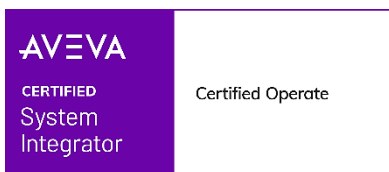# TEQNOVATION

Integrating technology with innovative minds

TeQnovation Leading Provider of Innovative Software Solutions & Services in Industrial Automation

AVEVA
CERTIFIED
System Integrator

Certified Operate

Kingfisher
CERTIFIED
Partner
servelec technologies

TBox
CERTIFIED
System Integrator
servelec technologies

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Our Company in Nutshell

We cover the automation layers from sensors to PLC to MES and interlinked to ERP focused in multiple industries including Oil & Gas Exploration & Production, Refining & Petrochemicals, Energy Utilities (Power & Distribution) including Alternative Energy, Water and Waste Water Treatment, Manufacturing (Steel, Aluminum, etc.), Food & Beverage Processing.
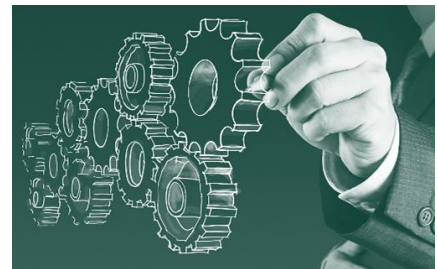

Services We Offer

- Wonderware certified engineering and services.
- Servelec RTU's (Kingfisher and TBox), including supply and services
- Functional Safety Audits and Assessments (TÜV Rheinland Certified)
- Cyber Security Audits and Services on IT and OT level
- Supply of Process Instrumentation like pressure valves, flow meters, etc.
- Supply of analysers for different industry verticals.
- Supply of Solar Systems like solar panels, convertors, etc.
- Ergonomic studies and detailed design for workplaces
- Supply of individually designed HMI solutions
- Supply and services for MES solutions for the Upstream Oil and Gas Market
- Supply of Unique Energy Industry Consultants and engineers for application development, GIS and Remote Sensing, etc.
- Leadership assessments

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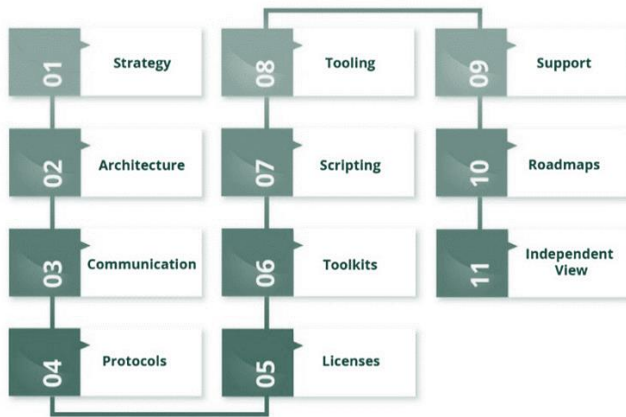![TeQnovation - Integrating technology with innovative minds]

- Integrity Management Facilities and Pipeline Integrity Management Audits
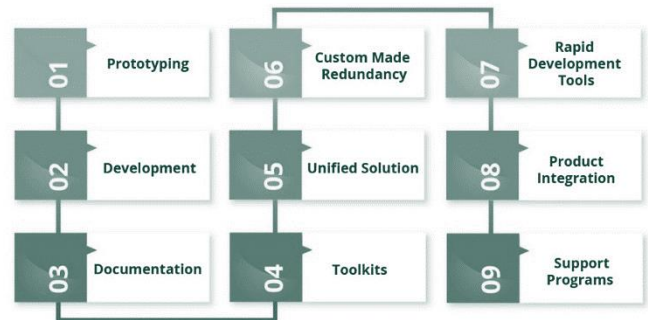- TeQnovation Rugged Computer Units (RCU's) with IP67 graded certification

Our knowledge and Expertise

We help our clients from A to Z improving their automation approach and increase operational efficiency with proven solutions.
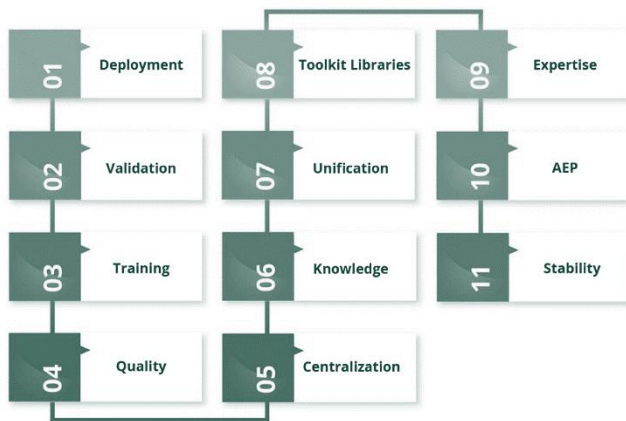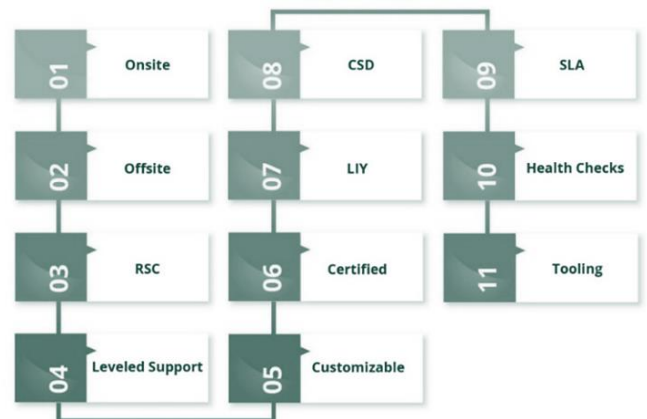
Consultancy

01 Strategy	08 Tooling	09 Support
02 Architecture	07 Scripting	10 Roadmaps
03 Communication	06 Toolkits	11 Independent View
04 Protocols	05 Licenses	

Design

01 Prototyping	06 Custom Made Redundancy	07 Rapid Development Tools
02 Development	05 Unified Solution	08 Product Integration
03 Documentation	04 Toolkits	09 Support Programs

Delivery

01 Deployment	08 Toolkit Libraries	09 Expertise
02 Validation	07 Unification	10 AEP
03 Training	06 Knowledge	11 Stability
04 Quality	05 Centralization	

Support

01 Onsite	08 CSD	09 SLA
02 Offsite	07 LIY	10 Health Checks
03 RSC	06 Certified	11 Tooling
04 Leveled Support	05 Customizable	

Being cost effective · Sustainable Solutions · Share Knowledge and expertise · Regionally Available · Experienced team · Success · Quality in Mind

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Cases in Oil & Gas Industry

WEST QURNA 2
حقل غرب القرنة / ٢
LUKOIL

LME- WQ2 –Manufacturing Execution System

About the Company
West Qurna-2 is a giant oil field in Iraq and the second largest undeveloped field in the world in terms of its hydrocarbon reserves.

What we achieved
TeQnovation personnel was involved in MES implementation as a part of Digital Oilfield project including Real-time Database, Web Portals and Integrated Asset Modelling systems.

What we use
A variety of software were implemented including OSISoft PI, Energy Components, StarLIMS, Petroleum Experts, OVSGroup and many more.

Goals of the Project to be achieved
MES was implemented as a complete solution where all software linked together to provide single Digital Oilfield solution.

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Our Cases in Oil & Gas Industry

ADNOC- ZADCO – Fire & Gas System Upgrade

About the Company
ZADCO uses Wonderware Software for their integrated Fire & Gas System on Zirku Island.

What we achieved
TeQnovation is currently troubleshooting and correcting the existing Wonderware system for **12** sites (control rooms) which showed inconsistencies due to unstructured configuration. More expansions are to come after the upgrade.

What we use
Based on the latest versions of Wonderware ArchestrA software we agreed on modern HMI standards with integrated alarm management and developed the ZADCO Toolkit for rapid and structured deployment.

Goals of the Project to be achieved
Upgrade the entire Wonderware system **with zero downtime** and improve stability and performance.

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Our Cases in Oil & Gas Industry

Petroleum Development Oman – Support contract

About the Company

PDO is the foremost exploration and production company in the Sultanate of Oman. It accounts for more than 90% of the country's crude oil production and nearly all of its natural-gas supply.

What we achieved

TeQnovation was awarded a support contract of the Wonderware system with a local team from PDO itself to train and guide this team to maintain the Wonderware system themselves.

What we used

The upgraded system with Wonderware System Platform 2014 R2 SP1 was implemented before starting the support contract. Once the support contract was awarded, the support strategy was defined together with PDO to reduce the maintenance costs by half and have parts of the services managed by PDO themselves

Goal of the Project

Major goal of the project was to guide PDO in reducing the yearly maintenance cost of the Wonderware system by 50% and implement a core team with employees from PDO to take over the defined support strategy.

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Our case in Metallurgy

TASNEE التصنيع **Tasnee Plastics and Metallurgy – Process Information Management System**

About the Company

Tasnee collects a massive amount of data every day. They use Wonderware Historian to collect data and create a dedicated set of reports for production management, quality and asset management purposes.

What we achieved

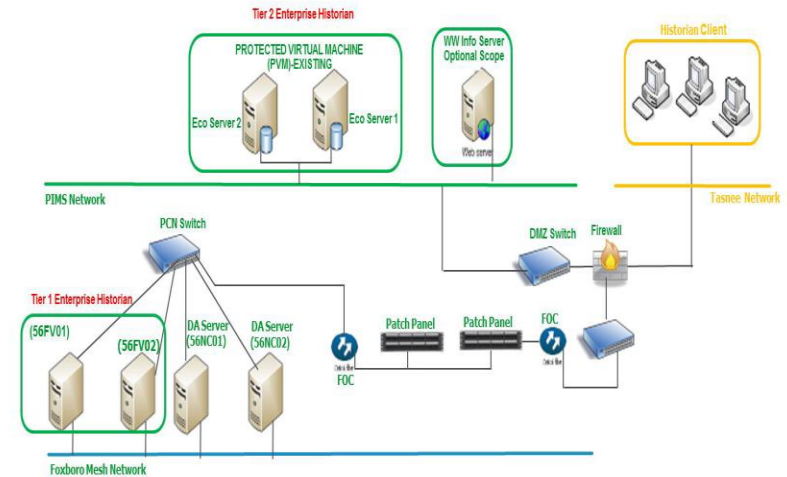TeQnovation got the order to increase and optimize data collection and storage performance.

What we used

The latest Wonderware Historian for System Platform 2014 R2 was used. We created a Tier-1 and Tier-2 architecture to distribute the historical data from secure production area to management intranet.

Goal of the Project

Implement a secure PIMS collecting data from different production sites and provide structured historical data to Tier 2 level outside DMZ for reporting to management.

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Our case in Aluminum Industry

Sohar Aluminium LLC – Cast House Process Control, Reporting and MES

About the Company

Sohar Aluminum LLC is a private company owned by Oman Oil, Taqa/Adwea and Rio Tinto, formed in 2004 and is based in Sohar, Oman.

What we achieved

We studied the entire plant and made a comprehensive report about the situation as is and to be. Further implementation is pending due to serious issues the client is going to fix in his production currently.
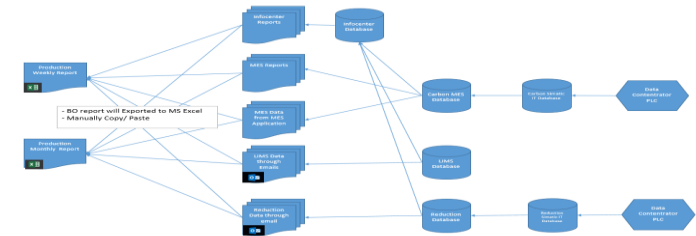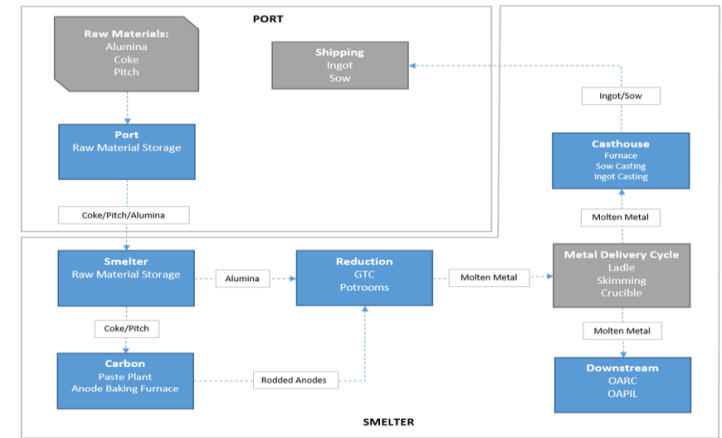
What we used

We had our specialist in Aluminium production to study the complete site.

Goal of the Project

The complete project includes the root cause analysis, modification and support of the existing MES application to improve functionality and reduce complexity, development of an updated Anode and Metal Management Systems

Our case in Wastewater Industry

معالجة
MOALAJAH **Moalajah-Historian Data centralization and QI Analyst Pilot**

About the Company

Moalajah is a joint-venture between BESIX and Veolia that provides a wide range of services in the sector of water and wastewater including but not limited to design, customer service, operations and maintenance.

What we achieved

We helped Moalajah to improve operational issues and maintenance procedures and thus plant reliability by historizing process data, alarms and events to be able to create valuable information which will enable them to make better decisions, improve procedures and enhance operation and plant reliability.
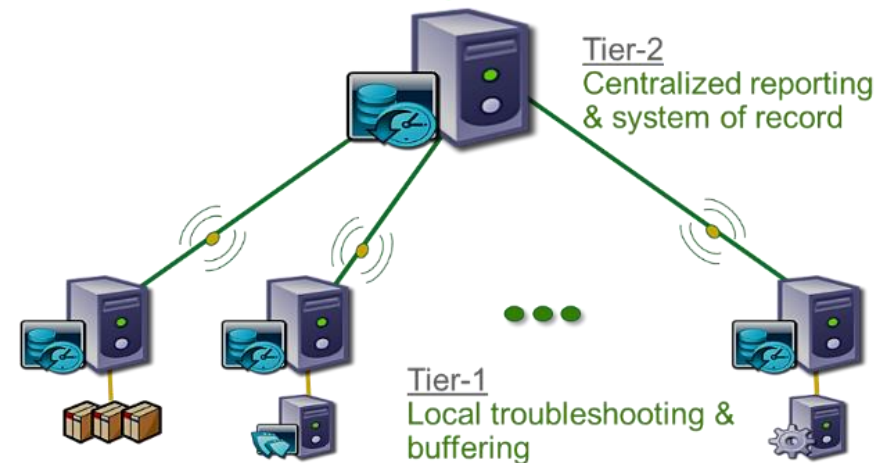
What we used

Our engineers in Wonderware used their experience to make the best out of the Wonderware systems to make sure these systems are utilized to the full extend

Goal of the Project

The goal was to start a continuous improvement process which will reduce costs, improve results and help Moalajah's mother companies to improve not only in this plant but also in other operations.

Tiered Historian – Typical Architecture

Tier-2
Centralized reporting & system of record

Tier-1
Local troubleshooting & buffering

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Our case in Food and Beverage Industry

Almarai – MES Services

About the Company

Almarai is a Saudi-based conglomerate, listed on the Tadawul stock exchange. It specializes in food and beverage manufacturing and distribution. The company's main offices are located in Riyadh, Saudi Arabia

What we achieved

We provided MES Services for Almarai Company by allocating a dedicated experienced MES food & beverage specialist for about 5 months to work with Almarai Team in the kingdom of Saudi Arabia

What we used

Our Experienced MES Engineer was allocated on site to support Almarai .

Goal of the Project

The goal was to provide MES services to Almarai plant for a fixed period of time.
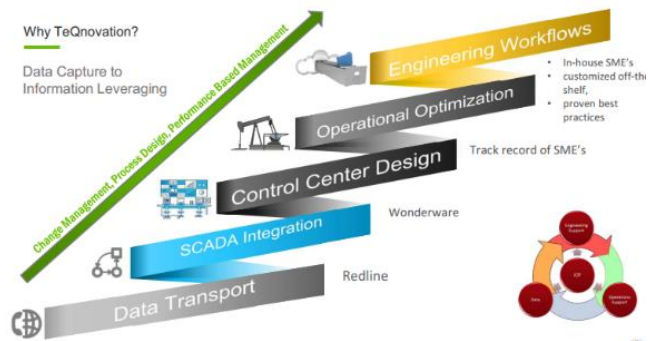
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Contribution to Knowledge Sharing and technical awareness

We proudly contributed to the development of the knowledge and best technical practices by attending seminars and conferences to share challenges and solutions with other experts like giving a general SCADA presentation in the Sultanate of Oman or providing technical workshops and training courses for our valuable clients.

Training – Centralized SCADA Presentation based on best practices

We organized a general SCADA presentation in the Sultanate of Oman that gave a detailed breakdown how to implement centralized SCADA systems with multiple sub-layers of DCS-systems connected to these systems.
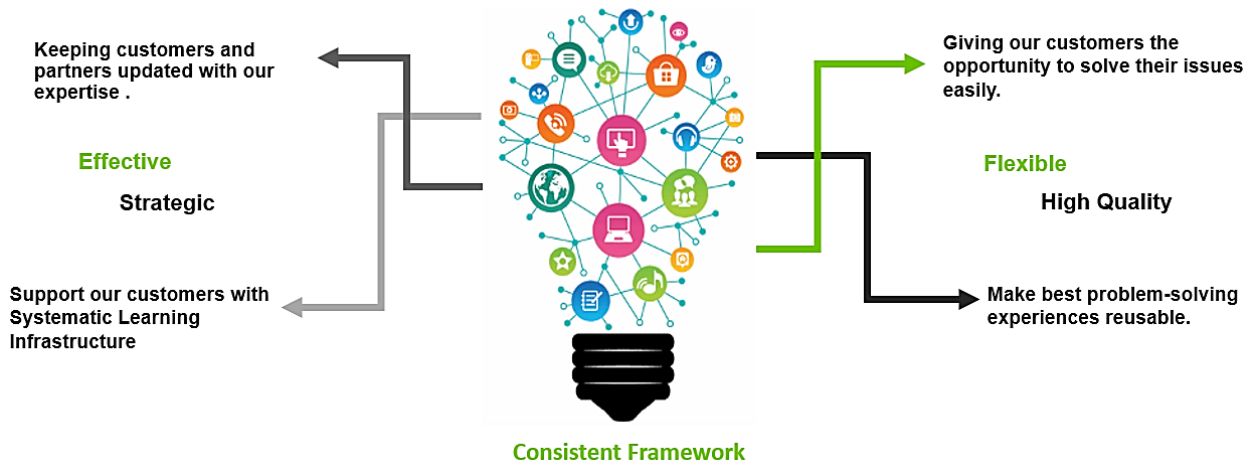
The goal of the training was to create awareness of the latest technology available in the market including different software's from different vendors and their capabilities.

Our Knowledge Database

Keeping customers and partners updated with our expertise and giving them the opportunity to solve their issues easily, we made it our priority to provide a support infrastructure to share our best practices as a System Integrator so that our customers and partners can easily locate knowledge base information in a self-serve help to troubleshoot their technical issues.
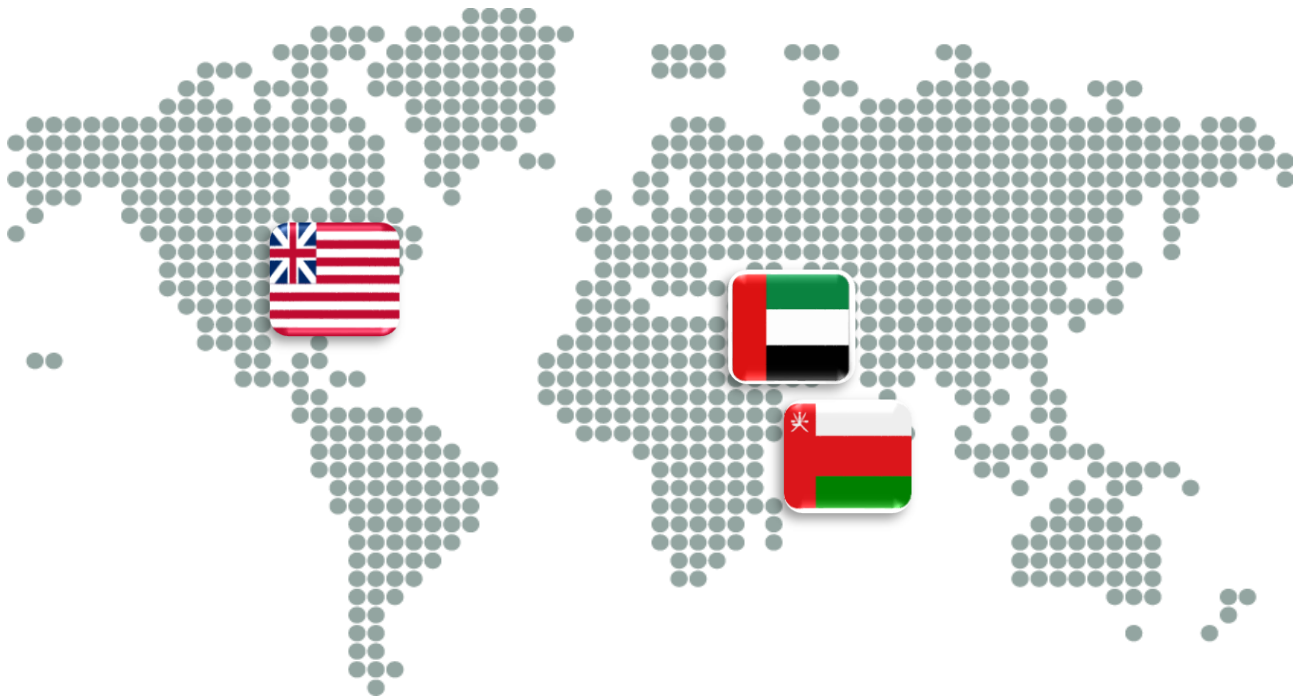
Our consistent and easy-to-read framework encourage our knowledge database users to explore further and make an evolving network of developing innovative solutions for new challenges and share them together.

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Our Offices Around the World

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