

Cloud α



Industry 4.0 Enabler of Digital Opportunities

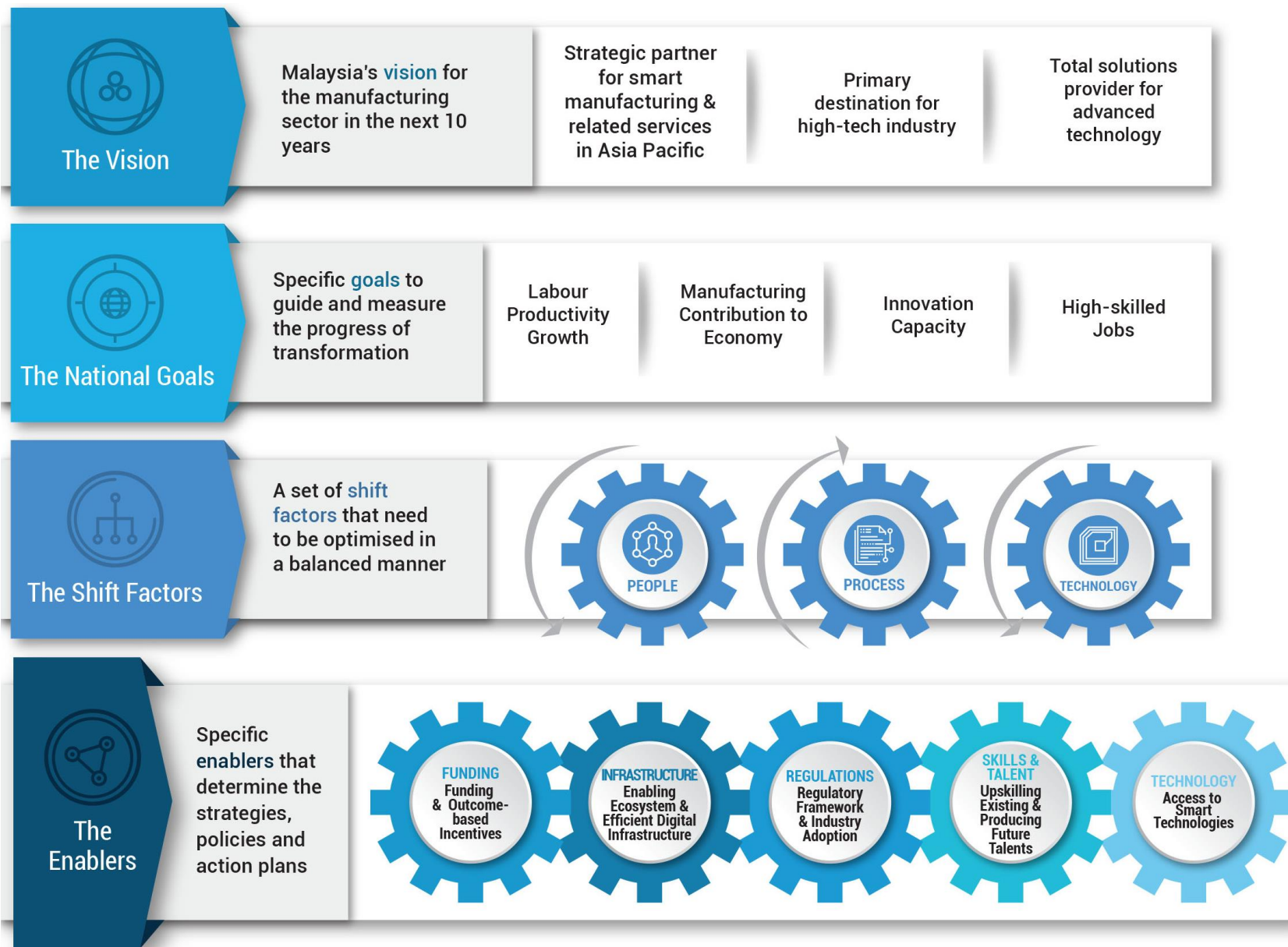
September 29th, 2020



Industry 4.0 – The Policy Framework

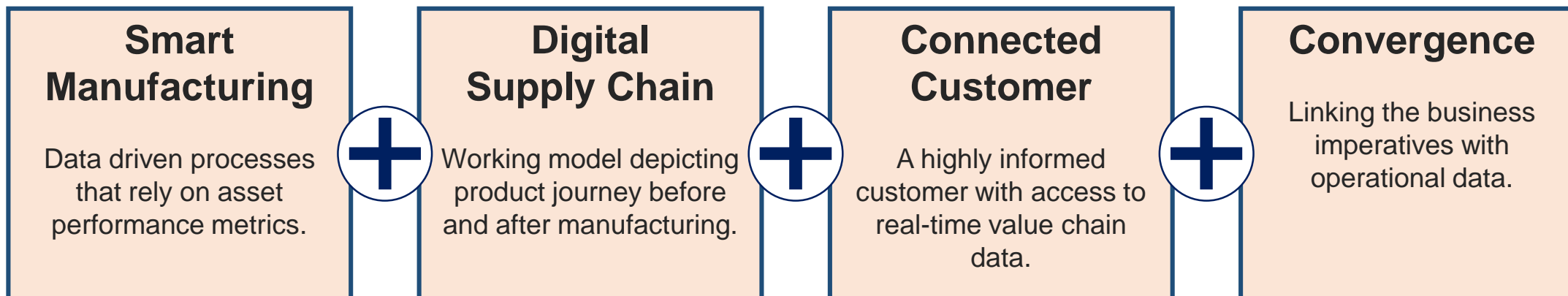


Industry4WRD



Digital transformation (DX) is a process of moving to a technology-enabled platform to positively change a business model while providing new revenue streams and after-sales opportunities.

The end objective of any DX is to bring in automation by digitalising every aspect of the manufacturing touchpoints through a digitalisation drive.



- To have a communicating medium inter-machine and systems.
- Multiple point sensors for maximum data collections.



- System real-time health monitoring will help releasing dependencies on resources.
- Minimising possibilities of equipment's over-used to increase machineries life span.



- Data collected and massed to have a better insights on what's going on.
- Predictive analysis and Self-Learning Machine.



1

Connected

2

Monitoring

3

Analytics

Smart Production Journey

5

Digitalisation and Automations

4

Intelligence



- Full automation of productions.
- Digitalising ecosystem with tweaked data management to put high working efficiencies.



- Semi automations, self guard system and preventive alarm with the insight and detailed analysis on every details received.

Challenges of Malaysia's Manufacturing Industry & Business Priorities

Manufacturing Industry Challenges



Declining Sales



Demand Variability



Increased Competition



Lack of Innovation



Increasing Internal Costs

Business Priorities



Improved Supply Chain Performance



Better Operational Excellence



Reduced Operational Risks



Increased Focus on Product Innovation



Exploiting New Markets and Customer Segmentations

- Improved supply chain and equipment effectiveness will improve overall productivity level, providing opportunities for increased revenue.
- Reducing operational risks through streamline operations, total productivity management etc, allows manufacturer to address any value chain related challenges and brace themselves for future disruptions.

Manufacturing Technology Challenges

IT Security

Justify IT Budget
on New
Implementation

Infrastructure
Constraints/
Scalability

Integrating
Disparate
Applications

Growth of
Shadow IT

Integrating
Suppliers'/
Vendors' Business
Processes

Managing of
Outsourced
Vendors for IT

Recruitment, Training
and Retention of IT
Talents

How TM ONE can help the Manufacturing Industry



Cloud Infra Addressing Data Residency & Security

Enterprise Grade Cloud Infra hosted in highly secured TM ONE Data Centre within Malaysia



State of the Art Facilities with Sovereignty Compliance

- Tier III Data Centre in Malaysia
- Data Residency, Sovereignty Compliance.
- Low latency of 4 millisecond round trip



End to End Connectivity/ Cloud Solutions

TM ONE Cloud Services provide end to end capabilities for Private Cloud, Hybrid Cloud, Multi Cloud and Public Cloud solutions that addresses various markets needs



Cloud/ IT Professional Services Capabilities

Comprehensive Cloud Professional services from Consultancy, Technology Consulting, Migration Assessment , Cloud Design Planning to enable customers on their cloud adoption journey



Industry Solutions

In House/ Partners' Industry Solutions

Our Products/ Solutions Offerings



Digital Transformation Solutions

Front-End Business Operations

ONE PASS Digital Marketing
Smart Retail
VSaaS eClassroom
Fleet Management System

Back-End Business Operations

Smart Workforce Smart Helmet Document Management as a Service
Smart Forklift Power BI (Business Intelligence) Smart Agriculture
Smart Genset
Smart Map Analytics Starter Program
Smart Manufacturing



Device and Equipment

Controllers Temperature Sensors Humidity Sensor Pressure Sensor Speed Sensor IoT Gateway Camera



Data Centre & Cloud

Twin Core Data Centre Virtual Private Cloud IaaS PaaS SaaS



Connectivity

SDWAN unifi Biz Enterprise WiFi IPVPN Metro-E VSAT Wireless



Professional Services

Training Consultancy Business Advisory & Project Management Contact Centre BPO services

Leveraging On Data Driven Analysis For Smart Manufacturing Implementation

Company Background



- Food manufacturing company with **over 30 years of experience**.
- Exports to **more than 40 countries worldwide**.

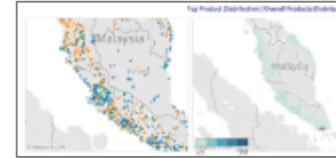


Challenges

- **Silo-ed business systems:** order capture, production, warehouse.
- Getting visibility on sales distribution require high human effort.
- Most production machinery has no IT system capabilities hence **data is recorded manually**.



Solutions



- **Geo-location product distribution analysis** through integration with TM ONE Smart Map.



- **Production dashboard** through data capture from IoT sensors.

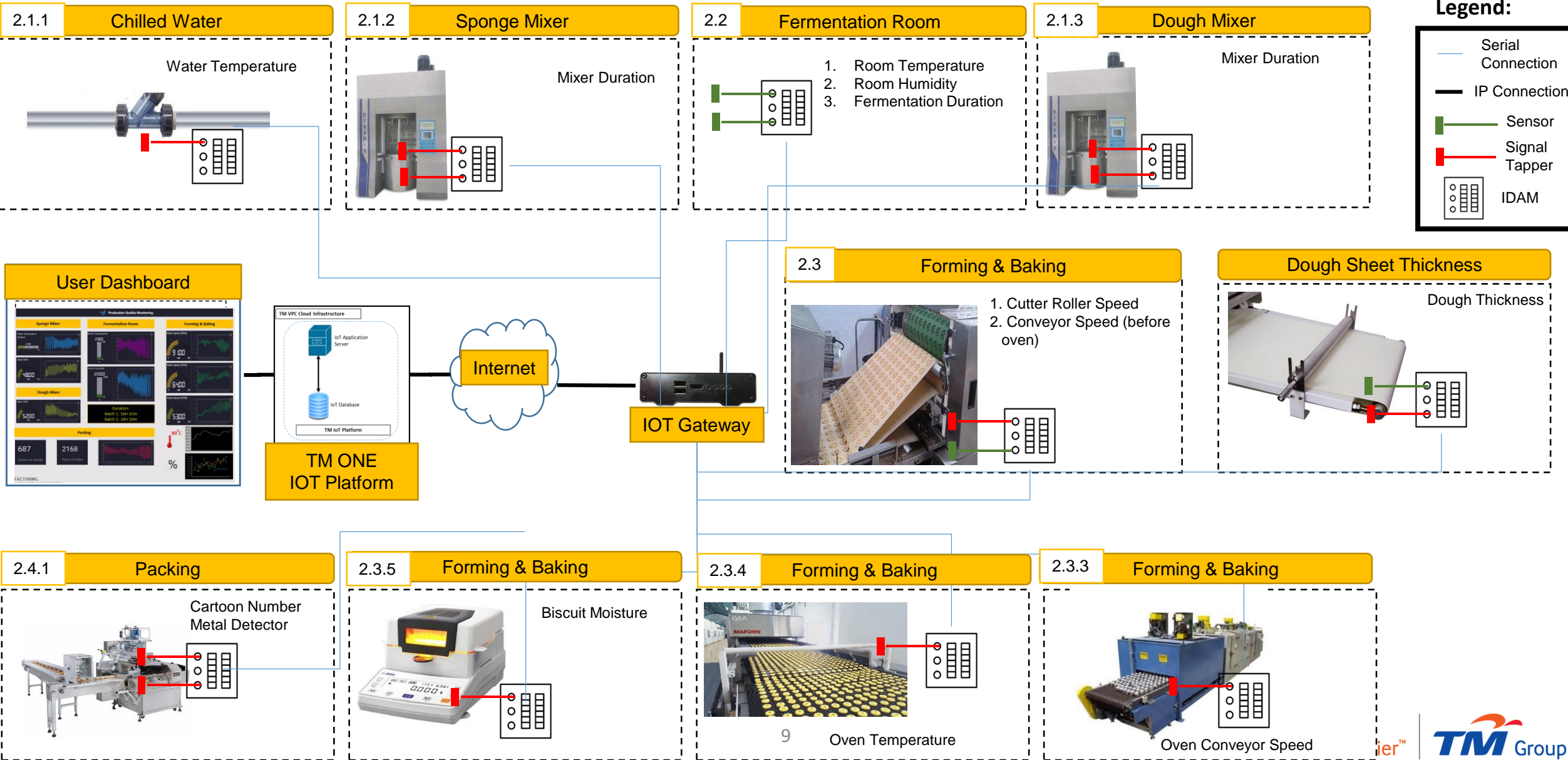
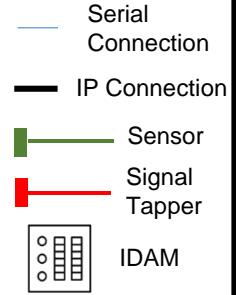


Outcomes

- ✓ **Insights on product performance**
- ✓ **Increased visibility on production machinery: temperature, RPM**

Connecting IOT sensors to plant operation and Collecting insights for Dashboard Reporting

Legend:



Smart Forklift & Smart Gen-Set

Company Background



- International presence in **7 countries** in the Asia Pacific Region
- **One area of business is supply of forklifts** and **gen-set** for industrial use
- Over 30 years of experience in gen-sets



Challenges

- Unable to **monitor the machines' health**
- **Time consuming** and require number of people to perform health check at site.
- High **maintenance** due to unscheduled maintenance/repair



Solutions

TM ONE Cloud & IOT Platform



Outcomes



- ✓ **Live monitoring** of equipment
- ✓ **Improved maintenance scheduling**

Thank you!

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**Is your
business
ready for the
digital future?**