

# Industrial Automation & IT 1/3

Turnkey design and implementation of control systems for the process, environmental, energy and nuclear industries in Brownfield and Greenfield projects.

Industrie 4.0 - Digitalisation  
IA - Maintenance Prédictive



## ENGINEERING

- ⌚ Functional Specifications
- ⌚ Safety analysis/Cause-effect matrix
- ⌚ Detailed studies Electrical /Instrumentation/Automation
- ⌚ Design of standard objects and standard libraries
- ⌚ Development / Manufacturing
- ⌚ FAT/SAT/QI/QO test files
- ⌚ FAT platform tests
- ⌚ Installation and construction
- ⌚ System Migration
- ⌚ Commissioning / SAT site tests
- ⌚ IQ/OQ qualifications

## From Engineering to Operational Maintenance



## REALIZATION

- ⌚ Consulting and Audits
- ⌚ Obsolescence
- ⌚ Risk analysis
- ⌚ Analysis of the existing situation
- ⌚ Reverse engineering
- ⌚ Feasibility studies
- ⌚ Preliminary Draft Summary
- ⌚ Detailed design
- ⌚ Terms of Reference

## OPERATIONAL MAINTENANCE

- ⌚ Start-up assistance
- ⌚ Assistance to the project owner/owner
- ⌚ Site supervision and scheduling
- ⌚ Staff training
- ⌚ Stop management
- ⌚ Maintenance / On-call 24/7:
  - > Industrial outsourcing
  - > Maintaining Operational and Safety Conditions
  - > Third-party application maintenance

# Industrial Automation & IT 2/3

## SYSTEMS AND SOLUTIONS

- Automation and Supervision
- Safety Automation
- Cybersecurity
- Digital Control Systems (DCS)
- Informatique de pointe
- Functional process simulators
- IT - IoT - IOT architectures
- Secure industrial communication
- Real time production monitoring - Workshop management - MES/MOM :
  - Batch Solutions
  - Business Intelligence / BPM Workflow
  - Advanced Languages / Databases
  - Serialization / Aggregation
- Industrial applications: Traceability, Process Digitalisation, Inventory Management, Performance (TRS-OEE)

## SECTORS

- Life Sciences
- Chemistry / Fine chemistry
- Oil and Gas
- Agri-food
- Environment
- Energy
- Nuclear
- Aeronautics
- ....

## REGULATORY CONTROL

- IEC 61131-3
- IEC 61508 / IEC 61511
- QUALISIL
- BPF
- cGMP
- GAMP and other guidelines ISPE



# Industrial Automation & IT 3/3

## CERTIFICATIONS & PARTNERSHIPS



## THEY TRUST US

CEA, ANDRA, SANOFI, Boehringer Ingelheim, FERRING Pharmaceuticals, Lilly, ARKEMA, SOLVAY, ELKEM, AIR LIQUIDE, Bonduelle, GENERAL MILLS, BLEDINA, MUMM, SUEZ, URBASER Environnement, AKTID, TOTAL, PRIMAGAZ, VITOGAZ, ISOVER, AIRBUS, ARCELORMITTAL...

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