

## We Are...





Started as general supplies trader, to designing, fabricating & commissioning Specialized Mixing- Automation System

Supplied to the Semiconductor, Pharmaceutical, Chemical, Energy,
 E&E and Media industries

- Awarded patent for Chemical Mixing System (2017)
- Obtained Pioneer Status since 2021
- ISO 9001 certified
- A LMW licensed company





## Vision, Mission, and Values

#### Your satisfaction always our pride

Vision: To be the globally trusted leader in cutting-edge automation for our customers

Mission: Empowering customers with innovative, reliable, and cost-effective automation solutions that enhance efficiency, unleash creativity, and accelerate growth

#### Values: **BOLEH!**

- Breakthrough Believe in the power of innovation and the courage to challenge the status quo
- Operational Excellence Continuously drive improvement, deliver exceptional quality, and set high standards in everything we do
- <u>Leadership</u> Foster an environment where optimism, collaboration, and a constructive mindset are the driving forces behind our leadership
- Enchanting customers Build lasting relationships, earn trust, and be the brand that consistently delights the customers we serve
- Have fun Cultivate a dynamic and engaging workplace that encourages a healthy work-life balance



## The Leadership Team

#### Effective and interdisciplinary teamwork



Dr. Vincent Ang **Managing Director** 

Founder of the company **Doctorate Degree in Business** Administration More than 20 years of experience in chemical engineering industry



Loh Lin Lin Finance Manager

More than 20 years of

experience with extensive knowledge of auditing, accounting and payroll processes. She holds a degree in Business IT and is well-equipped to handle all aspects of financial

management.



Alan Lim

experience. He holds a Master's degree in Electrical Engineering and has authored 11 technical publications in control engineering, automation solutions, and factory continuous improvement & optimization.

More than 25 years of global



**Andrew Ang** Sr. General Manager Ops General Manager

More than 15 years of experience in the business world. He has a Master of Business Administration and is knowledgeable in business applications, sales development, documentation as well as operation management.



James Lau (PKT) Biz Dev Director

More than 32 years experience in Facilities, Security, Transportation, Cafeteria, Safety, Real Estate and Construction. Vast experience in Facility, Security and Safety Automation.



MK Ung

More than 20 years of experience in the engineering design and manufacturing field. he is knowledgeable in variety of instrumental, control system, programming, circuit design and simulation.



**KB** Ong Eng. & R&D Director Engineering Manager

More than 20 years of experience in the Automation field. Expert in mechanical design and production processes. He has been a driving force in developing new and innovative ways to streamline manufacturing.



Mohd. Azwani Asst. Eng. Manager

Excels in mechatronics with specializations in PLC programming and circuit design. His proficiency in automation processes, robotics, and system integration amplifies his capacity to effectively lead a team of engineers under his guidance.



## Strategic Partners





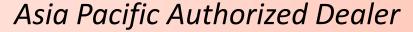






Channel Partner













System Integrator & Certified Excellence











## Members of Alliances































## **Our Customers**





































NGK ELECTRONICS DEVICES



























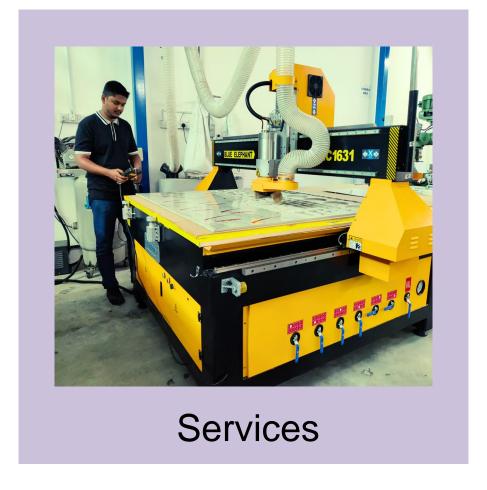


### **Our Core Products & Services**









#### **MPLEX Roles in Chemical Automation**

#### Your one stop shop for chemical automation solutions

FLUID & CHEMICAL HANDLING EXPERT

Niche problem solver, we're here to help you succeed

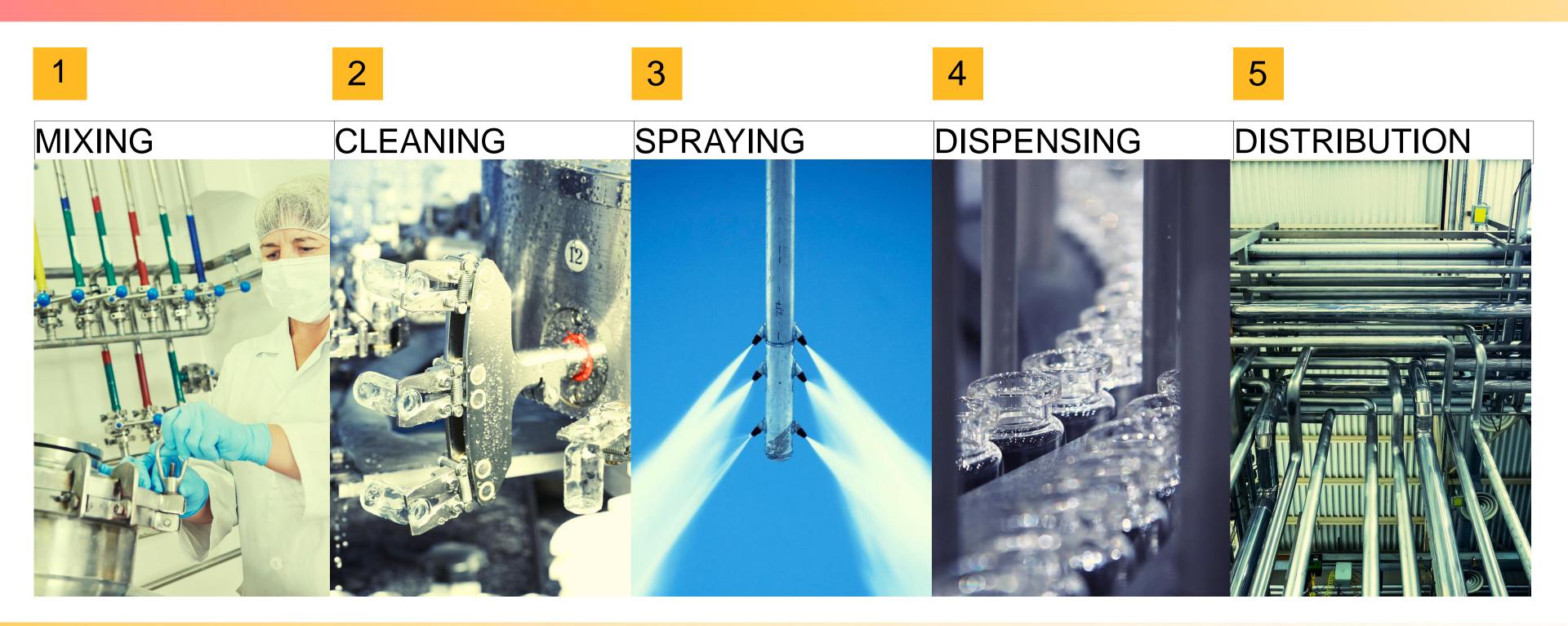
- WE UNDERSTAND CONTAMINATION
  Clean room application and high purity
- 3 TAILOR-MADE SOLUTIONS
  Ultimately serving specific needs
- 4 HOLISTIC SOLUTIONS

  Complete systems that address all aspects of your needs



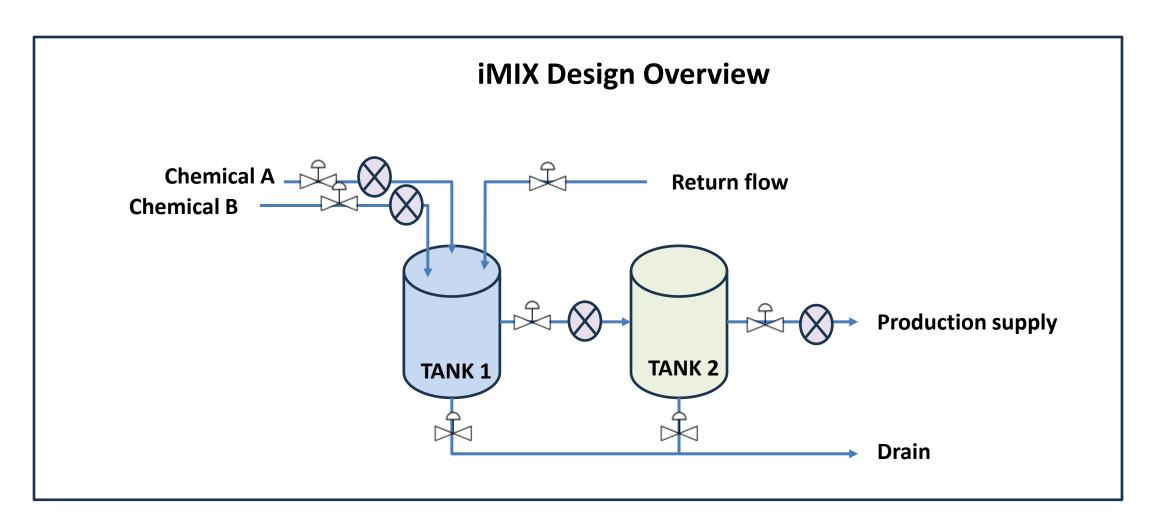
## Niche Application Provider

We specialize in designing, manufacturing, and installing industrial fluid control systems



## **Chemical Mixing Design & Use Cases (iMIX Series)**

#### Patented chemical mixing system with un-paralleled performance



	MIXING PERFORMANCE	MPLEX DESIGN	CONVENTIONAL DESIGN
1	Power consumption	0.06 kwh/day	25 kwh/day
2	Homogeneity	Excellent (CV 1-5%)	Good (CV 5-10%)
3	Proportioning Accuracy	> 99%	Continuous mixer: 90-95%

## **Used Chemical**

#### **Examples:**

- Hydrofluoric Acid (HF)
- Potassium Hydroxide (KOH)
- Sodium Hydroxide (NaOH)
- Cadmium Chloride (CdCl2)
- Isopropyl Alcohol (IPA)
- HPMC Gel
- HN03
- Trichloroethylene (TCE)
- Liquinox
- Mint Paste
- Regime
- Coloring
- DI Water



## Products – iMIX Series (2007 – 2024)

#### Proven solutions for chemical processes



**E&E Industry – Media Mfg** 





**E&E Industry – Solar Mfg** 



**E&E Industry – Wafer Mfg** 



**Medical Industry** 



**E&E Industry – Memory Mfg** 



## iMIX Series – Pioneering Solutions for a Global Market



## **Chemical Automation Applications**



Semiconductor/E&E/Solar



Oil &Gas/Chemical



Pharmaceutical/Medical

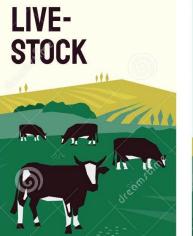


Food & Beverages



Metalworking







Agriculture / Livestock

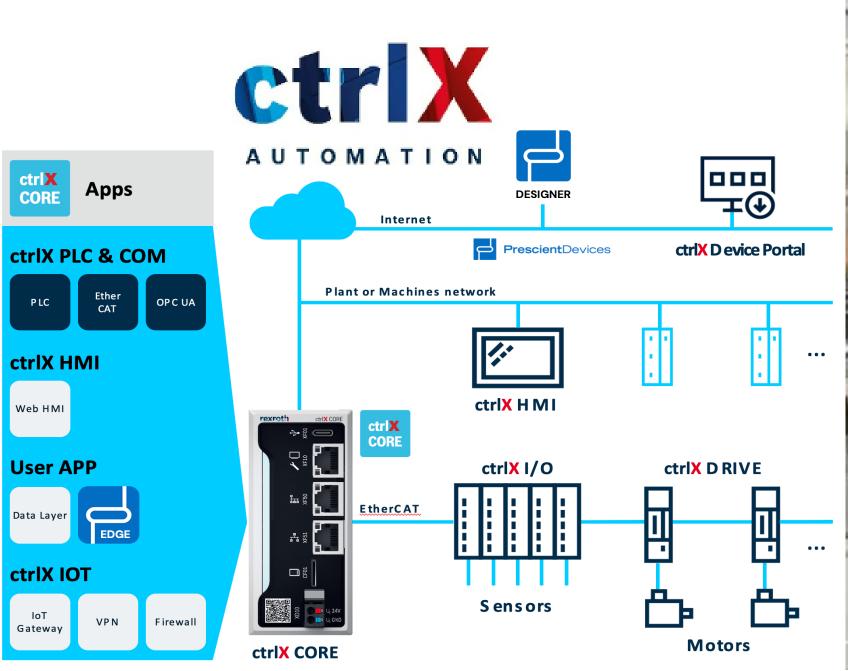
# SMART MANUFACTURING LINE (SML)



### **SML Automation Design Framework**



Unlock limitless possibilities with open architecture



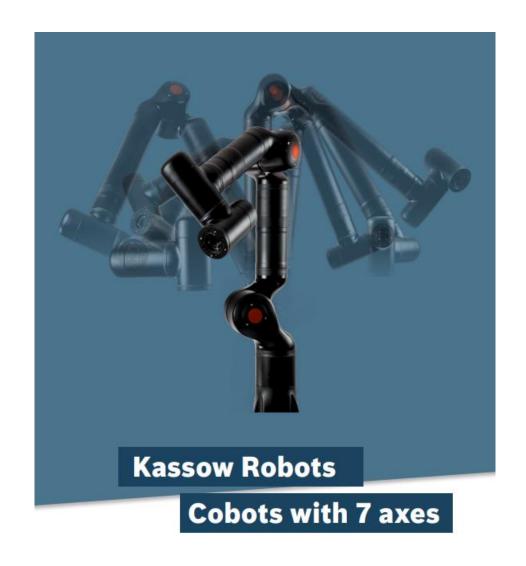




### **SML Automation Design Framework**



#### Unlock limitless possibilities with open architecture









Smart Function Kit

**Dual End Effector** 













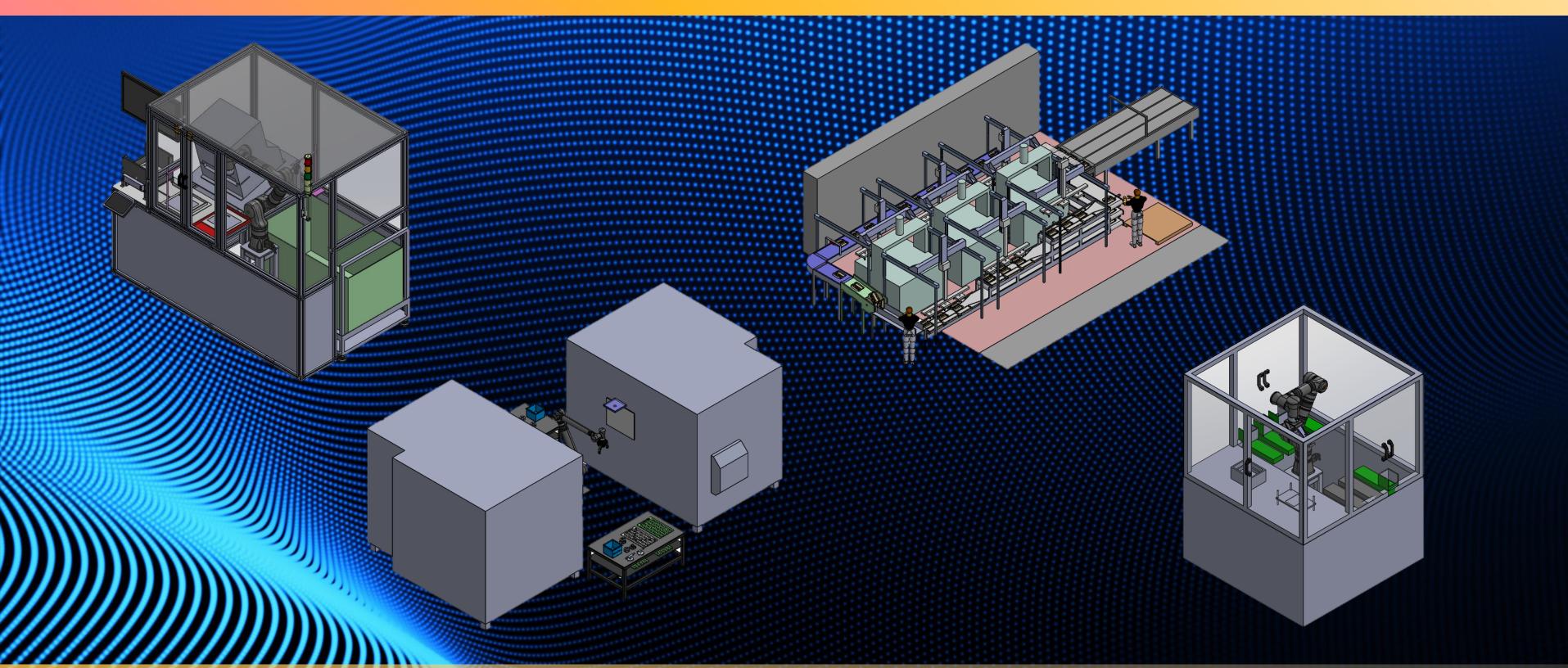


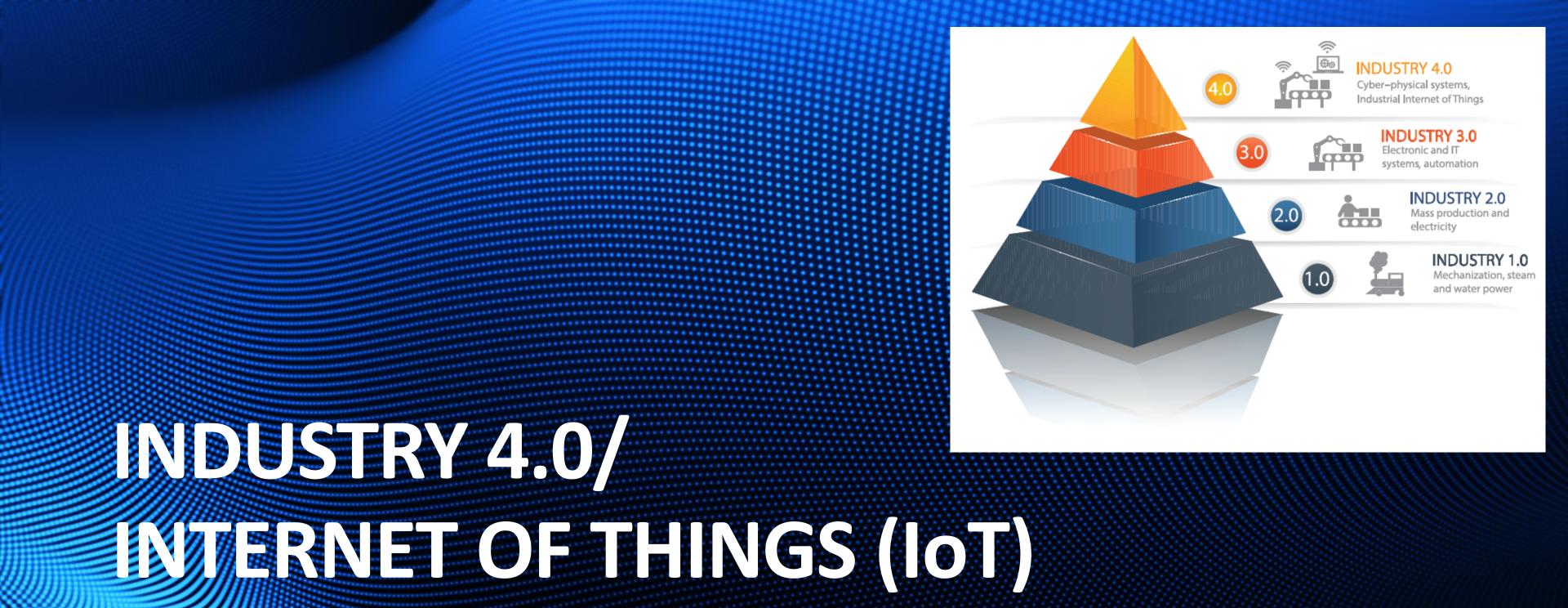




## **SML Customer Enquiries**

Boost your line efficiency, not your workload





#### Mplex

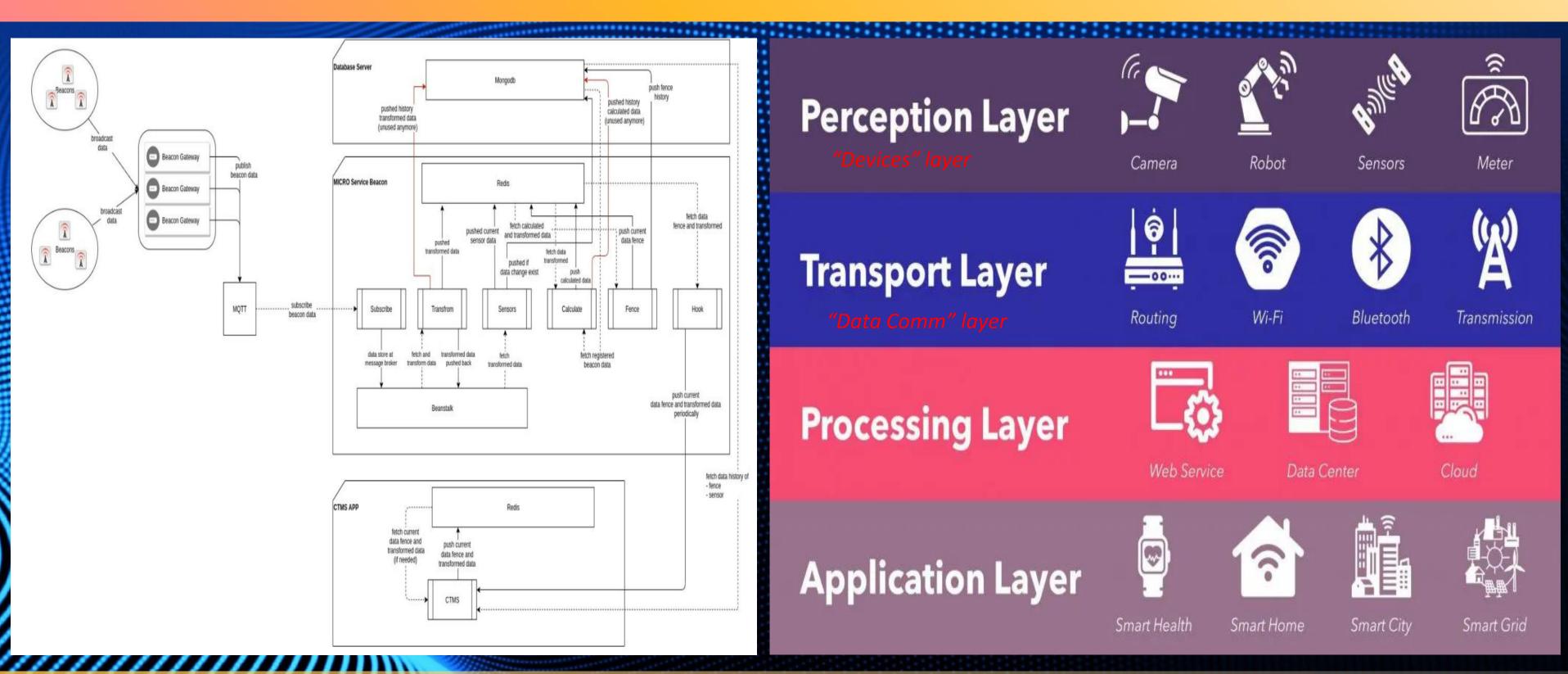
## Industry 4.0/ IoT (Internet of Things)

Power workplace of the future: a hub of efficiency, productivity, and innovation

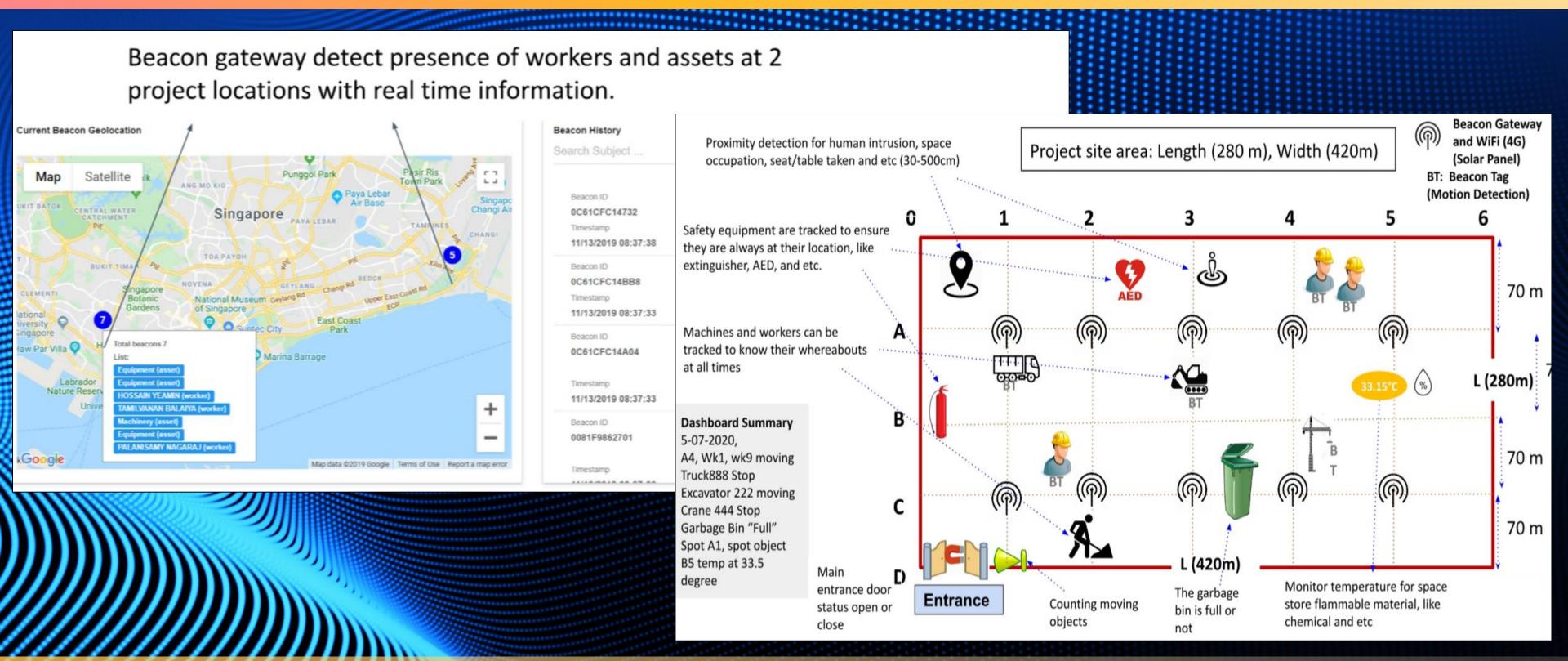


## **IoT (Internet of Things) Automation Framework**

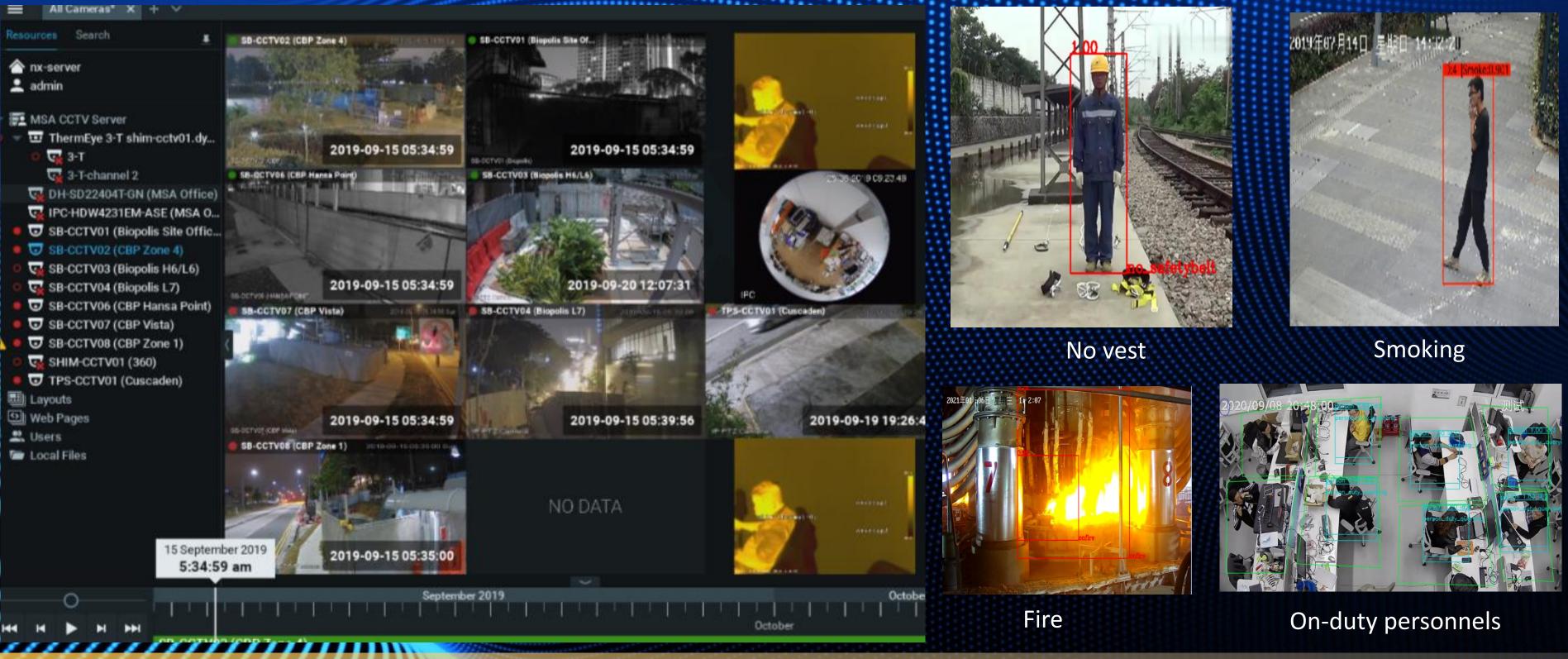
From edge to cloud, architect the connected IoT



## IoT Possible Application – Object Tracking & Monitoring

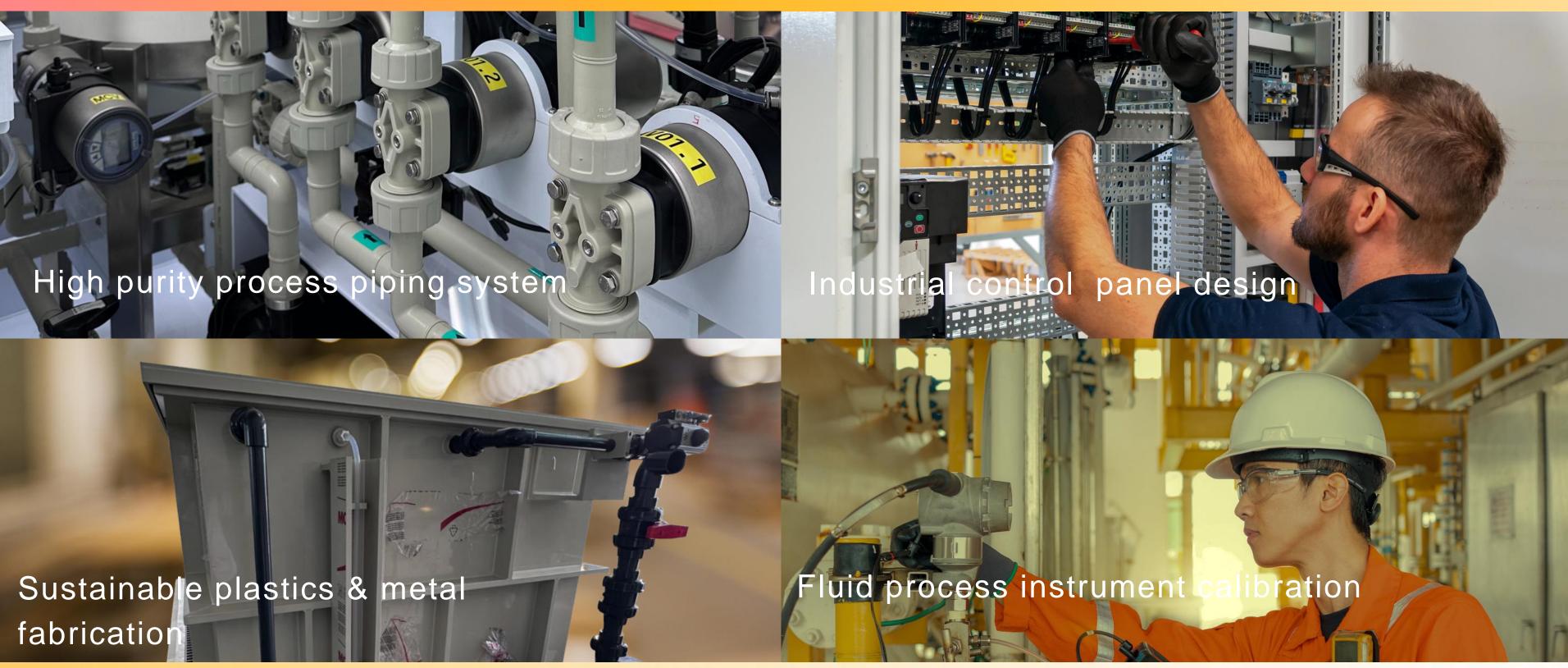


# IoT Possible Application – Data & Video Analytics for Patten Recognition & Automated Actions



### Services

#### We only do what we are best at



## In-house Capability – Cutting, Bending & Twisting

Setting us apart from competition

#### **CNC PRECISION CUTTING**



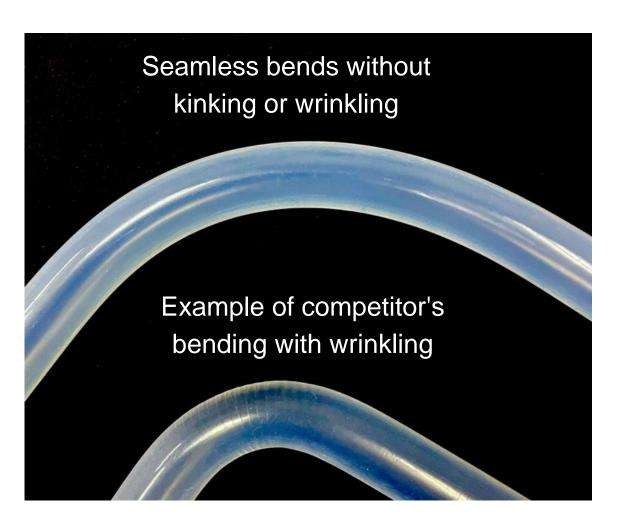
Rest assured, our use of advanced CNC precision cutting tools in the fabrication process allows us to create complex designs with utmost quality, delivering superior products that bring real value and reliability to our customers.

#### MANNUAL CUTTING



Our proficient team employs handheld cutters to pre-cut plastic pipes with precision, ensuring a custom fit for each installation. This detailed method ensures high-quality results that are durable over time.

#### PIPE BENDING / TWISTING



Expertise in plastic pipe bending is at the core of our service offering, ensuring seamless bends without kinking or wrinkling, thus preventing any risk of contamination within the pipe system.

## **In-house Capability - Cleaning**

#### Setting us apart from competition

#### RINSE & CLEAN WITH DI WATER



Equipped with an in-house DI water facility, we ensure every product undergoes a thorough rinse, clean, and testing regimen with deionized water before delivery, guaranteeing supreme purity and performance.

#### PRECISION CLEANING



Employing a precision cleaning process is a critical step before assembly, utilizing ultrasonic technology to ensure part cleanliness and integrity for superior product performance.

## **In-house Capability - Welding**

#### Setting us apart from competition

#### IR FUSION WELDING



Using George Fischer IR fusion welding machines, operated by our GF-certified welders, guarantees high-standard and flawless plastic pipe joints. This advanced technology delivers durable and precise joints, ensuring a reliable piping system that lasts.

#### **PLASTIC WELDING**



We provide specialized plastic welding services tailored for apparatus and tank construction. Our expertise lies in crafting durable welds that withstand the test of time and usage, ensuring that every joint contributes to the structural integrity of your project.

#### **ULTRASONIC WELDING (NEW)**

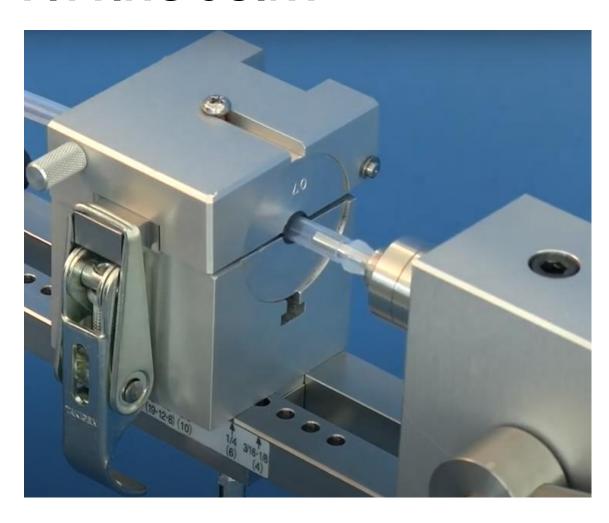


Maximize the resilience of your product assemblies with our specialized ultrasonic welding solutions for plastics. Our technology is engineered for perfection, ensuring a permanent bond that stands the test of time.

## In-house Capability – Fitting Joint, FQA & Packing

Setting us apart from competition

#### **FITTING JOINT**



The integration of SMC fitting systems for pipe joining ensures high-quality connections that are both durable and reliable. This method allows for precise and efficient assembly, paving the way for robust piping solutions across varied applications.

#### **FINAL QA**



The meticulous final quality assurance process for plastic pipe products is critical, ensuring that each item meets stringent standards for safety and performance before assembly.

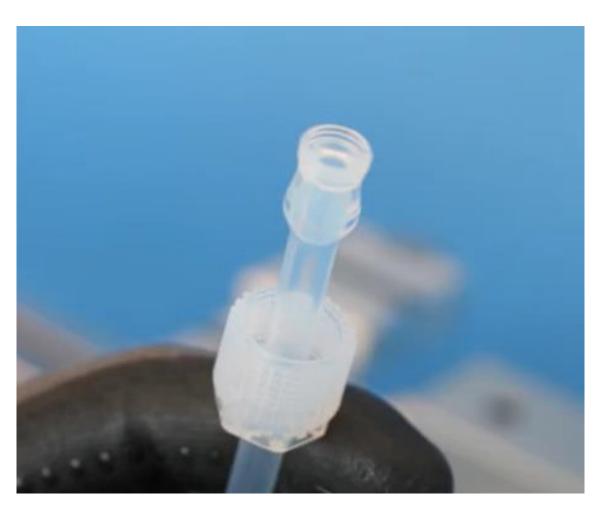
#### **PACKAGING**



Components are packaged in a controlled cleanroom environment, ensuring the highest level of cleanliness and protection against contaminants during the packaging process.

#### PVDF/PP IR FUSION WELDING PFA WITH FITTING SYSTEM





#### PP TANK FABRICATION



## **Expansion Plan**



Acquire larger work space 2 acres



Talent acquisition >50 head counts



Purchase machinery and equipment's

Q4 2023 : Acquired land in Batu Kawan

Q2 2024 : Submission of construction

Q4 2024: Earthworks have been initiated

Q4 2025: Building is officially operational



# Expansion Plan - Y2025 onward

We're excited to announce the acquisition of a 2-acre plot at Penang Science Park North, marking a new chapter in our expansion journey.

This development will pave the way for a state-of-the-art factory, enhancing our production capabilities.

#### Phase 1 totaling 30,000 sqft.

Production: 13,000 sqft

Warehouse: 5000 sqft

Clean Room : 2000 sqft

Office Area: 10,000 sqft



# Questions?

Feel free to reach out to us



# Thank You!

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