

IZZI Business Services

Company Profile



- ❖ Reputed & trusted technology service provider.
- ❖ Special focus on Energy sector (Refinery, Petrochemicals and power industries).
- ❖ Operational since May 2016.
- ❖ Founded and lead by qualified professional with 23+ years multi disciplinary hydrocarbon supply chain experience.
- ❖ Stands firm on pillars of moral values and ethical business practices.
- ❖ Registered as LLP in India and LLC in UAE.

Scheduling and Blending



Implementation

We provide operational technology implementation services to build models for clients with industry best standards. We also provide integration services for seamless data flow across various business applications.

Support

We provide continuous and need based support services to our clients, to ensure maximum benefits are achieved by effective utilizations of existing systems.



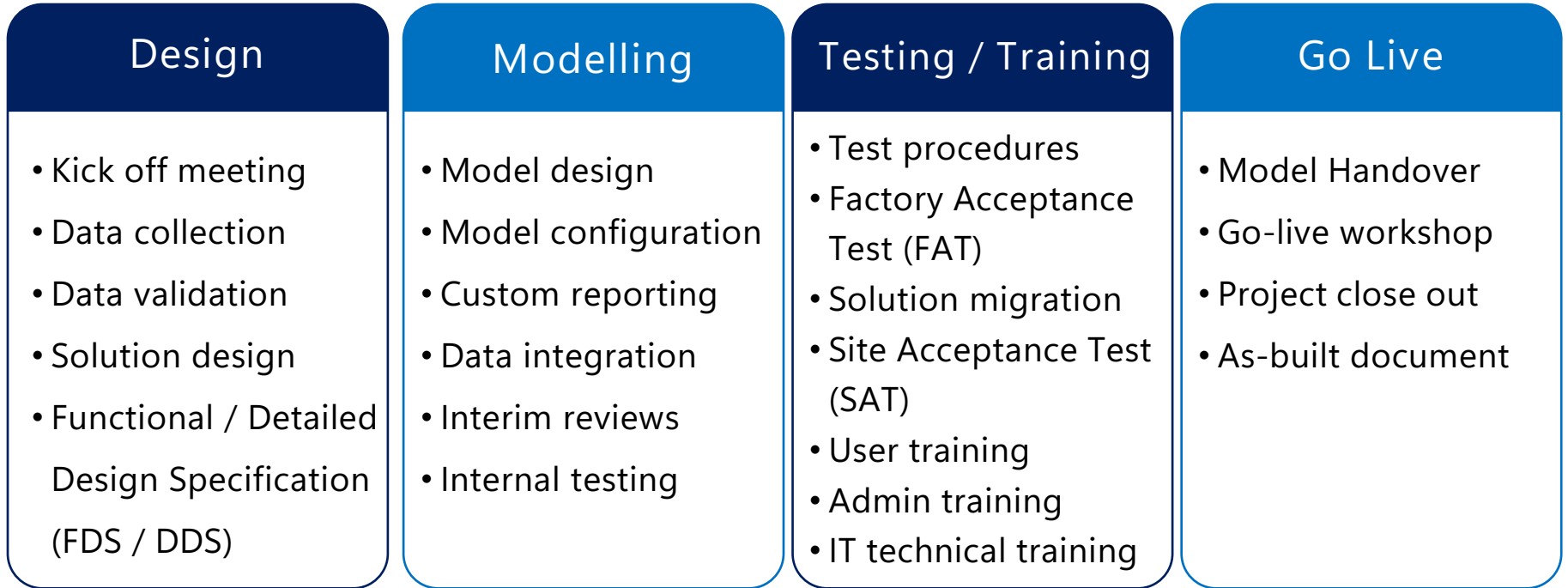
Consulting

We provide technical and project management consulting services to our clients to elevate their business processes and model utilizations to align with industry best practices.

Training

We provide standard and customized training programs for business processes and applications, in line with client requirements.

Implementation services



- ❖ Business process consulting
 - As-Is business process review
 - Industry best practices
 - Gap analysis & improvement strategies
 - To-Be business processes mapping
- ❖ Architecture design for OT applications
- ❖ Requirement specifications / scope of work documents
- ❖ Project management consulting (PMC) services
- ❖ Refinery configuration studies
- ❖ Profit improvement studies / consulting services

Training services



Technology specific training

- Standard product training
- Client specific customized training



Remote training

Business domain training

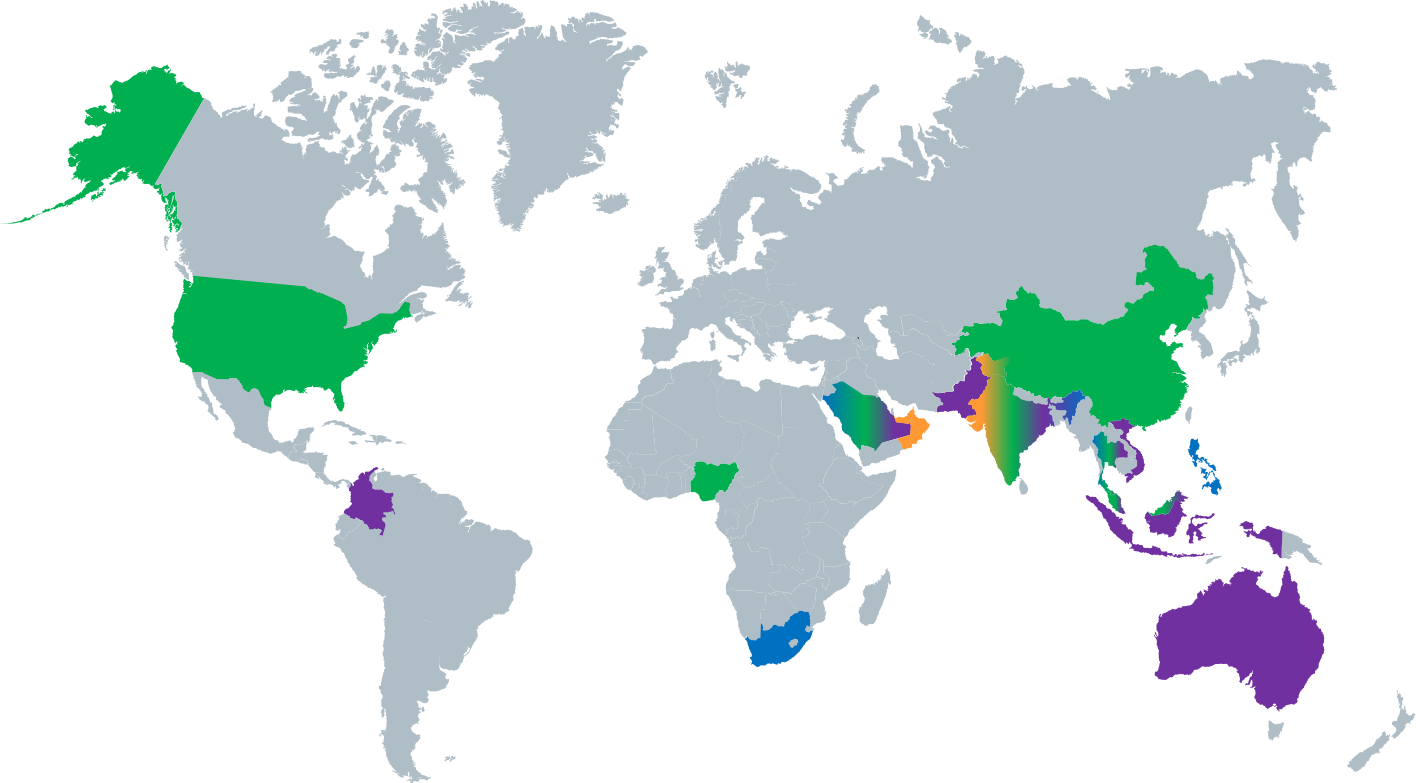
- Standard training
- Advanced customized trainings



Onsite classroom training

- ❖ Continuous and uninterrupted support services to ensure the maximum benefits are achieved by customers.
- ❖ Onsite and remote support services
 - Functional support for business processes
 - Technical support for model maintenance and update
- ❖ Flexible support models as per client requirements
 - Continuous support with dedicated engineers
 - Need based support to optimize service cost
 - Onsite, remote or combination of both

Our global clients



Planning

Scheduling

Digitalization

Consulting

Our Partners



AVEVA

accenture
High performance. Delivered.

McKinsey
& Company


Jaaji Technologies
Sophistication with Simplicity

Petrogenium.

wipro

**Tech
Mahindra**

 **proclink**
picture the future

What sets us apart?



Multiple technology competencies

Cross-functional resource capabilities

15+ project execution across the globe

Ensured quality project deliverables on time



Manufacturing Supply Chain

- ❖ Crude oil analysis
- ❖ Crude assay synthesis or updates using lab data
- ❖ Crude tower tuning using distillation data
- ❖ Crude assay integration with planning and scheduling models
- ❖ Crude net back value calculations

Technologies

- AVEVA USC Assay
- AVEVA ECKM*
- Haverly H/CAMS
- Haverly H/COMET

- ❖ Build, review and update LP models for single-plant, multi-plant & multi-period
- ❖ Model conversion from one LP tool to another
- ❖ Cost / benefit evaluation
- ❖ Profit improvement opportunities identification
- ❖ Unit configuration studies for green field and brown field refinery and petrochemicals
- ❖ Planning process and LP model trainings

Technologies

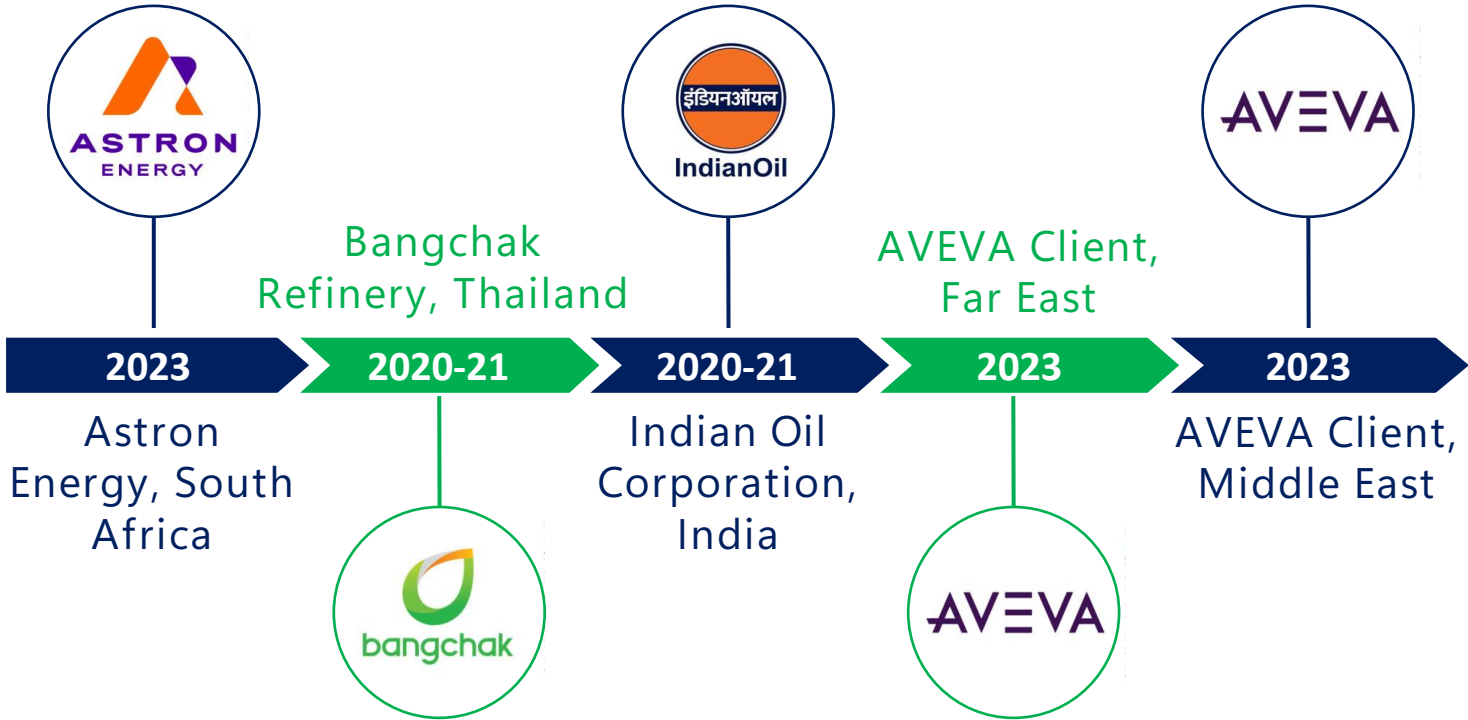
- Aspen PIMS
- AVEVA USC Plan
- Haverly GRTMPS
- Chevron Petro LP

- ❖ Build, review and update scheduling & blending optimization models for refinery and petrochemicals
- ❖ Logistics scheduling
- ❖ Short-term and long-term scheduling
- ❖ Data integration with required business applications for seamless work process
- ❖ Scheduling and blending optimization training
- ❖ Logistics training

Technologies

- AspenTech – APS and ARMBO
- AVEVA USC Schedule
- KBC VM Supply Chain Schedule
- Custom Excel based scheduling models

Planning Projects



Planning model implementation using AVEVA USC Plan

- ❖ Turnkey refinery planning model implementation project covering different project phases from KOM, data collection, FDS, model building, FAT, UAT, trainings, go-live, post implementation support.
- ❖ Delivered multi-period planning model with inventory optimization.
- ❖ Performed and proved performance guarantee by improving model accuracy against the base case.
- ❖ Excel based templates for planning inputs.
- ❖ Custom excel template-based reports for monthly operating plan and crude indifference value (CIV).



Client – Bangchak,
Thailand

AVEVA

Partner – AVEVA

LP model development using Aveva USC Plan

- ❖ Refinery planning model development project to convert existing LP model from legacy tool to AUSC Plan.
- ❖ Full Integration of AUSC Plan model with AUSC Crude Assay Manager.
- ❖ Validation of results for converted LP model against legacy LP cases.



ASTRON
ENERGY

Client – Astron
Energy, South
Africa

AVEVA

Partner – AVEVA

Planning model conversion using Aveva USC Plan

- ❖ Refinery planning model development to convert existing LP model from legacy tool to AUSC Plan.
- ❖ Key highlights of the model are detailed below:
 - Process model structures with yield variability based on different throughputs.
 - Mixed integer program (MIP) configuration for various units based on mode, severity, feed bracket constraints.

Client – AVEVA
Client, Far East



Partner – AVEVA

Planning model conversion using Aveva USC Plan

- ❖ Refinery and petrochemical planning model development to convert existing LP model from legacy tool to AUSC Plan.
- ❖ Key highlights of the model are detailed below:
 - Configuration of refinery process units, ethane cracker and petrochemical units.
 - Process unit configuration with stoichiometric yields, product-based throughput, utility and operating conditions for petrochemical units.
 - Detailed modelling with component-based tracking of naphtha from CDU to aromatics complex.

Client – AVEVA
Client, Middle East

AVEVA

Partner – AVEVA

2022-2023: Planning Model Support



Planning model implementation support using Aveva USC Plan

- ❖ Support the final project phase for delivery of planning model using AVEVA USC Plan
- ❖ Modification of the plan model in line with best practices
- ❖ Resolution the open punch items and prepare for SAT
- ❖ As-built documentation



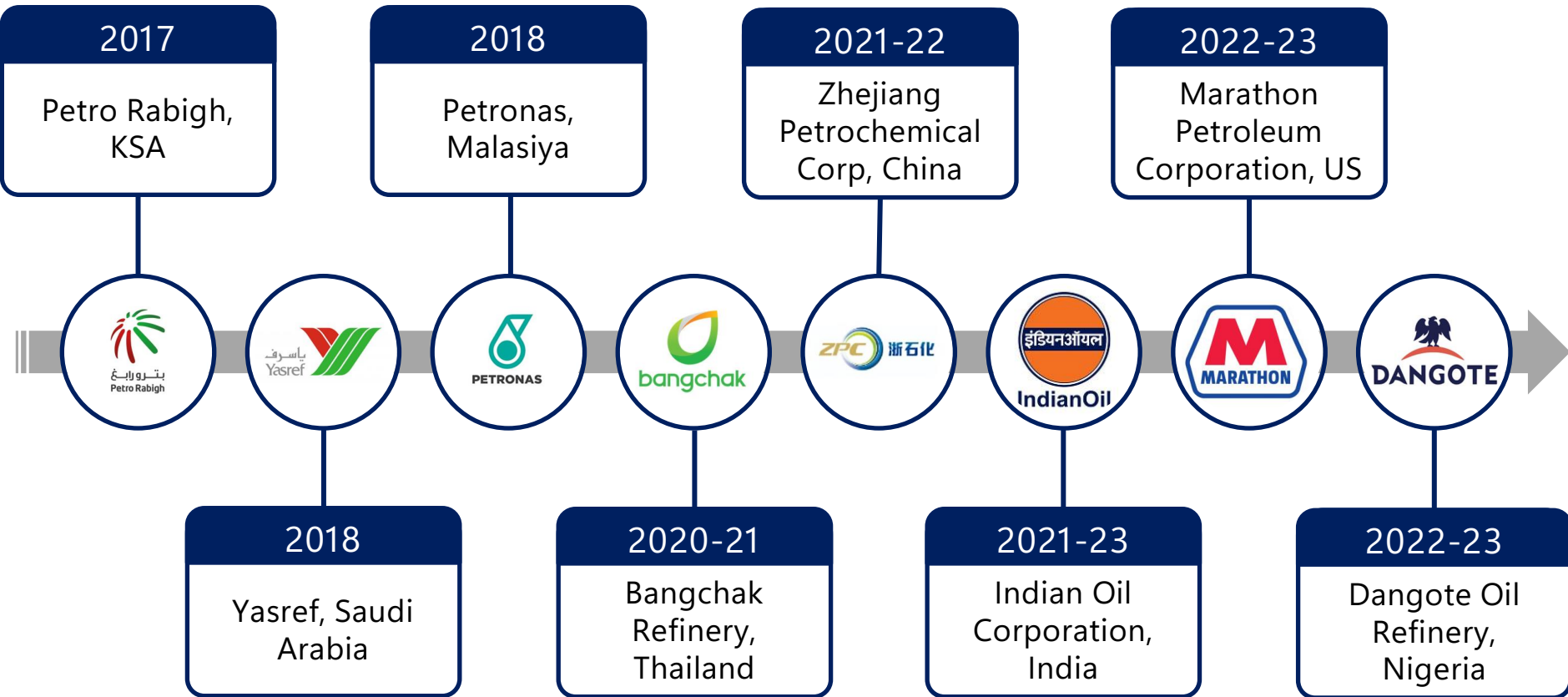
IndianOil

Client – Indian Oil Corporation, India



Partner – Proclink

Scheduling Projects



2021-2023: Scheduling Model Implementation



Multi-site scheduling model implementation using AVEVA USC Schedule

- ❖ Project implementation scope was refinery scheduling models for 9 refineries and 1 PetChem complex.
- ❖ IZZIBS scope covered KOM, onsite data collection, FDS and model design for 7 refineries.
- ❖ IZZIBS scope also covered model building, FAT, SAT, trainings, go-live for 4 refineries.
- ❖ Support to integration team for testing of baseline data and custom reports.



IndianOil

Client – Indian Oil Corporation, India

AVEVA

Partner – AVEVA

Scheduling model implementation using AVEVA USC Schedule

- ❖ Turnkey refinery scheduling model implementation project covering different project phases from KOM, data collection, FDS, model building, FAT, UAT, trainings, go-live, post implementation support.
- ❖ Excel based templates for baselining data.
- ❖ Support for custom scheduling reports.
- ❖ Unified environment covering integration with AVEVA Plan and AVEVA Assay.



Client – Bangchak,
Thailand

AVEVA

Partner – AVEVA

2017: Scheduling Model Implementation



Scheduling model development using Aspen Petroleum Scheduler (APS)

- ❖ Scheduling model development project for Petro Rabigh refinery and Petrochemical complex, Saudi Arabia covering KOM, data collection, FDS, model building, report generations, UAT, SAT, training, go-live and as-built document.
- ❖ Some of the highlights of the model are as below:
 - SMCs for refinery and petrochemical units
 - Configured #LP for FO blending
 - Inbound integration and custom reporting
- ❖ Project completed and signed off before time.



بترو رابغ
Petro Rabigh

Client – Petro
Rabigh, KSA


accenture
High performance. Delivered.

Partner –
Accenture

2022-2023: Scheduling Model Implementation



Multiple APS models for crude scheduling and logistics

- ❖ 5 scheduling model development using Aspen Petroleum Scheduler (APS) for 19 desks to manage the crude network
- ❖ Configure EIUs to create bulk events into APS
- ❖ Model and EIU testing and validation
- ❖ Desk wise training to schedulers
- ❖ 4 weeks hyper care support post go-live for each desk
- ❖ As-built and user guide documentation
- ❖ Integration support for APS with other applications



Client – Marathon
Petroleum
Corporation, US



Partner – Proclink

2018: Scheduling & blending SME Services



Subject matter expert (SME) services for scheduling & blending optimization

- ❖ Scheduling model development assistance for Aspen Petroleum Scheduler / Multi Blend Optimizer
- ❖ Design documents review and update
- ❖ Model testing and update
- ❖ ARW reports development and delivery
- ❖ Provided expert inputs for inbound and outbound integration to / from APS
- ❖ Support for model and integration SAT
- ❖ Onsite APS training delivery



PETRONAS

Client – Petronas,
Malaysia

 **accenture**
High performance. Delivered.

Partner –
Accenture

2021-2022: Scheduling Model Implementation



Scheduling model update and delivery using Aspen Petroleum Scheduler (APS)

- ❖ Project implementation partner with Shell Global Solutions for integrated refinery and petrochem scheduling models project for ZPC, China.
- ❖ Project scope covers
 - Rigorous testing of already built APS model
 - FAT comment resolution
 - 2+ months long interactive SAT with client
 - Trainings
 - As-built and user documentation
 - Go-live workshop



Client – Zhejiang
Petrochemical
Corp, China



Partner – Shell GS

Custom scheduling model development

- ❖ Refinery wide scheduling model development using Microsoft Excel with custom scheduling logics.
- ❖ Single and multi grade of gasoline blend optimization using solver Add-In.
- ❖ Summarized inventory and product lifting data with chart visualization.
- ❖ Plan vs schedule vs actual comparison.
- ❖ Validation of the model with test cases.
- ❖ User guide documentation.



Client – Dangote
Oil Refinery,
Nigeria

2018: Scheduling Onsite Support Services



Onsite scheduling and blending model support for APS and MBO

- ❖ Provided technical and functional support for APS & MBO to utilize the system effectively.
- ❖ Supported modifications and testing related to APS integration data.
- ❖ APS model updates and ARW report modifications.
 - SMC update for process units
 - Crude assay updates
 - Scheduling logics in excel
- ❖ On-the-job training to schedulers for carrying out day to day activities.



Client – Yasref,
Saudi Arabia



Partner – Wipro

2023

Bangchak Refinery, Thailand

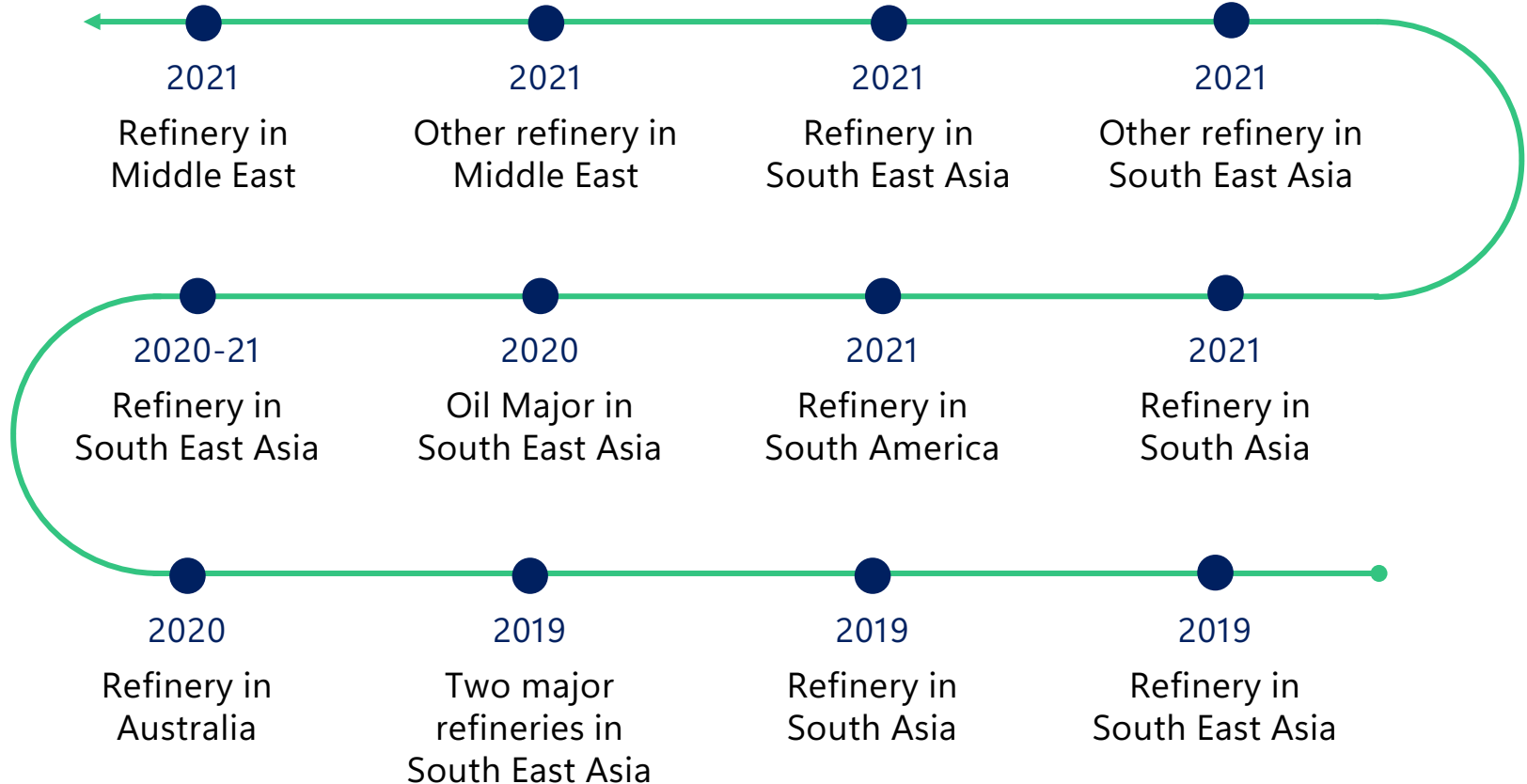
3 days onsite classroom training for refinery scheduling and logistics with more than 20 participants.

2017

Dubai, UAE

A comprehensive and advanced training program on refinery scheduling and logistics system.

Consulting assignments with McKinsey





Digitalization

- ❖ OT application data integration
- ❖ Enterprise application architecture
- ❖ Process data historian implementation
- ❖ Process data analytics and custom calculations
- ❖ Dashboards - Self-service, interactive & role-based
- ❖ Reports automation - on-demand & auto-generated
- ❖ KPIs, notifications & asset performance management
- ❖ Digital logbook - operations & maintenance

Technologies

- Aspen InfoPlus.21
- Aspen Process Explorer
- JaajiTech - inSis Suite
- Custom development

Digitalization Projects



2018-2019: Digitalization Implementation



Implementation of refinery wide digitalization solution

Implementation of the digitalization solution using Jaajitech inSis Suite to automate the Reports, create real-time Dashboards, KPIs and Alerts:

- ❖ Manufacturing Information System (MIS) reports automation
 - 35+ reports
 - Process monitoring, daily refinery operation report, etc.
- ❖ 200+ refinery KPI management
 - Operations, process, safety, reliability etc.
- ❖ Role based dashboards & data analytics
- ❖ Refinery Process Information Centre Portal (RPIC Portal)
- ❖ Email/SMS alerts and notifications
- ❖ Mobile access view



Client – Nayara
Energy, India



Jaaji Technologies
Sophistication with Simplicity

Partner – Jaaji
Technologies,
India

2016-2018: Digitalization PMC service



Project management consulting services - planning, scheduling, pricing & performance management

RIS (Refinery Information System) project scope covers integration and digitalization of multiple application for three ADNOC refineries:

- ❖ IZZIBS provided PMC services for data collection, design review (FDS/DDS), Factory / Site Acceptance Test (FAT / SAT), integrated FAT / SAT, Performance Acceptance Test (PAT), go-live workshop
- ❖ Inputs and testing of key data integrations
 - Planning (PIMS) reports automation
 - Pricing data to LP models
 - Scheduling (APS) output to Oil Movement (ATOMS)
 - Integration between two Scheduling (APS) models
 - Plan vs schedule vs actual report
 - Performance management system (Honeywell TCD) testing



Client – ADNOC,
UAE



Partner –
TRUTECH, UAE

PMC for Integrated Management Systems (IMS)

Project scope covers PMC for scheduling models integration with IMS and other OQ applications:

- ❖ Define requirements for APS outbound integrations
- ❖ Design and provide technical inputs to Integration team
- ❖ IMS DDS review
- ❖ APS model review and define modelling changes required in APS model to meet integration requirements.
- ❖ SQL query development to extract scheduling & blending data required for IMS
- ❖ Participating in FAT, SAT and other testing phases of IMS project



Client – OQ, Oman



Partner – Tech Mahindra



Manufacturing Execution System and Engineering

❖ Oil movement systems

- Production tracking, monitoring, trending, controlling and analyzing oil movements
- Integration with scheduling and production accounting

❖ Production accounting system

- Data integration with production systems such as oil movements, LIMS, ERPs and web based manual forms
- Production accounting / reconciliation
- Customized reporting

Technologies

- Aspen Operations Reconciliation and Accounting (AORA)
- Aspen Tank and Operations Manager (ATOMS)
- AVEVA Production Accounting
- AVEVA Offsites Management

Technologies

- ❖ Build, review and update rigorous steady state process simulation model
- ❖ LP vectors generation for LP models
- ❖ Re-calibration of rigorous steady state simulation models
- ❖ Facilitating and conducting test runs

- Aspen Hysys
- Aspen Plus
- KBC Petro Sim



Partner Services in India

Turnaround services (Partner – ITW, Italy)



2018
Nayara Energy,
Jamnagar

Decontamination jobs for the CDU / VDU units during Turnaround 2018



2018
Reliance Industries
Ltd, Patalganga

Online Cleaning job of severely fouled heat exchanger in VCFE Unit for petrochemical plant



2017
HMEL, Bhatinda

Decontamination jobs for the units (DCU, VGOHT, SWSs, ARUs, SRUs, cracked & saturated LPG treaters, flare system) during turnaround

Contact Details



Head office: Jamnagar, Gujarat, India
Branch Office: Sharjah, UAE



+91 9586696222
+971 557853321



anwar.tatariya@izzibs.com
sales@izzibs.com



www.izzibs.com