# FIRST STEP

Injection Moulding 4.0









**Greater China Region** 

YouTube Youku







#### Our Company

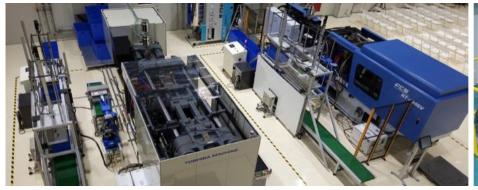
# iPlast 4.0

Our vision is to **enable people-centric smart manufacturing for the many companies**.

iPlast 4.0 helps our clients to implement **Innovation Centres** and **Model Factory Cells (MFC)** 

Our implementations combine readiness check, consulting, hardware, training and software in the fields of Scientific Moulding, Smart Maintenance, Smart Automation and Smart Manufacturing.

## OUR **ECOSYSTEM**









#### RETIRED ENGINEERS | PRACTITIONERS | YOUNG ENGINEERS

Injection Moulding | Tooling | Maintenance | Quality **LEAN | Automation | Supply Chain Management Digitalisation | Business Development** 





































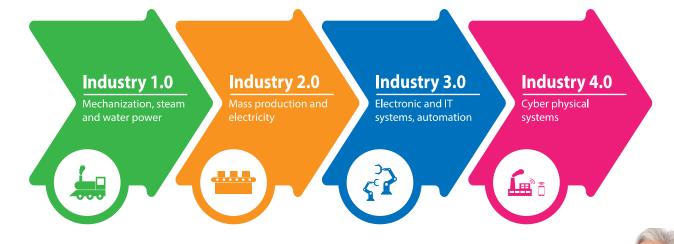
# Our FOCUS

- Industry
  - Manufacturing
    - SMEs
      - Plastics Industry



### **INDUSTRY**

4.0



Why it matters?











Let's not discuss Industry 4.0 10,000 feet above ground

implementing Smart Manufacturing



**Delivery** 

**Equipment** 

**Work Process** 

Process Quality

Service of the control of the cont



**Target** 

**Order** 

Received

**Material** 





Train first?
Pay first?

Industry **2.0** 

Industry 3.0

Industry **4.0** Ready

Industry 4.0

With Industry 4.0 concepts in mind

## Industry 4.0: Highly disruptive?

#### **Challenges**

- Cost of investment
- Awareness and success stories
- Digitalised culture and skills
- Messy physical world

#### **Benefits**

- Better quality
- Lower operation costs
- Create additional revenue
- Adapt to changing environment

## Think Big, Start Small



Injection Moulding 4.0

Injection Moulding
4.0 Readiness
Check
(iM40RC)









Consulting | Hardware | Training | Software

# Industry 4.0

**Readiness Check** 

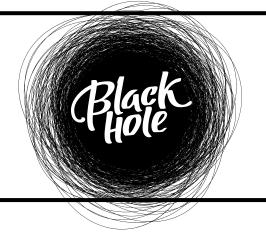


#### What is Industry 4.0?

**Leadership | Organisation | Technology | Market** 

#### **Baseline assumption**

- Large well run companies
- Certain sectors
- Advanced economies

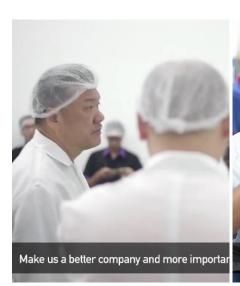


#### **Actual baseline**

- 1. Baseline must be closer to actual state of industries
- 2. Applicable for SMEs
- 3. Reflect domain knowledge differences in sub-sectors

# FIRST STEP

Injection Moulding 4.0









Malaysia









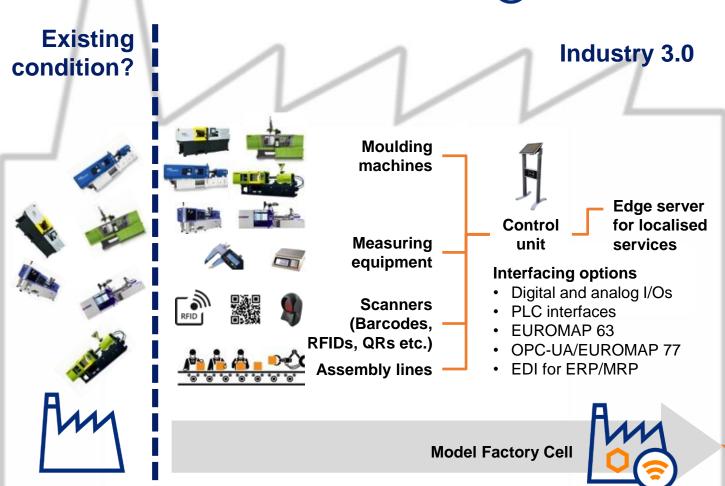


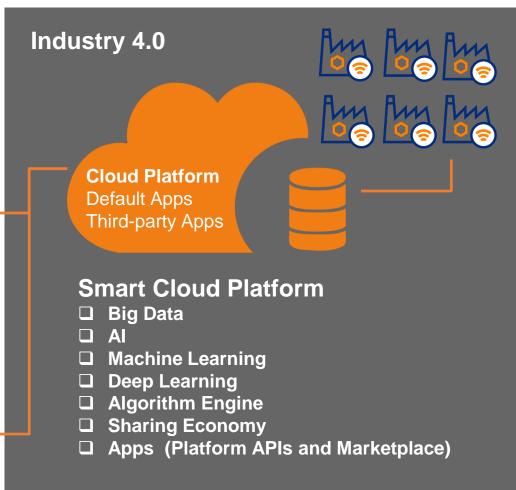
### REALISING

**INJECTION MOULDING 4.0** 







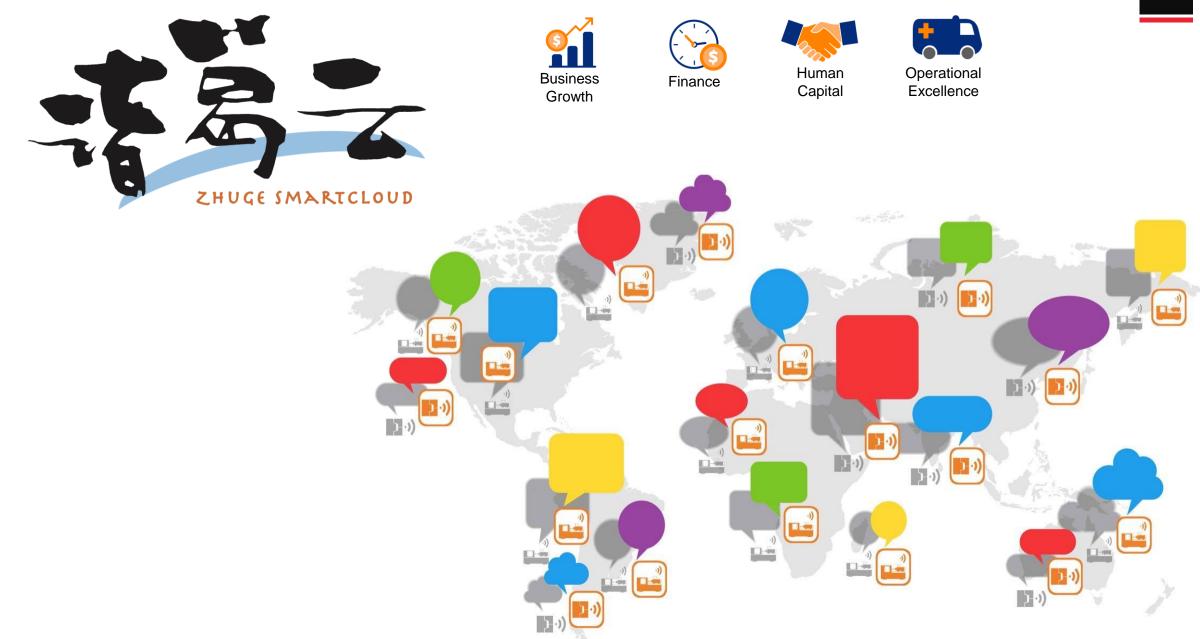






## CHINA's role in the region's digitalization journey





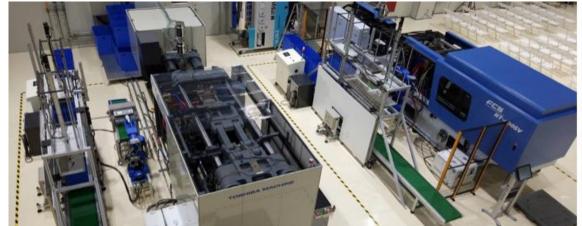


TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING

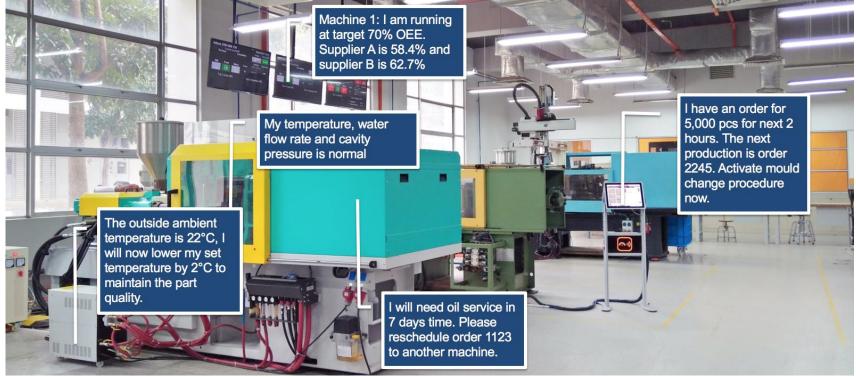
# Make manufacturing

## Sexy again









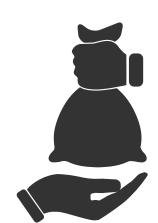
When manufacturing **is** 

Sexy again ...





## **GOVERNMENT** SUPPORT





**No Motivation** 

**No Determination** 







To enable *people-centric smart manufacturing* for the many companies





## iPlast 4.0 Expert



Anston TAN
Principal
anston@i40.sg

Anston graduated with an Honours degree from Singapore's Nanyang Technological University in 1999. Over the course of the next two decades, he founded moulding factories in Europe and gained invaluable experience and insight into the plastics industries in Europe and Asia. He is also highly proficient in areas such as industrial process optimisation, production automation and turnkey factory design.

From 2001 to 2011, Anston led his company to become the second largest global plastic goods supplier to Sweden's foremost furniture and home furnishing company. Alongside the manufacturing business, he concurrently spearheaded the set up of a consulting arm to provide turnkey solutions to plastics companies in East Europe and Russia.

In 2014, with the emerging German Industry 4.0 concept, and building on his experience in Industry 3.0, Anston co-founded the German Training Centre for Injection Moulding (Asia), German Innovation Centre for Industry 4.0 (Asia) and the iPlast 4.0 people-centric smart manufacturing platform. He also created the Injection Moulding 4.0 development roadmap to implement smart manufacturing for numerous companies and is consequently now recognised as a pioneer in the field. Cementing this pioneer status, Anston is frequently invited to influential international conferences to speak on enabling Industry 4.0.

Today, Anston leads a global team of professionals and experts that has successfully enabled many Asian plastic moulders to embark on automated and digitised manufacturing, with the added benefit of raising their technical capabilities. He is also appointed by the Malaysian Plastics Manufacturers Association (MPMA) as their Lead Consultant for the Malaysian government's initiative to bring Industry 4.0 to the plastics industry.