

Manufacturing Execution Systems for the Oil and Gas Industry

Overview

X SAT—Your reliable ICT Provider



Offering complex of
industrial IT Services



Creating Unique
Integrated Solutions



Operating in harsh
and hard to reach
Remote Areas

- 2020 Partnership with Huawei in Iraq
- 2017 Partnership with Yahsat for YahClick Service in Africa
- 2009 Partnership with DU Telecom in UAE
- 2006 Partnership with Iridium and Inmarsat
- 2005 Partnership with Thuraya
- 2002 X SAT FZE established in the UAE

Facts about X SAT

Our company was established in 2002 in Dubai; we have offices in the U.A.E., Kazakhstan, India, and the U.S.A

18 years

X SAT has been providing services

150+

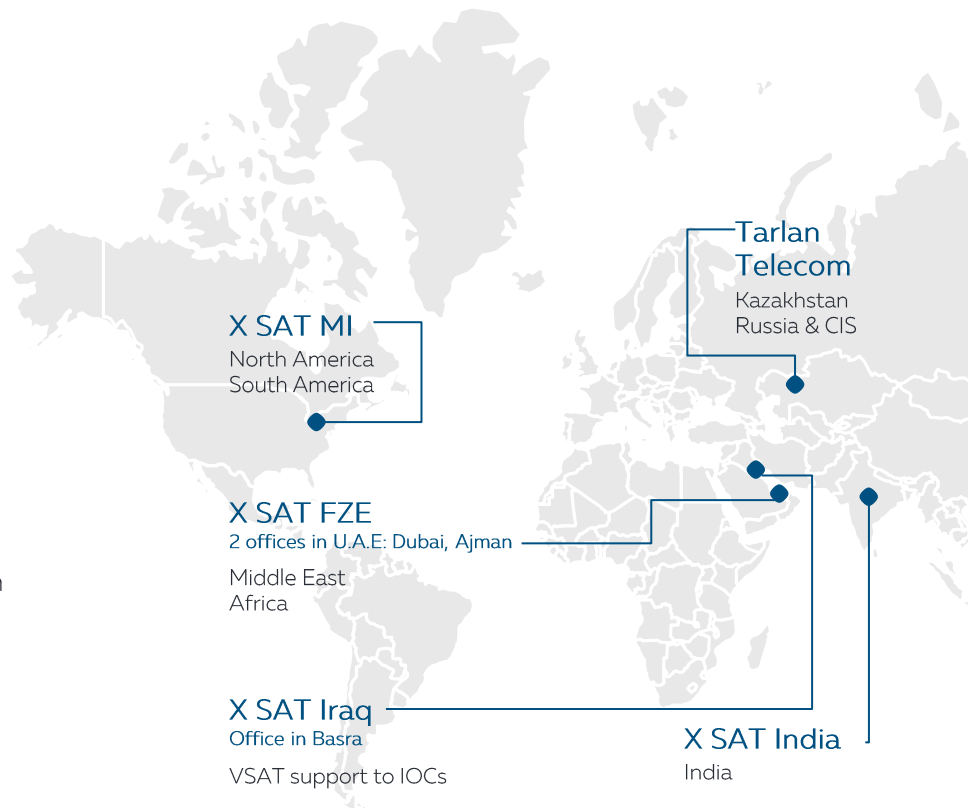
Projects planned and installed

15

Multi cultural team from 15 different countries

24 countries

Our team have visited clients in the Middle East and Africa



We Believe in Building Long-Term Relationships with Our Clients

18+

We have more than 18 years of experience in the Oil & Gas Industry



We develop deep understanding of the customers' needs and requirements



We provide the best solutions that are cost-effective and that maximize efficiency



We believe sales is just the beginning of the journey. We work hand in hand with our customers during the whole project.



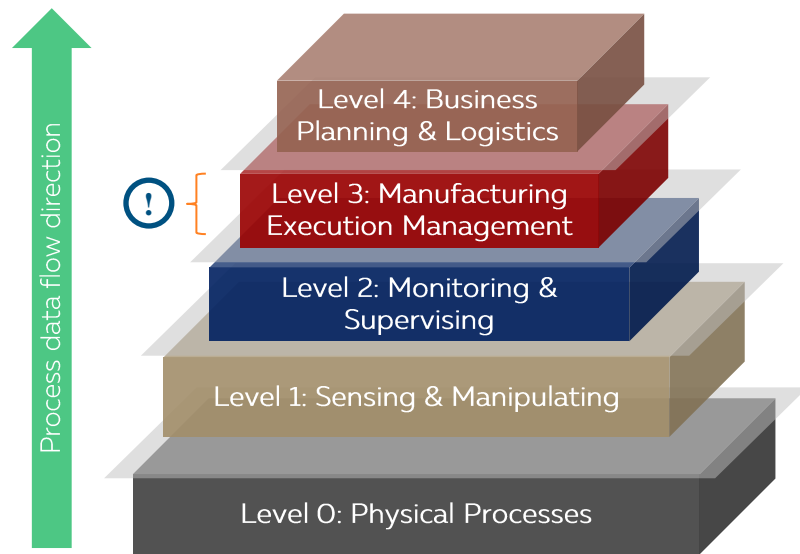
We have a friendly and professional team who are able to build a great rapport with our customers

We Care About Each of Our Client and Build A Great Rapport With Them



Enterprise and Control Systems Layers

- ISA-95 “Enterprise-Control System Integration” is an international standard of the International Society for Automation for the development of an automated interface between an enterprise and control systems.



Level 4: Business Planning & Logistics

- ✓ Defines the business-related activities needed to manage a manufacturing operation.
- ✓ Includes Business logistics systems (e.g., ERP).

Level 3: Manufacturing Execution Management

- ✓ Defines the activities of workflow to produce the desired end products.
- ✓ Includes Manufacturing operations systems (e.g., MES).

Level 2: Monitoring & Supervising

- ✓ Defines the activities of monitoring and controlling the physical processes.
- ✓ Includes Process Control Systems (e.g. PCS, SCADA).

Level 1: Sensing & Manipulating

- ✓ Defines the activities involved in sensing and manipulating the physical processes.
- ✓ Includes PLC, intelligent devices, sensors & signals.

Level 0: Physical Processes

- ✓ Defines the actual physical processes.
- ✓ Includes reservoirs, gathering systems, processing facilities, transport infrastructure.

Vital Functions of MES

COLLECTION, PROCESSING AND STORAGE OF REAL TIME DATA

- Information model of production
- Big data processing
- Workflows for data control
- Reliable data storage and backup
- Redundancy of communication channels

ACCOUNTING OF HYDROCARBONS

- Accounting of oil & gas, treated and injected water
- Distribution of production volumes by wells / tanks / etc
- Measurement of material flows;
- Accounting of oil delivery and well downtime losses
- Accounting of chemical injection
- Control and maintenance of well modes

VISUALIZATION OF INFORMATION

- Technological web portals & dashboards (graphic displays, trends, KPIs, alarms & events, etc.)
- Reports, tables, graphs, charts, visual analytical information
- Support for personal notifications about process & its deviations

Vital Functions of MES

LABORATORY INFORMATION MANAGEMENT

- Collection, analysis, optimization, return and reporting of laboratory data
- Search across multiple data arrays
- Audit trails, electronic signatures, and chain of custody capabilities

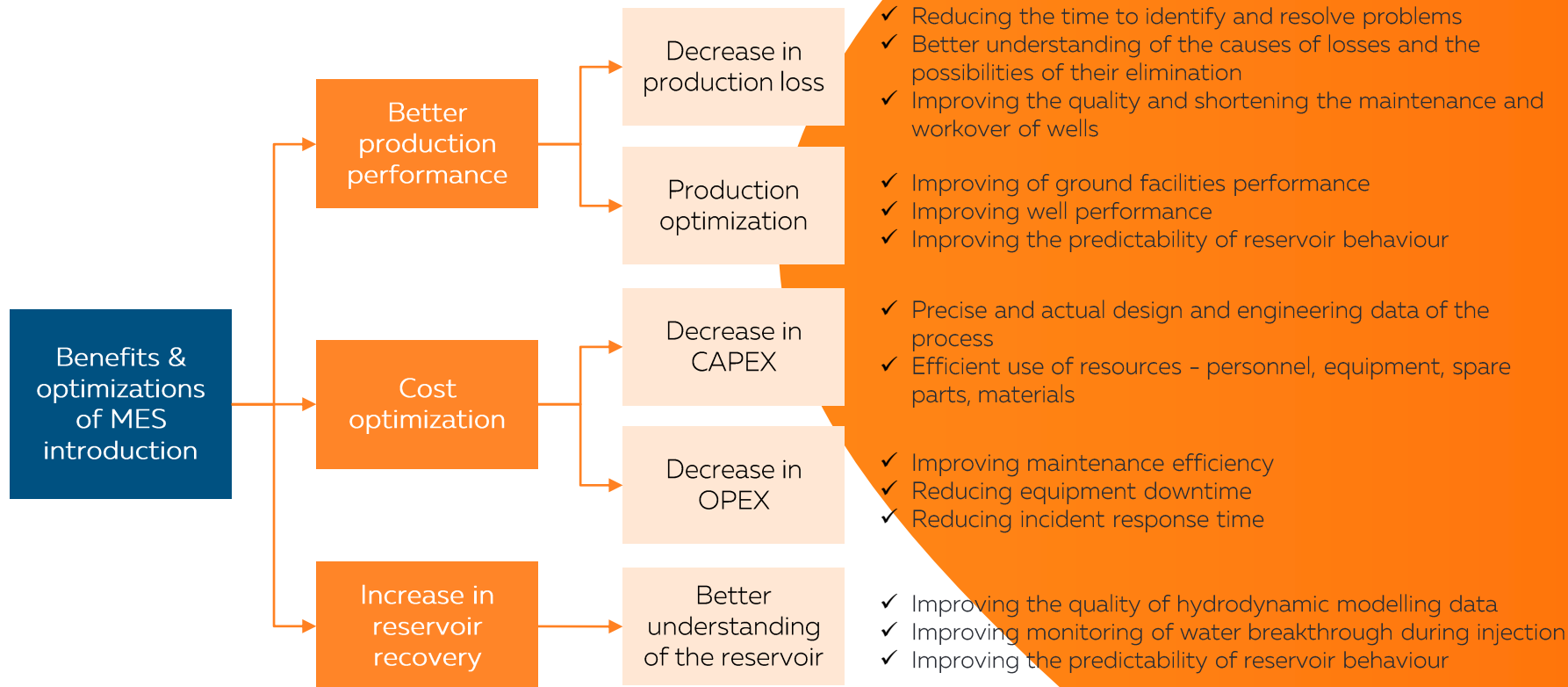
MODELLING & FORECASTING, INTEGRATION WITH ERP LEVEL

- Support for the main business processes of the company (forecast, planning, analysis, etc.)
- Actual real-time data for production adjustments, planning and forecasts
- Reduction of manual data entry on the boundaries of information system layers

24/7 DATA ACCESS FOR USERS

- Top management
- Planning specialists
- Hydrocarbon accounting specialists
- Shift supervisors
- Production engineers
- Process engineers
- Operators
- Geological engineers
- Laboratory specialists
- Maintenance engineers
- HSE engineers
- Project engineers
- Engineering contractors

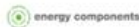
MES Benefits & Optimizations



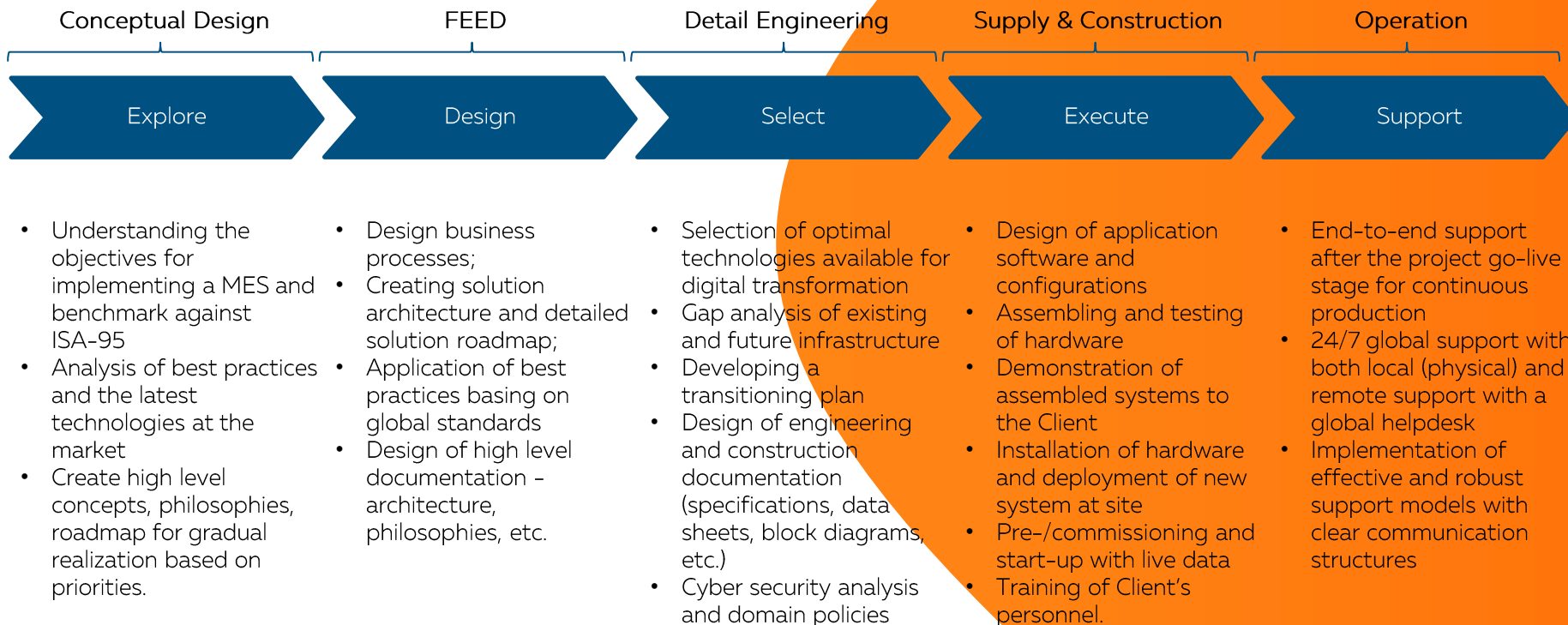
Our Typical Solutions

We offer a complete set of **Manufacturing Execution Systems and Production Applications** for industrial plants, developing fields, and enterprises, which cover each aspect of production process of the Client:

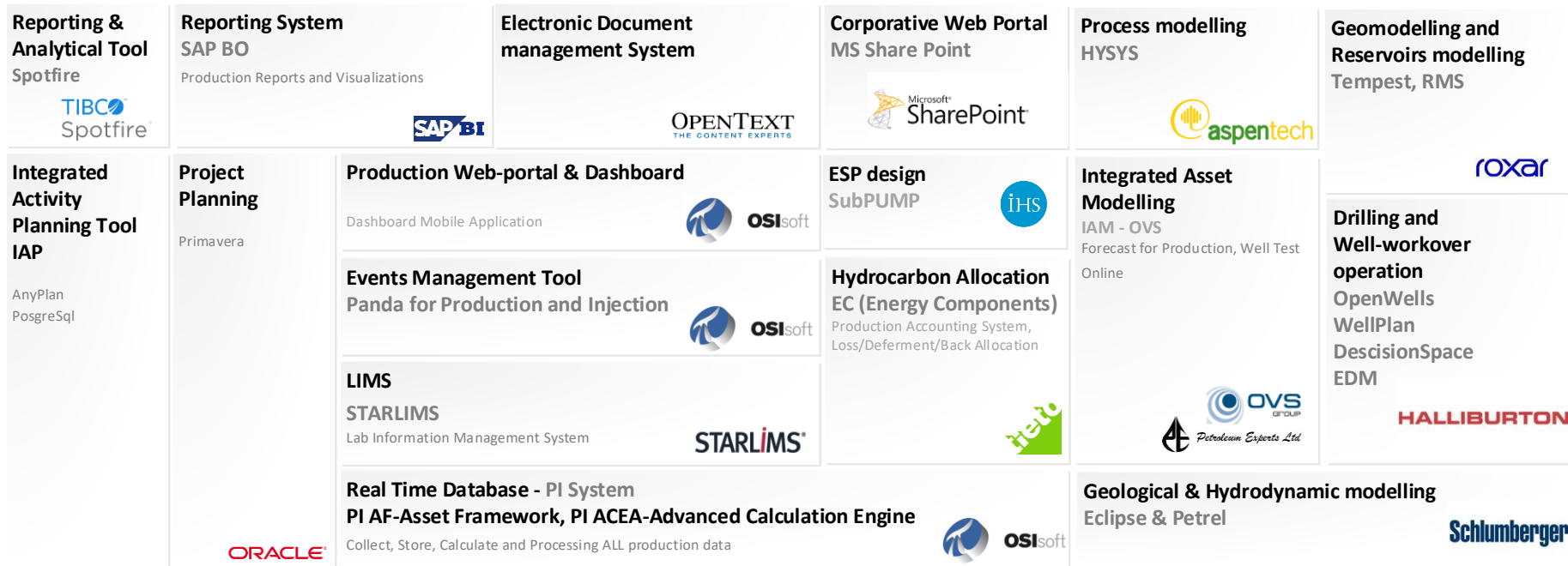
- Production Accounting System (Tieto Energy Components)
- Integrated Activity Planning System (Anyplan)
- Integrated Asset Modelling (OVS, IFM Petex)
- Events and Deferrals Management System (PI System)
- Laboratory Information Management System (Abbott STARLIMS)
- Production Web Portal (AVEVA PI Web-server, Wonderware IAS)
- Real-time Databases (AVEVA PI System, Wonderware Historian, Honeywell PHD)
- Relational Database Management System (MS SQL, PostgreSQL, Oracle DB, eXtremeDB)
- Reporting System (MS SQL Reporting, SAP BO)



Project Life-Cycle



Example of Software Landscape





CONTACT US

We propose tailor-made offers



+(971) 4-886 5224



SALES@XSAT.GLOBAL

WWW.XSAT.GLOBAL