hyperiongroup

Engineering intelligence for the physical world.

Three decades of engineering inside refineries, polymer plants, terminals and power assets, and the intelligence we build on that knowledge.

Hyperion Systems Engineering Group, since 1993

September 2026 · Version 11 · Confidential

Hyperion at a glance

Founded in Nicosia in 1993, Hyperion helps energy and process companies understand complex operations, connect their systems and make better decisions. Five businesses span consulting, power engineering, energy automation, industrial software and embedded technical teams.

1993	51	500+	200+	90%
Founded in Nicosia, Cyprus	Countries with delivered projects	Projects delivered	Clients served	Repeat-client rate; engagements of 5–20+ years

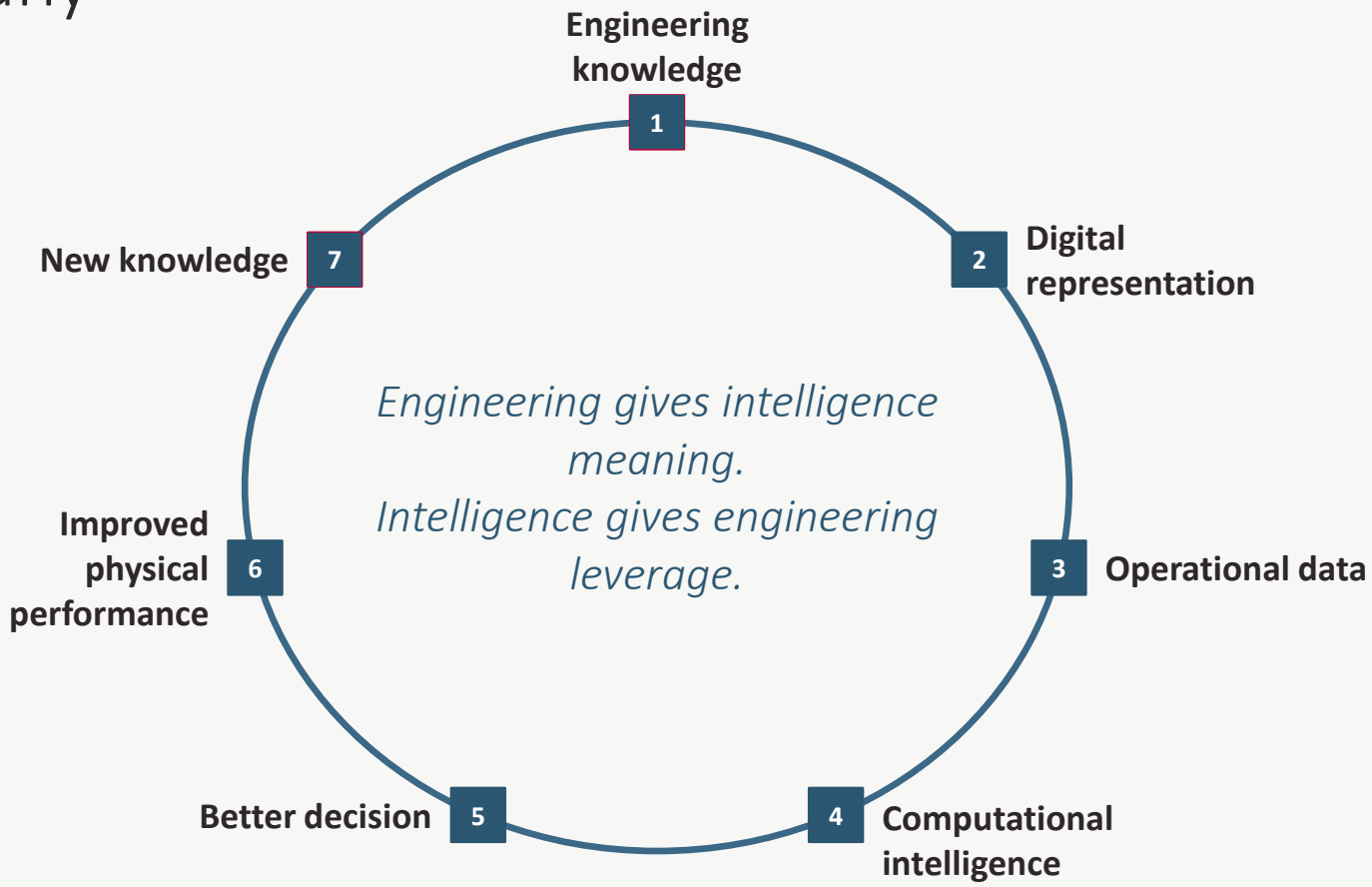
ISO 9001:2015 certified · Certified Innovative SME, Republic of Cyprus · Offices in Cyprus, Greece, USA and Peru · Strategic alliances with AspenTech, Honeywell and Nexans

An engineering company becoming an engineering-intelligence company

Engineering remains the foundation. Services generated around 99% of group revenue in 2025. Our two software products, HYPPOS-AI and HSTS, grew directly out of that project work.

What changes is the model. Engineering knowledge is captured in models and software that improve with every deployment, so each project strengthens the products and each product opens new operational problems to engineer.

Where we are heading. Our five-year plan (Vision 2031) targets about one-third of revenue from recurring software and intelligence services by 2031, without ceasing to be an engineering company.



What we believe

The principles behind how we engineer intelligence into operating assets, drawn from The Hyperion Doctrine, our statement of how we work.

01 Reality before abstraction

Physical systems remain the reference. A model is valuable because it represents reality, not because it replaces it.

02 Systems before components

A plant can be optimised in parts and still perform badly as a whole. We define the system before we solve it.

03 Engineering knowledge before algorithms

Technology should grow out of understanding the process it is meant to improve.

04 Decisions before dashboards

Intelligence that does not reach a decision is unfinished engineering.

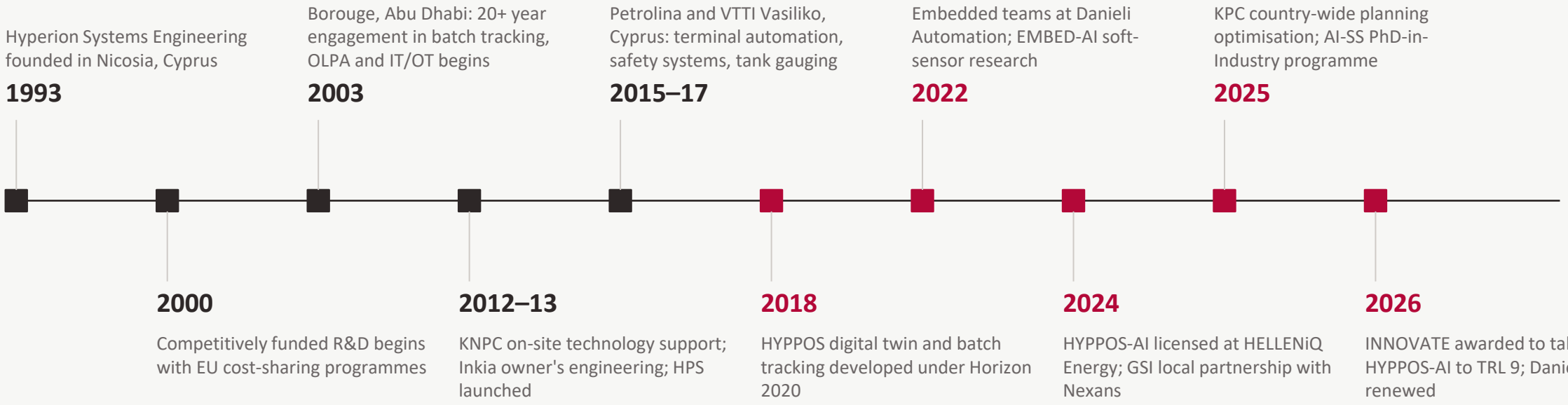
05 Trust through evidence

Industrial intelligence earns authority through demonstrated performance on the plant, not through claims.

06 Human judgement governs objectives

Machines can optimise decisions. People remain responsible for what is being optimised.

Milestones: from engineering projects to engineering intelligence



Every engagement leaves reusable knowledge. HYPPOS-AI and HSTS are that knowledge, made repeatable.

DELIVERING ENGINEERING INTELLIGENCE WORLDWIDE

Global expertise. Local impact.

500+ projects · 51 countries · 33 years · 56 staff and about 70 associate specialists

OUR MISSION

Connect expertise. Engineer intelligence. Deliver confidence.



Countries with delivered projects Historical projects

Headquarters in Nicosia; offices in Cyprus, Greece, USA and Peru · US entity about 13% of FY2025 revenue

SHARE OF PROJECT ACTIVITY BY REGION

Europe (HQ) — **35%**

HELLENiQ Energy, Motor Oil, Enerwave, ENI, Danieli; the Great Sea Interconnector

MENA — **30%**

KNPC, KPC, Borouge, ADNOC, Aramco, SABIC, Luberef

North and Latin America — **30%**

Inkia, ENGIE, Kallpa, Saavi, Valia Energía, New Fortress, Siemens Energy

APAC — **5%**

Shell SEPC, Danieli China; projects in Australia, India, Southeast Asia

INDUSTRIES WE SERVE

- **Refining, oil and gas**
- **Petrochemicals and chemicals**
- **Power generation and grids**
- **Maritime and terminals**
- **Water and environment**
- **Metals, cement, pharma, F&B**

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Five businesses, one engineering purpose

Hyperion Systems Engineering Group · Nicosia, Cyprus · Privately held · Established 1993. Each business stands on its own and feeds the knowledge behind our products.

01

Consulting

Planning and scheduling, MES, real-time information, LIMS and advanced process control for refining, petrochemicals and chemicals.

Intelligence in practice

Optimisation, material tracking, quality soft sensors and APC models running on live plant data.

02

Power Services

Owner's engineering, technical due diligence, feasibility studies, root-cause analysis and forensic engineering for power assets.

Intelligence in practice

Data-driven failure analysis, grid stability and sub-synchronous resonance (SSR) studies.

03

Energy

Process automation, instrumentation, SCADA and specialised equipment for energy infrastructure in the Eastern Mediterranean.

Role in the group

Terminal and fuel-infrastructure know-how: the operational origin of HSTS.

04

Innovation

Turns industrial experience into software: HYPPOS-AI for polymer production and HSTS for maritime terminals.

Intelligence in practice

HYPPOS-AI soft sensors and digital twin; HSTS intelligent maritime operations.

05

People

Dedicated, embedded engineering teams and long-term technical resourcing for industrial OEMs and energy companies.

Role in the group

Recurring, multi-year engagements that keep Hyperion engineers inside client delivery teams.

Serving oil and gas, refining, petrochemicals, chemicals, power, metals, cement, pharma, and food and beverage.

Better production decisions in refining and chemicals

Hyperion Consulting

Connects planning models, plant systems and operational expertise to improve scheduling, execution and performance in existing facilities, with long-term support that keeps systems useful as operations change.

PROOF POINTS

KNPC

Since 2006

Client since 2006; continuous on-site advanced technology support since 2012, contracted to 2027.

BOROUGE

US$4.77M

Documented savings from the OLPA deployment (Borouge 2019 Sustainability Report).

Planning and scheduling	Planning models, country-wide optimisation
Manufacturing execution	MES/MOM, batch tracking, accounting
Advanced process control	APC and online performance analysis (OLPA)
Real-time information	Historians, dashboards, KPIs
Laboratory information	LIMS design, implementation and integration
IT/OT strategy and FEED	Audits, architecture, roadmaps, PMO

Selected clients

Independent engineering judgement for power assets

Hyperion Power Services

Helps owners and investors understand technical risk in thermal and renewable assets. Former OEM project leaders advise from feasibility and construction through operations, failure investigation and life extension.

PROOF POINTS

INKIA ENERGY

61 projects

Delivered for Inkia Energy and its subsidiaries Kallpa Generación and Orazul over more than ten years.

SIEMENS ENERGY, USA

6 projects

Awarded and delivered since July 2024 in a growing engagement.

Owner's engineer	Development, EPC and commissioning
Root cause and forensics	Turbines, generators and balance of plant
Due diligence and M&A	For buyers, sellers and lenders
Feasibility studies	New build, repowering and life extension
Grid integration	Interconnection, grid stability and SSR
Specialists on demand	Outages, inspections, performance testing

Selected clients

inkia ENERGY · Saavi ENERGIA · celepsa · NewFortress energy · SIEMENS energy · ENGIE

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Safer, more observable energy infrastructure

Hyperion Energy

Connects field instruments, control systems and terminal operations, designing, supplying and supporting automation and safety systems for fuel infrastructure in Cyprus and the Eastern Mediterranean.

PROOF POINTS

PETROLINA

Since 2015

Terminal automation, DCS/ESD, fire and gas and tank gauging for Petrolina's terminals.

LAFS · PETROLINA GROUP

10+ years

Uninterrupted 24/7 operation of the aviation fuelling system at Cyprus's main international airport.

Terminal automation	DCS/ESD, fire and gas for terminals
Tank gauging	Level, temperature and inventory management
SCADA and automation	Control and monitoring for energy facilities
Field instrumentation	Supply, installation, commissioning
Marine jetty and loading	Loading arms, metering and safety systems
Specialised equipment	Gas turbines, valves and fuelling solutions

Selected clients

PETROLINA · vtti · LAFS LCA Aviation Fueling System LTD · ROYAL AIR FORCE

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Technical professionals embedded in client teams

Hyperion People
Builds dedicated technical teams for industrial OEMs and energy companies. A core team of professionals, many with postgraduate qualifications and deep industrial experience, is extended by a network of associate engineers and consultants, so capacity and specialist expertise match each engagement.

PROOF POINTS

KNPC

14 years

Hyperion specialists providing on-site and remote support for KNPC in Kuwait.

DANIELI AUTOMATION

5 years

Five teams renewed for a fifth year, 2026–27, across software, PCS7 and simulation.

Selected clients

DANIELI AUTOMATION

HELLENiQ ENERGY

شركة البترول الوطنية الكويتية
KNPC

Dedicated teams	Software, PCS7, simulation, automation
Employer of record	We employ the team; the client directs the work
Screened talent	Every CV checked against each requirement
Performance management	Evaluation, retention, development
Tender staffing	Manning for projects and commissioning
AI-assisted engineering	Teams working with AI development tooling

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How we engineer intelligence, and how it earns trust

We start from the operational decision, not the algorithm. Machine authority then expands only as performance on the plant is demonstrated.

Step 1

Observe

Listen to operators, measure real performance, map constraints and risk.

Step 2

Connect

Join plant data with context: material, equipment, people and the decision that matters.

Step 3

Engineer and model

Apply engineering judgement to build models and integrate them into plant systems.

Step 4

Learn and improve

Track outcomes, refine the models and carry the learning into the next deployment.

AUTHORITY FOLLOWS DEMONSTRATED PERFORMANCE



In practice: HYPPOS-AI soft sensors predict polymer quality every 2–5 minutes at HELLENiQ Energy and advise operators, who decide. Models are trained and validated on each client's plant; client data is never shared or used for other customers.

HYPPOS-AI: the digital brain of the smart factory

Manufacturers know what enters and leaves their plants, but often lack a clear view of what happens in between. HYPPOS-AI uses existing plant data to build a live digital twin that tracks material and predicts product quality in real time, without new hardware.

Real-time material tracking

Follows every kilogram from reactor to silo, with full digital ancestry.

Living digital twin

A continuous model of process state and material flow as production happens.

AI virtual laboratory

Soft sensors predict MFR and XS every 2–5 minutes, without waiting on the lab.

HELLENiQ Energy, Greece · 220 ktpa polypropylene plant

US$400K+
margin uplift per year

±5%
MFR prediction vs lab

20%
less off-spec product

25%
shorter grade transitions

10.5 kt
CO_2 reduction per year

Licence renewed three years running (2024–2026). Results presented by HELLENiQ Energy at SusChemE-SUSTENS2, Athens.

Borouge, Abu Dhabi · the polymer heritage

14
polymer lines with batch and material tracking

US$4.77M
documented savings from the foundational OLPA deployment

Source: Borouge 2019 Sustainability Report. INNOVATE (2026–28) now extends this accuracy across grades and quality properties and takes the integrated platform to TRL 9.

HYPPOS

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HSTS: the operating system for maritime terminal operations

Terminals lose money to demurrage because nobody owns the operational data between terminal and vessel. HSTS connects both sides of the port call, from nomination to departure.

Product 1 · Terminal Platform

End-to-end shipment control: scheduling, tank allocation, vessel activity logging, certification and a tamper-evident audit trail.

Product 2 · Vessel App

One-tap, offline-first event logging on the bridge, with AI prediction, shared timestamps and emissions-reporting support.

Designed from a production deployment at a major Gulf petroleum terminal operator and shaped by early market feedback

25–30%	40%	100%	3+ yrs
demurrage reduction	operational time saved	shipments tracked	live in production

A second demand driver in Europe. EU MRV (since 2018), the EU ETS for shipping (phased in 2024–26) and FuelEU Maritime (from 2025) make verified voyage and port-call data a compliance requirement for vessels calling at EU ports.

Proof of concept. A bespoke implementation running in a production environment for 3+ years, which with early market feedback shaped the product specification.

Next step. Complete HSTS product development and test in real environments. Pilot discussions are under way in Italy and Cyprus.

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Research that becomes product

Since 2000 Hyperion has taken part in 10 competitively funded EU and national programmes with combined budgets of about €9M, receiving €1.66M directly to 2025. INNOVATE (€0.90M budget, €0.46M grant) now joins AI-SS, both co-funded by the Research & Innovation Foundation.

Research programme

HYPPOS-AI · INNOVATE · 2026–2028

Develops and commercialises HYPPOS-AI as an integrated platform for real-time quality monitoring and optimisation in polypropylene plants, combining AI soft sensors with the HYPPOS digital twin and batch tracking.

Targets: prediction error below 5% across grades · at least 20% less off-spec material and energy · TRL 9 by 2028

Talent programme

AI-SS · PhD in Industry · 2025–2028

With CaSToRC of The Cyprus Institute, extends the soft sensors proven under EMBED-AI to melt flow rate, xylene solubles and polymer characteristics, tackling accuracy drift with physics-informed ML, online learning and a dynamic mixture of experts.

Targets: prediction error below 10% on new properties · TRL 2–5 research feeding the product roadmap

Research partners

The Cyprus Institute — Research · Technology · Innovation

University of Cyprus

Cyprus University of Technology

Research & Innovation Foundation

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Long partnerships on consequential assets

Kuwait National Petroleum Company · client since 2006, contracted to 2027

14 years

of continuous on-site support

One of Hyperion's longest-running engagements: work in Kuwait began in 2003 and the first KNPC project in 2006, with continuous on-site advanced technology support since 2012. Scope covers process optimisation, advanced process control, manufacturing execution and real-time performance management across KNPC's refineries.

Borouge · since 2003, ongoing

23 years

of advisory, implementation and support

IT/OT architecture, batch tracking, real-time optimisation and PMO across Borouge's polyolefins complex in Ruwais, Abu Dhabi. The foundational OLPA deployment contributed to US$4.77M in documented savings (Borouge 2019 Sustainability Report). This polymer footprint is the technical heritage of HYPPOS-AI.

LANDMARK ENGAGEMENT

The local partner global leaders trust

Hyperion is the named strategic local partner to Nexans on the Great Sea Interconnector, the HVDC link between Greece, Cyprus and Israel: an EU Project of Common Interest supported by €657M from the Connecting Europe Facility.

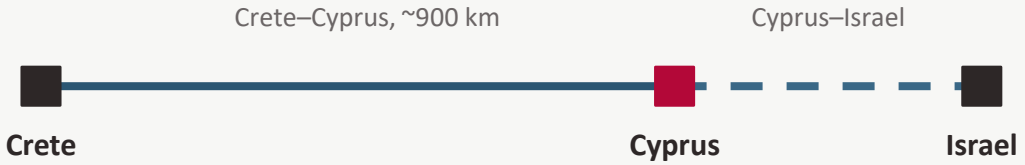
Nexans NEXTGEO

HYPERION'S ROLE

Two contracted roles on the Crete–Cyprus link.

With Nexans: local partner support, from client and authority liaison to licences, customs and local subcontractors.

With NextGeo, for the marine works: local support and engineering services in Cyprus.



PROJECT STATUS, AUGUST 2026

- Meridiam became majority shareholder of the GSI project company (5 Aug)
- GSI, IPTO and Nexans signed the agreement for seabed surveys
- Cyprus–Israel investment request filed with both regulators (13 Aug)

€1.43bn
Nexans turnkey cable contract

2×898 km
world's longest subsea HVDC cable

>3,000 m
deepest HVDC cable ever to be laid

2,000 MW
capacity, 1,000 MW in the first phase

Sources: ADMIE (IPTO) Holding notice, 5 Aug 2026; Cyprus Mail, 13 Aug 2026.

Selected engagements with global and local industry leaders

51 countries · 500+ projects delivered · 200+ clients served · 90% repeat-client rate

Client	Location	Scope	Term
KNPC	Kuwait	Multi-year on-site advanced technology support, refining applications	2012–2027
Borouge	Abu Dhabi, UAE	Batch tracking, OLPA, IT/OT FEED, PMO; HYPPOS material tracking	2003–present
KPC	Kuwait	Country-wide global planning optimisation system	2025–2028
Nexans / NextGeo	Cyprus–Greece	Strategic local partner, Great Sea Interconnector	2024–present
Inkia Energy	Peru, Latin America	Owner's engineering and field services	2012–present
Danieli Automation	Italy	Distributed software development, PCS7 and simulation teams	2022–present
HELLENiQ Energy	Greece	Supply chain and asset performance management; HYPPOS-AI; technical staffing	2023–present
VTTI Vasiliko	Cyprus	Tank gauging, safety systems and marine jetty	2017–present
Petrolina	Cyprus	Terminal automation: DCS/ESD, fire and gas, tank gauging	2015–present

What our clients say

"

We started our collaboration with Hyperion to extend our technical office with resources combining software development with process industry knowledge. The relationship has been smooth and productive from the very beginning.

Andrea Merluzzi

VP Digital Solutions, Danieli Automation

"

HPS has been a key ally in Inkia's successful operations, maintenance and growth for more than a decade across thirteen countries. We have found a timely, efficient and effective response in all issues.

Francisco Sugranes

CTO, Inkia Energy

"

For over 10 years, our Manufacturing Optimization Group at KNPC has been successfully cooperating with Hyperion Systems Engineering. Their expertise and commitment have been instrumental in driving operational improvements.

Fahad Salem Saad Albathani

Senior Engineer, KNPC

"

For more than seven years we have used Hyperion resources to strengthen our technical capabilities, secure expertise in advanced technology solutions and keep our MES applications running and integrated with other plant-critical systems.

Pericles Tsoutsanis

IT & Digital Transformation Director, Enerwave

Partners extend what Hyperion can deliver

Strategic and technology

Technology relationships that strengthen delivery across industrial systems

Technical alliances

Specialists who add capacity and depth when projects need it

Equipment principals

Equipment and technology principals for energy infrastructure

An experienced management team with deep industry roots



Dr. Symeon Kassianides

Founder, Chairman and CEO

Founded Hyperion in 1993 and built it into an international group: 500+ projects in 50+ countries. 13 years with AspenTech technologies in simulation, APC and MES. Chaired DEFA and was founding Chairman of ETYFA (Vasilikos LNG), 2017–21. Trustee Emeritus, The Cyprus Institute.



Stavros Spanos

Deputy CEO

Joined Hyperion in 2001. 25+ years in technology partnerships, sales and business development, including establishing and operating Hyperion's offices during its international expansion. Six years chairman of the Cyprus National Accreditation Body.



George Kassianides

President, Hyperion Power Services

40+ years in engineering and project management. 17 years at Siemens Energy as Director of Latin American Projects, with P&L for EPC projects up to US$1.6B. Co-founder of HPS in 2013.



Evangelos Alepochoritis

Managing Director, Europe; CEO, HYPPOS

25+ years of international commercial leadership across energy, aerospace and industrial technology. Has generated over US$500M in sales and led teams of 70+.



Andronikos Kassianides

Business Development Manager; CEO, HSTS

Business development and client relationships across energy and process industries; leads HSTS product strategy, go-to-market and BD across Europe and the GCC.

FINANCE AND AI LEADERSHIP

Finance and AI leadership for the next stage of growth and for succession.



Panayiota Hadjiyianni · Head of Finance

Leads group finance, accounting and reporting since 2018; 18 years in accounting, reporting and audit.



Symon Doe · Chief AI Officer

35 years in simulation, process control and digital systems for petrochemicals. Architect of the HYPPOS material-tracking and AI soft-sensor stack.

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Talk to us about your operations.

Operators

Start with an operational diagnostic: we map one decision, its data and its value on your plant.

Investors

Request the investor appendix and data room: financials, backlog and the Vision 2031 five-year plan.

Partners

Explore teaming with your local engineering partner in the Eastern Mediterranean, the Gulf and the Americas.

36 Athalassis Street, 2201 Geri, Nicosia, Cyprus · hyperionsystems.net

ISO 9001:2015 certified · Certified Innovative SME · Established 1993

Appendices

A **Investors**

Financial performance · backlog, bookings and pipeline · Vision 2031 plan

B **Customers**

Deployment, data ownership, cybersecurity and support

C **Partners**

What we bring and how we team

D **Project experience**

Selected projects by service package, region and case study

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Deploying engineering intelligence on your plant

HYPPOS-AI and HSTS are deployed into existing, brownfield operations. Four questions every operator asks, and our answers.

Deployment

On-premise, with an air-gapped option. Connects to existing historians, LIMS, DCS and MES through OPC-UA, MQTT and REST; no new plant hardware for HYPPOS-AI.

Data ownership

Customer process data belongs to the customer. It is never shared with third parties or used to train models for other customers. A Data Processing Agreement with each customer sets ownership, use, access and retention.

Cybersecurity

HYPPOS-AI runs entirely inside the customer's OT/IT network and needs no internet or external connections. Information security aligned with ISO 27001; ISO 9001 certified.

Support

Remote and on-site support, model performance monitoring and annual licence renewal; HELLENiQ Energy has renewed three years running.

No autonomous decisions: HYPPOS-AI outputs numerical predictions for operators, and every model is documented, versioned and auditable. Architecture documentation and data-flow diagrams are available for customer security reviews.

HOW AN ENGAGEMENT RUNS

1 Diagnostic: one decision, its data, its value

2 Pilot on live data alongside the lab

3 Deployment and operator adoption

4 Sustainment: monitoring and retraining

Partnering with Hyperion

Own the knowledge that defines your advantage; partner for the capabilities that amplify it. We team with global OEMs, EPCs and technology vendors where local presence and engineering depth decide delivery.

What we bring

- Registered local presence in Cyprus, Greece, USA and Peru; staff also based in Kuwait and the UK
- Multi-discipline engineering: process, automation, power, software and data
- 56 named staff (Cyprus 33, Greece 7, USA 6, Peru 6, Kuwait 2, UK 2), plus about 70 associate specialists under contractor agreements
- Long client relationships across Europe, MENA and the Americas (90% repeat rate)
- Proven teaming: Nexans and NextGeo on GSI; AspenTech and Honeywell integration; embedded teams for Danieli

Partner due-diligence facts

HSE record, insurance cover, and local registrations and licences are provided on request as part of partner due diligence.

How we team

Strategic local partner

Local engineering, permitting and site support for international contractors, as with Nexans on the Great Sea Interconnector.

Technology integrator

Implementation and long-term support for AspenTech, Honeywell and other industrial software platforms.

Consortium or joint venture

Joint bids on FEED, owner's engineering and automation tenders, with Hyperion as local or specialist member.

Embedded teams

Dedicated engineering teams working inside a partner's own delivery structure.

Consulting and digital: selected projects

Planning, scheduling, MES and long-term application support delivered for refiners and petrochemical producers in MENA and Europe.

Client	Location	Scope	Period
Borouge	UAE	IT/OT strategy and FEED studies (B3, B4); project management office set-up, operation and handover	2014–2021
Borouge	UAE	Batch tracking and OLPA for B3 and B4, AspenTech MES	2016–2026
KNPC	Kuwait	Multi-year on-site and remote sustain-value programme for Aspen refining applications	2013–2027
KNPC Al-Zour Refinery & LNG Import Terminal	Kuwait	Al-Zour refinery scheduling, Aspen Unified Scheduling	2025–2026
KPC	Kuwait	HQ corporate planning work processes; country-wide planning model, Aspen Unified PIMS	2026
ADNOC Refining	UAE	Refinery scheduling for three refineries, Aspen Petroleum Scheduler	2017–2020
Luberef	Saudi Arabia	Lubricants production planning (Aspen PIMS); scheduling optimisation for two plants	2017–2022
SABIC Saudi Kayan	Saudi Arabia	Batch tracking for PP, LDPE, HDPE and PC plants, AspenTech MES	2018
Danieli	China	Plantwide steel MES, level 3, on Danieli technology	2025–2026
Danieli Automation	Italy	Technology resource augmentation for software development	2022–present
HELLENiQ Energy	Greece	Technology resource augmentation for refining applications	2021–present
Enerwave	Greece	Support programme for Aspen plant real-time applications	2018–2028
Water Development Dept.	Cyprus	LIMS consolidation, upgrade and instrument integration, Thermo SampleManager	2026

Automation and supply: selected projects in Cyprus

Control and safety systems, field instrumentation and specialised equipment for fuel terminals, water and defence infrastructure.

Client	Site	Scope	Systems and principals
Petrolina	Vasilikos terminal	Process control, ESD and SCADA; automated tank gauging; flame and gas detection; Jet A-1 filtration	Honeywell Experion, Safety Manager, Enraf, Parker
LAFS (Petrolina group)	Larnaca airport fuels terminal	Process control, ESD and SCADA; automated tank gauging; double block and bleed valves	Honeywell Experion, Enraf, Omni Valve
VTTI	Vasilikos terminal and jetty	Portable gas detection; jetty double block and bleed valves; servo tank gauges	BW Honeywell, Omni Valve, Control Seal
VLPG	LPG plant	Process control, ESD and SCADA; guided-wave radar level and pressure measurement; truck-loading flow computers	Honeywell Experion, SmartLine, Fusion4
Electricity Authority of Cyprus	Power stations	Servo tank level gauging	Honeywell Enraf
Water Development Department	National water network	RTU terminals; online water property analysers; LIMS consolidation (2026)	Honeywell, Thermo Scientific
Caramondani	Desalination plant	Process control and SCADA, PLC-based	Honeywell
RAF Akrotiri	Military bases	Double block and bleed valves; magnetostrictive level control; Jet A-1 microfilters and separators; custom fuel storage tanks	Posiwell, Alisonic, Parker

Power services: selected projects in the Americas

Owner's engineering, root-cause analysis and grid studies delivered by Hyperion Power Services across North and Latin America.

Client	Country	Scope
Excelerate Energy	Jamaica	Technical support for LNG-to-gas conversion of 3 MW Caterpillar reciprocating engines
ENGIE Energía	Peru	Pre-feasibility and Phase I and II studies for an auxiliary boiler at Chilca 1 and Chilca 2
Siemens Energy, Innovation	USA (FL)	Project management for an R&D demonstration project: development work, site engineering, permitting and contractor selection
Pinellas County Government	USA (FL)	Root-cause analysis of high steam-turbine vibration at a waste-to-energy plant
Structural Integrity Associates	USA (CA)	Root-cause analysis of the Metcalf Aeropac generator fire
Inkia Energy	Peru	Root-cause evaluation of the Las Flores HP steam turbine gearbox failure; correction curves for COES; integration of two contractor schedules for a PV plant
Kallpa	Peru	Witnessed major inspection of a GE generator
Saavi Energía	Mexico	Root-cause analysis of the Bajío fuel pump coupling failure; fuel analysis for 501F gas turbine start-up; investigation of magnetic chips in a TM2500 lube oil sump
Mitsubishi Power Americas	USA (UT)	Sub-synchronous resonance evaluation for a two-unit J-class installation under construction
Inkia Energy / Samay Energía	Peru	Sub-synchronous resonance failure investigation and mitigation at Puerto Bravo
Valia Energía	Mexico	Root-cause analysis of drive-train vibration on Bravo River CLR TG31
LS Power	USA (TX)	Client representative for an emergent 501F major inspection with exhaust cylinder replacement

Case studies: refining supply chain in Kuwait and the UAE

KNPC · Kuwait

Refinery planning and scheduling · 2006–2027

CONTEXT

Hyperion has served clients in Kuwait since 2003 and began working with KNPC in 2006 on planning, scheduling and blending optimisation. On-site support followed from 2012, with competitive tenders won in 2014, 2018 and 2022, taking the engagement to the end of 2027.

WHAT WE DO

Custodian of the Aspen Petroleum Scheduler models for the MAA, MAB and SHU refineries: keeping them aligned with the evolving refinery configuration and operating envelope, and improving model structure and scheduling logic. New models were built for the Clean Fuels Project.

WHERE IT LEADS

The KNPC Al-Zour Refinery & LNG Import Terminal Aspen Unified Scheduling project now serves as the pilot for migrating the MAA and MAB models to Aspen Unified Scheduling.

ADNOC Refining (formerly Takreer) · UAE

Refinery scheduling roll-out · 2017–2020

CONTEXT

Honeywell Middle East tendered the refinery scheduling component of the wider refinery information system programme. With the refineries already using Aspen PIMS for planning, ADNOC required scheduling on Aspen Petroleum Scheduler, and Hyperion was awarded the contract.

WHAT WE DID

Designed and developed scheduling models for three sites in Abu Dhabi and Ruwais with intra-refinery transfers; integrated planning and scheduling with other ADNOC systems; ran factory and site acceptance testing; delivered custom reports, dashboards and user training.

RESULT

Delivered as an integral part of the Honeywell programme team over 30 months, including on-site support.

Case studies: new scheduling technology and long-term support

KNPC Al-Zour Refinery & LNG Import Terminal · Kuwait

Aspen Unified Scheduling · 2025–2026

CONTEXT

KNPC Al-Zour Refinery & LNG Import Terminal is the first company in Kuwait to deploy Aspen Unified Scheduling. The refinery has three crude units, three residue desulphurisation units, naphtha, kerosene and diesel treaters, a gas plant, hydrogen, amine and sulphur units.

WHAT WE DID

Captured the existing scheduling process in a functional design specification, reproduced complex delta-based PIMS models as custom Java-scripted units, built the unified site catalogue, and worked with AspenTech on product issues found during execution.

RESULT

Kicked off April 2025 with site acceptance testing completed in February 2026, for a team that had not used a scheduling application before.

Enerwave (formerly Elpedison) · Greece

Aspen InfoPlus.21 support · 2018 to date

CONTEXT

Enerwave is a leading private electricity producer and retailer in Greece, running Aspen InfoPlus.21 historians at its Thessaloniki and Thisvi plants. Hyperion was selected as support provider in 2018.

WHAT WE DO

Audited the historian and CIM-IO servers, centralised plant process data, and built daily reporting of production against ADMIE data and gas consumption against DESFA data, with calculations, SAP and asset-performance integration and gateway redundancy.

RESULT

A two-year frame contract signed in 2019, renewed in 2021 and 2023 and placed on automatic renewal in 2025; 24/7 local application support for real-time production monitoring and energy trading decisions.

Case study: twenty-three years with Borouge

The longest polymer engagement in the group and the technical heritage of HYPPOS-AI.

Borouge, Abu Dhabi Polymers Company · UAE

Batch tracking, OLPA, IT/OT and PMO · 2003 to date

HOW IT GREW

Subcontractor to AspenTech on Borouge-1 batch tracking (2003); turnkey contractor for the Borouge-2 upgrade (2009); Borouge-3 batch tracking with OLPA and forward tracking, delivered 2016; Borouge-4 expansion under Tecnimont from 2023.

CONSULTING AND PMO

IT/OT strategy and FEED study for Borouge-3 (2012), covering the gap analysis between current and target state and defining the projects needed for operational readiness at the end of construction; PMO set-up, operation and handover (2014–15).

Footprint today

Coverage and result

COVERAGE

Batch tracking and OLPA across five polypropylene lines, seven polyethylene lines, two LDPE lines and the two Borouge-proprietary XLPE lines, making Hyperion one of the longest-serving technology vendors on the complex.

RESULT

The foundational OLPA deployment contributed to US$4.77M in documented savings (Borouge 2019 Sustainability Report). This polymer footprint is the technical heritage of HYPPOS-AI.