



**Fuelling progress through
Technological Excellence
and Domain Expertise.**

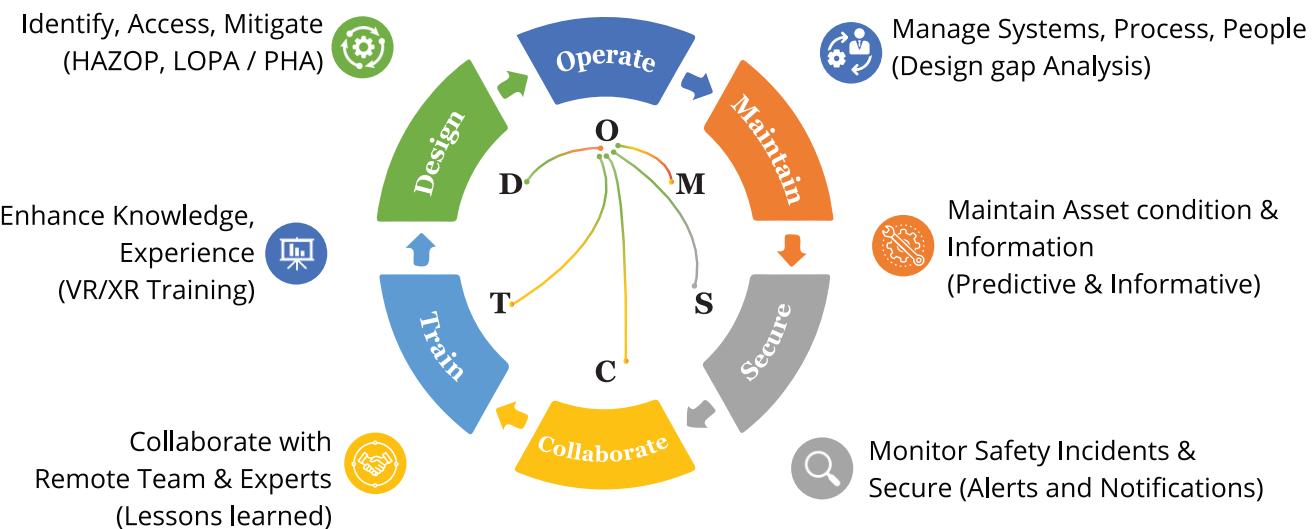
IC Pro Solutions is a leading solutions provider company for Oil & Gas Industry with Automation & Digitalization services which improves operational efficiency, safety and security. More than a decade IC Pro has provided Automation & IT services with Instrumentation, Safety, Control and Software products & solutions to our global clients spanning Asia Pacific, Middle east, Europe and America. Our key focus is to empower our customers with customized turnkey services and business solutions through state-of-the-art technology.

Our portfolio of solutions and services include FEED and Concept development, detailed engineering, system design and development, procuring and fabricating the systems including cabling, system integration, application software development programming, installation, FAT, on-site commissioning, after sales support.

We at IC Pro, assure you Innovative & value-added products and services to embrace digitalization in your business for enabling easier and effective decision making based on critical data available.

OSIM-Operational Safety & Integrity Management

Prudent Decision Making for Operational Excellence



Alarm Information Management System (AIMS)

- "Alarm Helper" assist to manage the alarms with best practices
- Identification of Cause, Consequence and Response for each Alarm
- Avoid alarm flooding by reducing duplicate, bad actors, and chattering
- Alarm Reports - KPI, Incidents, Events, History, Diagnostic
- Alarm / Event notifications using SMS, Email based on severity
- Helps to rationalize the Alarms to ensure regulatory compliance

The AIMS system architecture is centered around a central node labeled "AIMS", which is connected to several peripheral components:

- Data Analysis
- Dashboard and Reports
- Rationalization Tools
- Verify against Standards
- Operator guidance messages
- Schedule Email Reports
- Connectivity to Various System and Protocol

Three screenshots of the AIMS user interface are displayed:

- System Name : Boiler 1, Main Gear Component, ICBS**: A dashboard showing quarterly reports for September 2023. It includes a table for Alarm Rate Per Operator Position (Avg / Day) and Trended Average Daily values, and a chart for Top peak 10 mins.
- Top 20 Bad Actions of the Day**: A chart showing the top 20 bad actions recorded on 12-Jan-2017 at 06:00:00.
- Shift wise Alarm Distribution**: A chart showing the distribution of alarms across different shifts on 12-Jan-2017 at 06:00:00.
- Alarm Details of 25-IV-0723, RH**: A detailed view of alarm information, including purpose of alarm, consequences, priority determination matrix, and operator response.
- Table of consequences**: A table showing the relationship between health, environment, financial, and value categories and their corresponding colors.
- Priority determination matrix**: A matrix for determining alarm priority based on immediate, prompt, soon, and notification levels.



Process Safety Module (PSM)

- Current risk analysis based on design, Inhibits, Proof test, ranking
- Monitor, compare and track the Safe Operating Envelop parameters
- Realtime monitoring of Cause & Effect, Inhibit, SIF loops
- Enhance Barrier management by design gap analysis (Bow-Tie, PHA/LOPA)
- Generate reports - SIF activation, Proof test, Actuator response
- Ensure functional safety management compliance (IEC-61511, IEC-61508)



Asset Information Management

- Better Operational visibility using 3D mapped Equipment Walkthrough
- Integrate with realtime data to show the Physical twin of Assets
- Direct access to P&ID, design & operational documents from the 3D model
- Centralized management of Asset inspection, planning, and execution
- CMMS integration for better management of MOC & Work orders
- Standards followed using Physical Asset Information model of ISA



OSIM-Operational Safety & Integrity Management

Asset Collaborate:

- AR/XR based Remote collaboration with an expert for emergency assistance
- Global support / connections of experts with real-time exchange of Data
- Increase availability of an expert and reduce time and cost of site visits
- Records of breakdown calls and support executed for historical analysis
- Accessing instruction manuals, operating procedures (SOP/EOP) and sharing
- VR based immersive training on Emergency responses / procedures / Drills

The grid displays eight screenshots of the OSIM interface, each showing a different aspect of remote collaboration and emergency operations:

- Top Left:** A login screen with a user icon and the "icPro" logo.
- Top Middle:** A "Data References" section for Mumbai, Singapore, and Kuala Lumpur, listing "Reference documents", "Reference videos", "Floor plans", "Site plan", "SOPs", "EOPs", "Inspection details", and "Interactive EOPs".
- Top Right:** A video call interface showing a smiling man wearing a headset, with a green overlay button labeled "Share".
- Second Row Left:** An "Emergency Operation Procedures" section for HVAC, UPS, Generators, Chillers, ATS, and FEEDER SECTION, displaying a table of procedures.
- Second Row Middle:** Another "Emergency Operation Procedures" section for the same categories, showing a similar table.
- Second Row Right:** A "Emergency Operation Procedures" section for HVAC, UPS, Generators, Chillers, ATS, and FEEDER SECTION, featuring a 3D model of a building's HVAC system.
- Third Row Left:** An "Emergency Operation Procedures" section for HVAC, UPS, Generators, Chillers, ATS, and FEEDER SECTION, showing a large industrial control panel.
- Third Row Middle:** An "Experts Available" section showing a grid of 12 expert profiles.
- Third Row Right:** An "Emergency Operation Procedures" section for HVAC, UPS, Generators, Chillers, ATS, and FEEDER SECTION, showing a video feed of a person working on equipment.

Asset Guard

- AI based Realtime detection, alerts, and notifications of safety incidents
- Monitoring lone worker for live movements, fall and safety gear compliance
- Perimeter monitoring and alert for high-risk zone / areas
- Fire & Smoke detection and realtime alerts
- Alert History with captured image and videos along with analytic report
- Provides security intelligence reports and helps in compliance audits

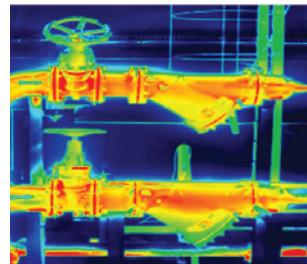
Worker Fall Detection



People Count



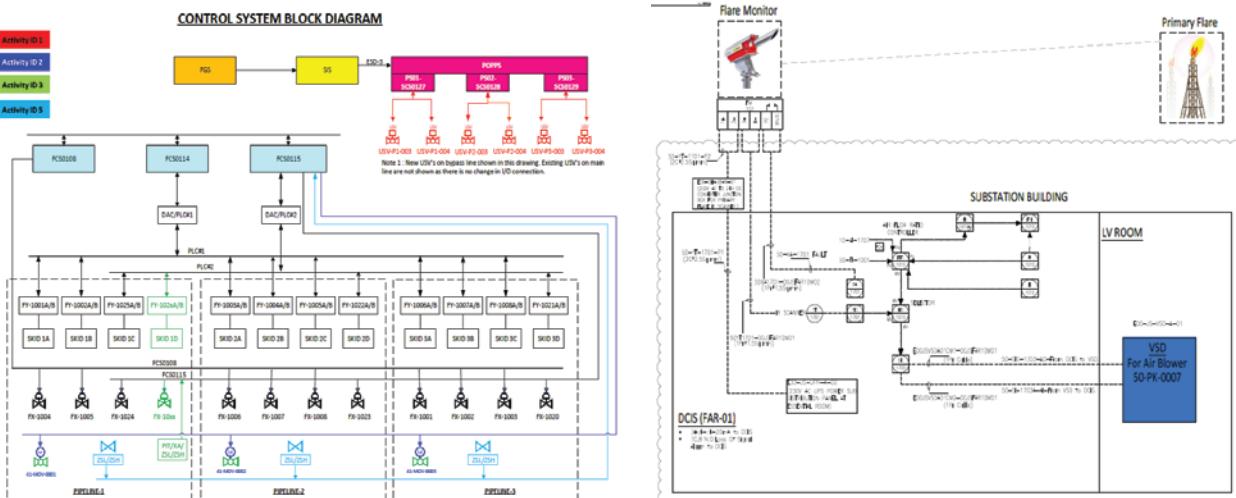
Fire & Smoke Detection



Facial recognition

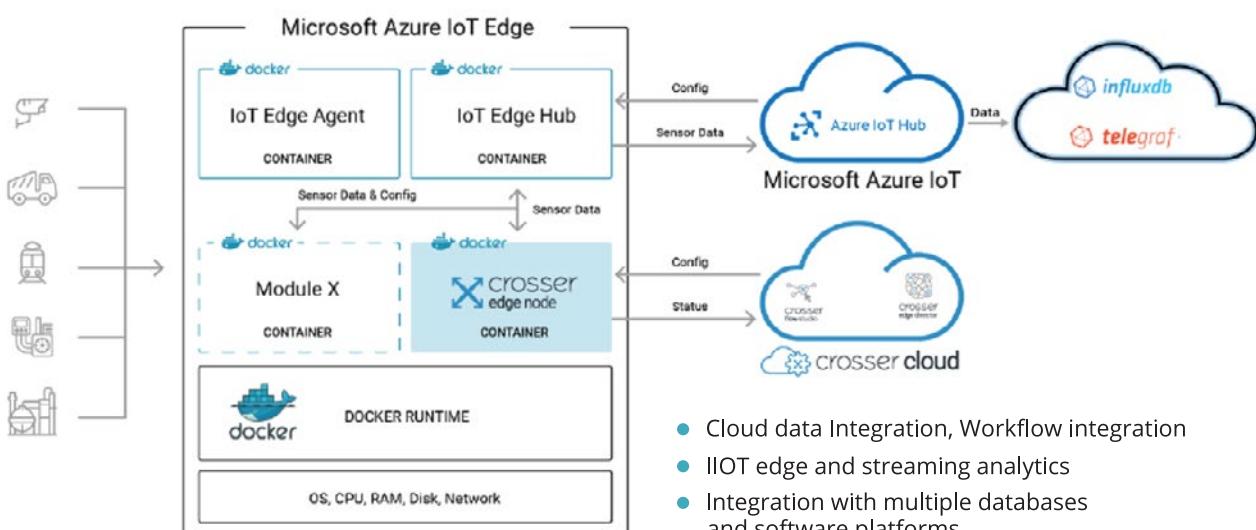


I&C Conceptual Study, Feasibility Study, FEED and EPC – LNG Regasification Terminal

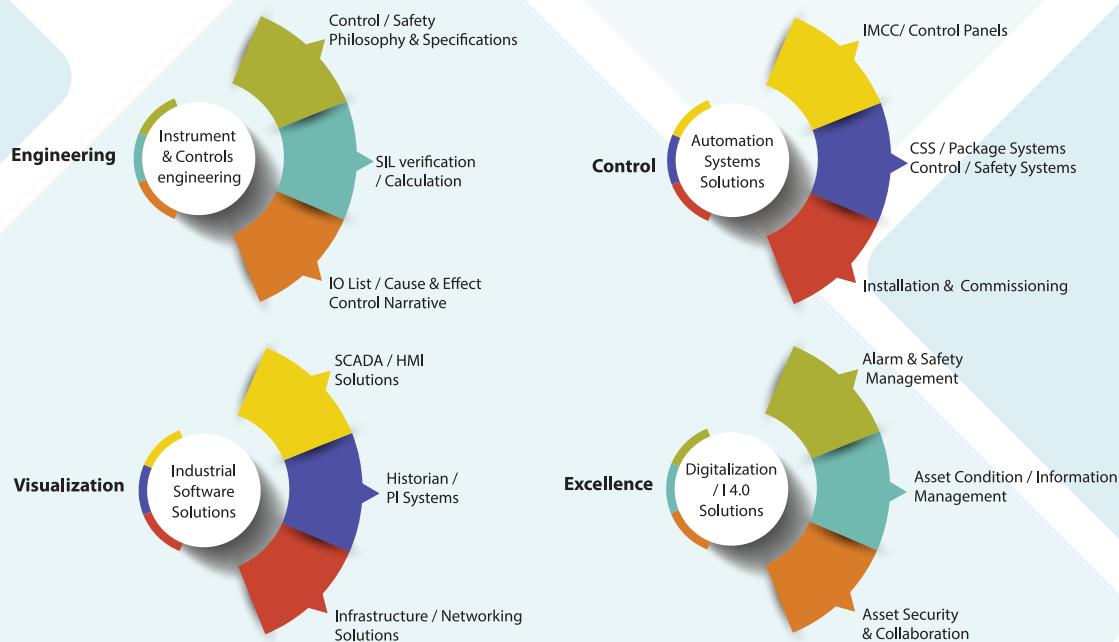


Preparation of various design and procurement documents including Specification, I/O List, Instrument Index, C&E, Block Diagrams, Wiring Diagrams, RFQ for Instruments & ICSS, Technical Bid Evaluation and vendor management, etc.

IIOT – Realtime Streaming Analytics & Monitoring



Engineering / Solutions / Products



Automation Systems & Solutions

Control & Safety Systems:

- Systems supported: Rockwell, Siemens, Schneider & Honeywell

Data Acquisition, Monitoring & Reporting:

- Software supported: PCS7, WINCC, FTView SE, Wonderware Intouch, Ignition, Intellution I-Fix, NI Labview

Inspection / Identification / Quality Systems

- Inspection Systems (Vision / Laser systems), Asset / Inventory Management / Tracking systems
- Product Quality testing (End of Line Testing / Controller / Control Panel testing)

Industrial Software

- Process Historian – PI Historian, FT Historian, SIMATIC Process Historian, Wonderware Intouch Historian
- Batch Management solutions – Simatic Batch, FT Batch, Wonderware InBatch

Manufacturing

Control / MCC / Pneumatic / Hazardous area Panels:

- Design, Manufacturing, Assembly, Integration Testing, Installation & Commissioning Electric / Pneumatic panels

Digitisation Solutions

Accelerate your Digital Transformation:

- Using an integrated approach, applying IIOT, AI, AR based DigitalTwin, Asset Information Management, Operational Safety and Integrity Management and AR/VR based training



IC Pro Solutions Pvt. Ltd.
INDIA +91 80 29723300
 sales@icpro.in
 www.icpro.in

IC Pro OG Technologies Pte. Ltd.
SINGAPORE +65 69098734
 ogsolutons@icpro.sg
 www.icpro.sg

Himatrix Middle East Fzco
DUBAI +91 80 29723300
 sales@himatrix.com
 www.himatrix.com

IC Pro Americas Inc
USA +1 832-654-6709
 ussales@icprousa.com
 www.icprousa.com