# TropicalTech

Top Pleasure
Top Technology

### **SEED OF ORIGIN**

TropicalTech Company Limited (TPT) had established on 2006 under expertise and passionate automation engineers, TPT is the leading System Integrator (SI) as

The Critical Infrastructure & Industrie 4.0 Provider



As slogan

# "Top Pleasure Top Technology"



TPT Aims to GIVE Technical-Technology Knowledge of | RED-CIAs | So-Call | Robotic | Electrical | Digitalization | Control System | Integration | Automation | Security (Cyber) | from Global Mega Projects through Regional Projects around Tropical Zones.

The Benefit of GIVE is

Growth, Innovation, Valuable, Entrepreneurship
to our clients and all stakeholder

### **AREA OF EXPERTISES**

### This is 15 Domain Areas as below







# INDUSTRIE 4.0



- Health Care & Medical Device

- Project Management , Consulting.
- Turn-key and Control System Integration.
- Engineering Design , Software Developed.
- Testing & Commissioning , Implementation.
- Troubleshooting , System Networking.
- On Job Training Service.
- Special Equipment Supply.
- Electrical Drawing / Panel Fabrication.
- Maintenance Agreement Service.
- Control & Automation Business Unit or Outsource Department.

### "TPT'S CAPABILITY"

### DIGITALIZATION 4.0

- Smart Signage
- IIoT Devices

### "TRUST"

To be "Integrated" & "Delivery" the Services to The End User.

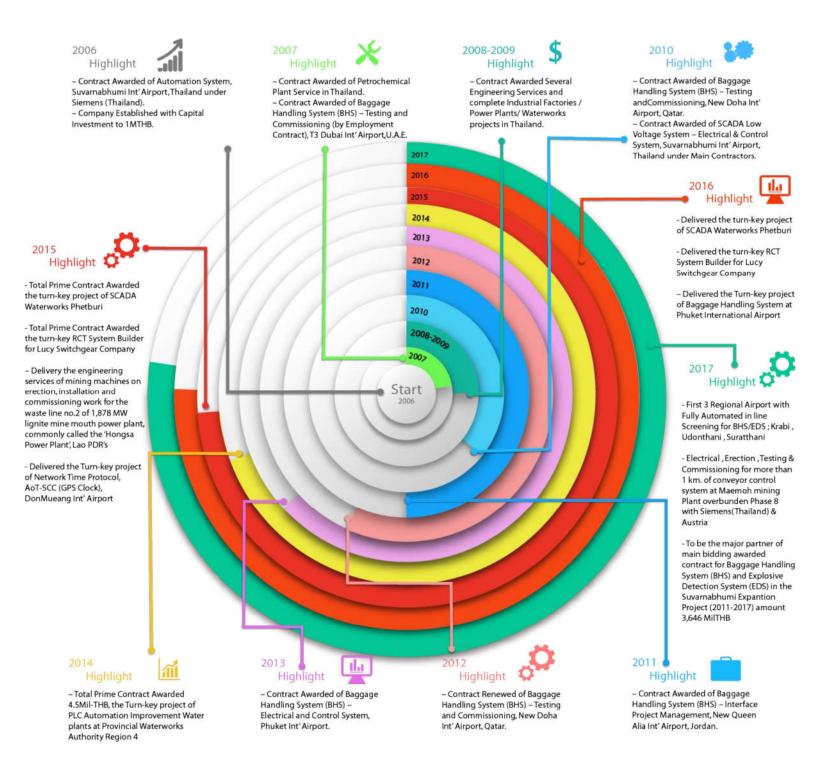


### "FREEDOM"

To Integrate all products for your Machine's Brain.



# **Company Milestone**



### **GLOBAL REFERENCES**



### **Global References**

1. Germany	
2. Romania	
3. Amman,Jordan	
4. Doha,Qatar	
5. Dubai,U.A.E.	
6. China	透影
7. Lao PDR	
8. Vietnam	*
9. Malaysia	
10. Singapore	C
11. Korea	# <b>#</b>
12. Srilanka	[] [明]
13. Austria	
14. Ukraine	
15. Russia	

### **REGIONAL REFERENCES**

(THAILAND)

Region	Service Area
CENTRAL	<b>*</b>
NORTHERN	4
NORTH EAST	-
EASTERN	1
WESTERN	1
SOUTHERN	1





### AIRPORT TECHNOLOGY



- ▶ Donmuang International Airport Supply & Install Self Corrective Clock System.
- ▶ Donmuang International Airport Supply & Install Airfield Lighting Control System





- Phuket International Airport Installed LED-Board System.
- Hatyai International Airport Installed LED-Board System.
- Chiangrai International Airport Installed LED-Board System.



### **PROJECT REFERENCES**

BAGGAGE HANDLING SYSTEM / CATERING.





### ▶ Supply & Installation Electrical & Automation System included Interface & Integration

- Phuket International Airport, Phuket, Thailand
- Dubai International Airport, Dubai, U.A.E.
- Doha International Airport, Doha, Qatar
- Queen Alia International Airport, Amman, Jordan



- ▶ Suratthani International Airport , Thailand
- Udonthani International Airport, Thailand
- ▶ Krabi International Airport , Thailand









### WATER TREATMENT TECHNOLOGY

### Supply & Installation Electrical & Automation System

Metropolitan Waterworks Authority,

MWA: Bangkok, Thailand

Provincial Waterworks Authority,

PWA: All areas, Thailand Royal Irrigation Department

**RID: Flooding Solution, Thailand** 

Siemens Limited

Waterworks project, Bangkok and in Thailand.











### **PROJECT REFERENCES**

### WASTE WATER TREATMENT TECHNOLOGY

- Supply & Installation Electrical & Automation System
- Software Generator and Graphic User Interface work

Metropolitan Waterworks Authority,

WastWater - MWA: Bangkok, Thailand

Siemens Water Technology

WasteWater & Biogas: SMPC-Rayong,

Double A Ethanol - Prachinburi, Siam Michelin - Songkla

Ranhill – Malaysia Wastewater Treatment Company

Recovery Plant from Flood: AmataNakorn, Chonburi.





### **ENERGY MANAGEMENT SYSTEM**



Supply & Installation Electrical & Automation System

Project References:

- ► EnCo : Energy Complex with Advance Building Automation System (A-BAS)
- Thai Health Promotion Organization : A-BAS
- ► Nongjok Futsal Stadium : Lighting Control System.
- ► Imperial Big C Ladprao : Energy Management System.
- ► Mit Phol Plant : Power Management System.



### **PROJECT REFERENCES**

### TRANSPORTATION & LOGISTICS

### ▶ Supply & Installation Electrical & Automation System

# Coverage All Area of Expertise for this project Tunnel Ventilation System (TVS) Heating Ventilation Air Condition HVAC Control System Fire Alarm Fan Control System Recovery /Upgrade Workstation Project Advance Automation Training Testing Commissioning and Maintenance / Operation Supervision







### **POWER PLANTS & MINING WORKS**

### > SCOPE OF WORK is

- ➤ To deliver the erection installation and commissioning work for mining waste line no.2 of 1,878 MW lignite mine mouth power plant, commonly called the 'Hongsa Power Plant'.
- ➤ Hongsa Power Plant will become Lao PDR's highestcapacity power plant, providing a sustainable source of energy for both Laos and Thailand.
- ➤ To deliver the erection installation and commissioning work for mining Mae Mo Power Plant at Lampang Thailand.







### **PROJECT REFERENCES**

**OIL & GAS TECHNOLOGY** 



- ► Oil & Gas Technology.
  - ▶ PTT
  - ► Trans Thai Malaysia
- ▶ Oil & Gas Technology.
  - ► SIL Improvement Project.
  - ► Regenaration Station Chana, Songkla.
  - ▶ Well Trained on QAUDLOG.
- **Expertise for Thailand.** 
  - ► Application: APAC+ /QUADLOG CONTROLLER.

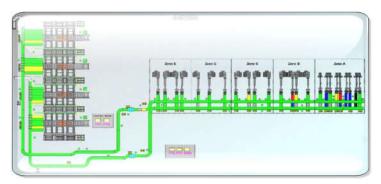




### **FOODS & BEVERAGES**







- Automatic Robot Palletizer.
- Turnkey: Electrical and Control system with fully automatic for common line project in Kraft foods (Modelez), Khon Kaen Plant.
- Combine know transfer from Airport to Factory and Plant.
- Application



### **PROJECT REFERENCES**

### **ROBOTICS & EMBEDDED SYSTEM**







### **Project References:**

**MDLZ**: Khonkaen

► Electrical , PLC Programing and

HMI Programing CPF: Bangkok

► Electrical , PLC Programing and

**HMI Programing** 





### INDUSTRIAL SOLUTION











### **Project References:**

### **RCT - Treatment Plant**

- ► AEGIS Production Line, Lucy Electric, Rayong Thailand Turn-Key Project
- ► Fertilizer Production Line, ICP Fertelizer, Ayutthaya Thailand Design & Consultant



### **PROJECT REFERENCES**

SAFTEY SOLUTION

### Scope of work:

- ► Install and Implement TMSC
- ► Install and Implement IAS
- ► Design System for PTT
- **▶** Design System for AGC
- ► Installation and Implement TOCGC



















# CENTRAL CONTROL ROOM / SCADA OPERATION CENTER

### **Project References:**

► PWA2 : SCADA System Ayutthaya , Thailand

► PWA3 : Built new control room for SCADA System

Phetburi, Thailand

► PWA4 : SCADA System in control room Chumporn , Thailand









### **PROJECT REFERENCES**

### **EDUCATION & TRAINING COURSES**



► Railway : Pilz demo railway

► Solar Lab : System Integrator and Software Analysis

KMUTT University, Bangkok

► Pilz : Training product at Germany

► Vipa : Training new product















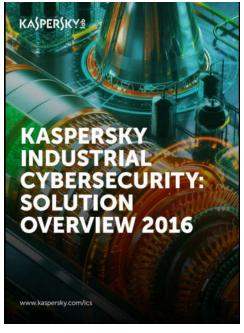
### TOP TECHNOLOGY WITH KASPERSKY LAB



CRITICAL INFRASTRUCTURE & INDISTRIAL CYBERSECURTIY SOLUTION

### As The APAC KICS Technology Partner

- ► APAC Asia Pacific Kaspersky Industrial CyberSecurity (KICS) Leader for Critical ICS (Industrial Control System)
- ► Convergence of IT (Information Technology) & OT (Operational Technology)
- Advance Knowledge & Expertise from Global Player



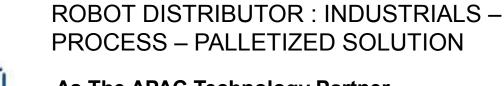


THREAT





## TOP TECHNOLOGY WITH COMAU ROBOTIC





ROBOTICS

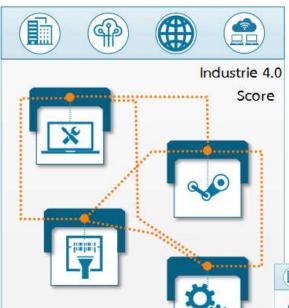
### As The APAC Technology Partner

- ► APAC Asia Pacific Leading Integrated Robotics for Automotive, Continuous Process & Industrial 4.0 Era
- ► Perfectly Synchronized with OpenROBOTICs Technology to your industrial control system





# INDUSTRIE 4.0 DESIGN & IMPLEMENTATION



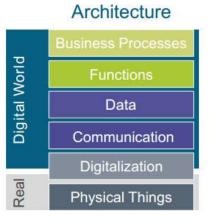
RAMI 4.0: Reference Architecture Model Industrie4.0 Platform

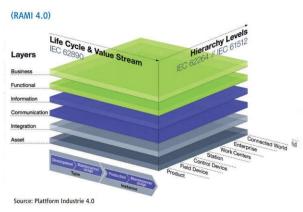
### As is score $10.4 \rightarrow To$ be score 14.0

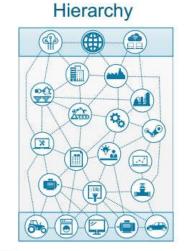
- ► APAC Asia Pacific Partner Industrie4.0 Platform (I4.0)
- ► Integrate RAMI4.0 Standard of Industrie4.0 Platform
- ► Advance Knowledge & Expertise RAMI4.0 tool for IIOT
- & Industrie4.0 Platform by R&D Division Offis, Germany
- ► Apply to be smart Factory & Plan Road Map with ROI



### Reference Architectural Model Industrie 4.0 (RAMI 4.0)







Product Life Cycle

Development, Production / Sales, Service

A Solution Space with a Coordinate System for Industrie 4.0



### **SMART SIGNAGE SOLUTION**

# One-Stop Solution to find the Digital Signage Application



### Ready in a flash



All your devices share the same setting Each new device takes only minutes to install.

### Save Time and Energy



Why Setting Thousands of Signage? CLOUDCAST Controls All Signage with Simple Set-Ups Wherever You Are





### Quality Apps

Quickly add the functions you need from our ever-growing library of apps



### Don't Buy New Devices

CLOUDCAST works with any display with an HDMI port. There's no need to replace your existing display.



### INDUSTRIAL IIOT PLATFORM

# Flexible & Independent Industrial IoT Platforms



### **Simple Connect with your Machines**

- ► APAC Asia Pacific Partner Industrial IoT Platform
- ► Integrate on Cloud, In-house Kit, Mobile App.
- ▶ No invest IoT licenses, be managed by monthly fee.
- ▶ Optional with Hardware IoT Control Units
- ► For smart Factory & Automated is embedded

FLEXIBLE BY DESIGN
HIGH USABILITY &
EMPOWERING USERS
DRAG & DROP

APP BUILDING

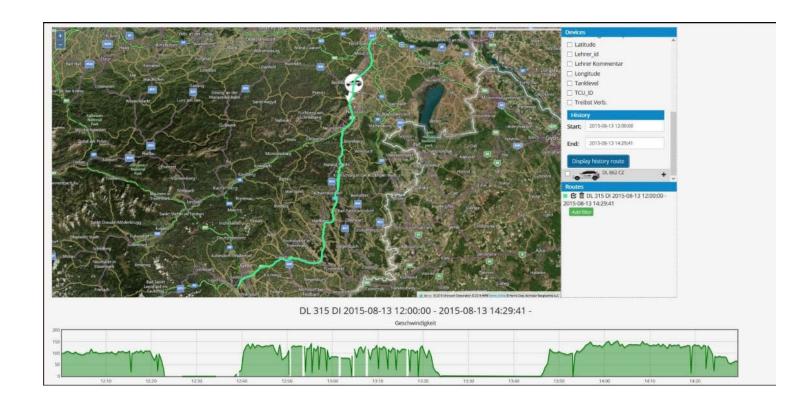


DRAG & DROP AR

INDEPENDENT OF HARD- AND SOFTWARE

HIGHLY SCALABLE

ENTERPRISE DATA VALIDATION NO PROGRAMMING AT ALL SEAMLESS INTEGRATION REAL-TIME BIDIRECTIONAL COMMUNICATION



# **CONTACT US**

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- Phuket Province

