



WELCOME TO

TAN TIEN AUTOMATION

System Integrator for Manufacturing since 1996

EC&I - Electrical, Control and Instrument and Digital



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1. INTRODUCTION



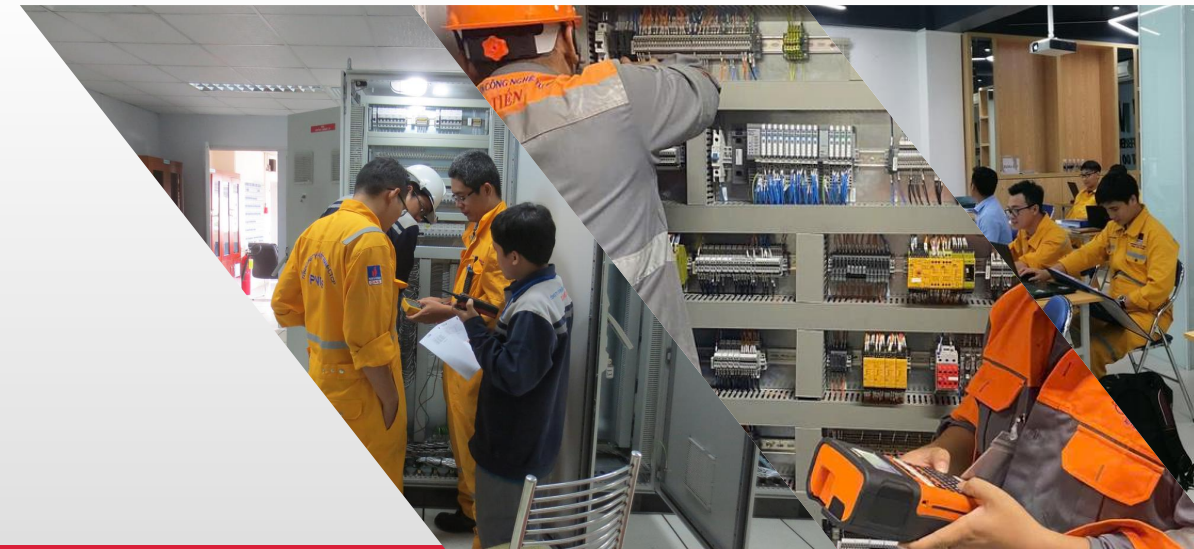
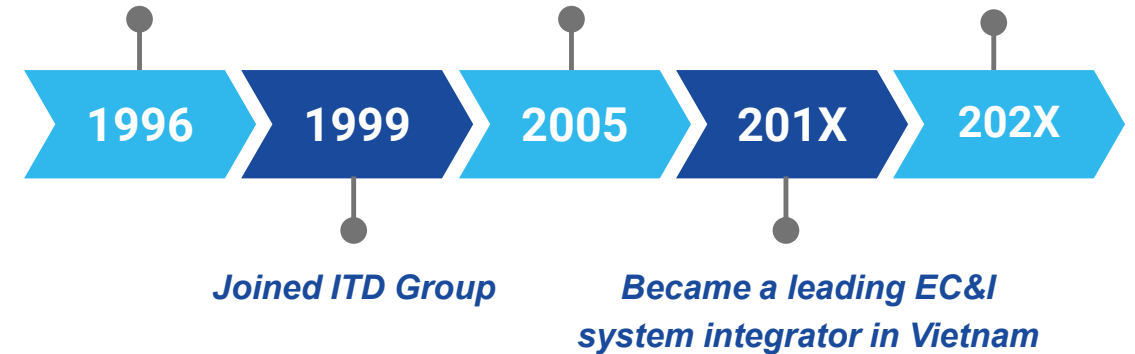
TAN TIEN AUTOMATION TECHNOLOGY CORPORATION (ITD AUTOMATION) was established in 1996 from the Center for Applied Technology in Informatics and Control – CATIC, with a team of formally trained, dynamic, and experienced specialists, engineers, and management personnel who have always earned the trust of customers.

Tan Tien focuses on delivering integrated solutions for electrical, automation, and digitalization systems, and applying the latest technologies in control engineering such as: **IoT, MES, SCADA/HMI, DCS, PLC, BATCH CONTROL, Process Instrument, Motion Control...** for many industries.

Tan Tien Automation Technology Corporation was established

ISO 9001: 2000

Digital Transformation



1. INTRODUCTION

VISION

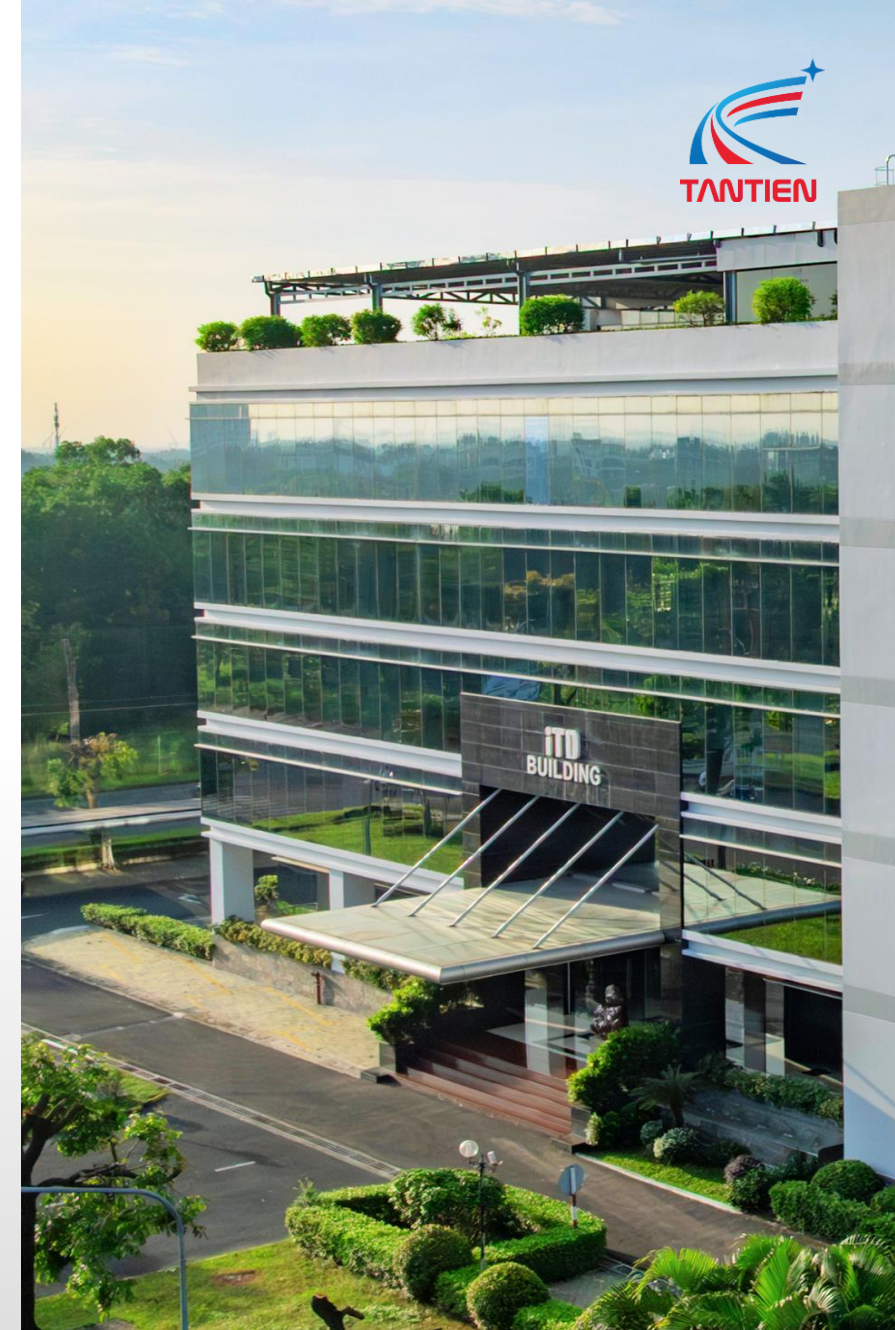
Becoming leader in electrical, instrumentation, automation, and digitalization systems integration.

MISSION

Delivering the best solutions prioritizing customer needs and ensuring success for our team, shareholders, and partners.

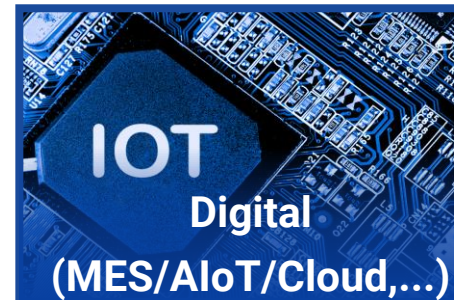
CORE VALUES

- Ambition
- Innovation
- Professionalism
- Success
- Teammate



2. CORE BUSINESS AREAS – SYSTEM INTEGRATION PARTNERS



EXPERTISE	 Instrumentation	 Electrical	 Vision/Sensor	 IOT Digital (MES/AIoT/Cloud,...)	 Control & Process
SYSTEM INTEGRATION PARTNERS	   by Schneider Electric   	    	 	    	  
INDUSTRIES	• Food & Beverage • Consumer/CPG		• Packaging • Oil & Gas		• Materials / Cement • Water & WWT

3. PROJECT HIGHLIGHTS - FOOD & BEVERAGE



PROJECT HIGHLIGHTS - FOOD

Dairy

Dutch Lady Ha Nam, Ha Noi Milk, KIDO,...

Instant Noodles

Masan Hau Giang, Masan Mien Bac, Masan Binh Duong (MSI),

Sauces & Condiments

Masan Industrial

Meat Processing

MeatDeli, Sulmaq,...

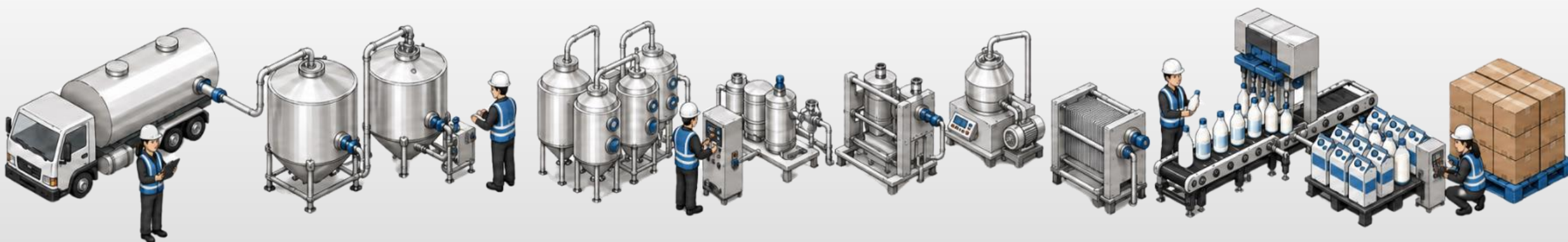
IMPLEMENTED SOLUTIONS

- OT electrical & control systems for production lines.
- Electrical panels, MCC, power cabling, and cable trays/ladders.
- PLC/SCADA programming, integration, upgrades, and monitoring.
- Preweight, Batch and MES, data connectivity, weighing, labeling, barcode, and data collection.
- Automation for material handling, packaging, utilities, CIP, commissioning, and handover.



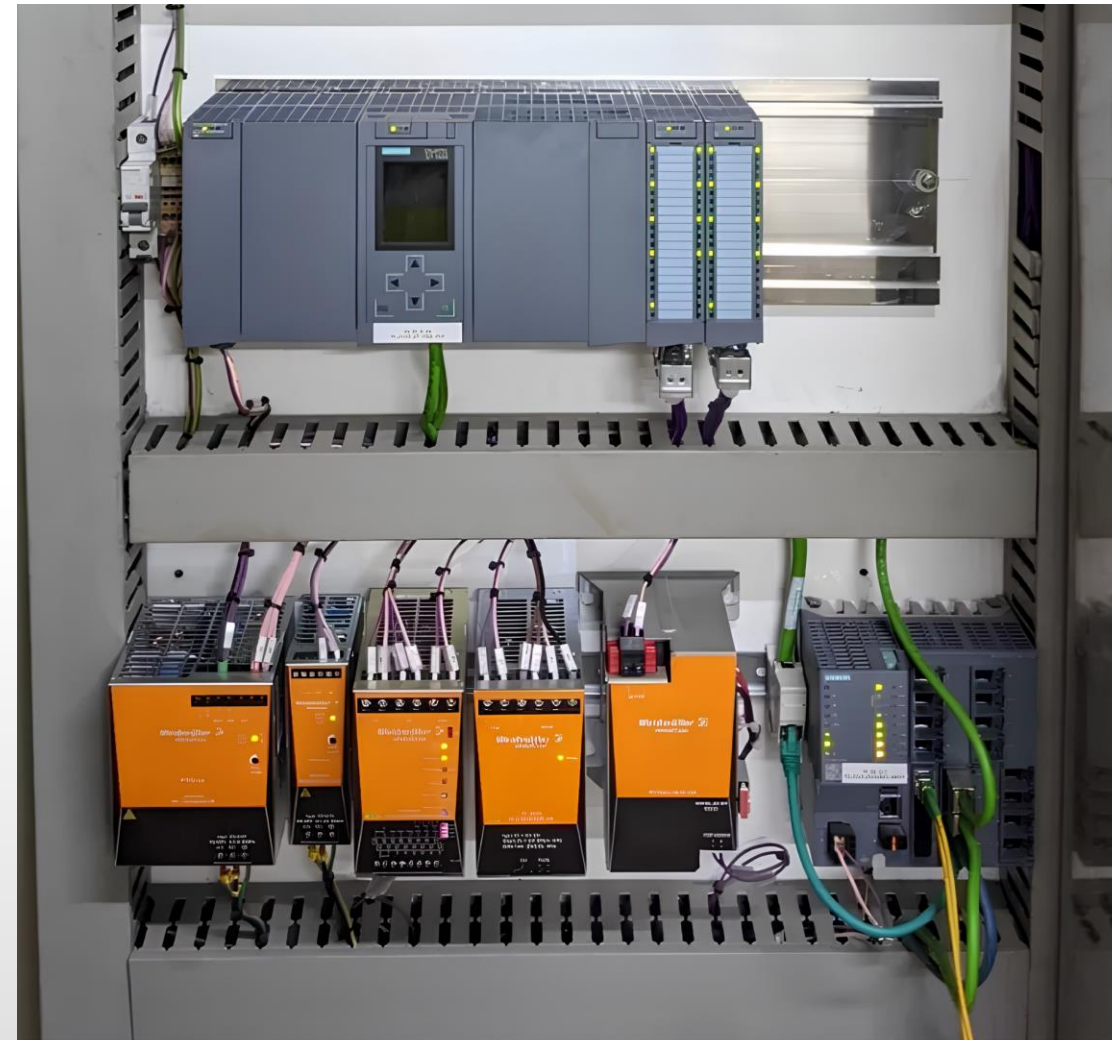
PROJECT HIGHLIGHTS - FOOD (DAIRY)

No.	Client	Project
1	Ha Noi Milk	- Upgrading & Replacing PLC of Pressing Machines from S5 to S7 - Upgrading & Replacing PLC of Can Trunk Welding Machine, Can Bottom Welding Machine, Can Conveyor Belt, Central CIP from S5 to S7
2	KIDO	Supply and installation of control system for yogurt production line
3	Dutch Lady Ha Nam	- Upgrade of IPM system for utility area monitoring at the factory - Supply and installation of Building Automation System – BAS



PROJECT HIGHLIGHTS - FOOD (DAIRY)

CASE: UPGRADING THE PLC SYSTEM FROM S5 TO S7 – HA NOI MILK



PROJECT HIGHLIGHTS - FOOD (DAIRY)

CASE: SUPPLY AND ENGINEERING CONTROL SYSTEM FOR YOGURT LINE - KIDO



PROJECT HIGHLIGHTS - FOOD



Plants

- Masan Binh Duong (MSI)
- Masan Hau Giang
- Masan Mien Bac
- Masan Nghe An

Production Lines

- Fish Sauce Line
- Chili Sauce Line
- Soy Sauce Line
- Instant Noodle Line

IMPLEMENTED SOLUTIONS

- Relocate and re-assemble the manufacturing line
- Design, supply, and implementation of automated production lines
- Development and implementation of OEE system
- Development of manufacturing support software, including product traceability, data acquisition, and related functions.
- AIT Smart Pre-Weighing
- Batch management
- IT-OT / IoT Integration
- Data Collection and Data Connectivity
- Real-time production monitoring
- Development and implementation of Vision Inspection system in the packaging area to monitor quality and automatically reject non-conforming products.



PROJECT HIGHLIGHTS - FOOD

CASE 1: FISH SAUCE PRODUCTION LINE – MASAN

Turnkey E&I solution for Fish Sauce Production Line 1,2,3

- SIMATIC PCS7 V7.1
- SIMATIC BATCH V7.1
- CPU 416-3 (3 lot)
- WORKSTATION IPC 547C (3 lot)
- MP 377 15" Touch
- SITRAN (100 Set)
- MICROMASTER 430

Dismantling, relocation, assembly, integration, and upgrade of the electrical and control systems for Fish Sauce Production Line 3.

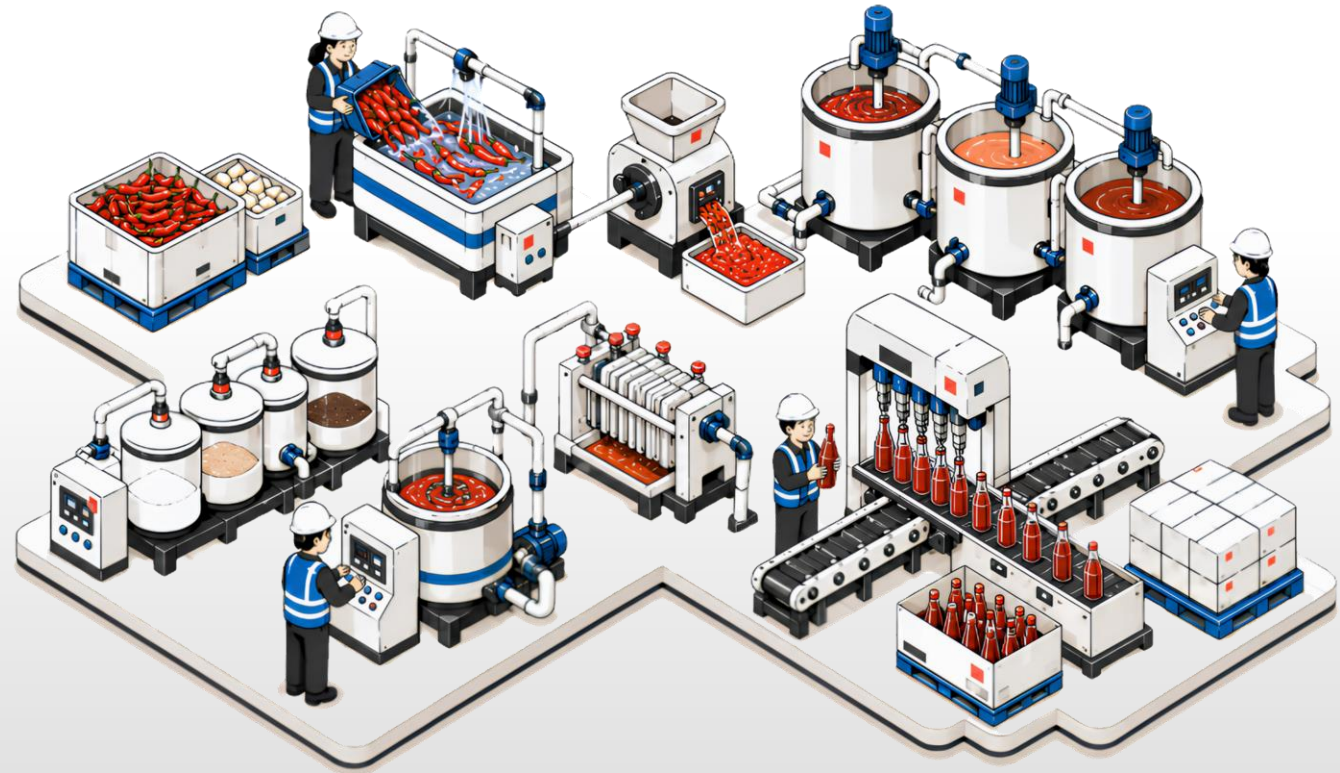
- Aveva System Platform
- TIA Portal
- CPU: S7 1518
- HMI TP900 Comfort
- HMI KTP900 Basic PN
- SINAMICS G120C
- Mettler Toledo Weight



CASE 2: CHILI SAUCE LINE – MASAN

Upgrade and integrate the control system for chili sauce line

- PCS7 Batching V8.0
- PCS7 OS Software
- PCS7 RT LICENSE AS
- Siemens S7-400
- HMI KP1500 COMFORT
- SCALANCE X208
- SINAMICS G120



CASE 3: NOODLE LINE – MASAN

Upgrade Automation and OT-IT Data Integration to MES for Noodle Line

- Upgrading current control system (AB Compact Logic, ABMicro 800, VFD Power Flex)
- Centralize SCADA
- OT-IT Data Integration (FT Optix)



PROJECT HIGHLIGHTS - FOOD (MEAT PROCESSING)

CASE: SUPPLY LABEL PRINTING AND WEIGHING SYSTEM - MEATDELI
HA NOI



PROJECT HIGHLIGHTS – BEVERAGE

Brewery

Heineken Vietnam, Phu Yen Beer,...

Non-Alcoholic Drinks

Coca-Cola Vietnam, Red Bull Vietnam,
Vinh Hao Mineral Water JSC,...

Coffee

Nestle, Vinacafe Bien Hoa, Masan,...

IMPLEMENTED SOLUTIONS

- Electrical & automation systems for production lines and processes
- PLC/SCADA programming, integration, upgrades, and monitoring
- Control system migration and integration with existing systems
- Process control for tanks, vessels, and production equipment
- Utility monitoring, safety systems, commissioning, and handover



PROJECT HIGHLIGHTS - BEVERAGE (BREWERY)

CASE: NH3 LEAKAGE DETECTION & SAFETY SYSTEM - HEINEKEN



- iFix
- PLC: CPU 300
- PLC: ET200M
- Festo Pneumatic
- Honeywell Sensor/Detector

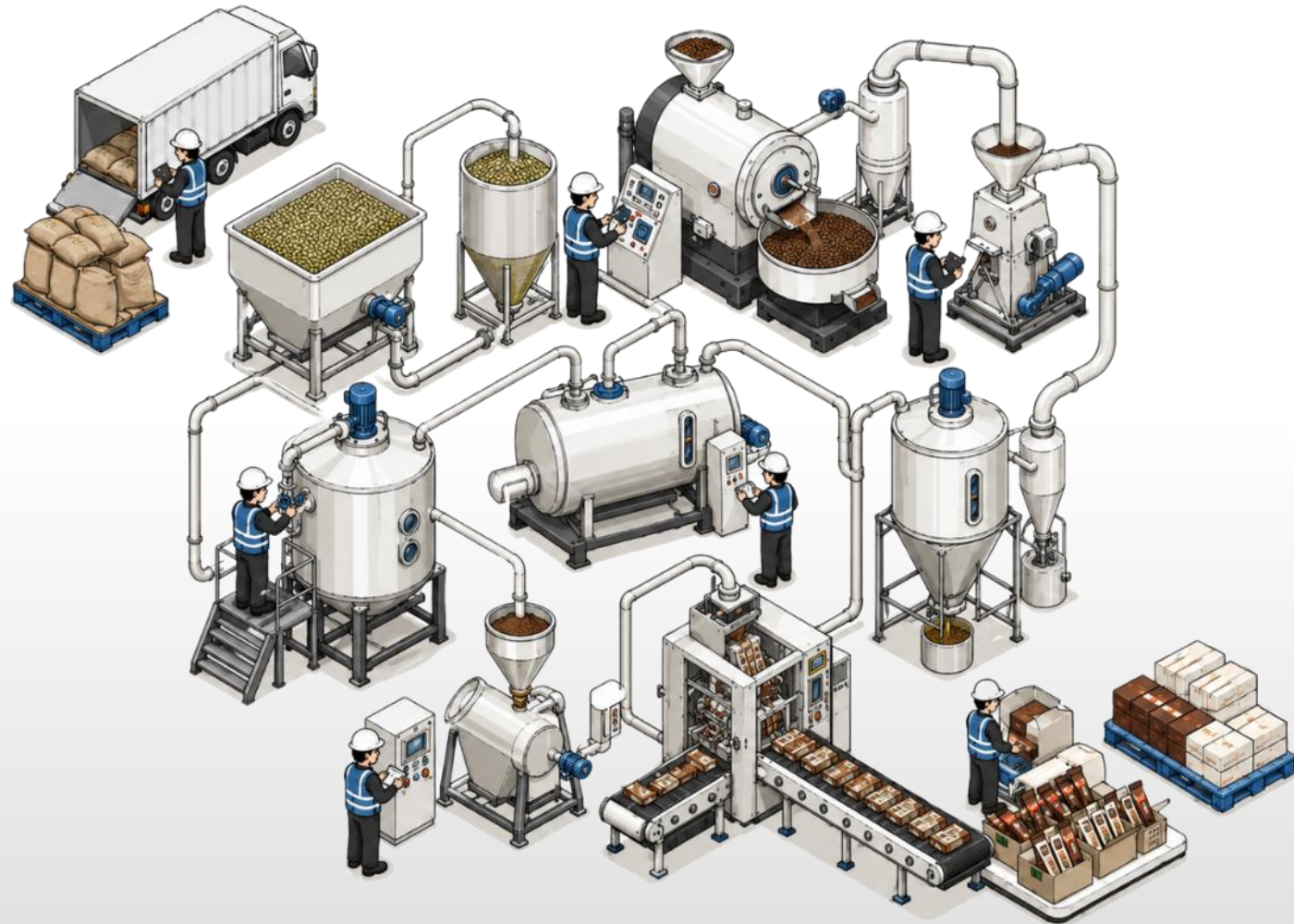


PROJECT HIGHLIGHTS - BEVERAGE (COFFEE)

CASE: UPGRADE AND INTERGRATE THE CONTROL SYSTEM FOR CSD - MASAN



- Wonderware
- Siemens S7-1500
- Siemens ET-200S
- TP900 Comfort
- SINAMICS G120
- Baumer Instrument
- Festo Pneumatic



PROJECT HIGHLIGHTS - BEVERAGE



Nestle Viet Nam

Systems Covered

- Automatic Control System
- Electrical Panel Integration System
- Chiller and Cooling System
- Evaporator System
- Heat Recovery System
- DI-EA Process / Utility Systems

IMPLEMENTED SOLUTIONS

- Design, supply equipment/materials, and deliver electrical panel integration services for Diana project
- Providing design and programming services for the Automatic Control system for Barista at Nestlé Tri An Factory
- Design, install and automation programming of "Chiller and Cooling", "Evaporator", and "Heat Recovery" system



PROJECT HIGHLIGHTS - BEVERAGE (COFFEE)

CASE: DIANA PROJECT_E&A INSTALLATION-FD PROCESS AND PANEL - NESTLE



Design, supply of equipment, materials, and technical services for electrical panel integration for the Diana Project, including:

- Di-EA – Extract Handling Aroma Tank
- Di-EA – Particulation
- Di-EA – Pre-Chilling
- Di-EA – VAX
- Di-EA – Refrigeration

Complete system design and configuration

Preparation of documentation and detailed drawings

FAT (Factory Acceptance Test), SAT (Site Acceptance Test)



PROJECT HIGHLIGHTS - BEVERAGE

CASE: PROVIDING DESIGN AND PROGRAMMING SERVICES FOR THE AUTOMATIC CONTROL SYSTEM FOR BARISTA - NESTLE TRI AN FACTORY



- Supply of electrical panels, control equipment, instrumentation, cable trays, and related materials.
- Complete system design and configuration.
- Preparation of process description documents based on the process design.
- Development of detailed drawings and software drawings.
- System installation, design, and programming.
- Factory Acceptance Testing (FAT) and Site Acceptance Testing (SAT).
- Commissioning, operator training, and technology transfer.



PROJECT HIGHLIGHTS - BEVERAGE

CASE: ELECTRICAL AND CONTROL SYSTEM FOR CHILLER AND COOLING, EVAPORATOR AND HEAT RECOVERY



- Supply of equipment and materials.
- System design, drawings, and complete configuration.
- Electrical panel installation.
- System programming.
- Factory Acceptance Testing (FAT) prior to delivery.
- Site Acceptance Testing (SAT) prior to commissioning.
- System inspection, commissioning, and handover.
- Operational, maintenance, and system upkeep training, including technology transfer.



PROJECT HIGHLIGHTS - FMCG



PROJECT HIGHLIGHTS - FMCG



Plants

Unilever Viet Nam

Unilever Cu Chi

Systems Covered

Home Care Liquid

Personal Care Liquid

Feeding System

Transfer System

Mixing System

Batch Control System

Post Dosing Area

IMPLEMENTED SOLUTIONS

- Installation and programming of transfer line, hopper, and supporting production equipment.
- Control system integration for feeding, transfer, and material handling processes.
- Automation support for production and internal transfer processes.
- PLC/control programming for production equipment.
- Commissioning and operational support.



PROJECT HIGHLIGHTS - FMCG

CASE: HOME CARE LIQUID – UNILEVER



Turnkey C&I solution with PCS 7 for HCL automated batch control – Phase 1 & 2

Batch PCS7 V7.1

Batch PCS7 V8.0

PLC: CPU 416



PROJECT HIGHLIGHTS - PACKAGING



PROJECT HIGHLIGHTS - PACKAGING



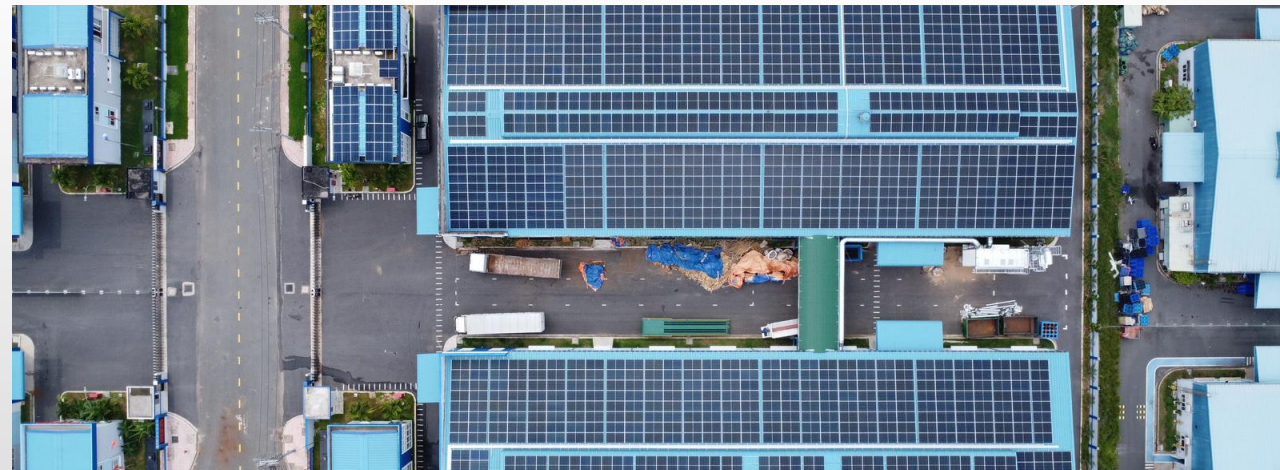
Greenovation Packaging Factory 68–69

Systems Covered

- Electrical Power System
- Power Distribution System
- Protection System
- Cable Tray System
- Rooftop Solar System

IMPLEMENTED SOLUTIONS

- Supply and installation of electrical power, distribution, protection, and cable tray systems.
- Integration of rooftop solar power system.
- Power supply for technology loads, including the Hot Oil Stove area.



CASE : ELECTRICAL POWER SYSTEM – GREENOVATION PACKAGING

Electrical power system for Factory 68–69 with rooftop solar integration and Hot Oil Stove power supply



Solar system at the factory



DB-MSB.68 Panel



Power supply installation according to design



CASE : TETRAPAK

Supply and Installation of Electrical Control and Pneumatic System for 16 Tanks



PROJECT HIGHLIGHTS - OIL & GAS



PROJECT HIGHLIGHTS - OIL & GAS

Cai Mep Port, Ba Ria - Vung Tau

- Receiving capacity: up to 3 MTPA
- LNG storage tank: 180,000 m³

IMPLEMENTED SOLUTIONS

- Field Instrument Package
- Electrical Equipment Package
- Control and Safety Package
- LNG Reservoir Heating System
- Accessory Package: Termination, Glanding & Connection



PROJECT HIGHLIGHTS - OIL & GAS

CASE: HAI LINH – AG&P – CAI MEP LNG



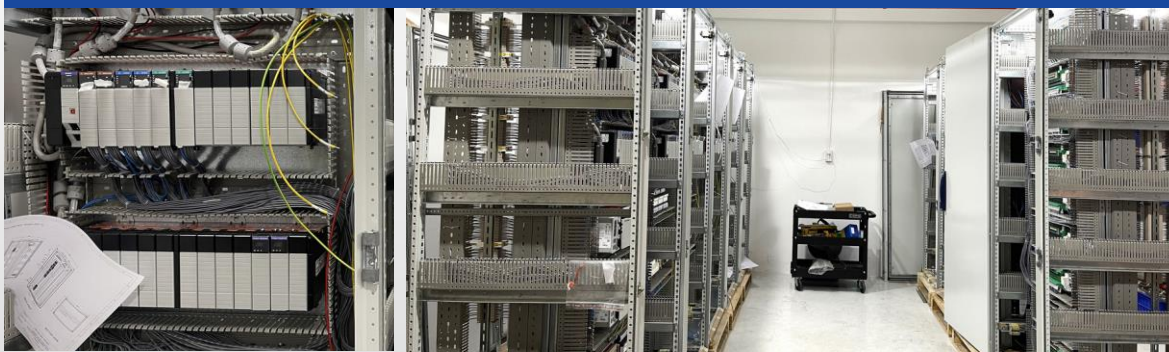
Instrumentation, Electrical, SCADA, and ICSS



SCADA Center



ICSS Control Cabinet Room



Electrical Cabinet Room



PROJECT HIGHLIGHTS - OIL & GAS



- BSR / Petrovietnam Refining and Petrochemical Corporation
- PV Gas Services
- PV Power NT2
- PVGAS Ca Mau
- PVGAS

IMPLEMENTED SOLUTIONS

- Upgrade Siemens PLC control system for the compressor.
- Upgrade PLC control systems for valves.
- ICS upgrading for GDC Nhon Trach.
- Upgrade PLC and HMI for generators at GPP Factory.
- Supply materials, equipment, configuration, and control system integration.
- Provide Siemens PCS7 training.
- Fix ICS system and add I/O card redundancy for SSD & F&G.



PROJECT HIGHLIGHTS - OIL & GAS

CASE:



Binh Son Refinery: PLC systems for compressors and valves



PVGas Ca Mau: DCS training



Premium Oil: Control systems for boilers and fine filter Unit Control Panel / UCP



PV Power Nhon Trach 2 Thermal: ControlSystem



PROJECT HIGHLIGHTS - MATERIALS/ CEMENT



PROJECT HIGHLIGHTS - MATERIALS/ CEMENT



Cement

VICEM Ha Tien, VICEM Hai Van, INSEE,...

Building Materials

Saint-Gobain,...

IMPLEMENTED SOLUTIONS

- Design and implementation of automation control systems.
- Supply, installation, and upgrade of PLC / PCS 7 systems.
- CEMAT system integration for cement production lines.
- Supply of electrical equipment, control devices, and S7-400 CPU
- Removal of existing systems, installation, and migration to new systems
- Configuration of Engineering Station, Operator Station, Client Station, and Automation Station



PROJECT HIGHLIGHTS - MATERIALS / CEMENT

CASE: VICEM HA TIEN



- Supply and installation of PLC system for cement grinding station using PCS 7.1 and CEMAT V7.0
- Design of automation control system for cement grinding line
- Supply of electrical equipment, control devices, and S7-400 CPU for PCS 7 / CEMAT control room
- Removal of existing system and installation of the new system



CASE: PROVIDE CONTROL SYSTEM - VICEM HAI VAN



- Migration POLCID DC Software to CEMAT Engineering Software for Hai Van Cement Factory (Cement Manufacturing Plant)
- Upgrading VMEAX 400 Controller to AS 416-2 Automation System
- One ES: PCS 7 ES Software, CEMAT Engineering Software
- One Client Station
- Two AS Station with AS 416-2 Automation System



CASE: INSEE (EX HOLCIM)



Upgrading SCADA Systems (CEMAT V3 → V6) at CAT LAI Mill Station

- 3 PLC SIMATIC S5-155, SIMATIC Net Profibus-DP, Profibus H1 Net
- 7 Remote I/O cabinet
- SCADA 40S, 1ES
- SIMATIC PCS7 V.6
- CEMAT V.6, Migration Tools CEMAT V.3 to CEMAT V.6 (Siemens)



PROJECT HIGHLIGHTS - MATERIALS / CEMENT

CASE: SAINT GOBAIN



PROJECT HIGHLIGHTS - WATER & WWT



PROJECT HIGHLIGHTS - WATER & WWT



- Kanh Dong Water
- DOWACO – Nhon Trach Water Treatment Plant

IMPLEMENTED SOLUTIONS

- Supply of electrical, control, and instrumentation systems.
- SCADA/DCS integration for operation monitoring and control.
- Integration of PLC/RTU, control cabinets, and communication systems.
- Data acquisition, equipment status monitoring, and centralized operation support.
- Configuration of operator stations, engineering stations, and redundancy systems.
- Supply of instrumentation, analytical devices, and industrial network infrastructure.



PROJECT HIGHLIGHTS - WATER & WWT

CASE 1: PROVIDE ELECTRICAL AND CONTROL SYSTEM FOR KENH DONG WATER SUPPLY PLANT 300,000 M³/DAY



Total I/O points: 4,000 I/O.

Hardware:

S7-300, CPU 315-2PN/DP (7 SET), 7 RTU STATION, 1 OS, 3 ES, SITRANS 40 SET, SCALANCE X202

Software:

- Step7 Prof ED2006 powerpack
- WINCC/SERVER V7.0
- WINCC/REDUNDANCY V7.0
- WINCC SOFTWARE V7.0 SP2



PROJECT HIGHLIGHTS - WATER & WWT

CASE 2: TURNKEY E&I SOLUTION USING DCS (ABB 800XA) FOR NHON TRACH WATER TREATMENT PLANT WITH A CAPACITY OF 100,000 M³/DAY



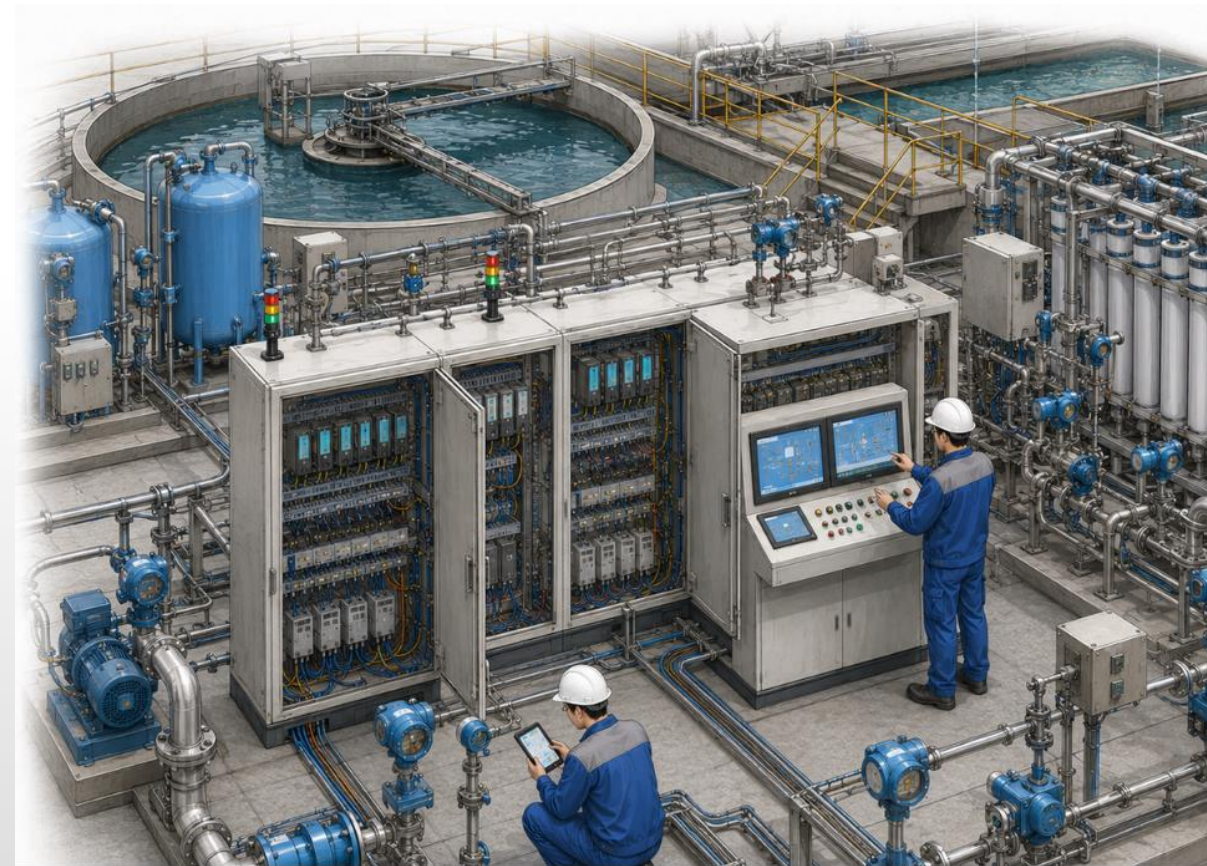
Total I/O points: 2,500 I/O.

Hardware:

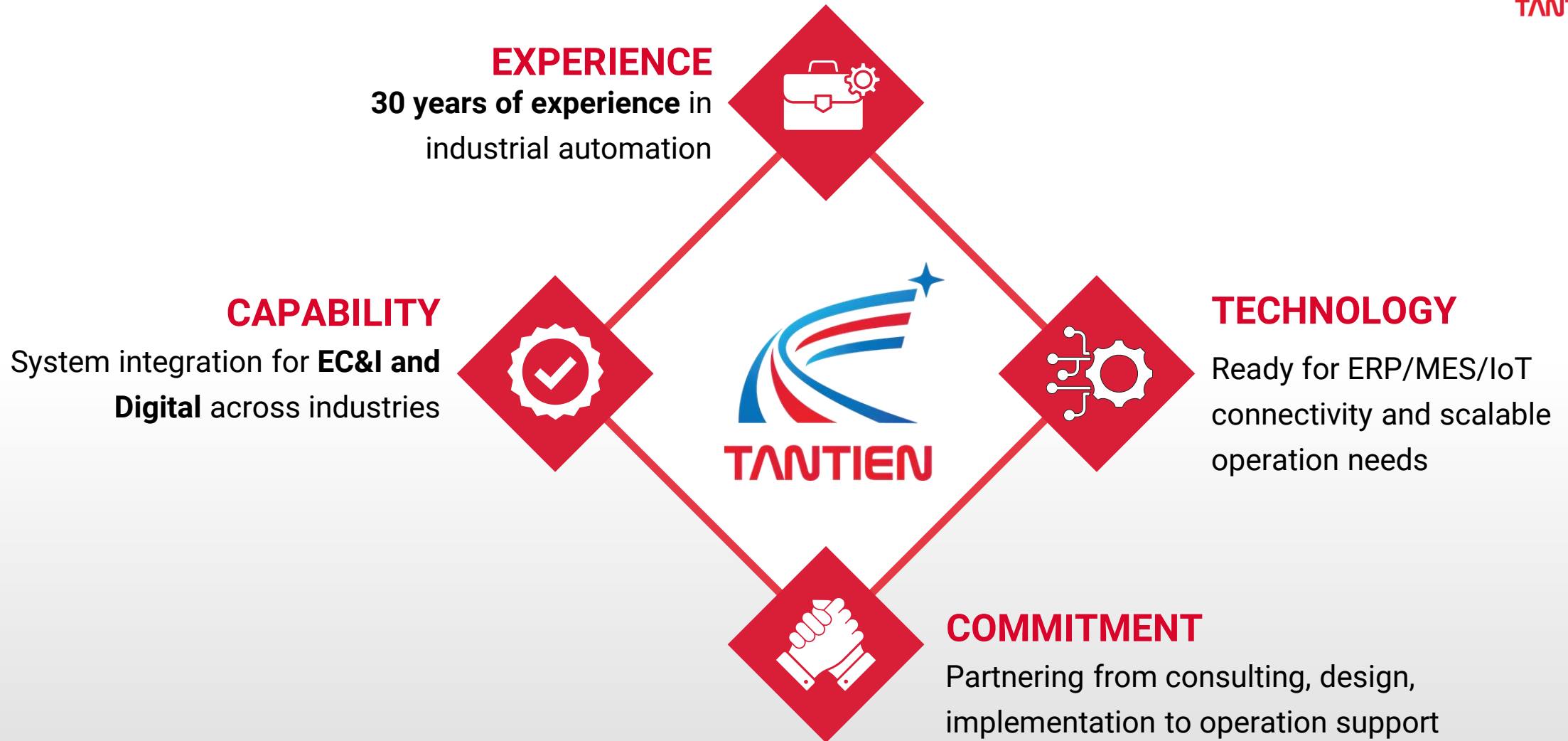
ABB AC800M(7 SET), ABB AC700F (4 SET), ABB AC500 (1 SET), 2 Server Redundancy, 7 OS with large screen, 1 ES, 2 RTU station with distance 40km

Software:

- ABB IT 800xA V5.1
- ABB Freelance V9.2



4. WHY CHOOSE TANTIEN



5. OUR CLIENTS





THANK YOU



WEBSITE

<https://tantien.com.vn>



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