



Malaysia at the forefront of Data Economy

9 OCTOBER 2018



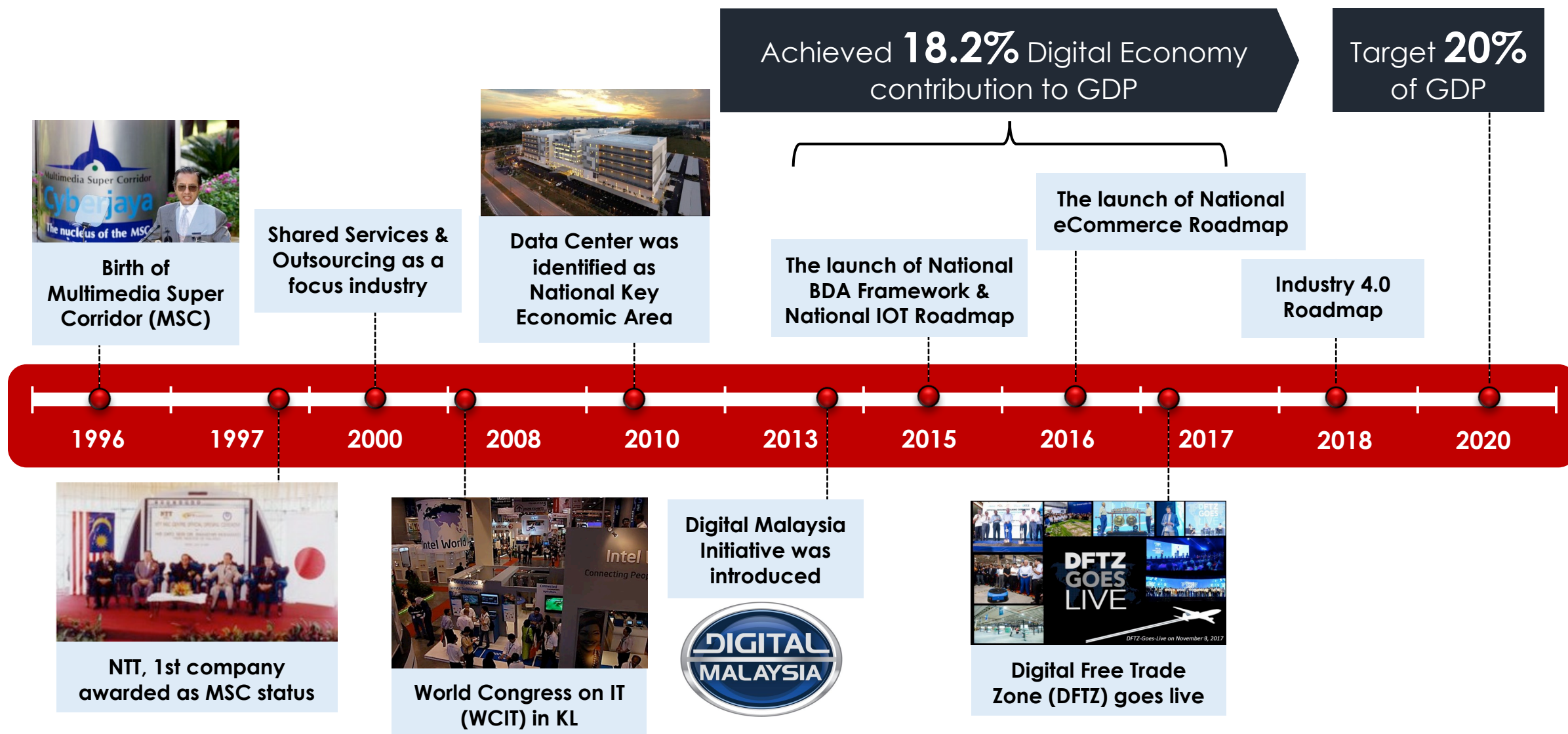
An aerial night view of the Kuala Lumpur skyline, featuring the Petronas Twin Towers and the Kuala Lumpur Tower. The city lights are visible against a dark blue sky.

MDEC® Connecting businesses
and people to their digital future.

We help to build a vibrant
digital economy in Malaysia
that attracts companies, talent and
investment while enabling Malaysian
businesses to play a leading part in the
global digital revolution.

We are driven by the promise
that **technology and
innovation** have to transform
the future of our nation and the
world.

MALAYSIA'S DIGITAL ECONOMY DEVELOPMENT





CHAMPIONING MALAYSIA'S DIGITAL ECONOMY

MDEC. Connecting businesses and people to their digital future.



**Driving
Investment**



**Building
Local
Tech
Champions**



**Catalysing
Digital
Innovation
Ecosystems**



**Propagating
Digital
Inclusivity**





INNOVATING DATA ECONOMY

Big Data Analytics
Internet of Things
Artificial Intelligence

CONNECTED

ANALYSED

INSIGHTS

OPTIMISED

MONETISED



DECISION
MAKING



SITUATIONAL
AWARENESS



RESOURCE
OPTIMISATION



BEHAVIOUR
TRACKING



PROCESS
OPTIMISATION



AUTONOMOUS
SYSTEMS



REVENUE



OPTIMISATION



EFFICIENCY

ASEAN DATA ANALYTICS EXCHANGE (ADAX)

A one-stop hub to pull the big data analytics ecosystem together to create solutions and adopt data technology ecosystem



Develop **TALENT**



Promote **TECHNOLOGY**



Proliferate **ADOPTION**

Pioneering latest
DS & AI learning
experience

Focal point for DS
& AI community
events

Soft-landing place
for global DS & AI
company

Testbed facilitator &
thought leader for
data technology
related projects

A go-to place for
data technology
adoption journey





Talent Development for Future Digital Workforce



65% of Children in
Schools Today Will End
Up Working in
Completely New Job
Types That Don't Yet Exist

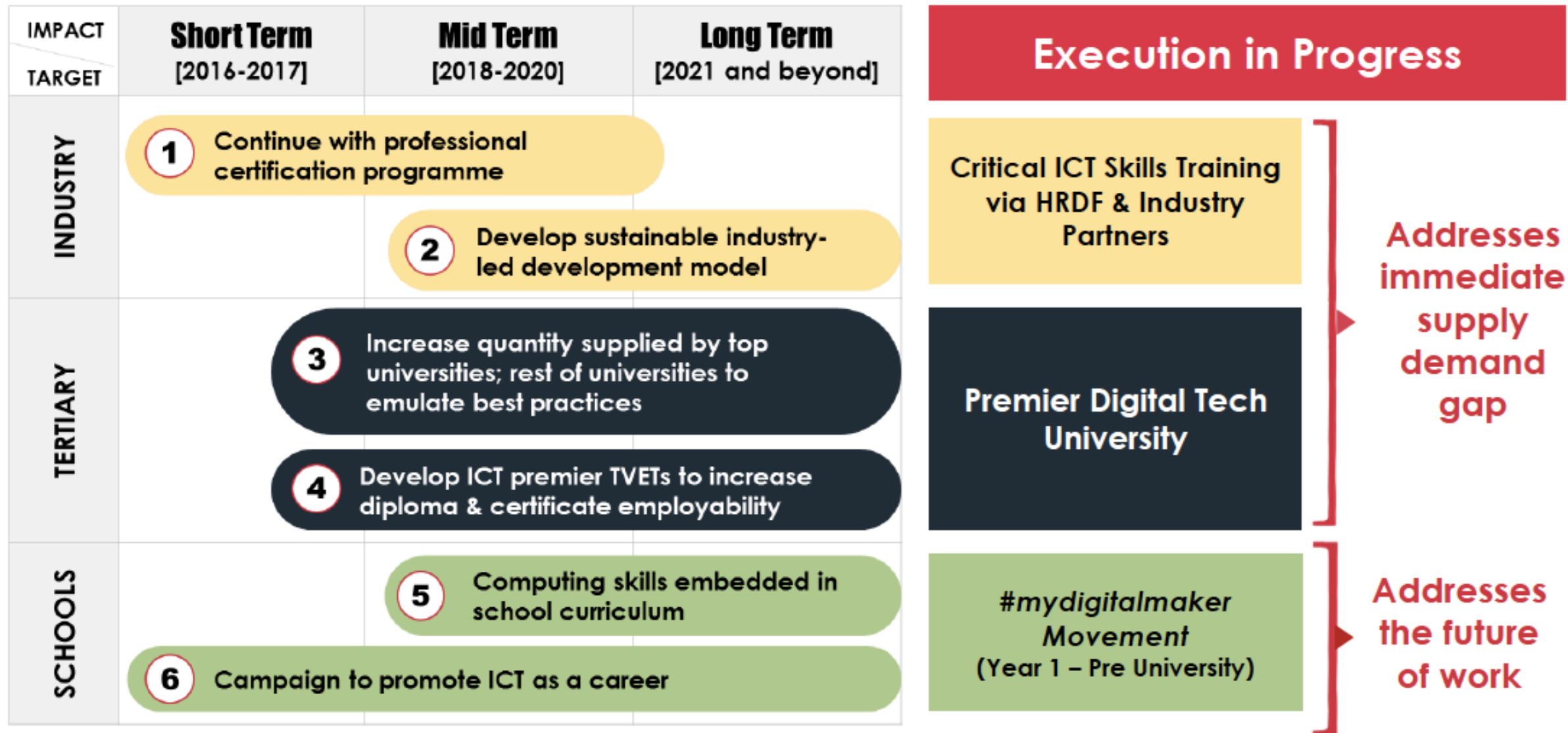
*Future of Jobs Report,
World Economic Forum 2016*

WORLD
ECONOMIC
FORUM



DIGITAL TALENT STRATEGIC INTERVENTION ROADMAP

ADDRESSES FUTURE OF WORK



DATA TECH TALENT DEVELOPMENT

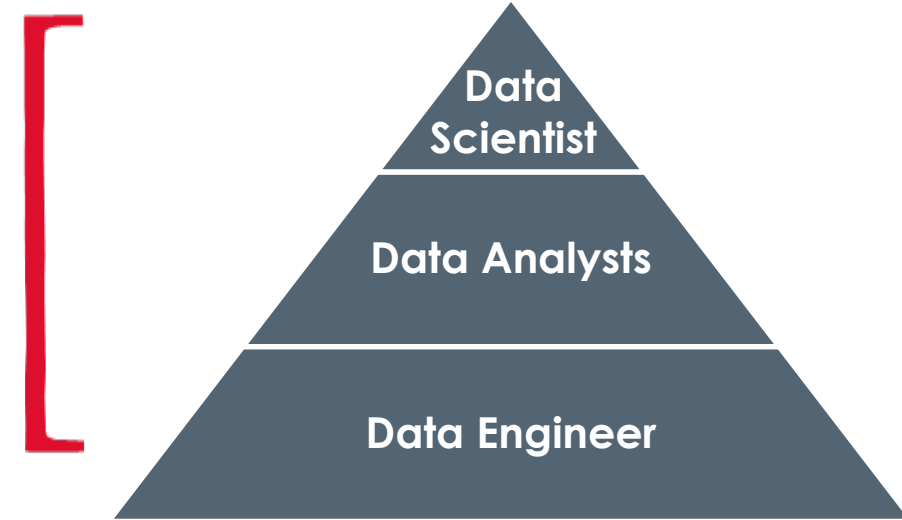
Malaysia has a 2020 Target to Develop 20,000 Data Professionals



We have facilitated the development of nearly

7,000

Data Professionals



Holistic talent development approach at universities & professionals level





High Impact Projects

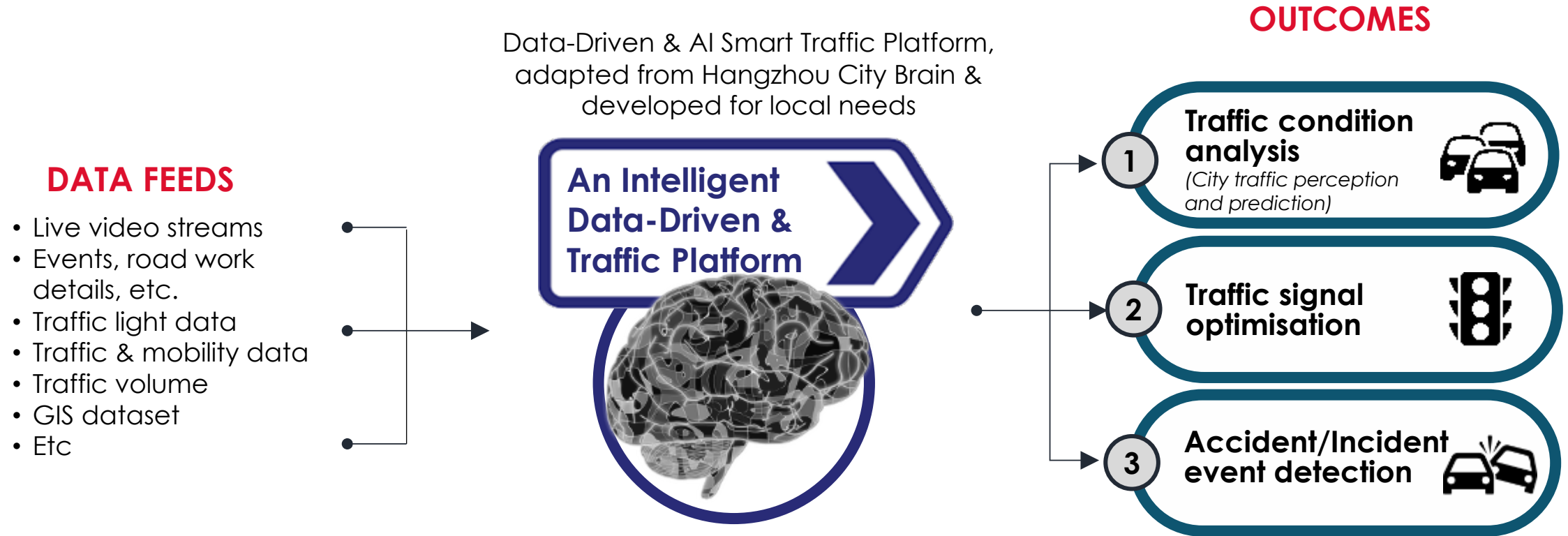
Drive use cases

How Can Big Data & Artificial Intelligence Improve Traffic Management In KL?

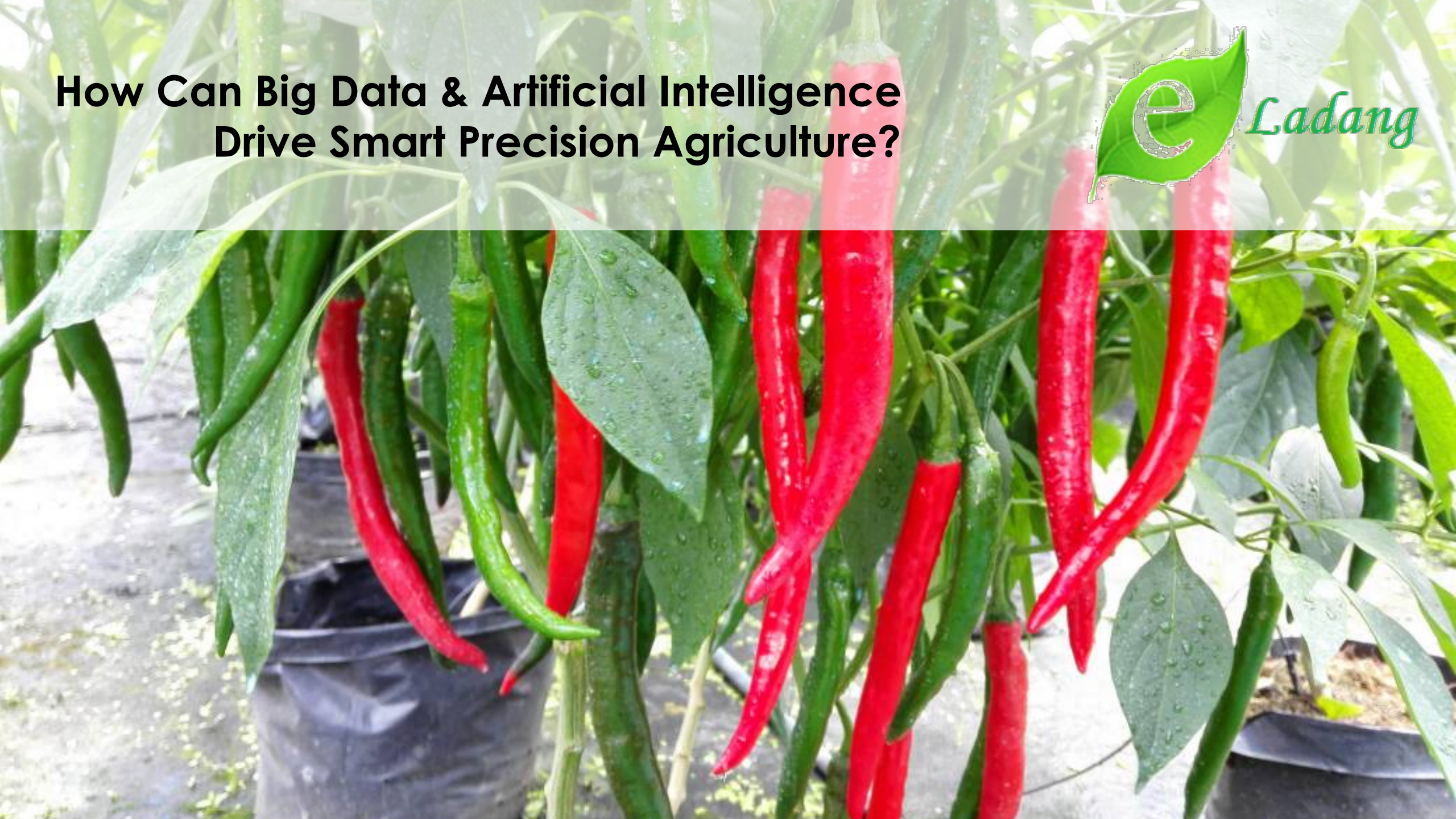
MALAYSIA
CITY BRAIN



A Data-driven & AI Smart Traffic Solution



How Can Big Data & Artificial Intelligence Drive Smart Precision Agriculture?





Opportunity in Agricultural *Digital Adoption in Chili Farming*

Using IoT technology to measure soil moisture, electrical conductivity, temperature & overall plant health

Sensors – IoT - Analytics



- Utilising sensors to monitor and control the usage of water and fertiliser precisely to **minimise cost**
- Optimising with data collected from sensors producing **higher yield**

Actual Outcome

75%

HIGHER YIELD
2.0 kg to 3.5 kg
(per plant/season)

30%

COST REDUCTION
Optimal usage of
water & fertiliser

AUTOMATING QUALITY CONTROL OF CHEMICAL TESTING IN GLOVE MANUFACTURING

PAIN POINTS

1. Manual quality control processes
2. Time consuming & labour intensive
3. Low efficiency and human errors

APPROACH

- Installed IoT sensors in the chemical tanks to collect real-time data for chemical testing. Allows corrective actions taken automatically via installed electronic-controlled valve in the tanks.

OUTCOMES:

↓ 100%

Dependency on
Foreign Workers for
Chemical Testing

↓ 100%

Unplanned
Downtime

↓ 67%

Reduction in Lab
Testing (QC)

TOP GLOVE
TOP QUALITY, TOP EFFICIENCY



"Top Glove has been continuously automating our manufacturing operations and we are now forging ahead with **factory digitalisation initiatives using cutting edge technologies** with the support from MDEC, who has been instrumental in our digital adoption journey."

Tan Sri Dr. Lim Wee Chai, Executive Chairman, Top Glove



SO, WHAT'S NEXT?

- Here are a number of ways MDEC can assist in your journey into the world of Data Economy:
 - Adoption of Data Technology via match making with solution/service providers
 - Meeting your Talent requirements by facilitating with universities and training providers
 - Problem solving via hackathons that MDEC can assist in organising
 - Sharing of your use cases at ADAX

THANK YOU

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