

Hyperion Consulting Division

hyperiongroup

HYPERION SYSTEMS ENGINEERING

ENGINEERING A BETTER WORLD

SAFE, EFFICIENT, SUSTAINABLE

August 2025

hyperionconsulting



Who We Are

Hyperion provides engineering advisory and consulting services, and implements advanced industrial IT solutions in the hydrocarbons, chemicals, power generation and discrete manufacturing industries.

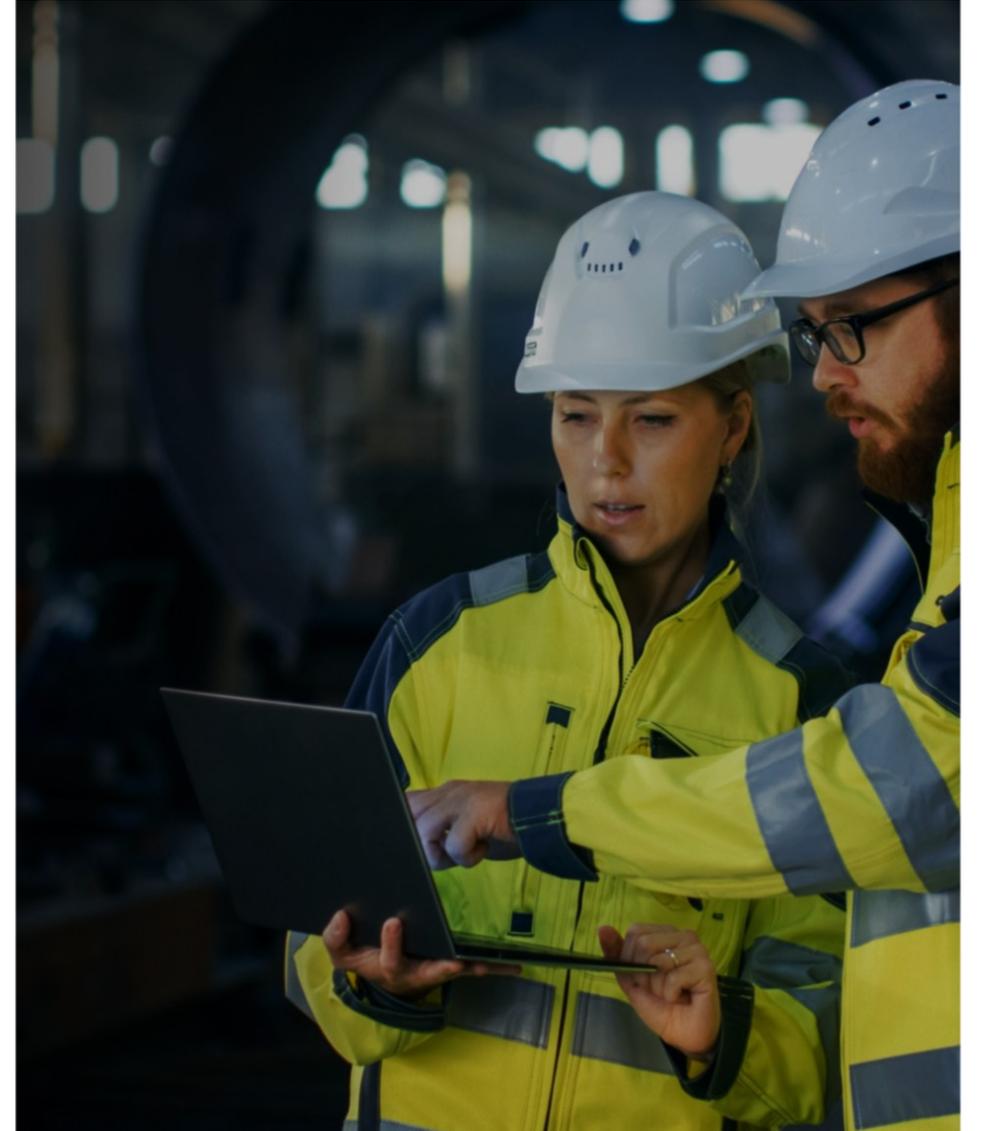


Resource and Identity

Flexible team of professionals, many with postgraduate qualifications and considerable industrial experience.

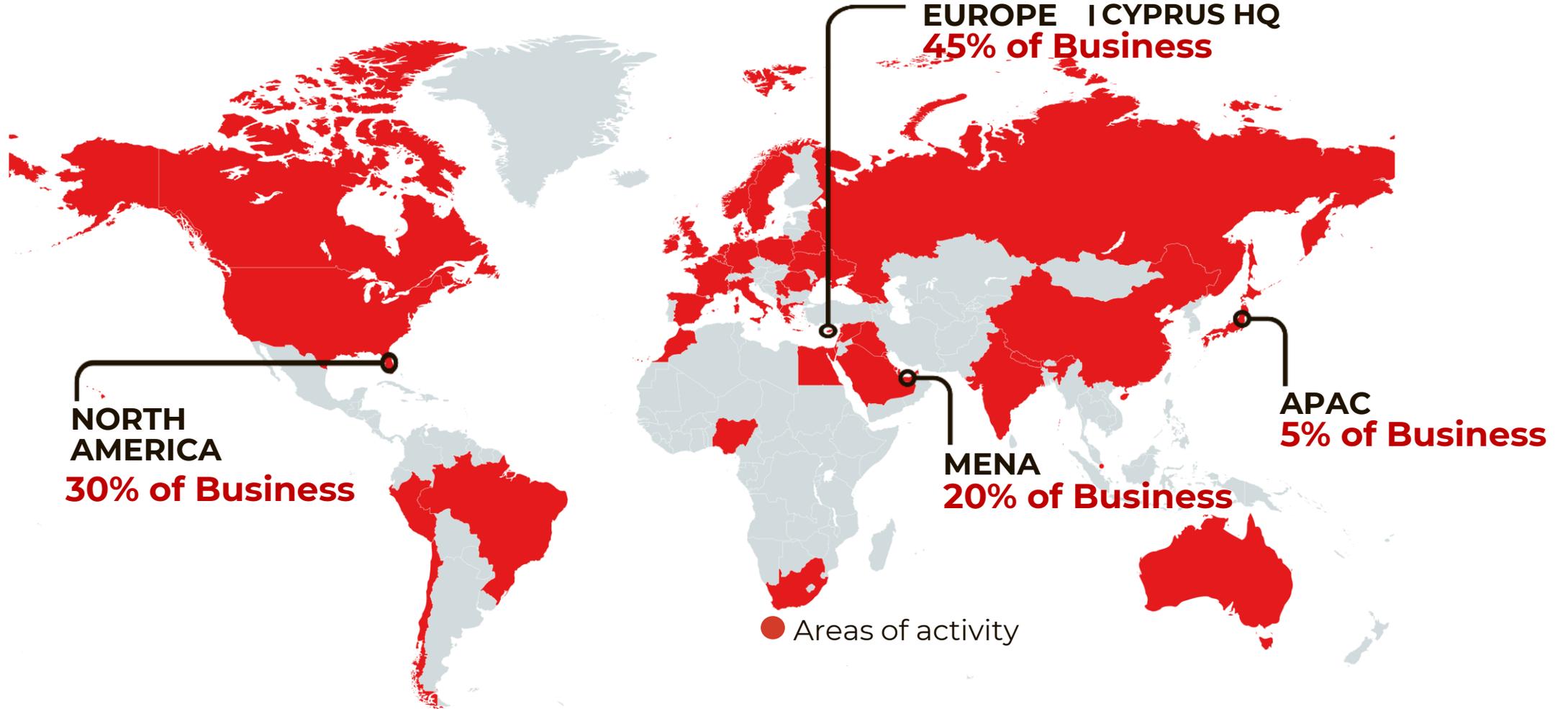


Worldwide Customer Base



A Glocal Company

Global Footprint, Local Delivery



Repeat Customers
90%

Countries Operated
50+

Projects Delivered
500+

Delivering Excellence

Global Reach, Measurable Impact



				
<ul style="list-style-type: none"> • Optimizes manufacturing and supply chain operations with both standard and custom software solutions. • Focuses on production planning, scheduling, logistics, and real-time plant management. • Provides PMO support and ongoing training for sustained operational excellence. 	<ul style="list-style-type: none"> • End-to-end support for power projects, from assessments to commissioning and maintenance. • Specializes in engineering, procurement, construction, and post-project performance monitoring. • Offers niche services like SSR mitigation, plant upgrades, and emissions control. 	<ul style="list-style-type: none"> • Serves the hydrocarbons sector in Cyprus and the Eastern Mediterranean. • Provides advanced process automation, field instrumentation, and specialized equipment. • Offers upstream software solutions for pipeline management and oil/gas field development. 	<ul style="list-style-type: none"> • Long-Term Partnerships: Focus exclusively on sustainable, long-term workforce solutions. • Global Talent Pool: Access a curated network of experts for enduring roles and technical needs. • Dedicated Support: Build committed teams that evolve with your business for consistent growth. • Strategic Impact: Enhance organizational stability and drive ongoing performance improvements. 	<ul style="list-style-type: none"> • Integrated predictive production solution for the polymer industry. • Combines a digital twin toolkit with AI-driven analytics and soft sensors. • Enhances real-time quality monitoring, process optimization, and KPI tracking to reduce waste and improve production consistency.

Success Enablers

Fueling Progress With Trusted Partnerships



TECHNICAL ALLIANCE PARTNERS



R&D PARTNERS



STRATEGIC PARTNERS



PRINCIPALS

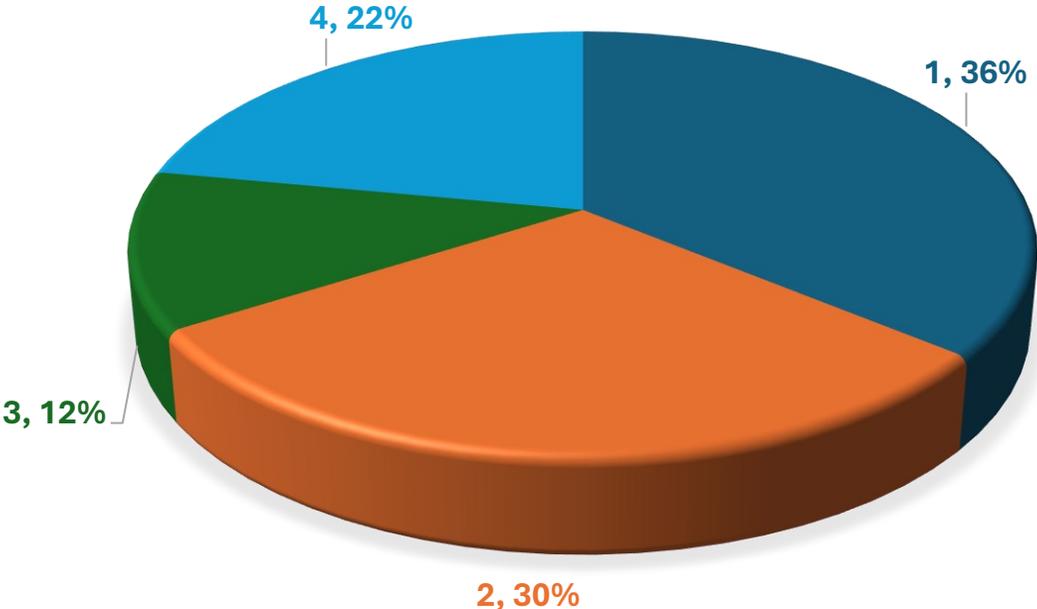


Our Services Footprint

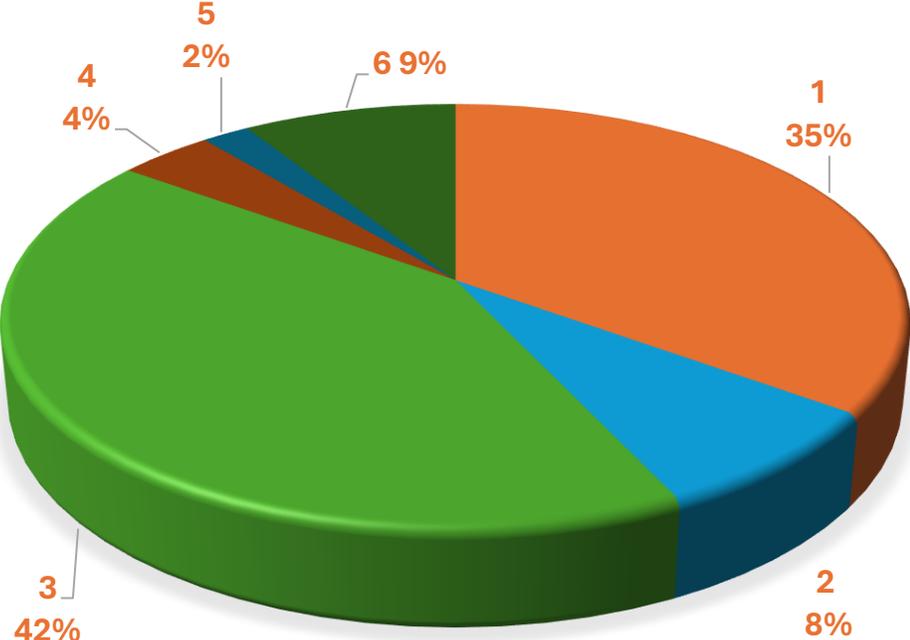
Delivering Solutions and Supporting Customers since 1993



BY SOLUTION AREA



BY GEOGRAPHY



Planning Scheduling & Blending Optimisation



Commitment to and In-depth knowledge of **AspenTech** Technologies

Strong and Proven Service Implementation Record and reputation in the Middle East & GCC region

Experienced and Cost Competitive **SCM Teams** for solution delivery

Implementation and Support Services

- Design, Development and Implementation (Production Planning, Production Scheduling and Blending Optimisation)
- Maintenance and Technical Support
- Business Process Re-engineering

Additional Services

- Awareness Workshops
- Expertise and support in specific SCM areas
- Conceptual presentations
- Technical workshops
- **Standard and Customized** demos and prototype development

Industries

Petroleum Refining
Petrochemicals
Oil & Gas
Chemicals
Lubricants
Pharmaceuticals

Software

Aspen PIMS AO / AUP
Aspen APS / AUS
Aspen MBO
Aspen Supply Planner
Aspen Plant Scheduler
Aspen Collaborative
Demand Forecasting
& Demand Mgt.



Manufacturing Execution Systems & LIMS



Commitment to and in-depth knowledge of selected technologies from **AspenTech** and **Thermo Fisher Scientific**

Strong and Proven Service implementation record and reputation particularly in the **Middle East GCC Region**

Experienced and Cost Competitive **Manufacturing Execution Systems** Teams

Implementation and Support Services

- Installation, Configuration and Integration
- Upgrade and Migration Services
- Complex System Architecture Design
- Graphics and Reports Development
- Data Retrieval and Analysis

Industries

Petroleum Refining
Petrochemicals
Oil & Gas
Chemicals
Cement
Pharmaceuticals

Software

Aspen IP.21
Aspen APRM
Aspen APEM
Aspen AORA / AURA
Aspen AtOMS
Aspen Dataworks Inmation
Thermo Sample Manager

Additional Services

- End user and system administration training
- Application and Software Maintenance
- Technology audits
- Topology and redundancy architecture studies
- Information Technology FEED studies
- Project Management



Process Modelling & Simulation



Commitment to and In-depth knowledge of **AspenTech** process simulation software technology

Decades of heritage in Dynamic Modeling and Operator Training Simulators

Proven ability to build and manage cost competitive world class skilled services delivery teams

Implementation and Support Services

- Steady State and Dynamic Process Modeling
- Reactor Model development and calibration
- Model recalibrations based on new run data
- Vector Generation for LP Planning Models

Additional Services

- Use of Dynamic Simulation for equipment sizing verification studies
- Custom-process modeling training workshops for customers, based on their own models.

Industries

Petroleum Refining
Petrochemicals
Oil & Gas
Lubricants
Chemicals

Software

Aspen HYSYS / RefSYS
Aspen Plus
Aspen Reactors Models



Recent Projects



Customer	KNPC
Location	Kuwait
Project	Multi-year, on-site support program for AT Refining Applications
Term	2012 - 2027



Customer	BOROUGE
Location	Abu Dhabi
Project	<ul style="list-style-type: none"> Batch Tracking & OLPA IT/OT Feed Studies PMO Establishment
Term	2003 - 2026



Customer	LUBEREF
Location	Saudi Arabia
Project	Production Planning & Scheduling Optimisation (multiple phases)
Completed	2017, 2018, 2022



Customer	KIPIC
Location	Kuwait
Project	Refinery & LNG Imports Terminal Production Scheduling Applications
Term	2025



Customer	ADNOC Refining
Location	Abu Dhabi
Project	Petroleum Refinery (3 plants) Scheduling Applications
Term	2016 - 2018, 2021



Customer	SABIC / Saudi Kayan
Location	Saudi Arabia
Project	<ul style="list-style-type: none"> Batch Tracking Operational Workflows Automation
Completed	2017, 2018



Customer	KPC
Location	Kuwait
Project	Country-wide Global Planning Optimisation System & Support
Term	2025 - 2028



Customer	Water Development Dept
Location	Cyprus
Project	Laboratory Information Management Systems Deployment Support & Enhancements
Term	2017 - 2026



Customer	ELPEDISON
Location	Greece
Project	Real-time MES Systems applications installation & support/extensions
Term	2018 - today

Customer Testimonials



Fahad Salem Saad Albathani
Senior Engineer, Technology Support,
Manufacturing Optimization Group (MOG)

“For over 10 years, our Manufacturing Optimization Group at KNPC has been successfully cooperating with Hyperion Systems Engineering for the provision of onsite resident engineering resources to support and enhance a range of refining software applications.”



Pericles Tsoutsanis
IT Director

“For more than 5 years we have been successfully using Hyperion resources to enhance our technical capabilities through staff augmentation, to secure expertise in advanced technology solutions and ensure the proper and seamless functioning of our MES applications in the manufacturing process and their integration with other plant critical systems. This collaboration allows ELPEDISON to meet specific operational needs efficiently with the flexible and high quality outsourcing managed services offered by Hyperion.”



Francisco Sugranes
CTO

“This letter is to express our gratitude to the Hyperion Power Services (HPS) team for the excellent support provided to Inkia Energy for more than a decade. Inkia Energy’s operations in over thirteen countries include Power Generation & Power Transmission. Throughout this time HPS has been a key partner in Inkia’s successful Operations, Maintenance and Growth of our business”



Andrea Merluzzi
Vice President Digital Solutions

“We started our collaboration with Hyperion approximately two years ago with the purpose of extending our technical office with resources combining software development capabilities with process industry knowledge and experiences. Today, thanks to Hyperion’s effective and proactive communication attitude, we’re working as a unique distributed team.”



REFERENCES



References

MES PROJECT EXAMPLES / REFINING & PETROCHEMICALS



 Al Jubail, Saudi Arabia

 Real-time Batch Tracking applications based on AspenTech InfoPlus.21 and APRM - Operational Workflows Automation based on APEM

 PP Plant – Commissioned 2017
HDPE Plant – Commissioned 2018
LDPE Plant – SAT Completed 2018
PC Plant – SAT Completed 2018



 Ahmadi, Kuwait

 Multi-year, on-site support program for AspenTech Refining Applications (PIMS, ORION, AORA/AtOMS, HYSYS, IP.21) in all KNPC Refineries.

 IP.21 Contract-1 (2012 – 2015)
IP.21 Contract-2 (2015 – 2018)
SCO Support Contract (2013 –18)
SCO Support Contract (2018 –22)
SCO Support Contract (2022 –27)



SHAPING the FUTURE with PLASTICS

 Al Ruwais, UAE

 Real-time Batch Tracking and OLPA (On-Line Polymer Analysis) Applications based on AspenTech MES (IP.21 and APRM).
IT/OT FEED studies for B3 and B4 expansions.
PMO establishment & handover

 Borouge 1 (Batch Tracking) - 2003
Borouge 2 (Batch Tracking) - 2009
Borouge 3 IT/OT FEED - 2013
Borouge 3 PMO - 2015
Borouge 3 (Batch Tracking/OLPA) – 2016
Borouge 4 IT/OT FEED - 2020
Borouge 4 (Batch Tracking/OLPA) - Ongoing



References

PROCESS MODELING & SIMULATION



2013-to-date

- Refinery Process Models for MAA/MAB maintenance, support and enhancement
- Re-calibration and issue of LP Vectors
- Custom-produced user training workshops on refinery process modeling



Ahmadi, Kuwait



- Dynamic & Steady-state Simulation for Process and Training is Hyperion's oldest area of activity.
- Since 1997 we created and managed dedicated simulation services teams, working with software tools from AspenTech, Invensys/AVEVA, and RSI/CORYS.
- Conducted Dynamic Simulation studies and delivered/supported Operator Training Simulators for various Hydrocarbons & Chemicals companies around the world



Saudi Arabia / GCC



Europe



Rest of World



References

SCM PROJECT EXAMPLES / LUBRICANTS



Jeddah, Saudi Arabia



Yanbu, Saudi Arabia



Aspen PIMS Model Upgrade

Add in the existing X-PIMS model new units for the Yanbu Refinery.

Integrate the new units in the existing structure and ensure smooth and optimal model run

Provide on-site support/consulting for model usage



Completed (2017)



Aspen Plant Scheduler Solution Design and Development.

Scheduling Model Integration (Custom and In-Built with other systems)

Procedural Model Testing Off-Site (FAT) and On-Site (SAT) with approved Test Plans

Provide on-site support/consulting for model usage



Business Release 1
Completed 2018

Business Release 2
Completed 2022



References

SCM PROJECT EXAMPLES / PETROLEUM REFINING



 Moscow, Russia
Mumbai, India



Engagement with KPMG Russia. Audit of the Refining Planning Business Processes as part of the due diligence following the acquisition of Essar by Rosneft. Technical Audit of Essar Aspen PIMS model for accuracy and efficiency.



Completed 2018



 Salavat, Russia



Aspen PIMS Model Audit and Training. Detailed Model Review On-Site and Remotely. Development of Final Audit Report and Presentation of Findings for to Improve Model Performance and Accuracy, Easy Use and Maintenance Standard Essential, Intermediate and Advanced plus Custom PIMS Training.



Completed 2014



РОСНЕФТЬ

 Moscow & Samara,
Russia



Aspen PIMS & Aspen DPO Model Audit
Detail Model Review On-Site and Remotely.
Development of Final Audit Report and Presentation of Findings for to Improve Model Performance and Accuracy, Easy Use and Maintenance



Completed 2015



References

POLYMERS / A 20-YEAR HISTORY WITH BOROUGE



A cooperation tracing its origins back in 2003 when Hyperion participated as an AspenTech subcontractor in the Borouge-1 Batch Tracking project, based on IP.21 & Batch.21 suite.

During their first expansion wave in 2009 (Borouge-2), Hyperion was selected to upgrade the Batch Tracking solution, this time as the main turn-key delivery contractor.

During the second expansion wave in 2012 (Borouge-3), Hyperion was selected to perform the IT Strategy & FEED Study, an engagement which was followed by the establishment of the PMO (Project Management Office) which oversaw the delivery of all IT projects identified during the IT FEED. The PMO office was handed over to Borouge in 2015.

Hyperion was also selected for the B3 Batch Tracking Solution project, which included a major upgrade with the introduction of OLPA (OnLine Polymer Analysis). Project successfully delivered in 2016.

Hyperion was selected again to deliver the IT/OT FEED STUDY for the Borouge-4 expansion, which kicked-off in Jan 2020 and was successfully completed in Oct 2020 amidst the global COVID pandemic.

In 2023, Hyperion was again selected to for the Borouge-4 Batch Tracking & OLPA solution expansion (on going).



References

PETROLEUM REFINING / Planning, Scheduling & Blending Optimisation



Hyperion delivered the Aspen APS & MBO Roll-out program to all three ADNOC Refineries (Abu Dhabi, Ruwais East and Ruwais West) as part of ADNOC Refining RIS Project, with Honeywell as the overall RIS integrator.

Provided the Design and Development of the APS/MBO Scheduling models for three sites in Abu Dhabi and Ruwais plus Integration between those.

Delivered and Executed Procedural Model Testing Off-Site (FAT) and On-Site (SAT) with approved Test Plans

Provided Standard and Custom User Training for Aspen PIMS and Aspen APS/MBO

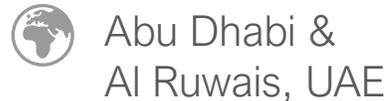
Provide on-site support/consulting for models usage (user handholding)

Provide Integration Design and Development between Planning (X-PIMS) and Scheduling (Refineries APS) models Plus Integration with all ADNCO Refining other systems

Provide Design and Generation of various custom Planning and Scheduling Reports

Provide Design and Generation of Planning and Scheduling Dashboard Visualization

The project duration was 30 months / completed in June 2019.



Abu Dhabi &
Al Ruwais, UAE



References



PETROLEUM REFINING / Multiple Applications Long Term Support Provision

Consulting and AspenTech Solutions Portfolio Support:

Hyperion has been active in Kuwait since 2003 and started its first project with KNPC in 2006 (PMC & Subject Matter Expert Services for refinery Planning, Scheduling and Blending Optimization).

Since 2012 we engaged in Aspen IP.21 on site support, then in 2014 started on site support for Aspen MSC (Manufacturing Supply Chain) solutions at MAA, MAB and SHU refineries. A second four-year cycle contract (2018-22) was renewed after an international competitive process for 5 more years until 2027.



Additional Projects delivered for KNPC outside the main Support Contract:

- ✓ Aspen IP.21 Upgrade
- ✓ SCO Applications Suite Upgrade
- ✓ MES Audit Implementation of Event Management Solution
- ✓ HYSYS Trainings (Basic, Intermediate and Advanced)
- ✓ Additional functional support (Planning / Aspen PIMS)
- ✓ New PIMS Models for CFP (Clean Fuels Project-MAA Refinery)
- ✓ EPC of Flare Gas Recovery Facilities (MAB Refinery)
- ✓ M20 Substation Replacement – IP21 Augmentation & Integration
- ✓ New AORA (Advisor) Model for CFP
- ✓ New APS Models for CFP.
- ✓ Configuration of FGRU DCS Tags in IP21.
- ✓ Development of a Products Shipment Tracking Solution
- ✓ Configuration of IP21 AspenTech system for KNPC KOC Molten Sulfur Handling Facility Project
- ✓ Implementation of a1PE (Aspen One Process Explorer) at KNPC
- ✓ Aspen mMDM management and revamp for CFP
- ✓ Material Balance graphics in a1PE
- ✓ Alert System
- ✓ New MBO Model for Mogas Blending.
- ✓ Data Analysis for Senior Management Dashboards (MS PowerBI)
- ✓ Rigorous HYSYS Models for yield estimation
- ✓ Modelling of 4th and 5th LPG trains in HYSYS
- ✓ Automated the generation of Refinery Back-casting report



References

MES PROJECT EXAMPLES / CEMENT



- 2014 Kaluga, Russia
- 2014 Greece (History Migration)
- 2013 Al Safwa , Saudi Arabia
- 2012 Voskresensk , Russia
- 2012 Randfontein , South Africa
- 2012 Lakatabu , Nigeria
- 2011 Lviv , Ukraine **
- 2011 Bouskoura , Morocco
- 2011 Lichtenburg , South Africa
- 2009 Volos , Greece
- 2007 Milaki Chalkis, Greece
- 2006 Medgidia , Romania **
- 2006 Malogoszcz , Poland
- 2005 Karsdof , Germany **
- 2004 Tetouan , Morocco
- 2004 Meknes, Morocco



Aspen IP.21 Roll-out program: For over a decade, Hyperion has worked with Lafarge Cement, deploying the Plant Data Historian solution based on the AspenTech Infoplus.21 platform.

Deployments typically covered historian installation, configuration and connection to the SCADA, creation of reports and training of the plant users.

Depending on the technology and organizational readiness of the plants, the project duration varied from 4 to 9 months.

Cooperation ended after the merge with Holcim and the divestment of several plants to CRH



References

MES PROJECT EXPERIENCE / PHARMA



Working for several years as subcontractors for the AspenTech EMEA Services organisation, Hyperion engineers delivered various MES Solutions based on Aspen IP.21 Production Data Historian, Electronic Batch Records (ARPM - APEM) and integration with LIMS systems.



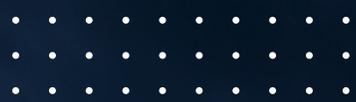
Delivered as subcontractors for AspenTech a turn-key Collaborative Forecasting & Demand Management Solution for Actelion Switzerland



Delivered a turn-key production scheduling solution based on Aspen Plant Scheduler for Medochemie Cyprus.



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THANK YOU

