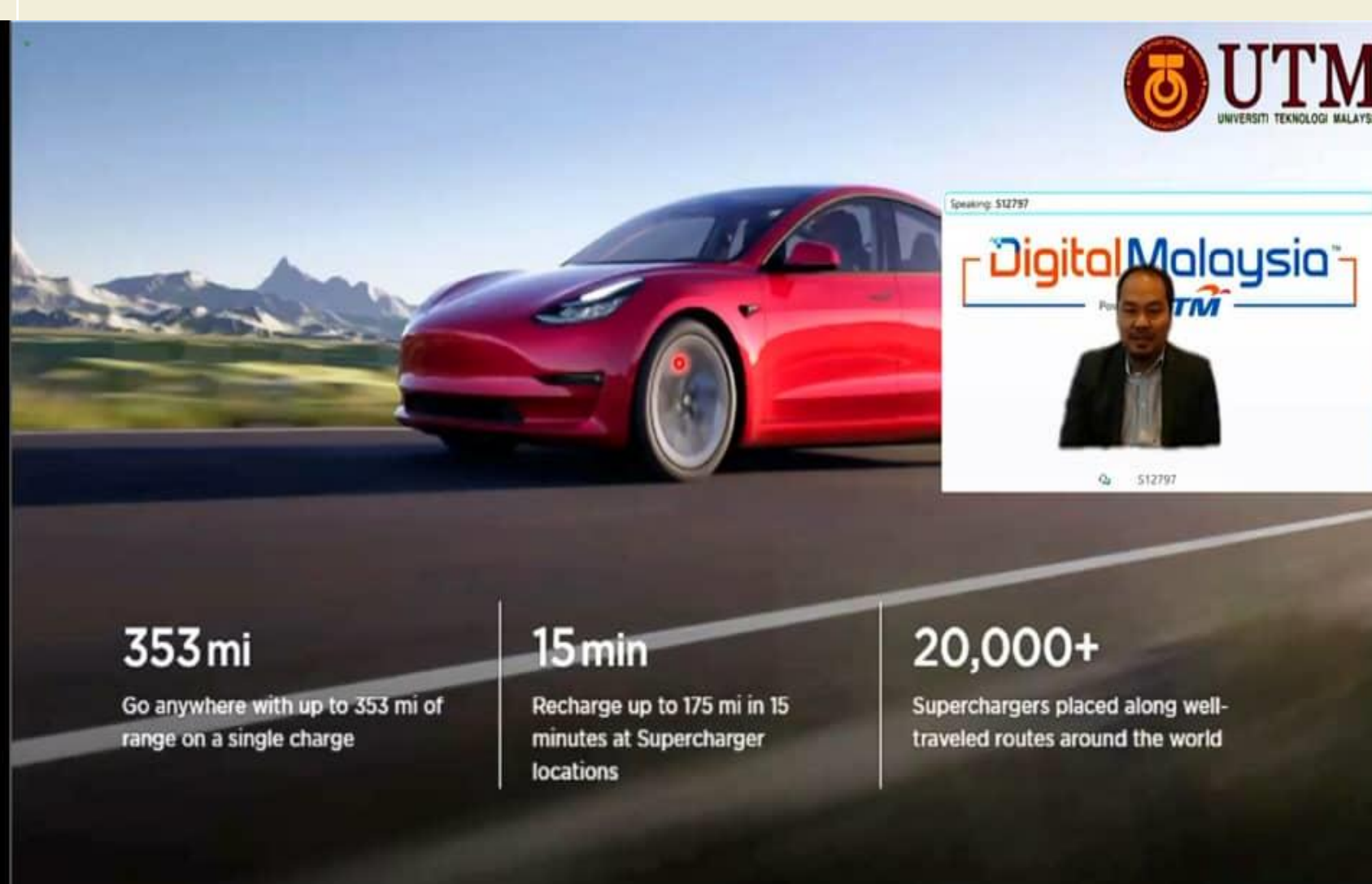
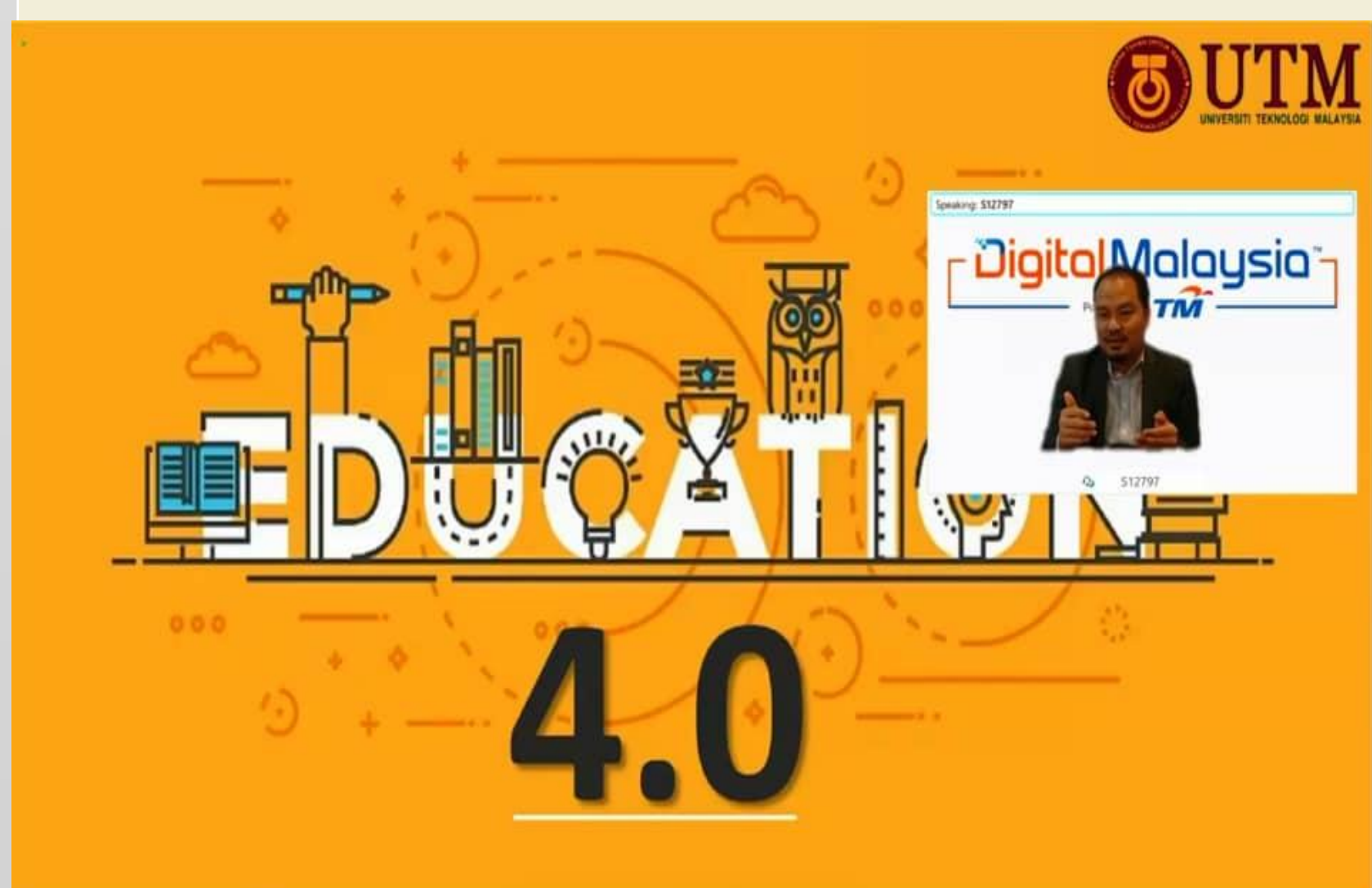
Nowadays, people prefer to buy their everything through online shopping. It is more easy and convenient way then go to the market. It is also time efficient and very easy to choose. Like many other online site, Shopee and Lazada has become very popular in Malaysia. Their selling number is quite high then any other shop in Malaysia. It is basically a network based online shop. They also included AI in this online shop.

## Electric Car

Nowadays, many car manufactures are focusing to make eco friendly electric car with all the advance facilities and technologies. In this field one of the USA based company name Tesla has become so popular and already gain success in the car industry. 0-100 is only in 3 sec and it can easily beat Lambo and Ferrari.

## Smart Home

Ultra modern with high technology facilities. They also included artificial intelligence. This types of house always connected with internet. We can see our home and its security condition from anywhere of the world. Our collaboration developers are : JOHOR LAND BERHARD, UEM SUNRISE and SIME DARBY



## Future Jobs

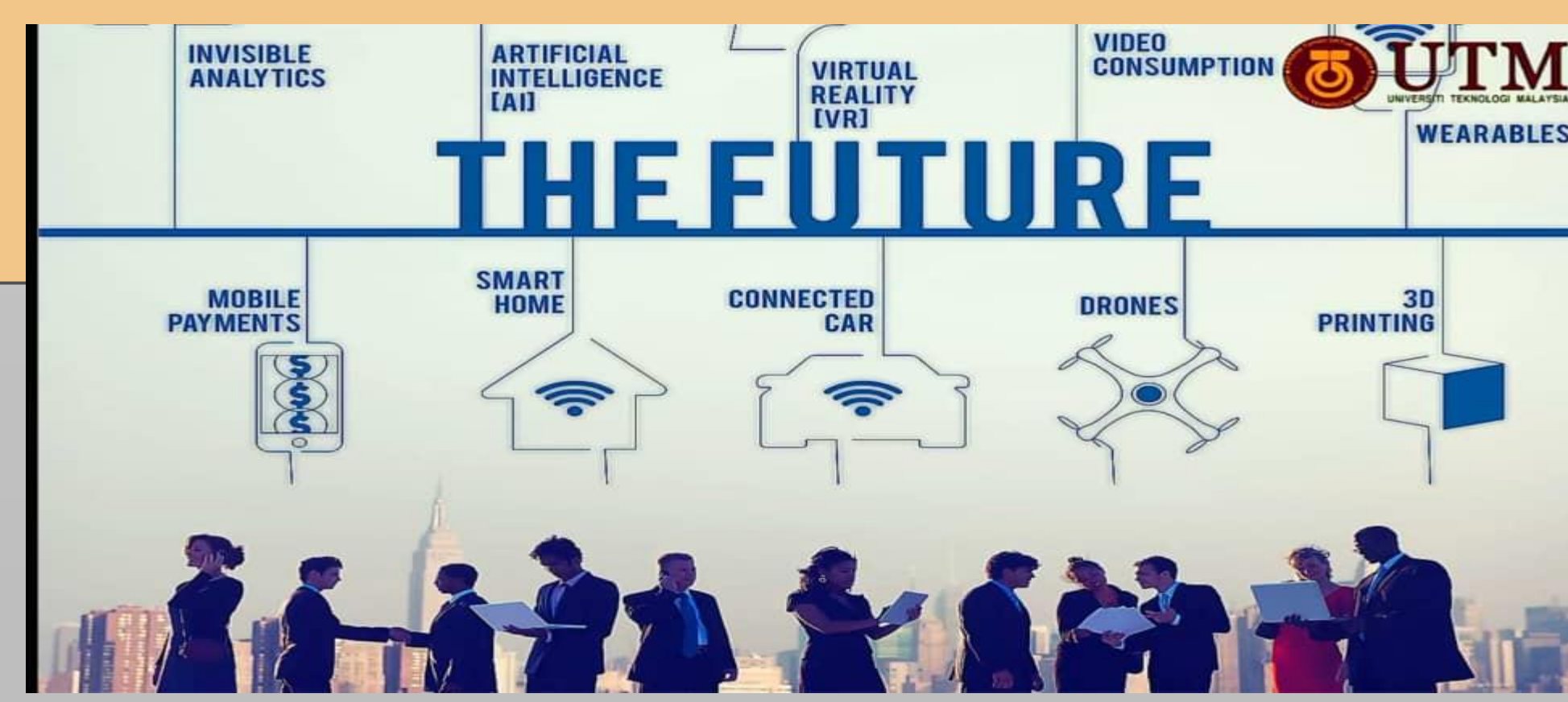
In Malaysia like many other countries, have a lot of opportunities for IT sector people.  
• Among them Internet of thing, cyber security are at the top for job opportunities.  
• Artificial intelligence, cloud computing has also got a lot of opportunities for new generation students.

Past jobs	Present jobs	Future Jobs
Computer operator Film projectionist Ice cutter Lamp lighter Print setter Rag and bone man Switchboard operator Typesetter Typist VCR repairer	Bioprocess plant technician Blogger Cloud services specialist Commercial energy assessor Digital marketing specialist Green (funeral) director Mobile app developer Social media manager Wind turbine technician Zumba teacher	3D printing technician Biomechanics service person Computer vision engineer De-extinction zoologist Electronic textiles designer Ethical hacker Infographic designer Machine learning engineer Transportation technician Urban agriculturist Web history archivist

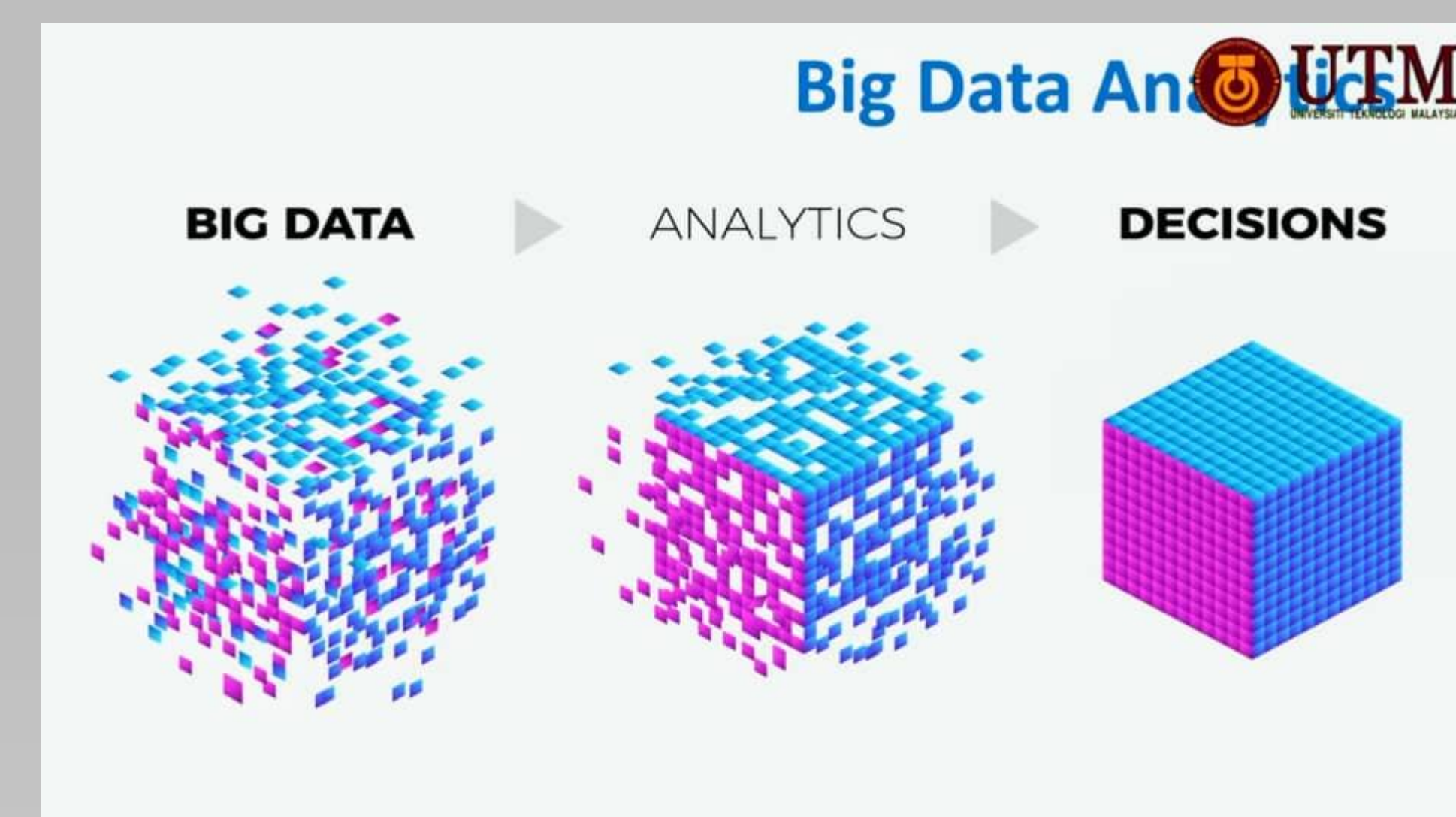
IR 4.0 represents the future jobs like ethical hacking, infographic designer, 3d printing, web history archivist etc.

-Present jobs are like blogger, cloud specialist, mobile app designer, social media manager etc.  
-typist, vcr repair, lamp lighter, ice cutter etc. are the past jobs.

The future jobs are also depends on the IR 4.0 because Invisible analytics, AI, Drones, VR and 3d printer has become very popular nowadays.  
-Smart home, electric car, online payment system will also give some jobs.  
-connected car and video consumption will define our future

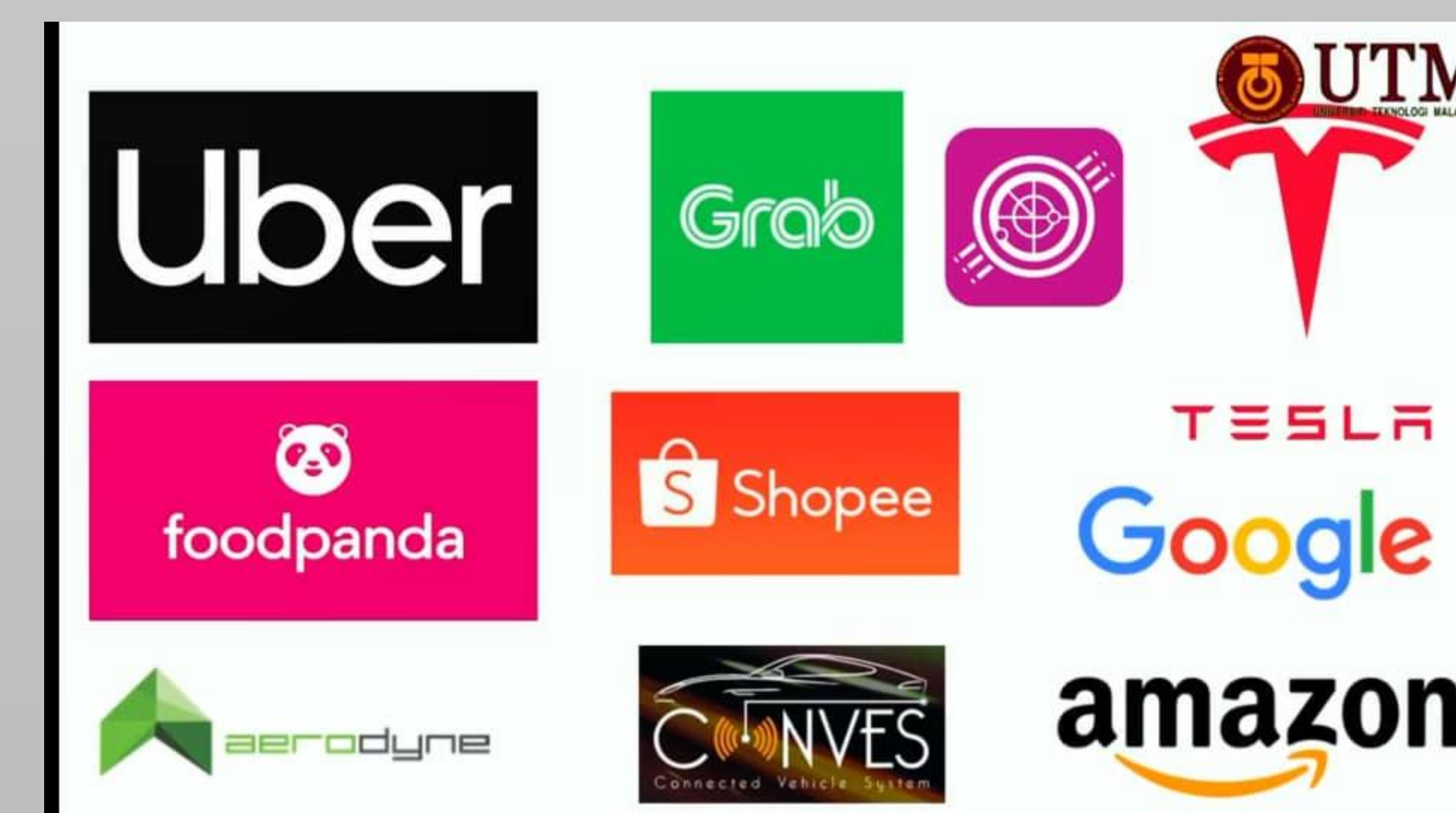


5G is a ecosystem of service for safer, sustainable and high speed internet.  
• 5g will change our life.  
• 5g is useful for smart city planning, smart tourism and smart agriculture.  
• 2 quarantine center is powered by 5g data.  
• Langkawi has already become a smart tourism city



-By analyzing big data we can take decision on various matter.  
-Those decision are more accurate and correct.

- Augmented Reality Takes the Store to the Customer.
- AR Enables Unique Opportunities for Immersive Reality.
- AR Provides Children With New Levels of Interactive Experiences.
- AR Provides Safety Technology for Automobiles.
- AR Allows Workforce Training Without Risk.
- AR Means Enhancing Customer Experiences.



Today's economy is technology dependent. In the economy they also included artificial intelligence. Day by day online transaction is increasing very rapidly. It is very efficient and effective to depend on online shopping.

