Automa

BGS GROUP

Congress Catalogue

E-CATALOGUE SPONSOR

Process Genius

AUTOMACONGRESS.COM

About Congress

Automa 2026 is a key B2B platform covering digital transformation at all stages of the oil and gas value chain — Upstream, Midstream, and Downstream. It brings together decision makers, key technical specialists and experts from Oil and Gas companies, EPCs, Pipeline Operators, Refineries, Service Providers, and Technology Developers. Attendees exchange insights, explore emerging trends, and discover actionable digital solutions aimed at optimising operations, enhancing efficiency, and accelerating industry innovation.

This year's agenda will focus on AI-powered transformation, smart infrastructure, digital decarbonisation, and autonomous operations. The congress will feature expert-led presentations and interactive sessions on topics such as generative AI in energy systems, predictive maintenance, digital twins, autonomous IoT, and emissions monitoring which together bridge strategic and technical perspectives to support a smarter, cleaner, and more resilient Oil & Gas future.

Inside this catalogue

SPONSORS AND PARTNERS 08

EXPONENTS 16

BUSINESS PROGRAMME ABSTRACTS 20

MEDIA PARTNERS 71

ABOUT ORGANISER 76

Events 2026–2027

AutomaChem	Chemical Automation and Digitalisation Congress	26–27 October 2026 Berlin, Germany
AutomaPlus	Pharmaceutical Automation and Digitalisation Congress	16–17 November 2026 Zürich, Switzerland
Decarbon	Oil & Gas Decarbonisation Congress	15–16 February 2027 Berlin, Germany
LNGCon	13th International LNG Congress	1–2 March 2027 Amsterdam, the Netherlands
Pharmap	Pharmaceutical Manufacturing and Packaging Congress	19–20 April 2027 Berlin, Germany
PRC Europe	Petrochemical & Refining Congress: Europe	24–25 May 2027 Vösendorf, Austria
Automa	10th Oil & Gas Automation and Digitalisation Congress	18–19 October 2027 Vösendorf, Austria

Sponsors & Partners

Regional Partner	Regional Partner	Regional Partner	Regional Partner	Regional Partner	Regional Partner
Premier Sponsor	Principal Sponsor	Diamond Sponsor	Gold Sponsor	Gold Sponsor	Gold Sponsor
Gold Sponsor	Gold Sponsor	Gold Sponsor	Silver Sponsor	Silver Sponsor	Silver Sponsor
Silver Sponsor	Silver Sponsor	Emerald Sponsor	Bronze Sponsor	Bronze Sponsor	Coffee Break Sponsor
Session Sponsor	Session Sponsor	Session Sponsor	Session Sponsor	Session Sponsor	Session Sponsor
Session Sponsor	Delegates Presents Sponsor	E-Catalogue Sponsor	X stream Sponsor	Badge Sponsor	Delegates Guide Sponsor
Notebook Sponsor	Delegates Bag Sponsor				

Media Partners

Strategic media partner

Process Genius

Turn Industrial Data Into Operational Excellence

See your factory, assets, and operations in one real-time 3D Digital Twin.

Genius Core™ transforms complex industrial data into a single, intuitive 3D view-giving every stakeholder the visibility needed to improve performance, reduce downtime, and drive smarter operations.

THE CHALLENGE

Siloed operational data
Critical information exists in disconnected systems.

Limited visibility
across systems
Hard to get the full picture of your operations.

Slow decision-making
Manual reporting and data gaps delay critical actions.

High downtime costs
Unplanned downtime and inefficiencies impact your bottom line.

www.processgenius.eu

Genius Core™ 3D Digital Twin Platform

Factory in your pocket!

See your factory, assets, and operations in one real-time 3D Digital Twin. Manufacturing and process industries generate thousands of data points every minute. Genius Core™ transforms this complexity into a single, intuitive 3D view, giving every stakeholder—from plant leadership to the shop floor—the visibility needed to improve performance, reduce downtime, and drive smarter operations.



BENEFITS

Replacing Dashboards
3D Digital Twin with your most critical operational data and intuitive visuals.

Safety & HSEQ
Visualized risk areas, incident tracking, and centralized safety data.

Predictive maintenance
Data and performance KPIs to reduce unplanned downtimes.

TRUSTED BY INDUSTRY LEADERS

ASSA ABLOY · storaenso · BOSCH · DANONE ONE PLANET. ONE HEALTH · elisa

See Genius Core™ in Action
Book a live a demo →

Sponsors & Partners

Shell Energy & Chemicals Park Rheinland

REGIONAL PARTNER

Shell Energy & Chemicals Park Rheinland, a subsidiary of Shell, is a global leader in the energy and chemicals sector, playing a key role in Shell's transformation towards becoming a net-zero emissions energy business. They are actively involved in developing and implementing solutions for a sustainable future.

Fluor

REGIONAL PARTNER

Fluor is a global EPC leader delivering complex engineering and construction projects. With 23,000 employees in 40+ countries and 110+ years of legacy, the Fortune 500 company is ranked ENR's No. 1 Design-Build Firm globally (2025), driving lasting impact worldwide.

Repsol

REGIONAL PARTNER

Repsol is a multi-energy company that provides solutions for customers' energy needs in mobility, homes, and businesses. With 24,000 employees in more than 20 countries and 24 million customers, it supplies fuels and essential products while transforming its Iberian industrial complexes into multi-energy hubs. Through talent, digitalization, and new technologies, Repsol is advancing its decarbonization roadmap toward net zero emissions by 2050.

Tata Consultancy Services (TCS)

PREMIER

Tata Consultancy Services is an IT services, consulting & business solutions organization partnering with world's largest businesses in their transformation journeys for over 56 years. TCS has 601,000+ of the world's best-trained consultants in 55 countries and generated US $29 billion revenue in FY 2024. TCS is recognized by MSCI Global Sustainability Index and the FTSE4Good Emerging Index. With 13000+ consultants focused on the oil & gas domain, TCS partners with 13 of the Global Fortune 500 oil and gas companies and offers services across the entire industry value chain.

Address: Tata Consultancy Services, PTI Building, New Delhi, Delhi, 110001, India
Tel.: +91 9821638798
Email: meenu.sarda@tcs.com
Contact name: Meenu Sarda
www.tcs.com

Linde plc

REGIONAL PARTNER

Linde Advanced Operations Services (LAOS) utilizes Linde's vast engineering and plantoperations experience to deliver cutting edge optimization, advanced process control andmonitoring solutions. These solutions help our customers to increase plant throughput, reducemaintenance cost and make their plants flexible for fluctuating market conditions.

MOL Group

REGIONAL PARTNER

MOL Group is a leading international oil and gas company headquartered in Budapest, Hungary. It operates in over 30 countries, with key business areas including exploration and production, refining, petrochemicals, and retail services. The company plays a significant role in Central and Eastern Europe's energy sector and is also investing in sustainable and innovative energy solutions for the future.

Saipem SpA

REGIONAL PARTNER

Saipem is an Italian multinational company headquartered in Milan, operating as a global leader in engineering, procurement, construction and installation services for the energy and infrastructure sectors. The company delivers complex offshore and onshore projects, combining advanced engineering capabilities with a strong asset-based approach that includes a specialized offshore fleet and drilling operations. Saipem supports clients across the full project lifecycle, from design and construction to installation and decommissioning, with expertise spanning subsea developments, offshore platforms, pipelines, LNG facilities, and large industrial plants. In recent years, the company has increasingly expanded its portfolio toward renewable energy and low-carbon solutions, positioning itself as a key enabler of the energy transition through offshore wind, sustainable infrastructures and innovative technologies aligned with its purpose of "engineering for a sustainable future.

Abeeway

PRINCIPAL

Abeeway, a Netmore company, provides advanced geolocation solutions for the oil & gas industry. Our ATEX/IECEx-certified smart badges and asset trackers combine LoRaWAN®, cellular, satellite, GPS, Wi-Fi and BLE technologies to deliver reliable indoor and outdoor positioning in hazardous environments. Designed to improve workersafety, asset visibility and operational efficiency, Abeeway helps industrial operators deploy scalable, low-power tracking solutions across refineries, pipelines, offshore facilities and remote sites.

www.abeeway.com

HiveMQ GmbH

DIAMOND

HiveMQ is the industrial data platform for Agentic AI. Built on MQTT, HiveMQ connects, contextualizes, analyzes, and enables action on real-time operational data to create trusted, AI-ready pipelines that deliver measurable outcomes from edge to cloud. Designed for always-on, mission-critical environments, the HiveMQ platform streams data at enterprise scale without fail and unifies OT and IT teams around governed, contextualized data.

Address: Postplatz 397, 84028, Landshut, Germany
Tel.: +49 871 97506300
Email: events@hivemq.com
www.hivemq.com

APEX Group

GOLD

APEX Heat Transfer is a leader in the design and production of heat exchangers for heavy-duty,energy-intensive industries, helping customers improve heat recovery, reduce operating costs, and lower emissions.
Our APEX® Suite Digital H–Ex Twin extends this expertise into the digital realm, transforming heat exchangers into dynamic digital assets. The platform enables predictive maintenance, fuel consumption optimization, system integrity forecasting, and equipment lifetime extension, helping operators prevent unplanned shutdowns, reduce OPEX, and gain deeper insight into thermal performance.

Address: Maanweg 174, 2516 AB Den Haag, The Netherlands
Tel: +31 (0)70 300 4242
Email: info@apexgroup.eu
www.apexgroup.eu

eQ Technologic Inc

GOLD

eQ Technologic delivers the eQube®-DaaS Platform, creating a unified data fabric that connects applications, data, and devices to enable real-time analytics and actionable insights. It supports integration, migration, synchronization, data federation, MBSE & secure collaboration. Que™, its AI-powered capability, enables organizations to build AI agents, accelerate analysis, and develops AI-driven solutions using trusted enterprise data. This empowers faster decision-making, improves operational efficiency, & ensures scalable, secure digital transformation across enterprises globally.

Address: 600 Anton Blvd #2070, Costa Mesa, CA 92626, United States
Tel.: +1 949-705-6656
Email: info@1eQ.com
Contact name: Gareth Webb
www.1eQ.com

CYBER RANGES

GOLD

CYBER RANGES is a strategic cyber capability enabler and a global provider of advanced cyber-physical range platforms, national-level cyber readiness and dynamic threat training programs for military, government, and critical infrastructure operators. CYBER RANGES supports the ICS Village, a non-profit equipping industry experts and policy makers with tools and a trained workforce to better defend critical infrastructures. A Gartner recognized range vendor, CYBER RANGES holds an annual Guinness Book of World Records award for most National CERT teams in one cyberdrill simultaneously.

Address: Quantico Cyber Range, Suite 305, 1010 Corporate Drive, Stafford, VA 22554, USA
Tel.: +1 800 953-0169
Email: contact@cyberranges.com
www.cyberranges.com
Offices: USA, UK, KE, CY, EE

OTIFYD

GOLD

OTIFYD is a specialist OT cybersecurity firm focused on protecting critical infrastructure. Headquartered in London, with a presence across Europe and the Middle East, we are built by engineers with factory floor and control room experience. OTIFYD takes a pragmatic, operations-first approach to security, delivering real-world assessments, architecture, incident response, and hands-on training for industrial environments.

Address: International House, 64 Nile Street, N1 7SR, London, United Kingdom
Tel.: +44 (0) 207 030 400
Email: info@otifyd.com
www.otifyd.com
Offices: UK, DE, UAE

IMC Service srl

GOLD

For 40 years, we at IMC Service have been designing products and solutions that optimize the production efficiency of industries and companies. Our customers, mainly industrial manufacturers, benefit from our experience with predictive activities such as integrated solution for automation in IR monitoring and especially in monitoring of COV and process temperature. Our consolidated collaborations with companies and universities, such as TotalEnergies, ETH Zhüric, Istituto Nazionale di Geofisica e Vulcanologia, Isab, Raffineria di Milazzo, Politecnico di Torino, are proof of this.

Address: Via Macello, 18 – 95030 Mascalucia (CT)
Tel: +39 095 727 30 19
Email: info@imcservice.eu
www.imcservice.eu/en

NETZSCH Pumpen & Systeme GmbH

GOLD

NETZSCH is your global partner for complex fluid management. We are a manufacturer of NEMOŽ progressing cavity pumps, TORNADOŽ rotary lobe pumps, NOTOSŽ multi screw pumps, PERIPRO peristaltic pumps, grinders, barrel-emptying units dosing systems and accessories. We globally supply custom made and sophisticated solutions for various applications.
Due to decades of experience, NETZSCH is an established participant and exchanges ideas with oil companies or refineries and pipeline operators or other manufacturers on digital solutions for the entire industry.
This makes NETZSCH the ideal partner.

Address: Geretsreider Straße 1, 84478 Waldkraiburg, Germany
Tel: +49 8638 63 0
Email: Info.nps@netzsch.com
www.pumps-systems.netzsch.com

Ab Initio Software

SILVER

The Ab Initio Data Platform leverages agentic AI and semantic knowledge to automate data management activities such as data integration, data governance, and data product delivery at enterprise scale. The result: reliable, explainable, AI-ready data you can trust.

Address: 3 The Heights, Brooklands, Weybridge, KT13 0NY, UK
Tel.: +44 870 850 8700
www.abinitio.com

YZ Systems

SILVER

YZ Systems specializes in advanced IIoT solutions, focusing on enhancing operational efficiency and safety in the oil and gas industry. Our Hazardous Area LoRaWAN device Aircom, leverages LoRaWAN technology to provide real-time monitoring and data collection across various field operations. Aircom enables seamless communication over long distances, making it ideal for remote hazardous locations. By offering actionable insights through predictive analytics, Aircom helps companies optimize resource management, reduce downtime, and ensure regulatory compliance, ultimately driving profitability and sustainability in the oil and gas sector.

Contact name: Jack Ridge
Tel.: +44 7434 659 734
Email: Jack.ridge@yzsystems.com
www.yzsystems.com/en

Alpha Process Control srl

SILVER

At Alpha Process Control, we empower industrial performance through advanced process control, optimization, and real-time analytics. Our proven solutions improve efficiency, reliability, and sustainability across complex operations. Now, we are pioneering a new era of plant intelligence with breakthrough AI that explains, monitors, and supports control decisions in real time. Our platform transforms organizational knowledge into accessible insights, enabling engineers and operators to make smarter, faster decisions. By bridging data and action, we are transforming how plants operate and learn.

Address: Via Giuseppe Impastato 1, 56122 Pisa (PI)
Tel.: +39 050 6201689
Email: info@alphaproc.com
www.alphaproc.com

Infinite Foundry

SILVER

Infinite Foundry is a Portuguese technology company specializing in Physical AI and real-time Operational Digital Twins. Our platform combines physics-based simulation, AI, computer vision, IoT and real-world data to enable intelligent, adaptive operations. We help industries monitor and predict asset behavior, optimize processes, and enable robotics and autonomous systems to understand and interact with the physical world. Our technology supports smarter, safer and more efficient operations across manufacturing, logistics, energy, aerospace and other complex environments.

Address: Rua Paulo da Gama, 629, Porto, Portugal
Contact person: Bruna Bento
Email: brunabento@infinitefoundry.com
www.infinitefoundry.com

WIKA Alexander Wiegand SE & Co.

SILVER

With 11,200 employees, the WIKA Group is a global market leader in pressure and temperaturemeasurement and sets the standard in the measurement of level, force and flow, and in calibration technology. The broad portfolio of high-precision products, solutions and services makes the family-run business a strong and reliable partner. WIKA's unique experience and know-how make sensing technology smarter, add more value and prepare it for a sustainable future: This is "Smart in sensing".

Address: Alexander-Wiegand-Str. 30, 63911 Klingenberg, Germany
Tel.: +49 9372 132-0
Email: info@wika.de
www.wika.com

Nova Industrial Analytics GmbH

EMERALD

Nova Industrial Analytics is a leader in next-generation process analytics, developing high-precision optical sensor systems for direct and reliable inline analysis of industrial production processes.
Thanks to miniaturized sensor technology and intelligent process interfaces, measurement probes can be flexibly integrated into solids, liquids, or gases. The technologies cover the UV-VIS, NIR, and MIR spectral ranges and deliver real-time data for greater efficiency, quality, and reliability.
An experienced team with extensive expertise and worldwide patent protection underscore the company's commitment to innovation.

Address: Nova Industrial Analytics LLC - New London, USA; Nova Industrial Analytics GmbH - Aalen, Germany
Tel.: +1 (518) 768-4479
Email: info@novaitx.com
www.novaitx.com

Transition Technologies PSC

BRONZE

We are experts in digital transformation, with 1,200 completed projects worldwide and 900+ specialists in IoT, Cloud, AR, Machine Learning, Enterprise PLM and other value chain technologies. We help global companies improve how products are designed, manufactured, operated and maintained.
With offices on three continents, we serve multiple industries and partner with leading technology providers, including PTC, Rockwell Automation, Atlassian, Microsoft, AWS, Google, RealWear, Ansys. TT PSC is part of Transition Technologies Group, a leading Polish IT provider with 30+ years of experience.

Address: University Business Park, Building B, Wólczańska Street 180, Łódź 90-530, Poland
Tel.: +48 661 799 553
Email: contact@ttpsc.com
www.ttpsc.com

g.on experience gmbh

SESSION

g.on experience is a German geospatial software company with 20+ years of experience managing complex industrial asset infrastructure. Our platform, g.on aimPort, g.on pm and g.on field connects every team to a shared digital picture of their site assets, networks, safety zones and operational processes, all in one web-based solution. Used by leading chemical, energy and infrastructure operators, g.onhelps sites reduce data silos, improve compliance and support real-time decision-making. EU data sovereignty.

Address: Willy-Brandt-Weg 13, 48155 Münster,
Tel.: +49 251 136500
Email: sales@gon.de
Contact name: Craig Nicolay
www.gon.de/en

IDEA TSG

BRONZE

IDEA TSG is a multidisciplinary engineering company founded in 2008 and one of Spain's leaders in technology integration. With 330+ professionals and projects across 26+ countries, we drive industrial digital transformation through BIM, digital twins, augmented reality and data analytics. Our expertise includes multidisciplinary engineering, EPC/EPCM projects, outsourcing, electrical grids, architecture and digital transformation. Through IDEA GREEN, we also deliver solutions in renewable energy, energy efficiency, green hydrogen and sustainable architecture.

Address: C/ Caleruega 81, Edificio Niza 4ºA – 28033, Madrid
Tel.: +34 917 034 404
www.ideatsg.com

Cyzag

COFFEE BREAK

Cyzag is a no-code, AI-powered platform helping oil & gas teams boost performance, profitability, and collaboration. It replaces paper, spreadsheets, and disconnected systems with real-time visibility, standardised execution, and live analytics. AI-powered tools digitise routines, reduce admin work, and enable faster, data-driven decisions. Used by frontline workers, supervisors, managers, and CI teams, it helps them act faster, reduce losses, and sustain improvements. Proven impact: €1M+ losses avoided, 2+ hrs saved/shift, 5x increase in user engagement.

Address: Hamilton House, Mabledon Pl, London WC1H 9BB
Contact name: John Papastylianou
Email: john@cyzag.com
Tel.: +44 794 794 9949
www.cyzag.com

Hexxcell Ltd.

SESSION

Hexxcell's mission is to bring digital innovation to industrial heat transfer systems, helping customers to decarbonise their operations, debottleneck production and to deliver long-lasting positive impact through their digitalization initiatives. Our Hybrid Digital Twin technology, developed in over a decade ofR&D and industrial feedback, combines AI with rigorous physics-based models and deep domain knowledge for advanced monitoring, predictive analytics, prescriptive maintenance of industrial heat transfer systems and production planning for oil refineries.

Address: One Lyric Square, London, W6 0NB, United Kingdom
Tel.: +44 (0) 2080501553
Email: info@hexxcell.com
Contact name: Francesco Coletti
www.hexxcell.com

NAFTOSENSE

SESSION

Naftosense is a collaborative venture between three innovativecompanies: Evteam Corp, Dagman SAS, and Elsa Advanced Systems. Naftosense technology offers advantageous combination of AI-driven analytics, high-precision data acquisition, and advanced sensors. The platform offers reliable real-time monitoring and actionable insights to optimize the early warning of spills of hazardous fluids.

Siemens AG

SESSION

Siemens AG is a leading technology company focused on industry, infrastructure and mobility. The company's purpose is to create technology to transform the everyday. By combining the real and the digital worlds, Siemens empowers customers to accelerate their digital and sustainability transformations, making factories more efficient. As a leader in industrial AI, Siemens leverages its deep domain know-how to apply AI to real-world applications across a wide range of industries.
In fiscal 2025, the Siemens Group generated revenue of €78.9 billion and employed around 318,000 people worldwide.

Siemens AG. Digital Industries, Sales, Vertical Market Development Shemicals & Energy, DI S V CHEM VMD1
Address: Oestliche Rheinbrueckenstr. 50
76187 Karlsruhe, GERMANY
Tel.: +49 173 1703387
Email: bernd.kalusche@siemens.com
www.linkedin.com/company/siemens
www.siemens.com

VALUE HYBRID GLOBAL S.L.

SESSION

Value Hybrid is a technology company transforming industrial safety through Value Digital LOTO, a patented solution that fully digitalizes Lockout/Tagout processes. By connecting software with electronic hardware, the platform improves safety, traceability and operational efficiency while simplifying complex procedures. Value Hybrid supports industrial organizations across the globe in modernizing LOTO and building safer, more connected operations.

Address: C/Gobelas, 15 – Entresuelo Derecha, 28023 Madrid, Spain
Contact name: Paulina Rodriguez
Tel.: +34 910 639 308
Email: info@valuehybrid.com
www.valuehybrid.com

SES

SESSION

SES offers a unique multi-orbit satellite architecture that empowers energy companies to meet their connectivity needs. Whether its sites with low bandwidth requirements or complex oil fields with digitalized operations built with thousands of IoT sensors and data-intensive business processes, SES's GEO and its newest Medium Earth Orbit (MEO) constellation O3b mPOWER can deliver fromMbps to multi-Gbps, anywhere.
With SES, extending your headquarters network into any location - even in the most remote areas - is possible. With guaranteed performance, low latency and unmatched flexibility, SES can help you evolve your business efficiency and profitability. Find out more on ses.com.

Softing Industrial Automation GmbH

SESSION

Softing specializes in digital data exchange and has many years of experience in process automation technologies and ex-capable hardware. We have contributed with our expertise to developing important standards such as PROFIBUS and Foundation Fieldbus, and are active in technical groups such as the FieldComm Group, PROFIBUS & PROFINET International, ODVA and OPC Foundation. We were involved in defining the Namur Open Architecture (NOA) standard and offer innovative connectivity products for digital asset management and the IoT, working with plant operators and system integrators.

Address: Richard-Reitzner-Allee 6, D-85540 Haar
Email: info.automation@softing.com
www.industrial.softing.com

Tribosonics

DELEGATES PRESENTS

Tribosonics' acoustoSENSE technology provides oil and gas operators with real-time visibility into the performance of valves and slow rotating bearings, helping to maintain compliance, improve safety and prevent loss of product.acoustoSENSE detects acoustic emissions at much higher frequencies than alternative solutions, dramatically reducing false positives resulting from mechanical noise. With its always-on operation (unlike traditional sleep-wake systems), combined with ultra-low power consumption and long battery life, it is especially valuable for monitoring pressure relief devices.

Address: Units 2 & 3 Edmund Road Business Centre, 135 Edmund Road, Sheffield, UK
Contact name: Mark Wallace
Email: m.wallace@tribosonics.com
Tel.: +44 7752 852854
www.tribosonics.com

Process Genius Oy

E-CATALOGUE

Process Genius is a leading provider of spatial intelligence solutions for industrial operations, delivering the world's first platform of its kind to enterprise clients globally.
Genius Core enables a real-time, holistic view of assets, processes, and infrastructure. By integrating data, assets, and systems into a unified environment, it creates a single source of truth and delivers AI-driven insights to improve efficiency, reliability, and performance.

Address: Torikatu 19 B, 1 st. floor, FI-80100 Joensuu, Finland
Tel.: +358 10 419 1000
Email: info@processgenius.fi
www.processgenius.eu

Sourse

DELEGATES BAG

Sourse leverages Earth Intelligence to digitalise pipeline aerial surveillance through its solution Horizon.Driven by AI and automated data processing, Horizon delivers high-resolution imagery (10 cm/px), geolocated TPI alerts in less than 4 minutes, and proactive encroachment management (vegetation and urbanisation). All observation data is centralised, standardised, and fully traceable for complete network oversight. Trusted to monitor 120,000 km of critical infrastructure across Europe for major operators, Horizon optimises safety and operational performance across Midstream networks.

Address: 44, Rue Capitaine Aviateur Jacquet, 5020 Namur, Belgium
Email: info@sourse.eu
Tel.: +32 471 804 212
www.sourse.eu

deeplify GmbH

X STREAM

deeplify is an AI action layer for mechanical and asset integrity in safety-critical energy infrastructure. It connects inspection data, IDMS/APM systems, historians, maintenance records, and engineering documents to turn fragmented evidence into governed, traceable workflows. Engineers stay in control while deeplify prepares context, checks data quality, flags anomalies, and accelerates defensible integrity decisions across assets and sites.

Arent Inc. / PlantStream

DELEGATES GUIDE

PlantStream is a solution developed by Arent Inc. and was introduced in 2020 with the aim to provide next-generation 3D CAD, to free plant engineers from labor-intensive work and create a field where they can maximize their creativity.
To achieve optimal outcomes within the constraints of cost and schedule, it is essential to continuously raise efficiency through automation.
Our subscription-based approach promotes the agile involvement of users thus accelerating valuable knowledge transfer.
Together let us pursue a world where engineers can focus on innovation and bring new value to society.

Address: 3rd Floor, KDX Hamamatsucho Building, 2-7-19, Hamamatsucho, Minato-ku, Tokyo, 105-0013, Japan
Tel.: +81-3-6222-8808
www.plantstream3d.com

IMI Process Automation

BADGE

IMI manufactures high-performance pneumatic and hydraulic technology for both valve automation and direct control of process media.Our range of actuators, instrumentation, and smart positioners are complimented by wireless IoT sensors and asset monitoring software. Renowned for faultless reliability in arduous conditions, our solutions are depended upon to deliver safe and efficient automation while delivering breakthrough engineering for a better world.

UP42 GmbH

NOTEBOOK

UP42 transforms how organizations order, access, and analyze Earth Observation data. UP42's platform simplifies data access, streamlines data management, and enables imagery processing at scale, making it easy to create geospatial solutions.

Address: Ohlauer Str. 43, 10999 Berlin, Germany
Tel: +4930 403675420
Email: sales@up42.com
www.up42.com

CYZAG

THE AI DIGITAL OPERATIONS PLATFORM BUILT FOR YOUR PEOPLE



Oil & gas operations still rely on disconnected systems, manual workflows, and siloed knowledge.
Cyzag fixes that, connecting your people, your data, and AI in one place,

VALUE FROM THE FIRST SHIFT

RUNNING IN OIL & GAS OPERATIONS

TRACEABLE AUDITABLE AI-READY

WHY CHANGE

Billions are being invested in AI across oil and gas to improve efficiency, safety, and compliance. Yet most AI systems still underperform because they lack visibility into the human execution layer where operational decisions, actions, and knowledge happen.

Cyzag bridges that gap so your AI learns from reality, not just sensors.

PROVEN IMPACT

€1M+
LOSSES AVOIDED

2+
HOURS SAVED PER SHIFT

4x
INCREASE IN USER ENGAGEMENT

BUILT FOR DAILY OPERATIONS

SHIFT
Structured daily execution, shift continuity and AI-assisted handover.

ROUNDS
Digital field inspections, real-time readings & early abnormality detection.

OEE
Production performance tracking, loss analysis and efficiency gain.

PROCESS EFFICIENCY
Operational cost, energy optimisation and process improvement.

QUALITY & CARE
Deviation management, compliance and automatic audit trail.

IMPROVE
AI-accelerated root cause resolution and continuous improvement.

SEE CYZAG IN ACTION
BOOK A DEMO TODAY
www.cyzag.com/request-demo

cyzag.com | cyzag-limited | info@cyzag.com

Exponents



4DLabs

4DLabs is an innovative software company specializing in Digital Twins and Immersive Simulations of industrial plants. With a strong track record in oil and gas since 2017, we leverage digitalization and automation to drive efficiency and sustainability. Our virtual replicas of industrial sites help reduce the industry'scarbon footprint while significantly enhancing operational safety and efficiency, supporting a greener, safer, and more sustainable future.

Email: info@4dlabs.it
Tel.: +39-085-9434090
Contact name: Piergiorgio Gallerati
www.4dlabs.it

ALOXY

Aloxy offers industrial IoT solutions tailored to the needs of the (Petro) chemical industry.
The first application Aloxy developed is manual valve monitoring, which consist of a software solution to calculate the position and monitor the sensors (Aloxy IIoT HUB), as well as the Atex sensors that send raw movement data via LoRaWAN using a patented technology. This is already widely adopted by industry majors around the globe.
The second application is a Connection device to send PT100 or 4-20MA data over LoRaWAN. Aloxy focusses on high-quality, user friendly interfaces and easy integration.

Address: Aloxy NVSint Pietersvliet 72000, Antwerp, Belgium
Contact person: Frank Gielissen, CEO
Email: frank.gielissen@aloxy.io
www.aloxy.io

Assai Software Services B. V.

Clarity in Complexity
Assai Software is a global enterprise software company specializing in document control and asset information management for asset-intensive industries.
Assai supports organizations worldwide in maintaining reliable, governed engineering information across projects and operations, helping them manage complexity, ensure compliance, and protect the integrity of critical asset data.

Address: Parallelweg Oost 13a, 4103 NCCulemborg, the Netherlands
Tel.: +31 345 516 663
Email: t.boers@assaiglobal.com
www.assai-software.com

Akenza AG

akenza is the tech-agnostic and secure IoT platform for all your data.
An ecosystem of smart features to fit any use case.
It's the middleware that allows IoT innovators to build and scale business cases – fast.

Address: Binzmuehlestrasse 170A, 8050 Zurich, Switzerland
Email: ask@akenza.io
www.akenza.io

ASDEA

ASDEA develops software and patented MonStr monitoring technology that turns criticalstructures into AI-driven digital twins able to predict remaining life. At the core is STKO PRO, our nonlinear finite element platform for analyses standard tools cannot handle. MonStr feedsthe model with live data, while AI detects anomalies and supports fatigue, RUL and integrity assessment of aging oil & gas assets. AI identifies the signal; nonlinear physics explains what itmeans. STKO and MonStr are trusted worldwide.

Address: Via Breviglieri, 8 – 65128 Pescara (PE)
Email: info@pec.asdea.net

Dynamox

Dynamox is a Brazilian technology company delivering an integrated asset performance management ecosystem. By combining wireless vibration, temperature, and electrical sensors with AI-powered software, Dynamox helps heavy industries shift from reactive to predictive maintenance.
The platform integrates with SCADA and CMMS systems, making it a strong fit for Oil & Gas operations where equipment reliability is critical.
Trusted by global leaders like Vale, ArcelorMittal, and Hydro, Dynamox has generated tens of millions in savings and is expanding internationally as a strategic partner for digital transformation.

Fieldnode

Fieldnode enables on-demand manufacturing at scale for Oil & Gas and heavy industry through a secure Digital Inventory Ecosystem. The platform allows OEMs and operators to define, govern and scale new digital spare parts strategies by controlling how part data is approved, shared and produced on demand across global, qualified manufacturing networks. By connecting operators, OEMs, IP owners and suppliers, Fieldnode improves asset uptime, reduces supply chain risk and enables compliant, auditable Industry 4.0 operations.

Field Automation Services

Field Automation Services provides engineering, procurement, and commissioning solutions in industrial automation and process control. With proven expertise in upstream facilities and process automation, we deliver safe, accurate, and efficient turnkey systems. Our strong international track record in oil & gas, chemical, and petrochemical industries, combined with innovation-driven engineering and IoT, customer-focused support, and a true partnership approach, ensures reliable, fully compliant solutions for sustainable, long-term operational success worldwide — driven by excellence.

Future Fibre Technologies

Future Fibre Technologies (FFT) delivers advanced fibre optic sensing solutions purpose-built for the oil, gas and energy sectors. With decades of expertise in Distributed Acoustic Sensing (DAS), FFT protects critical assets including pipelines, tank farms, refineries, LNG facilities and utility corridors. Our solutions provide real-time detection of third-party intrusion, excavation activity, pipeline leaks, theft attempts and perimeter breaches, enabling operatorsto safeguard assets, reduce operational risk and maintain business continuity.

KFB Technologies Sp. z o. o.

RAFA IMP is a Risk Management solution for industrial companies uniquely designed by environmental engineers to:

- Digitize and consolidate fragmented emissions reporting
- Monitor, alert and create emission reduction strategies
- Create savings and mitigate risk of financial fines

It draws on over 15 years' expertise from 2500 environmental engineering projects executed by KFB Technologies with 250 clients incl. global industrial champions. It connects Workplace Safety with outwards Impact Mgmt and assets predictive maintenance to ensure business continuity and social license to operate.

Naviam

Naviam is the world's leading IBM Maximo partner, helping oil and gas organizations maximize the value of their assets through cloud platforms, mobile solutions, and product innovation built for Maximo, the world's leading EAM software. With 35+ years of experience, we design, build, and support enterprise-scale Maximo environments for the highly regulated oil and gas industry - improving asset maintenance, audit trails, and worker safety, while reducing operating costs and increasing production.

Address: Ceresstraat 1, 4811 CA, Breda, the Netherlands
Tel.: +31611210976
Contact name: Zikret Hadzic, Managing Director
Email: Zikret.hadzic@naviam.io
www.naviam.io

Fujifilm NDT

Fujifilm NDT is a worldwide provider of X-ray solutions for Non-Destructive Testing including analog X-ray film, chemicals and processing equipment, digital radiography systems as computed radiography and digital detector arrays, film digitizers, automated inspection systems, software solutions including archiving systems, AI etc.
Our innovative solutions enable our customers success and help create a safer life for people around the world through the inspection of critical components in the Aerospace, Oil and Gas, Energy industries and many other applications.

Address: Balcke Dürr Allee 6, 40882 Ratingen, Germany
Contact name: Harrie Martens, Head of NDT Division Europe
Tel.: +49 (0)173 251 32 81
Email: harrie.martens@fujifilm.com

IQSIGHT

Formerly Bosch Video Systems, IQSIGHT has more than 60 years of engineering expertise. Delivering intelligence-first video security that helps organizations see clearly, understand context in real time, and act with confidence, IQSIGHT transforms video into actionable insight so leaders can make better decisions, earlier. IQSIGHT offers a proven portfolio of NDAA- and TAA-compliant video solutions, including FLEXIDOME, AUTODOME, and MIC cameras, supported by more than 600 patents and designed to perform reliably over the long term.

METRIX

METRIX - Advanced Metrology for Energy Systems is an Italian business network created by GEATOP S.r.l. and M.R. Technology Systems S.r.l. It combines specialised expertise, qualified personnel and advanced measurement technologies to provide integrated metrology services for the Energy sector. METRIX supports fabrication, testing, assembly, as-built verification, revamping and roll-up activities, delivering accurate dimensional data and tailored solutions for complex industrial projects in Italy and international markets.

Address: 12037 SALUZZO (CN) Via Mattatoio, 3
Tel.: +393462290387
Contact name: Luca Peruccio, Business Developer
Email: luca.peruccio@geatop.it
www.geatop.it/en

Persistent Systems, LLC

Persistent Systems, LLC, has been engineering secure Mobile Ad Hoc Networking (MANET) solutions since 2007, enabling military, first responders, critical infrastructure operators, and commercial users to communicate, collaborate, and achieve mission success. Persistent created the Wave Relay® Ecosystem, a unified data network for unmanned systems, sensors, and software, empowering users with real-time situational awareness across the operational area in contested environments.

Mega Endüstri Kontrol Sistemleri

Mega Endustri is a leading provider of automation and integrated control systems for oil & gas terminals, pipelines and refineries. Founded in 1997 and headquartered in Ankara, we deliver end to end EPC/EPCC services—engineering, construction, commissioning and lifecycle support. Our proprietary Flashtech® TAS connects operational control systems with enterprise IT for real-time data, safety, and efficiency. With successful projects across Turkey, Europe, the Caucasus and the Middle East, we are trusted for delivering reliable, sustainable and future ready solutions tailored to industry needs.

Safe srl

We design and manufacture smart, next-generation personal and collective protective equipment. We develop and deliver digital ecosystems for monitoring the safety of people and environments. We supply specialized personnel for HSE services. We design and deliver specialist training courses and programs across all areas of prevention and protection. We are the first company in the world to have developed a global ecosystem for worker safety.

Address: Via Pastore, 14 - 25046 Cazzago S.M. (BS) – Italia
Tel.: +39 030 7751504
Email: info@safesafety.com
www.safesafety.com

UMOTION B.V.

UMOTION delivers robotic solutions for autonomous inspection in the oil and gas industry. As the Unique Unitree importer for the B2B market in the Benelux, we help operators improve safety, efficiency and asset reliability in demanding environments. At AUTOMA, UMOTION and Unitree demonstrate autonomous visual, thermal and acoustic inspections that reduce human exposure and provide reliable site data. We also showcase humanoid robots as a flexible future workforce, supporting teams and performing complex tasks across industrial sites. Visit our stand and experience the technology live.

Address: Tolboomweg 9–11, 3784 XC Terschuur, The Netherlands
Tel.: +31 (0)6 53 36 97 84
www.umotion.ai

WEY Technology

WEYTEC is the Swiss-based global IT specialist for high-performance workplace solutions in control rooms for the energy, oil & gas, and utilities sectors. We've designed and deployed over 50K workplaces worldwide. Our product portfolio is developed and manufactured in-house - in Switzerland. Our solutions integrate third party and legacy systems so that any source can be accessed and controlled from any workplace with a single multifunctional keyboard and mouse. WEYTEC distributes real-time information from all sources in any combination to an unlimited number of multi-screen desks and videowalls.

Shark Robotics

Founded in 2016 in La Rochelle, France, Shark Robotics is a global leader in ground-based robotics for security and defense applications.
The company designs and manufactures robust robotic solutions deployed in high-risk environments to support critical operations and reduce human exposure to danger. With over 350 robots deployed across more than 25 countries, Shark Robotics is a trusted partner for forces worldwide.
Our mission: saving lives through technology.

Address: 8 Rue des Rivauds, 17000 La Rochelle, Nouvelle-Aquitaine, France
Email: stephanie.gorsun@shark-robotics.fr
Tel.: +33 5 46 52 24 83
www.shark-robotics.com

Unitree Robotics

Unitree Robotics, a global leader in civilian robotics, specializes in R&D, production, and sales of high-performance legged, humanoid robots, and manipulators. It pioneered the retail of high-performance quadruped robots and achieved industry deployment, with leading worldwide sales. Unitree excels in core components, motion control, and robot sensing, and fully self-develops motors, reducers, controllers, LIDAR, and advanced algorithms, integrating the entire industry chain. With over 200 patent applications and 180+ granted, it stands at the forefront of quadruped robotics technology.

Address: 3rd Floor, Building 1, Fengda Creative Park, No. 88 Dongliu Road, Binjiang District, Hangzhou City, Zhejiang Province, China
Email: sales_global@unitree.com
Tel.: +86 17621781139
www.unitree.com

WeBiM, AKSM Group

WeBIM delivers advanced digital engineering solutions for industrial and construction environments, specializing in Scan2BIM, BIM modelling, reality capture, Digital Twins and digital asset workflows. As a subsidiary of AKSM, WeBIM combines digital expertise with industrial surveying and 3D laser scanning capabilities, creating accurate digital environments that support smarter engineering, facility and asset management, and data-driven decision-making.

Address: 392 Mesogion Avenue 15341, Agia Paraskevi, Athens
Tel.: +30 210 970 2510
Email: info@aksm.gr
Contact name: Maria Gkeli
www.aksm.gr

Business programme abstracts



Francesco Coletti
PhD — CEO
Hexxcell Ltd.

From Data to Decisions: Hybrid-AI Digital Twins for Thermal System Performance

Thermal systems such as heat exchangers, condensers, reboilers, furnaces, and steam generators are key to determine how efficiently a refinery converts energy into product. Their performance, however, degrades continuously under real operating conditions, and that degradation is rarely visible in time to act on it. Operators are left with the consequences: unplanned shutdowns, additional fuel and steam demand, constrained throughput, and avoidable CO_2 emissions. Conventional monitoring reports what has already happened; it seldom explains why, and almost never says what will happen next.

This presentation sets out a different approach: Hybrid-AI Digital Twins built specifically for thermal systems. By coupling first-principles thermal and hydraulic models with machine learning trained on live plant data, these Digital Twins reconstruct the true condition of each asset in real time – separating genuine performance loss from instrumentation noise and process variation – and predict how that condition will evolve in the future.

The talk then shifts to industrial practice, covering condition monitoring, operations support and predictive maintenance. Emphasis is placed on decisions rather than dashboards: when to intervene, which asset to prioritise, and what the operating trade-off is worth. Results from a European refinery deployment are presented, where the approach delivered an 8% reduction in CO_2 emissions, quantified fuel savings, and the avoidance of a 3% production loss.

The session closes on the wider question of where such tools sit in an operator's decarbonisation strategy. As reporting obligations tighten and capital becomes more selective, efficiency gains are increasingly measured in emissions as well as margin. Running assets nearer their achievable optimum is among the most immediate levers available, and Digital Twins make that efficiency gap visible, quantifiable, and auditable against corporate net-zero commitments.

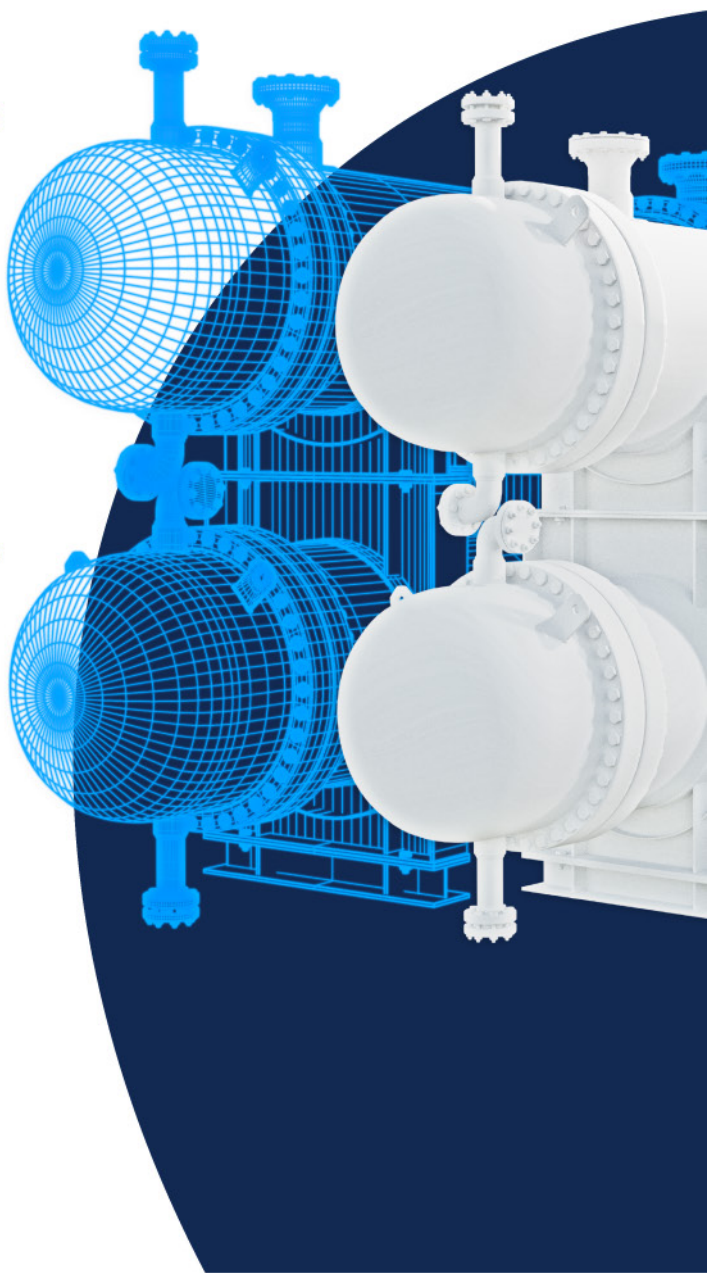
HEXXCELL

HEAT TRANSFER • HIGH TECH

HYBRID-AI DIGITAL TWINS FOR INDUSTRIAL HEAT TRANSFER SYSTEMS.

OUR DIGITAL SOLUTIONS FOR FOULING MITIGATION:

- **ADVANCED MONITORING**
- **PRESCRIPTIVE MAINTENANCE**
- **FOULING PROPENSITY ANALYSIS™**
- **CRUDE SLATE DESIGN™**



Hexxcell Ltd.
info@hexxcell.com
www.hexxcell.com



Stephan Hazzam
Director Digital Commercialization & LAOS
Linde plc

Building trust and accountability for AI Solutions: From Operations point of view

This presentation outlines how to build trust and accountability for AI solutions from an Operations perspective — where reliability, safety, and business continuity are non-negotiable. As AI has started to scale beyond pilots, operations must ensure that projected performance is consistently achieved in real-world environments and over time under changing conditions (feedstock variability, equipment aging, shifting constraints, and human workflows). Trust is earned through observable behavior: stable performance, predictable failure modes, and transparent decision logic that operators can understand and challenge.

Based on Linde's own, vast operating experience and based on its own developed AI powered plant control model, we propose an operations-led accountability framework that spans the full AI lifecycle: (1) clear ownership and governance (who approves, deploys, and can stop an AI; explainability), (2) data integrity and traceability (quality, lineage, and version control), (3) robust deployment practices (validation, change management, and controlled rollouts), and (4) continuous assurance (monitoring, drift detection, alarms, and periodic re-certification). Practical mechanisms—such as audit trails, operating envelopes, and human-in-the-loop controls—turn "black box" systems into manageable assets.

Finally, we show measurable outcomes that matter to Operations: safety margins maintained, fewer unplanned interventions, improved stability and efficiency, and faster incident response when anomalies occur. By integrating AI into existing operating discipline organizations can scale AI responsibly, accelerate value realization, and maintain operator confidence while meeting internal and external performance expectations..



Sakina Tinwala
Senior R&D Engineer
APEX Group

From Design to Operations: A Digital Twin for Heat Exchanger's Predictive Maintenance

Industrial heat exchangers operate under continuously changing process conditions that can significantly affect equipment performance, reliability, emissions, and operational efficiency. While advanced thermal and mechanical calculations are typically performed during the design phase, these engineering models are rarely utilized after commissioning. As a result, plant operators often rely primarily on field measurements, operational experience, and reactive maintenance strategies when addressing issues such as fouling, corrosion, increasing pressure drop, thermal degradation, or fuel variability.

The APEX® Suite – Digital H-Ex Twin is a physics-based digital twin platform developed to bridge the gap between heat exchanger design and plant operations. The platform enables continuous operational assessment of proprietary heat exchangers by maintaining a digital replica of the real asset throughout its lifecycle. The digital twin integrates multiple simulation modules, including thermal and hydraulic performance calculations, combustion and flue gas modeling, acid dewpoint prediction, and furnace efficiency analysis.

Using actual operating conditions such as flow rates, temperatures, pressures, fuel composition, fouling factors, and process measurements, the digital twin can simulate and predict key operational parameters including outlet temperature distribution, pressure drop, metal temperatures, thermal effectiveness, condensation behavior, corrosion risk, and emissions impact. Time-dependent simulations such as startup, shutdown, and transient operating scenarios are also supported, enabling deeper understanding of equipment behavior under nonsteady-state conditions.

By continuously comparing measured plant data with expected equipment behavior derived from first-principles engineering models, the digital twin supports predictive maintenance strategies focused on early anomaly detection, operational optimization, and proactive asset integrity management. Deviations between predicted and measured performance can help identify abnormal operating conditions, localize potential failures, and optimize inspection and maintenance planning before severe degradation or unplanned downtime occurs.

The integration of digital twin technology into industrial heat exchanger lifecycle management enables reduced downtime, improved asset integrity, increased energy efficiency, lower maintenance costs, and reduced NOx and CO2 emissions. The combination of physics-based simulation, operational analytics, and future integration possibilities such as real-time monitoring, historian connectivity, and AI-assisted anomaly detection further strengthens the role of digital twins in supporting intelligent and sustainable industrial operations.



Michel Teughels
Innovation & Strategy Manager
ExxonMobil

Unblocking Acceleration: scaling our new AI solutions without pulling us down

The strategies that kept us competitive are now keeping us constrained. Competitive pressure demands targeted solutions. Inremental solutions deepen fragmentation. The alternative of a full replatforming feels attractive, though is expensive and disruptive and fundamentally trades today's debt for tomorrow's.

Explore how to introduce new capabilities without compounding the very constraints we need to escape and recognize what distinguishes the teams that break through from those that simply add to the burden.



Aninda Mukherjee

AI Business Unit Leader, Energy, Resources and Utilities

Tata Consultancy Services (TCS)

From Digitization to Decision-making: what the AI Era Get Right - and what it still owes the Digital Era

For two decades, digital transformation meant digitizing what already existed — paper to screens, manual steps to workflows, spreadsheets to dashboards. It was disciplined, deterministic, and auditable by design. The AI era promises something different: systems that don't just record decisions but recommend, and increasingly make, them. The excitement is real — but so is a growing gap. Many problems the digital era solved reliably — data lineage, process consistency, deterministic audit trails, predictable system behavior — are problems AI has not yet solved, and in some cases has made harder.

Drawing on enterprise AI leadership across Energy, Resources & Utilities and prior work building agentic AI and quality-compliance systems in highly regulated environments, this talk takes a deliberately balanced view. It examines where AI genuinely extends digital-era capability — pattern discovery across unstructured data, adaptive decisioning, autonomous workflow execution — and where it still falls short of the rigor digital transformation quietly delivered: consistent, explainable, repeatable outcomes that regulators, auditors, and operators could trust without question.

The core argument: the AI era is not a replacement for the digital era's discipline — it's an extension that has to earn the same trust digital systems already had. Organizations that treat AI adoption as a leap forward without carrying that discipline with them are trading reliability for capability, often without realizing it.

This talk offers a practical framework for closing that gap: where deterministic digital-era controls still belong even inside AI-native workflows, how to design human-in-the-loop governance for systems that reason rather than just record, and how regulated industries can adopt AI aggressively without quietly eroding the auditability their digital transformations were built to guarantee.

Attendees will leave with a grounded, non-hype lens for evaluating AI initiatives — one that asks not just "what can this system do now?" but "what did we used to be able to guarantee, and are we still guaranteeing it?" — plus a set of principles for building AI systems that are genuinely more capable without being less trustworthy.



Ramin Rahnama
Growth Manager
Wood plc

wood.

Rethinking Maintenance Optimisation: AI as the Engine of Operational Intelligence

Energy operators face a persistent tension: reduce operating cost and maintenance backlog while improving reliability, safety and production uptime. Traditional maintenance strategies rely on workshops, generic plans and OEM recommendations built on conservative assumptions. The result is often over- or under-maintenance, bloated inventories and safety signals lost in overwhelming volumes of data. This session shows how Wood is rethinking maintenance optimisation by combining artificial intelligence with deep engineering expertise and decades of asset knowledge, keeping humans firmly in the loop.

Drawing on real deployments, Ramin will walk through three connected AI applications from Wood's maintAI suite.

Maintenance Strategy Optimisation: Using large language models to analyse millions of work orders and failure modes, MSO aligns planned maintenance with actual asset reliability. On a portfolio of 11 North Sea assets with 600,000+ equipment items and 55,000 work orders, an AI-based FMEA and MSO approach delivered a 27% reduction in maintenance burden — over 103,000 hours removed annually, equivalent to around USD 11.7M in yearly savings, while satisfying safety-regulator requirements. Across other deployments, MSO has removed tens of thousands of PM hours and unlocked significant OPEX, with reliability maintained on a three-year lookback.

Spares Optimisation: By inferring missing data, detecting duplicate and interchangeable parts, and recalculating stock policies, AI rationalises inventory without increasing operational risk. Examples include a ~45% reduction in minimum stock holding across nine late-life offshore facilities, a 40%+ reduction in inventory value on other assets, and millions of dollars in released working capital — the right spares, at the right time, at lower cost.

Safety Improvements: The same engine is applied to safety across two connected fronts. For occupational safety, we used natural language processing classified 54,000 safety observation cards in under 24 hours — over 90% faster than manual review, while surfacing near-misses, worker sentiment and high-risk precursors. For process safety, our AI-enabled process connects safety-critical barriers to the maintenance tasks that sustain them, verifying that the right work is planned and compliant so barriers remain healthy and process safety assurance is demonstrably in place — moving safety management from reactive to proactive.

Together these cases illustrate a repeatable pattern: AI accelerates analysis, expert engineers validate and govern outputs, and value is released in weeks rather than months. The talk closes with practical lessons on data quality, human-in-the-loop governance and change management — the real enablers of turning AI from a promising concept into operational intelligence that keeps assets reliable, affordable and safe.



Francesco Legname
Senior Advisor Project Delivery
OMV Group

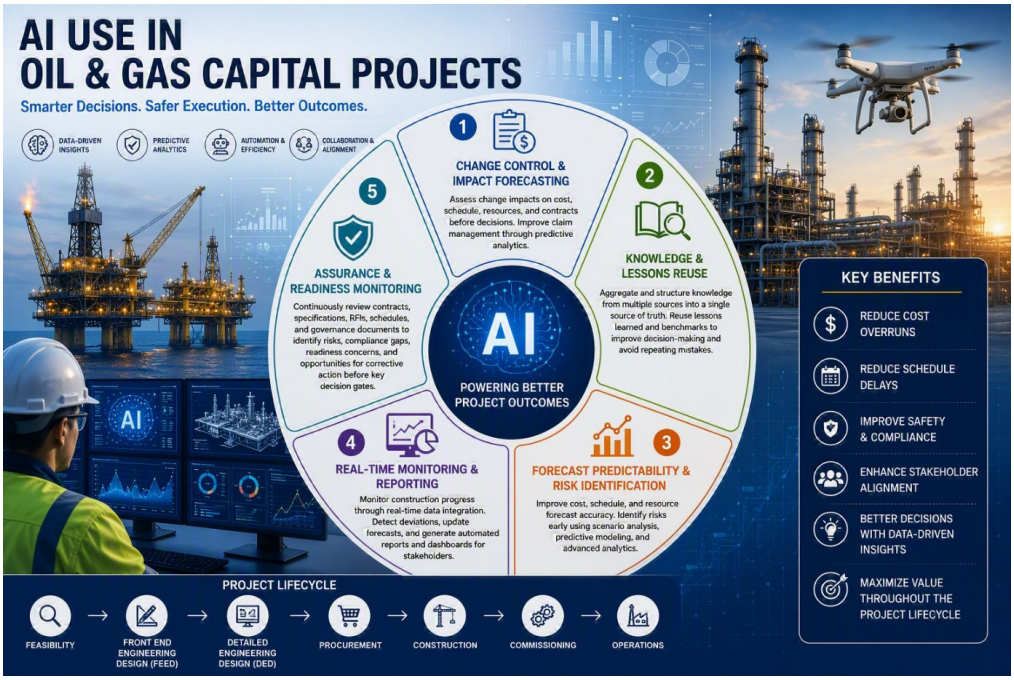
Artificial Intelligence (AI) in Capital Project Delivery

Capital projects in oil and gas remain highly complex, data-rich and exposed to persistent challenges: cost overruns, schedule delays, fragmented knowledge, slow reporting cycles and misaligned stakeholder decisions.
This presentation explores how artificial intelligence can help project teams move from retrospective control to real-time, predictive and increasingly autonomous project delivery.

AI technology can support capital projects in different ways. For instance, while generative AI can summarize documents, draft content and retrieve knowledge, AI agents can execute defined tasks such as report generation, contract review or schedule checks. Agentic AI goes further by coordinating multi-step workflows, connecting to project systems and enabling actions such as identifying risks, forecasting impacts, reallocating work and updating stakeholders.

Key areas where AI is expected to create significant value in the coming years to capital project delivery: assurance and readiness monitoring, monitoring and reporting, lessons learned reuse, cost and schedule forecast predictability, risk analysis, and change control impact forecasting. Particular attention should be given to the early conceptual design phase, where the ability to influence outcomes is highest and the cost of change is lowest.

The central message is clear: AI will not replace experienced project leaders. Instead, it will augment their capabilities, enabling lean project teams to make better decisions, respond faster to emerging issues, and deliver projects with greater predictability, consistency, and insight. Used responsibly, AI can become a trusted digital team member that enhances project performance across the entire capital project lifecycle.





Raul Risi
Sales Manager EMEA
NAFTOSENSE

IIoT Rope Sensing for Real-Time Fluid Leak Detection in Industrial and Remote Infrastructure

Leak detection in fuel infrastructure faces several challenges. First, coverage: facilities see more releases than rights-of-way, concentrated at joints and welds—where fixed detectors rarely watch. Second, reach: metering skids and well pads often sit tens of kilometres from gateways, making trenching uneconomic. A third challenge compounds both: alternative fuels like methanol, ethanol and ammonia defeat sensors tuned for diesel and gasoline.

A multi-functional rope sensor addressing all three is presented. Continuous rather than point-based, it follows pipes, joints or tank perimeters, detecting releases anywhere without placement guesswork. Detection relies on physical interaction between fluid and polymer, requiring no calibration gas, adjustment or moving parts. A single circuit exceeds 8 km, resists cathodic protection, and handles high water tables. One construction covers four fluid families—hydrocarbons, alcohols/biofuels, ammonia, and water—enabling sites to standardise on one technology.

An IoT module supports twelve independent channels, interrogating each one every ten seconds against a baseline, discounting temperature drift, and transmitting by exception. Sixteen remote alarm thresholds and continuous impedance logging let the cloud observe events developing rather than just threshold crossings. This distinguishes active leaks from transient wetting, tracks growth rates, confirms remediation, and spots pinholes early—converting detection into predictive maintenance while avoiding false alarms.

Communication is bearer-agnostic. The payload, endpoint and security travel over private LoRaWAN, cellular LTE-M/NB-IoT, or satellite (NTN), making network selection a site survey choice. Data is end-to-end encrypted with per-device provisioning and zero inbound attack surface. A redundant three-cell lithium pack with per-cell telemetry supports a ten-year field life without mains, solar or external gateways.

The presentation also addresses deployment experience across buried, above-ground, flanged, containment and wellsite assets, and SCADA integration boundaries.

Keywords

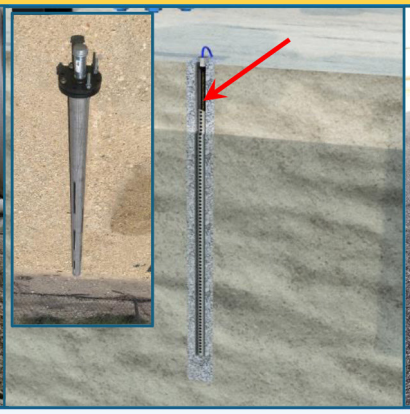
leak detection; rope sensor; linear sensing; sustainable fuels; ammonia; ethanol; LoRaWAN; LTE-M; NB-IoT; NTN satellite; IIoT; predictive maintenance; pipeline integrity

NAFTOSENSE



CUTTING-EDGE POLYMER ABSORPTION SENSORS FOR COST-EFFECTIVE DETECTION OF HYDROCARBONS, ALCOHOLS, SOLVENTS, CORROSIVE LIQUIDS







- ✓ Engineered for high reliability & flawless performances
- ✓ Fit for most challenging environmental conditions
- ✓ Outdoor detection of produced water and nuclear waste
- ✓ Accurate and consistent readings
- ✓ Durable, reusable



Tomasz Jarmicki
Director
Orlen S.A.

Instrumentation-Driven Digital Twin Development for a 0.5 MW Power-to-Gas Installation

The rapid expansion of renewable energy sources increases the need for efficient energy storage and sector-coupling technologies. Power-to-Gas (PtG) is a promising solution that converts surplus electricity into green hydrogen and other gaseous energy carriers. However, PtG systems combine electrochemical, thermal, mechanical and gas-processing processes, making their design, operation and optimization highly complex. Advanced digital tools are therefore required to better understand system behavior and support technology development.This presentation describes the implementation of a comprehensive instrumentation framework for a pilot-scale Power-to-Gas installation with an electrical capacity of approximately 0.5 MW and explains how operational data are used to create a high-fidelity digital twin of the facility. The installation integrates water treatment, electrolysis, gas purification, compression, storage and energy management subsystems.

A key element to achieve that is the deployment of a measurement architecture capable of capturing both steady-state and transient operating conditions. The instrumentation network includes e.g. electrical power analyzers, voltage and currentsensors, pressure transmitters, flow meters, temperature sensors, gas composition analyzers, hydrogen purity measurement systems and environmental monitoring devices. Measurements traditionally are collected through an industrial SCADA infrastructure, ensuring a coherent representation of plant operation and subsystem interactions.

The acquired data form the basis for a multi-layer digital twin combining physics-based models with data-driven approaches. The digital twin enables real-time monitoring, estimation of non-measured variables, predictive diagnostics and assessment of degradation mechanisms. Machine learning methods complement first-principles models, improving accuracy during dynamic operation associated withfluctuating renewable energy supply while meeting different business goals.

The primary objective of the project is to establish a data-centric methodology for modeling, optimization and validation of Power-to-Gas systems based on real operational measurements. Another goal is to develop a modular simulation environment enabling virtual testing of alternative technologies, including different electrolyzer types, gas treatment solutions, storage concepts and integration pathways. Particular attention is given to evaluating performance, flexibility and efficiency under variable operating conditions.



Giovanni Distefano
CEO
IMC Service srl

IMC Service
www.imcservice.eu

IR technologies for automatic safety monitoring systems in OIL & GAS lines

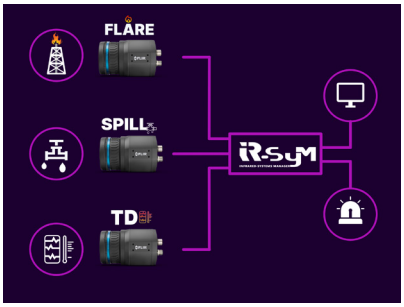
With over 40 years of experience in industrial maintenance and over 20 years in automation, IMC Service specializes in the analysis and evaluation of data from thermographic sensors used in production processes and high-risk facilities.

This journey led to the creation of **IR-SyM by IMC Service**, a continuous thermographic monitoring platform designed for the petrochemical industry, which today must balance safety, sustainability, operational continuity, and economic efficiency.



IR-SyM is a continuous monitoring system based on networks of **Teledyne FLIR** industrial thermal cameras, capable of converting thermal images into reliable operational information for plant safety and efficiency.

The architecture is modular: field acquisition units—also available in an ATEX/IECEx-certified explosion-proof version for hazardous areas—are connected to a centralized analysis system that processes images in real time using proprietary algorithms, generates automatic alerts and alarms, and integrates with existing DCS/SCADA systems. Based on this, four application variants have been developed, each tailored to a specific process risk:



IR-SyM TD, for process control and early detection of fire outbreaks;

IR-SyM FLARE, for continuous monitoring of flares in petrochemical and refinery plants;

IR-SyM SPILL, for monitoring and detecting leaks and spills from hydrocarbon pipelines;

IR-SyM VOC, for monitoring fugitive emissions of volatile organic compounds.

Overall, the IR-SyM system is capable of:

- simultaneously monitoring hundreds of critical points;
- generating automatic alarms;
- classifying the severity level of an event;
- tracking the progression of an anomaly over time;
- generating historical reports and performance indicators;

IR-SYM VERSIONS

In addition to safety considerations, IR-SyM helps maintain production efficiency: a change in temperature is often the first indicator of a loss in process efficiency, with repercussions for both maintenance costs and production. The same technology supports ESG and sustainability goals by promptly detecting product leaks, overheating, and heat loss.

IR-SyM solutions are currently in operation at major international facilities, including the ISAB refinery in Italy, the Hassyan power plant in the United Arab Emirates, Aramco's electrical substations in Saudi Arabia, and Hellenic Petroleum sites in Greece, confirming the system's technological maturity and reliability under real-world and demanding operating conditions.

IR-SyM therefore represents a cross-cutting solution that supports four strategic objectives of the petrochemical industry: **safety, reliability, efficiency, and sustainability.**



Xavier Watremez
Early Detection Product Manager
TotalEnergies

Acoustic Gas Leak Early Detection - AGLED

Gas leaks in the oil and gas installations represent a safety risk, as if they are ignited, they may result in severe fires and explosions. As the conventional gas detectors, widely used, require gas to enter a fixed-point gas or pass through the path of a linear detector, this existing technology can be unreliable in open areas especially due to wind direction. Automatic detection sometimes fails, and it is by manual means that the alarm is raised, usually when personnel see or hear a release. To improve those performances, a solution is to add more detectors to cover larger zone, but this increases the cost of maintenance of these gas sensors.

The stake is to provide reliable diagnosis to facilitate decision-making for field operators, without exposing them to risks and to reduce maintenance activities required for the actual gas detectors.

Sensitive to all types of gas (CH4, H2, CO2, H2S, N2, air, He, SF6,...), the acoustic technology can be a source of real added value in oil and gas, but also in the energy transition : in production and storage of low carbon energies such as hydrogen or biogas or in Carbon Capture and Storage. Besides, this technology anticipates remote monitoring of future remotely operated sites.

To overcome the current limitations of the conventional Ultrasonic Gas Leak Detectors which trigger a zone alarm, by combining acoustics and artificial intelligence, the Acoustic Gas Leak Early Detection (AGLED) technology developed by ACOEM / Metravib Engineering in collaboration with TotalEnergies OneTech R&D, allows early detection of leaks as well as localization and classification, to optimize decision-making to minimize risks and avoid escalation.

The network of AGLED antennas complement, as a first step, and reduce, as a second step, the conventional gas detection systems of a plant to improve the safety and reduce the maintenance activities. The main benefits of this technology detecting accidental gas leaks as soon as they appear are to identify and quickly stop the sources of gas which are detrimental for safety but also for environment (GHG).

Since 2018, TotalEnergies has relied on the TADI (TotalEnergy Anomaly Detection Initiatives) experimental infrastructure located in Lacq, in the South-West of France, to select the best technologies in open innovation mode. Since 2019, four AGLED antennas have been developed, deployed and tested in TADI (2000 m2). Following numerous and regular real gas leak tests on TADI, twenty-four Atex AGLED antennas were installed since 2023 in the compression zones of around 18000 m2 in Tempa Rossa, an Italian onshore oil and gas facility operated by TotalEnergies. One confirmed propane leak on a valve packing close to one acoustic antenna was detected by the antennas early 2024. This leak was not highlighted by traditional gas detection systems. Since early 2025, four Atex AGLED acoustic antennas are monitoring the process train area of around 2800 m2 and two antennas are monitoring the HP manifold of around 2 400 m2 (CH4 and H2S leaks) in Ratawi field, an Iraqi onshore oil and gas facility operated by TotalEnergies.



Vadim Ceban
CEO
JSC MOLDOVAGAZ

Smart Technologies in Gas Distribution: Metering, Telemetry and Cathodic Protection Monitoring

Digitalisation in gas distribution depends on turning data from meters and network equipment into information that operators can use in their daily work. This presentation shares Moldovagaz's experience across 12 distribution system operators on the right bank of the Dniester in the Republic of Moldova, covering four complementary areas of modernisation.

The first is remote reading of household gas meters using LoRaWAN radio modules. The presentation traces the transition from a pilot project in 2022–2023 to wider deployment from 2024, explaining the choice of an open communication standard and the proposed expansion towards 2030.

The second is remote data collection from industrial and commercial metering equipment and from the operators' own commercial and operational metering points. It examines the use of AVE to bring readings and archives from integrated gas volume correctors into a common environment, alongside the challenges posed by legacy equipment and the regulatory conditions for replacing incompatible models used by non-household consumers.

The third and fourth areas concern telemetry for cathodic protection stations and gas pressure regulation stations. These applications provide remote visibility of reported equipment status and operating parameters, helping personnel identify deviations and organise field checks. The presentation considers current telemetry coverage and the importance of keeping installed systems operational.

Across all four areas, the focus is on practical implementation: equipment compatibility, access to usable data, maintenance and the applicable regulatory framework. Proposed development directions towards 2030 are presented separately from deployment already achieved. The experience offers gas distribution operators a practical perspective on expanding remote monitoring while maintaining the field verification and engineering judgement required for reliable network operation.



Dr. Christopher Anhalt

Vice President Product Marketing

Softing Industrial Automation GmbH



Johann Gschwendtner

Managing Director

Softing Industrial Automation GmbH

optimize! softing

Enabling data driven innovation for the Oil & Gas Industry

The limiting factor for many digitalization initiatives in the Oil & Gas industry is access to relevant, reliable and contextualized operational data. While cloud platforms have established themselves as the preferred place for computing, data storage, analytics, and application services, obtaining usable data from real-world plants remains a significant challenge.

Aging infrastructure, legacy systems and heterogeneous communication technologies make access to OT (operational technology) data far from trivial. As of today, many smart field devices have not been connected at all in production environments. Where data is being collected, it is often distributed across multiple systems and solutions, making it difficult to use by modern applications and enterprise-wide digitalization initiatives.

Drawing on several industrial projects and the perspective of an experienced industrial communication specialist, this presentation explains the relevance of system architecture for the success of cloud-based industrial digitalization initiatives. It examines practical approaches to implementing an industrial data layer, with particular attention to legacy integration, Unified Namespaces (UNS) and cybersecurity.

The presentation concludes with a case study involving a globally leading oil and gas producer, where a large number of smart field devices on floating production, storage and offloading (FPSO) vessels were connected to a digital plant asset management application. The example illustrates how access to OT data can be implemented as the foundation for scalable solutions.

FIELD DEVICE CONNECTIVITY

for Digital Plant Asset Management and Control







Get Connected. Stay Connected.

Digital data exchange based on industrial communication standards is a core competence of Softing Industrial Autromation. From an early stage, we focused our attention on technologies relevant to process automation and ex-capable hardware. Softing experts contributed substantially to the specification of e.g. PROFIBUS and Foundation Fieldbus. To this day, Softing is actively involved in the technical workgroups of the FieldComm Group, PROFIBUS & PROFINET International, ODVA and the OPC Foundation.

We offer innovative and reliable connectivity products for digital plant asset management and Industrial IoT solutions and act as a strategic partner for plant operators and system integrators.

http://industrial.softing.com

optimize!
softing



Amit Bhat
Principal-Project Controls
Fluor

AI & Advanced Analytics in Project Controls to Drive Efficiency & Predictability for EPC Project Execution

This presentation will delve into how AI and advanced analytics in Project Controls & Execution are reshaping Engineering, Procurement & Construction (EPC) project management. Despite ongoing challenges in the industry ranging from productivity stagnation, fragmented data environments to slow digital adoption and difficulties in demonstrating ROI, the rapid evolution of AI, predictive analytics, and integrated digital ecosystems is redefining how complex EPC projects can be delivered.

Drawing on Fluor's own digital transformation experience, including the development of the EPC Project Health Diagnostics System (EPHD®), the presentation will illustrates how organizations can unlock the value of their historical project data, connect disparate systems through digital integration, and use trend-based execution analytics to enhance forecast accuracy, strengthen decision-making, and mitigate project risks in real time.



Francis Wanmi Ticky
Robotics Engineer
Saudi Aramco

Advanced Mini-ROV Technology for Subsea Structures Integrity

Operating facilities safety and integrity are always a priority to maintain. Therefore, all assets undergo routine inspection and testing to ensure they are in safe condition for continued service. However, the challenge usually arises when these sites are in difficult to reach locations such as under water or subsea. There are many offshore sites that require routine inspection with different NDT techniques such as visual testing, Ultrasonic Testing (UT), and Cathodic Protecting (CP) assessment. Conventionally, all these activities are carried out by inspectors and specialized divers, who perform the tests bringing results of their inspection through pictures and sensor readings. However, with this current practice which are costly, dangerous, and data are collected manually. In this paper, we will present mini-size Remotely Operated Vehicle (ROV) technology as transformative technology for subsea inspection in which we evaluated one ROV to perform subsea structure inspection for an offshore platform. This ROV is equipped with HD camera, UT and CP probes and cavitation cleaning equipment to remove marine growth on the structural piles. The data collected by the ROV were compared with previous inspection carried out by divers and found matching, which gave confidence in the reliability of these technologies. Moreover, the results of the ROV were all captured in video streaming with AI capabilities to annotate defects and surface discontinuities. In addition, the whole mission was witnessed by all inspectors who attended, unlike diver operations where we only receive the results with no digitization to support traceability and validation. The evaluation of ROV technology proved successful and promising to replace current conventional methods.



Elisa Paiano
HSEQ R&D and AI Catalyst
Saipem SpA

Human-Centered Vision-AI for Bioraffinery Construction Sites: Applying AI-Based Video Analytics to Enhance Proactive Safety Monitoring and Risk Prevention

The development of modern bioraffineries is an important part of the energy transition, but their construction creates highly dynamic and complex working environments. Workers, moving equipment, lifting activities, scaffolding and changing work fronts coexist daily. Risk conditions can therefore evolve quickly, making timely supervision challenging.

Traditional field supervision remains essential, but technology can strengthen it. At Saipem, we are implementing a Human-Centered Vision-AI platform combining video analytics, AI and human validation to support HSE decision-making. Its purpose is not to replace supervisors, but to extend their situational awareness and help identify unsafe acts and hazardous conditions earlier.

The platform processes live video streams from cameras installed across the site. AI models analyse images according to detection rules configured for specific risk scenarios and operational areas. When a potential deviation is detected, the system generates an event and sends a near-real-time alert to the HSE dashboard and mobile devices. Visual evidence allows the supervisor to assess the situation and decide whether action is required. Human validation is central to the approach. Supervisors classify each event as a true or false positive, and this feedback supports iterative model training. This learning loop helps technology adapt to changing layouts, visibility, activities and interactions between people and equipment.

Initial use cases include Red Zone monitoring, PPE non-compliance involving helmets, gloves and high-visibility clothing, workers under suspended loads, and unsafe proximity between personnel and moving vehicles or machinery. Line of Fire is being configured, with Work at Height, Housekeeping and Dropped Object prevention planned next.

Validated events become structured, time-stamped safety data. They can highlight recurring unsafe behaviours, higher-risk areas and operational patterns, supporting targeted preventive actions, focused training and increasingly predictive safety strategies.

This is why the approach is Human-Centered. Final judgement remains with the HSE supervisor. Technology provides continuous monitoring, while people contribute context, experience and decisions. Trust, transparency, privacy, workforce engagement and data protection ensure the solution supports prevention rather than surveillance or blame.

The main lesson is that AI alone does not create a safer workplace. Safety improves when technology is integrated with operational knowledge, field leadership and established HSE processes. In dynamic bioraffinery construction sites, Vision-AI can help shift safety management from reacting to events toward anticipating risks, while keeping people at the centre of every decision.

The main lesson from this project is that Artificial Intelligence alone does not create a safer workplace. Safety improves when intelligent technology is integrated with operational knowledge, field leadership and established HSE processes. In dynamic bioraffinery construction sites, Vision-AI can help move safety management from reacting to events toward anticipating risks, while keeping people at the centre of every decision.



Parth Shah

Head of Autonomous Operations Products

Linde plc

How AI turns operational data into profit

As process industries face increasing pressure to improve profitability, sustainability, and operational resilience, AI is emerging as a key enabler of value creation. This presentation explores how organizations can transform vast amounts of operational data into profitable actions through AI-driven optimization, intelligent control, and decision-support solutions.

Learn how modern AI technologies help identify optimal operating strategies, reduce energy consumption, improve process stability, and increase asset performance. Drawing on real-world applications from energy-intensive industries, the session will demonstrate how companies are achieving measurable business results today while advancing their journey toward autonomous operations.



Craig Nicolay
Sales and Marketing Manager
g.on experience gmbh

g.on experience

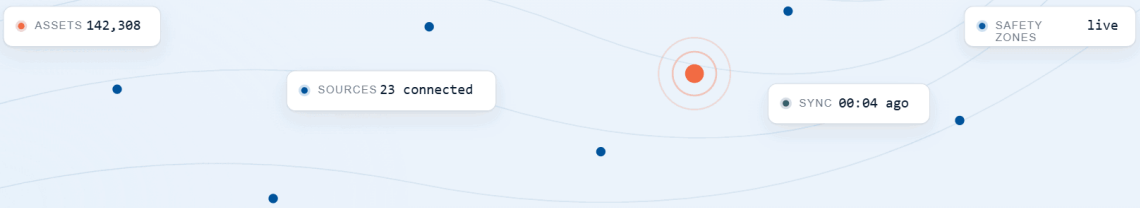
From scattered data to operational clarity: A practical approach to connected geo asset management

Up-, mid-, and downstream infrastructures and utilities are complex and rely on accurate, up to date information to operate safely and efficiently, yet critical data is often scattered across multiple unconnected systems and departments. Starting from the data and the localisation of your assets, g.on provides a unified operational ecosystem that brings all relevant data—assets, safety systems, works, and field activities — as well as dependent processes such as asset rating or maintenance into a single, spatially connected environment. That is where efficient asset management becomes even possible.

A crucial factor to reach high-level efficiency and seamlessly interlocking workflows is prevention and reduction of redundancies as well as data integration across multiple sources. The key, however, is the spatial core data set of your assets, which literally forms an anker, where every connection originates from or can be traced back to. Thus, your infrastructure forms the playing field for your daily workflows like the management of construction sites, which may ultimately lead to changes in the infrastructure itself, fire safety and tactical operation in case of emergency.

This integrated approach creates a consistent digital thread from planning to execution: our software delivers the geospatial data foundation, ensures location aware coordination of projects and maintenance, and brings this intelligence directly to technicians for safe and efficient field execution. Together with the use of open standards, our solutions provide complete operational transparency, reduce risks and conflicts, and lay the groundwork for predictive and data driven operations.

One spatial truth. **Zero silos.**



Living data. Kept current by the work, not by manual refreshes.

Your infrastructure is the map. Everything else plugs into it.

g.on brings scattered asset, safety and field data into one spatially connected environment — without replacing the systems already in place. Starting from the localisation of your assets, a single operational picture lets every team — engineering, operations, safety, field — work from the same ground truth.

g.on aimPort delivers the geospatial foundation. g.on pm coordinates location-aware projects and maintenance. g.on field brings this intelligence to technicians on site. Open standards. EU hosting. ISO 27001:2022.

01 **We connect, we don't replace.**
SAP, CAD, ERP, drone and IoT feeds — g.on binds to what already runs.

02 **Living data.**
Business processes keep the map current. No stale overnight refreshes.

03 **Software for Life.**
Long-term partnership for airports, chemical parks, mines and utilities.

g.on experience | MÜNSTER · SINCE 2002

connected geo asset management

gon.de/en



Joelmir Augusto Costa Dias

Engineer

PETROBRAS — Petroleo Brasileiro S.A.



Andre Seichi Ribeiro Kuramoto

Engineer Consultant

PETROBRAS — Petroleo Brasileiro S.A.

From Hybrid Process Models to Generative AI: A Digital Twin-Driven Path for Smarter Refinery Operations

The presentation would explore the use of advanced refining process models (integrating machine learning, computational fluid dynamics, and phenomenological modeling) to enhance optimization and closed-loop control in refinery operations. It would highlight how hybrid modeling approaches improve prediction accuracy, support real-time decision-making, and increase process reliability across complex units. The proposal also addresses the application of generative AI for analyzing operational conditions and events, enabling automated diagnostics, scenario generation, and faster root-cause investigation. Together, these technologies outline a transformative pathway for safer, more efficient, and data-driven refinery operations.



Shashank Sharma
Director of Product Marketing
HiveMQ GmbH

Beyond Connectivity: Turning Operational Data into Faster, More Reliable Decisions in Oil & Gas

Ask a control room engineer what is happening at a remote site and you can sometimes get two answers: what the dashboard says, and what the operator believes is actually happening. That gap has real consequences. Troubleshooting takes longer. Crews travel when they may not need to. Production issues are identified too late. Safety, emissions and production teams spend time reconciling different versions of the same operational reality.

Oil and gas has made enormous progress connecting assets, plants and systems. But connectivity alone does not create better decisions. Operational data also has to arrive with enough context, consistency and trust for people and increasingly AI systems to determine what is happening and what should happen next.

This session explores how the industrial data platform is evolving to close that gap, without requiring operators to replace the SCADA, historians, applications and infrastructure they already depend on. We will examine how a real-time operational data foundation can help oiland gas organizations:

- Keep remote and bandwidth-constrained operations visible and reduce unnecessary field interventions
- Identify abnormal conditions earlier and help engineers understand their cause faster
- Give operations, engineering and enterprise teams a consistent view of assets and processes across sites
- Improve the traceability and reliability of production, safety and emissions information
- Move AI from isolated experiments toward operational use, where recommendations can reach the right person while there is still time to influence the outcome



Hiroki Kokubo
Business Architect
JGC Corporation

Graph-Theoretic Approaches to P&ID Digitization and Utilization

In large-scale plant engineering projects, design information is still fragmented across multiple artifacts such as P&ID, PFD, and 3D models. Although these documents are digitally produced, they are often consumed independently, limiting their reuse across engineering phases and preventing engineers from fully leveraging the relationships embedded within them. This fragmentation leads to inefficiencies in design validation, impact analysis, and downstream utilization.

Our vision is to establish an integrated digital engineering environment in which P&ID, PFD, and 3D data can be designed, analyzed, and utilized in a unified manner through shared attributes and topology. While many digital engineering initiatives integrate data at the tag or document level, this approach places particular emphasis on explicitly representing the relationships among equipment, lines, and instruments, allowing engineers to explore and analyze plant systems based on their actual connectivity rather than on isolated drawings or tag lists.

As a concrete step toward this vision, our team is developing a P&ID digitalization system called Tag Graph Viewer. The core concept of this system is to represent P&ID information as a graph structure, where equipment, instruments, lines, and signals are modeled as nodes, and their connections are modeled as edges. By converting conventional P&ID representations into a graph, the system enables topology-based queries such as upstream/downstream tracing, connectivity checks, and impact analysis that are difficult or time-consuming with traditional document-centric approaches.

In addition to topology, the system incorporates rich metadata associated with Tag Numbers, Line Numbers, and other engineering identifiers. These attributes are also modeled as nodes and relationships, allowing flexible assignment, search, and validation of properties according to the engineering phase. This makes it possible to perform design-phase-aware checks, such as completeness, consistency, and rule-based validation, while maintaining traceability across design stages.

Looking ahead, the same graph-based approach can be extended beyond P&ID to include PFD and 3D model data. By sharing a common structural and semantic foundation, these heterogeneous datasets can be connected, enabling cross-disciplinary analysis and more effective digital utilization throughout the plant lifecycle. This approach represents a step toward truly data-centric engineering, supporting more reliable design, improved collaboration, and more efficient downstream operations.



Itziar Landa Torres
Digital Transformation Head
Petronor S.A

AI based thermographic analysis for tank level determination

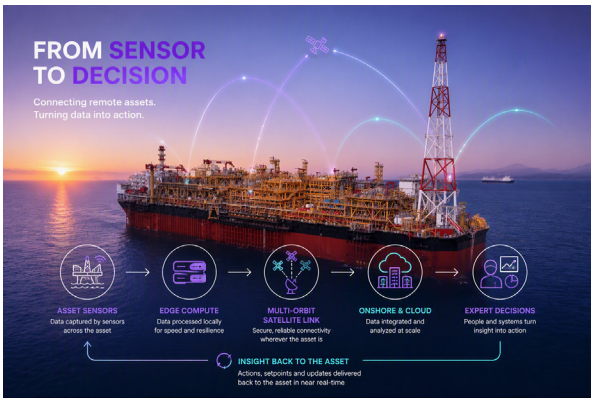
The Tank Thermography Project aims to develop an innovative digital solution for the continuous monitoring of crude oil storage tanks using infrared thermography, Artificial Intelligence (AI), and industrial connectivity. The main objective is to automatically identify and quantify water layers, crude oil interfaces, and mixing conditions inside storage tanks, providing operators with actionable information to optimize decanting operations and prevent process disturbances caused by unintended water transfer to refining units.



Maarten Verhaegh
Energy & Resources Practice Director
SES

From Orbit to Outcome: Why Space Is Becoming the Operating Layer of Upstream Digitalization

Upstream oil and gas has never had more data or more digital ambition. Remote operations centers, digital twins, predictive maintenance, AI-driven video analytics and continuous emissions monitoring are moving from pilot to standard practice. Yet many of these programmes stall for the same reason: the asset is far from the decision. Offshore platforms, FPSOs and remote onshore sites generate data around the clock, but moving trusted, secure and timely data to the people and systems that act on it remains the weakest link.



Connectivity can therefore no longer be treated as a utility bought after first oil. It is part of the operating architecture of a digital asset, and space is what makes that architecture work where fiber and terrestrial networks do not reach.

Different workloads place very different demands on the network, from low-latency remote control to high-volume digital twin synchronization. A multi-orbit approach combining GEO, MEO and LEO satellites allows each workload to be matched to the path that suits it. Combined with edge computing on the asset, this creates a closed loop from sensor to decision and back, keeping critical functions running even when conditions change.

Connecting operations also raises questions that increasingly shape investment decisions: how to protect operational technology once it is connected, how to keep control over where operational data travels, and how to prepare assets with decades of life ahead of them for future security threats.

Beyond connectivity, satellite Earth observation supports methane detection, ground movement monitoring, pipeline surveillance and CO_2 storage verification, linking upstream digitalization directly to the energy transition agenda.

A commercial shift is under way alongside the technical one: from buying megabits to contracting for operational outcomes such as uptime, fewer people offshore and faster incident response.

Three practical takeaways:

- map digital workloads to network requirements before choosing a service
- design multi-orbit connectivity and edge computing together, not separately
- treat the network as part of the safety, security and operating model of the asset

The underlying message is simple: design connectivity in at FID, not after first oil.



Artur Schweidtmann

Prof. Dr.

Delft University of Technology

Process Intelligence RESEARCH

Agentic AI for Process Engineering

Generative Artificial Intelligence (GenAI) has transformed fields such as computer vision and game-playing, where it now achieves or surpasses human-level performance in many tasks. In process engineering, however, its potential remains largely untapped. This presentation explores how GenAI can be developed and deployed to address key challenges in the process industries. It begins by introducing our computer vision framework for converting legacy Piping and Instrumentation Diagrams (P&IDs) into smartP&IDs in DEXPI format, making them accessible for digital engineering workflows. Using our open-source library pyDEXPI, these smartP&IDs can be further converted into knowledge graphs, which provide the foundation for downstream AI applications and for ChatP&ID, our multi-agent framework for interacting with engineering data. Building on this basis, the presentation showcases AI-driven solutions tailored to process engineering and operations, including P&ID autocompletion, automated translation from Process Flow Diagrams (PFDs) to P&IDs, P&ID error correction, and AI-assisted HAZOP studies. The talk concludes with examples from collaborative research projects with industrial partners, highlighting the real-world impact of these technologies.



Jörg Eitler
Head of Global Business Field Oil & Gas Upstream
NETZSCH Pumpen & Systeme GmbH

The Transformation from an Artificial Lift System to a Well and Production Control System including the Integration of Artificial Intelligence to optimize the Oil & Gas Production

Given the political instability in certain, important oil-producing regions, it is crucial to intensify the exploitation of substantial oil resources in non-OPEC countries.

We must, of course, recognize that the production of the remaining oil reserves often involves fields in the “tail-end” phase of production. In these fields, in particular, the efficiency and optimization of the crude oil production processes are of paramount importance.

The optimization process becomes increasingly successful the more closely oilfield operators collaborate with various technology suppliers.

Until a few years ago, manufacturers of upstream pump systems focused on optimizing the machinery itself, while instrumentation manufacturers independently concentrated on optimizing sensor technology.

The major challenge in recent years has been to integrate these two worlds.

The following presentation demonstrates how artificial intelligence is incorporated as early as the system development stage; specifically, simulating complex processes - while accounting for existing infrastructure (well geometry and casing sizes) and fluctuating fluid compositions - leads to significant cost reductions and extended service life.

The greater the reliability of the available data, the more accurate the pump system modeling and the resulting system design will be.

To ensure optimal production, the system must automatically and continuously reconcile set pump parameters with actual operating conditions (such as dynamic fluid levels).

In the near future, simulation software will possess learning capabilities, incorporating key insights gained from continuous operation into the pump design process. Furthermore, continuous, automated monitoring of pumps and wells will allow changes in operating conditions to be detected much earlier, enabling the pump control system to adjust operating parameters promptly and automatically. A key factor in the optimization process is, of course, the early detection of malfunctions, allowing necessary pump replacements to be carefully planned and required spare parts to be procured. Soon, artificial intelligence will automatically identify the optimal spare parts - which may differ from the components previously used. Optimizing a conveying system relies on analyzing experience from past operations with every change made, thereby eliminating weak points.

Using specific examples, the presentation will illustrate the transformation from a standard pump system to a conveying system continuously optimized by artificial intelligence, as well as the resulting increase in efficiency.



Subrata Bhowmik

Senior Principal and Lead for Asset Integrity Engineering

McDermott

Unlocking the True value of AI in sustainable EPC Execution

This presentation introduces a strategic framework for AI-driven subsea asset integrity management. By integrating predictive analytics, digital twins, condition monitoring, and risk-based inspection, the framework enables real-time assessment of Subsea Umbilicals, Risers, Flowlines (SURF) and Subsea Production Systems (SPS). AI-powered capabilities support anomaly detection, failure prediction, risk prioritization, and optimized maintenance planning, enabling a proactive approach to integrity management. The framework enhances safety, reliability, asset availability, and operational efficiency while reducing lifecycle costs. It also provides a practical roadmap for accelerating digital transformation and advancing predictive integrity management across subsea operations.



Sanja Jakovac Šepić
Man. of Production & Energy Management
Rijeka refinery, INA d.d.

Refinery Modernization in a Decarbonizing World: The Role of INA's New Delayed Coker Unit

The new Delayed Coker Unit (DCU) at the INA Rijeka Refinery will increase refinery complexity, improve crude oil purchasing flexibility, and eliminate the production of low-value heavy fuel oil, a product facing increasingly limited market prospects. At the same time, the project will increase the production of highly demanded middle distillates, particularly diesel and jet fuel, in a European market characterized by strong import needs and high price volatility.

As with any residue conversion project, the new unit will increase overall refinery energy consumption and contribute to additional CO_2 and NO_x emissions. However, significant efforts have been made to minimize the environmental footprint through efficient design. The unit incorporates low utility consumption, high furnace efficiency, lower electricity demand, and extensive steam recovery. Additional attention has been dedicated to noise reduction through low-noise motors, equipment insulation, fan silencers, and improved engineering of the coke conveying and logistics systems, including a fully enclosed, high-capacity handling and marine loading system.

The new DCU is significantly more energy efficient than a typical delayed coker unit commissioned during the 1990s with comparable processing capacity:

- Guaranteed furnace efficiency exceeds 90%, approximately 10 % higher than the typical 80% efficiency of older designs.
- Process heat recovery generates approximately 16 t/h of steam, while electrical intensity is 33.7 kWh/t feed, considerably lower than that of many older units.
- CO_2 emissions are expected to be at least 10% lower than those of traditional delayed coking installations
- Particulars emission (≤50 mg/Nm^3) is on top of modern gas fired Coker units
- NO_x emissions are near the limit of what can be achieved with modern low-NOx combustion systems

Although the furnace remains the largest direct source of CO_2 emissions, the unit recovers a substantial amount of process heat that would otherwise be unused. Compared with older DCUs that rely more heavily on cooling systems and lose valuable energy, the new configuration is better aligned with the requirements of European refineries operating under carbon pricing mechanisms.

Steam generation from recovered process heat reduces boiler load, lowers fuel onsumption, and improves resilience against Natural gas market volatility.

Nevertheless, the unit should not be regarded as a fully green solution. Petroleum coke production (3% in total), although significantly lower than heavy fuel oil production remains associated with significant embedded carbon, and the coker furnace will continue to be a major source of direct CO_2 emissions.

Can new coker be even more efficient despite of new design? Future improvements can and will include advanced process control implementation, unit integration into RTEO (real-time energy optimizer) and similar refinery digital systems, and waste-derived feed coprocessing like animal fat, pyrolysis oil from waste plastic or waste lubricant oil.

For a refinery operating under high diesel margins and increasingly stringent carbon constraints, the new DCU can be considered a competitive transition asset. The investment represents a more energy-efficient and carbon-competitive solution than many older European cokers, strengthening refinery profitability while partially mitigating CO_2 exposure through extensive heat and steam recovery. Whether such investments remain competitive in the long term will largely depend on the future direction of European policy: continued emphasis on stringent emission reduction targets, or greater focus on strengthening domestic refining capacity and energy security in an increasingly uncertain global market.



Bernd Kalusche

Director Vertical Management Energy, Siemens Digital Industries

Siemens AG

SIEMENS

Autonomous process operations based on comprehensive digital twins

The process industry is facing growing challenges driven by the energy transition, increasing operational complexity, sustainability requirements, and workforce changes. This presentation discusses how comprehensive digital twins, combined with automation, analytics, and artificial intelligence, provide the foundation for autonomous process operations. Digital twins enable integrated value chains, improved efficiency and safety, enhanced operator training, better asset performance, reduced downtime, and AI-supported decision-making.

At the core of Siemens' approach is the Siemens Performance Suite, which links operational technology and information technology across process, control, and optimization layers. By integrating plant data, physics -based process models, forecasting tools, and real-time operational information, the platform supports advanced applications such as real-time optimization (RTO), condition monitoring, predictive maintenance, advanced process control (APC), and AI-powered operational assistance. External factors including energy prices, renewable generation forecasts, grid conditions, and production demands are incorporated to continuously optimize plant operations.

The practical value of this approach is demonstrated through four use cases: refinery utilities optimization, green hydrogen production scheduling, an AI-based Operational CoPilot, and AI-enhanced Advanced Process Control. Through these examples, the authors show how digital twins, real-time optimization, predictive analytics, and artificial intelligence can improve efficiency, reduce costs and emissions, enhance operator support, and enable progressively autonomous plant operations.

The presented solutions demonstrate how the combination of digital twins, advanced automation, and AI can support the transition toward more sustainable, resilient, and increasingly autonomous industrial operations.



SIEMENS

Your partner for success in the oil and gas industry

Boost competitiveness while staying sustainable, reliable, and safe in operation.



Miguel Lopez Delgado
Support, Systems and Cyber OT
Moeve San Roque Energy Park

Beyond the OTS: How New Plants Are Turning Simulators into Core Assets

The energy transition is reshaping the industrial landscape. Traditional refining processes are increasingly being complemented or replaced by new low-carbon solutions focused on sustainable energy production, powered by green molecules, such as green hydrogen or second-generation biofuels. Unlike conventional plants, these assets operate within highly integrated environments where process performance, renewable energy availability, electrical systems, utilities, and environmental constraints must be continuously balanced to achieve safe, efficient, and sustainable operations.

In this context, traditional Operator Training Simulators (OTS) are rapidly evolving beyond their original role as training tools. What was once primarily used to develop operator competency is now becoming a strategic asset that supports engineering, commissioning, operations, optimization, and decision-making throughout the entire plant lifecycle.

This presentation explores the evolution from conventional OTS to Engineering Validation Environments, Multi-Physics Digital Twins, and ultimately Operational Decision Platforms. By integrating dynamic process simulation, control system emulation, electrical network models, renewable energy inputs, and real-time operational data, organizations can create high-fidelity virtual environments capable of representing the complexity of modern energy-transition facilities.

Special attention will be given to green hydrogen and sustainable fuels plants, where fluctuating renewable power generation, electrolyzer operation, and evolving production demands introduce new operational challenges. In these environments, simulation platforms enable organizations to validate control strategies, assess operational flexibility, optimize energy usage, and perform “what-if” analyses without impacting physical assets.

The session will present practical examples showing how advanced simulation technologies reduce startup and commissioning risks, improve collaboration between engineering and operations teams, and support decarbonization objectives. It will also demonstrate how combining process, electrical, control, and environmental models within a unified Digital Twin creates a powerful foundation for operational optimization and informed decision-making.

Rather than viewing the Digital Twin as the final objective, this presentation proposes a broader vision in which simulation becomes a core operational capability. The simulator evolves from a project deliverable into a continuously used asset that enables safer, smarter, and more sustainable decisions across the lifecycle of low-carbon industrial facilities.

Key takeaway: In the era of decarbonization, the question is no longer whether a plant needs a simulator. The question is whether that simulator remains a training tool or evolves into a strategic operational asset that accelerates the deployment and optimization of the next generation of sustainable energy facilities.



Antonio Schiavone
Head of Construction Home Office Department
Tecnimont

TECNIMONT

AWP and Real-time Sync: plant & simulation for better control

Advance Work Packaging (AWP) is a structured, construction-driven project management methodology designed to enhance predictability, efficiency, and field productivity across complex industrial projects. By defining the “Path of Construction” early and aligning engineering, procurement, and construction phases, AWP creates a disciplined framework that ensures the right information, materials, and resources reach the field at the right time.

At the core of AWP is the division of scope into manageable, fully planned work packages. Engineering Work Packages (EWPs) define the technical deliverables and drive the creation of Construction Work Packages (CWPs), which are then subdivided into Installation Work Packages (IWPs). These IWPs represent executable units of work, typically supporting 500–1,000 labor hours, enabling supervisors and crews to operate with full clarity over constraints, materials, and priorities.

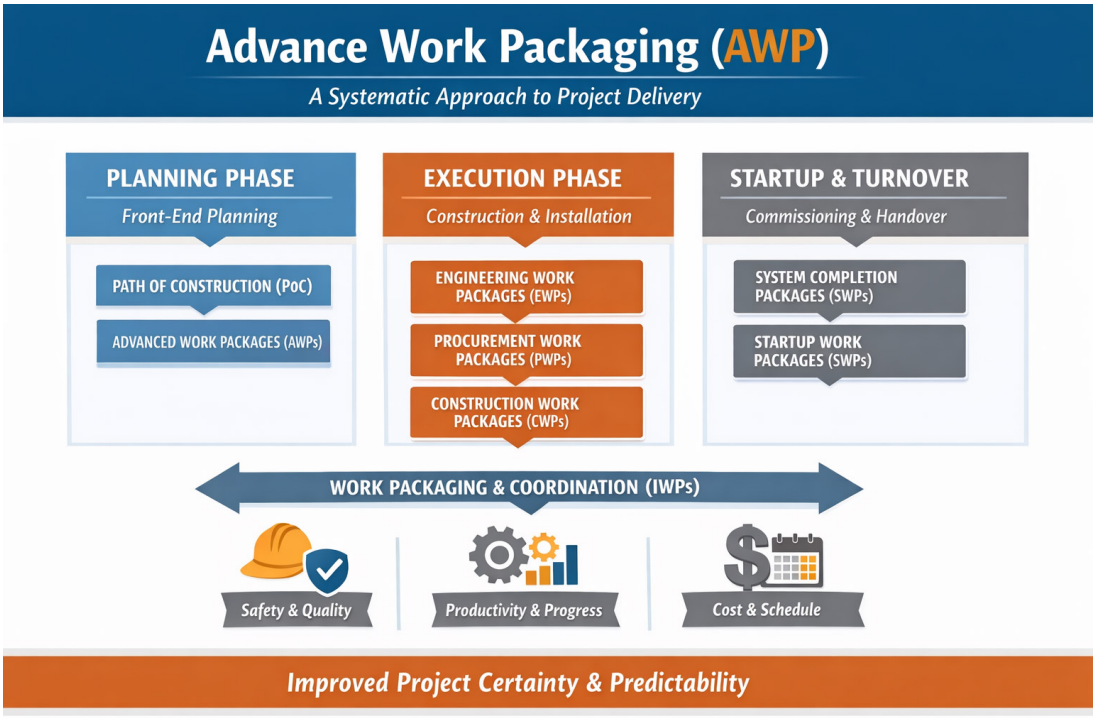
Key benefits observed in AWP driven projects include improved labor productivity, more predictable schedules, and reduced rework. The method increases visibility across the entire project lifecycle by integrating engineering and construction from the earliest stages of Front-End Planning (FEP). This early alignment supports constraint-free execution and minimizes downstream disruptions such as missing materials, late design changes, or incomplete work fronts.

AWP also strengthens cross-functional coordination. Engineering teams produce deliverables aligned with construction sequencing; procurement prioritizes material releases based on planned IWPs; construction gains a stable flow of ready for execution work. This integration reduces idle time, shortens cycle durations, and supports safer, more controlled field activities.



Typical challenges include data integration across digital systems, organizational change management, and the adoption of new planning behaviors. Successful implementation depends on strong governance, disciplined work packaging, and consistent collaboration between stakeholders.

When applied effectively, AWP can lead to **10–20% productivity gains**, enhanced schedule adherence, and measurable cost reductions, establishing it as a best practice methodology for capital projects in oil & gas, petrochemical, power, and large EPC environments.


Advance Work Packaging (AWP)
A Systematic Approach to Project Delivery
PLANNING PHASE
Front-End Planning
PATH OF CONSTRUCTION (PoC)
ADVANCED WORK PACKAGES (AWPs)
EXECUTION PHASE
Construction & Installation
ENGINEERING WORK PACKAGES (EWPs)
PROCUREMENT WORK PACKAGES (PWPs)
CONSTRUCTION WORK PACKAGES (CWPs)
STARTUP & TURNOVER
Commissioning & Handover
SYSTEM COMPLETION PACKAGES (SWPs)
STARTUP WORK PACKAGES (SWPs)
WORK PACKAGING & COORDINATION (IWPs)
Safety & Quality
Productivity & Progress
Cost & Schedule
Improved Project Certainty & Predictability



Gareth Webb
Vice President for EMEA Customer Engagement
eQ Technologic Inc

Accelerating Digital Transformation in Oil & Gas Through Technical Debt Reduction and the Digital Thread

Oil and gas organizations are under pressure to modernize faster while managing complex operations, aging systems, and fragmented data landscapes. This presentation explores how eliminating technical debt and establishing a true digital thread can dramatically shorten transformation timelines, improve decision quality, and strengthen operational resilience.

We will showcase how the eQ Technologic Data-as-a-Service (DaaS) platform enables enterprises to connect legacy and modern systems without costly rip-and-replace projects—creating secure, governed, near-real-time data flows across engineering, operations, and enterprise applications. Attendees will learn strategies for incrementally retiring technical debt, unlocking trapped data, and enabling scalable analytics and automation.

The session will also highlight approaches for secure collaboration across distributed supply chains, ensuring partners and contractors can access the right information at the right time—without compromising security or IP.

Participants will leave with a pragmatic roadmap for accelerating digital transformation: one that reduces risk, preserves existing investments, and delivers measurable business value faster.

eQ Technologic

Data is the new oil

But only when it's connected, trusted, and flowing.

Oil and gas organizations face growing pressure to modernize—while managing complex operations, aging systems, and fragmented data landscapes. The real challenge is enabling transformation without disrupting mission-critical processes. Modernization must happen faster, securely, and without disrupting operations.



Data Virtualization | **Data Migration** | **Data Integration** | **Data Federation** | **Data Orchestration** | **Secure Collaboration**

Turning Data into Digital Value

eQube® offers 100+ OOTB connectors to instantly connect disparate systems, creating a unified data fabric for actionable insights. eQ enables:

- Continuous data flow across legacy & modern systems
- A secure, governed digital thread across the asset lifecycle
- Real-time access to data for automation, analytics, & AI
- Incremental reduction of technical debt

Proven Where It Matters

- Millions of records migrated with 100% accuracy
- Multiple systems unified into a single data flow
- Zero disruption to live engineering & operations
- Trusted by leading global Oil & Gas enterprises

Connect with our experts at AUTOMA

Explore how eQ can support your automation and digitalisation goals.

Global presence with offices in 4 countries | 500+ customers across 26 countries | Aerospace & Defense, Energy, Manufacturing, High Tech, Automotive, CPG, & more

www.1eQ.com | info@1eQ.com

www.1eQ.com



Freddy Nieto
Operation Support Engineer
Technip Energies

Technip Energies TechnoLink Connected Services - Unlocking the hidden value of your asset

Amid an unstable, volatile global landscape, maintaining profitability ofbusinesses in the energy industry has become more demanding, withefficiency and good decision-making becoming a “must” rather than a “nice tohave”.

The ongoing Digital Transformation has already taught us the value of data;however, despite being consistently and widely acquired on industrial sites,harnessing its power on assets of high complexity and which operate understrict safety and operational standards has proven to be a difficult task.

Technip Energies (T.EN) has embraced this challenge and createdTechnoLink Connected Services, a real-time performance managementsystem that gathers the continuous flow of operating data, contextualizes it,and applies advanced process modelling and machine learning techniques tomirror the operation of the asset digitally, while remaining accessible to allstakeholders.

This presentation will provide insights into T.EN’s perspective on the currentcontext, the pathway to overcoming the present challenges, and why anuanced approach that considers the industry’s technical complexities isneeded. The main technical aspects of the service will be described alongwith its implementation and integration philosophies.



Paulina Rodriguez
COO
VALUE HYBRID GLOBAL S.L.

Beyond Digital LOTO: Building the Next Generation of Safe, Connected and Cost-Effective Operations in Oil & Gas

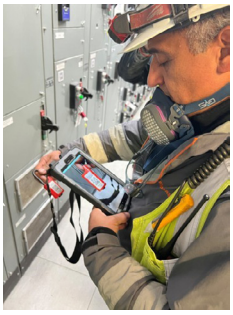
Lockout/Tagout (LOTO) is one of the most critical safety processes in oil and gas operations, yet many organizations still depend on paper records, radio communication, manual coordination and physical travel between work areas. These traditional practices can increase execution time, create administrative workload and make it more difficult to maintain complete, real-time visibility of every step in the isolation process.



This presentation explores how the digitalization of LOTO can transform energy-isolation management by combining centralized process administration, mobile workflows, electronic locking hardware and digital lockout stations within one connected ecosystem. The objective is not simply to replace paper with a screen, but to strengthen safety while making the process more efficient, controlled and auditable.

Digital LOTO enables complete traceability of procedures and personnel, real-time information for operational control, better coordination between teams and integration with existing management systems. It can also reduce unnecessary travel and manual documentation, helping teams execute shutdowns, maintenance activities and interventions more efficiently. Most importantly, technology reinforces a stronger safety culture by providing workers and supervisors with clearer information, standardized workflows and greater visibility of the status of every isolation.





The session will also share lessons from real industrial deployments, where digital LOTO has delivered measurable reductions in execution and travel times, eliminated paper-based participant records and achieved complete process traceability. These results illustrate the potential for oil and gas operators to improve productivity without compromising the principle that must remain at the center of every energy-isolation process: safety first.

The key message is simple: digitalization is not only an efficiency initiative. When applied correctly to LOTO, it becomes a tool to reduce operational complexity, strengthen control and build safer, more connected industrial operations.

Visit our website www.valuehybrid.com to learn more about us.

VALUE
HYBRID



Safe, Efficient, Cost-effective... AND DIGITAL.

VALUE DIGITAL LOTO revolutionizes LOTO maintenance and repair procedures.

VALUE DIGITAL LOTO has changed LOTO maintenance and repair procedures. A one-of-a-kind solution worldwide, bringing all the advantages of digitalization into LOTO processes.

- Real-time control and visibility of lockout procedures during maintenance tasks
- Maximum safetyfor workers
- Traceability with real-time data
- Time savings in travel and administrative tasks

Meet us at the trade show and request a demo.

www.valuehybrid.com



Maria Jose Fernandez Marin
OT Project Manager
Moeve



Maria Jose Povedano Martinez
OT Project Manager
Moeve

Making Smart Operations Real: From Data Visibility to Autonomous Decision-Making

Industrial companies have invested significantly in connecting assets, collecting operational data and improving real-time visibility. However, **connected operations are not necessarily smart operations**. The next frontier is to transform operational data into better decisions and, progressively, into safe, trusted and increasingly autonomous action.

This presentation explores the evolution from **asset connectivity and data visibility to predictive, prescriptive and autonomous operations**, with a particular focus on the challenges of safety-critical energy environments. Rather than approaching Smart Operations as a collection of technologies, it proposes a decision-centric journey: **Connect, See, Predict, Decide, Act and Learn.**

From an OT perspective, this evolution requires a trusted digital foundation connecting intelligence with the physical operation. Industrial connectivity, including private wireless networks, edge computing, cybersecurity, AI-driven analytics and digital twins are critical enablers. Combined effectively, they can move organizations beyond monitoring and prediction towards systems capable of evaluating operational context, recommending the optimal response and, where appropriate, executing decisions within clearly defined boundaries.

Yet technology alone will not make operations autonomous. Organizations must determine which decisions can be automated, under **which conditions and with what level of human oversight**. Governance, cybersecurity, organizational readiness and collaboration across OT, Operations, Engineering, Maintenance, IT and business functions become essential. In safety-critical environments, autonomy does not mean eliminating human involvement, but progressively transferring well-defined decisions to systems as confidence, evidence and trust increase.

This transformation becomes particularly relevant as the energy industry evolves. Conventional assets are increasingly being complemented by **HVO, green hydrogen, renewable electricity and electrification**, creating more interconnected and dynamic operating environments. Smart Operations can provide the intelligence required to balance production, asset condition, reliability, energy consumption, cost and operational constraints, moving from optimizing individual assets towards optimizing integrated energy systems.

Through practical industrial examples, the session will connect these capabilities to measurable outcomes: **reduced unplanned downtime, increased asset availability, optimized maintenance and energy consumption, improved reliability and safer operations.**

The key message is simple: **Smart Operations is not about creating more dashboards. It is about enabling operations to sense, understand, predict, decide, act and learn, safely and within governed boundaries.**

Start with decisions. Scale with trust. Measure value.



Dr. Al Graziano
CEO
CYBER RANGES



Ali Bozorgmir
Global Director – OT Security Solutions
OTIFYD

Test Your People, Plant and Recovery Plan Before Hackers Do

Unlike traditional IT security, Operational Technology cybersecurity cannot be mastered in a classroom alone. It is a practical discipline built through hands-on experience with industrial processes, control systems and the physical consequences of cyber events. Yet training engineers on a live oil and gas facility or other critical infrastructure is neither practical nor acceptable.

This creates a major challenge: when a serious OT cyber incident occurs, it may be the first time engineering and cybersecurity teams have faced that scenario. They may understand the procedures, but without realistic practice they cannot know how effectively they will detect, respond, make decisions under pressure and recover operations.

To build real resilience, organisations need cyber-physical environments that combine traditional OT test capabilities with modern cyber range technology. These environments must reproduce current threats, including ransomware, APT techniques and emerging AI-enabled attack vectors, while safely extending the exercise into the industrial process.

The combined OTIFYD and CYBER RANGES approach brings together advanced virtual cyber ranges with a customised Physical Twin Lab. The environment can recreate an oil and gas facility, refinery, pipeline or other critical infrastructure at smaller scale using real industrial technologies such as PLCs, HMIs, industrial networks, sensors, actuators and security systems, tailored to reflect the operator's own architecture and technologies.

Teams can experience the full attack lifecycle, from initial compromise and lateral movement to disruption of control systems and physical process consequences. They can practise detection, investigation, containment, operational decision-making and recovery without exposing the real plant to risk.

For example, a ransomware scenario can be used to test how quickly teams detect the attack, coordinate across engineering and cybersecurity, maintain safe operations, restore systems and return the process to a stable state.

Most importantly, the environment supports repeated exercises. Repetition helps teams build the muscle memory required to make better decisions under pressure, improve coordination and respond more effectively when a real incident occurs.

The objective is simple: the first time an organisation experiences the pressure and complexity of a serious OT cyberattack should not be during a real incident.



Marco Mellacqua
Business Development
Abeeway



Luca Barone
Digital & Energy Services BU
MAIRE

Workforce safety on construction site: connecting the physical world to digital insights for unparalleled operational control

Knowing where people and equipment are, at any moment, is becoming an operational requirement rather than a reporting convenience. On a large EPC project with thousands of workers from dozens of subcontractors, classified and restricted areas and a frequently changing layout, HSE and security performance depend on continuous, verifiable visibility of the workforce. The connected worker is moving out of the pilot phase and into the operating model of the site.

This joint session by Abeeway, part of Netmore Group, and MAIRE draws on deployments running on major EPC projects and is structured around practice rather than product. We outline the architecture at the level that matters to a project team, including certified wearable devices for classified areas, positioning that remains continuous across open areas, buildings and confined spaces, and connectivity light enough to move with the site.
We then focus on the implementation method itself: requirements analysis and zone classification, network design, configuration of zones and alarms, access control and subcontractor onboarding, and a feedback loop that continues after go-live. Each phase is owned jointly with the client's HSE, IT and construction organizations, and the sequence carries more weight than the technology selection.

We also review the breadth of use cases a single deployment can serve, from emergency management and control of hazardous areas to site security, proof of presence, resource allocation and compliance reporting.

The core of the session is what implementation has taught us: what governs adoption by the workforce, which decisions have to be settled before any hardware is ordered, where the organizational effort concentrates, and how the value of the data changes once it reaches existing project systems. Not all of these lessons were anticipated.

We close with the direction of travel, including further EPC projects, closer integration with access control and planning systems, and the convergence of workforce and asset visibility into a single operational picture.

The session is intended for Digital Leads, HSE and security managers, and construction and project directors who are evaluating this capability for an upcoming project or are already running a deployment.



Jacopo Moretti
HSE R&D Engineer
Saipem SpA

A study on smart wearable IoT Devices

Digital transformation is progressively reshaping Health, Safety and Environment (HSE) management in large industrial construction sites, where dynamic work fronts, multiple contractors, harsh environments and rapidly changing risk conditions make traditional supervision alone insufficient to guarantee continuous control. This abstract presents an integrated vision for the digitalization of site HSE controls, moving from single smart devices toward an interconnected ecosystem able to support real-time prevention, operational awareness and data-driven decision making across the entire work line.

The approach builds on the experience gained with LiSa HyperHarness, an IoT-enabled smart safety harness developed to support proactive prevention of fall-from-height events through real-time tie-off monitoring, local worker feedback and remote supervision. The lessons learned from its development and field validation highlight a broader opportunity: applying the same logic of connected,context-aware and KPI-oriented safety monitoring to other critical site controls, including access to hazardous areas, personnel and asset positioning, environmental conditions, work-at-height interfaces, video analytics and wearable-based risk alerts.

Within this framework, new developments such as smart wearable devices and the S.A.F.E.T.Y. platform are intended to remain complementary elements of a wider digital HSE architecture. Without disclosing proprietary technical details, these solutions aim to strengthen the connection between field operations and centralized supervision by enabling early detection of unsafe conditions, progressive alert management, controlled data collection, integration with existing HSE processes and future use of analytics to identify recurring risk patterns. The objective is not to replace human supervision, but to enhance it through timely, reliable and actionable information.

The expected outcome is a scalable model of “connected site safety”, where smart PPE, wearable sensors, AI-based observation tools and operational dashboards converge into a common supervision layer. Such a model can improve situational awareness, reduce response time, support behavioral and procedural improvement, and generate structured indicators for continuous HSEperformance monitoring. By extending the LiSa concept from a targeted work-at-height application to a broader digital control framework, the proposed approachrepresents a step toward predictive, integrated and worker-centered HSE management for complex industrial sites.



Dr. Matthias Stege
Managing Director
exelonix GmbH

Unleashing the Power of Cellular IoT: Cost-Effective, Secure, and Scalable Valve Monitoring and Asset Tracking for Hazardous Environments

In modern chemical, refinery, and oil & gas operations, manual valve positioning remains a persistent operational challenge and a frequent source of safety risks. While digitizing these assets has historically been cost-prohibitive and infrastructure-heavy, advancements in Internet of Things (IoT) technology have finally made widespread automation economically viable. This presentation introduces a disruptive approach to industrial asset tracking and valve monitoring, marking a shift toward ultra-efficient field digitalization.

A central dilemma for operators looking to deploy sensors is connectivity: Why go through the complex, capital-intensive process of installing a separate, proprietary LoRaWAN network when you can leverage ubiquitous cellular networks? By utilizing existing cellular infrastructure, industrial facilities can deploy plug-and-play sensors that work instantly wherever applied, completely bypassing the need for localized network planning and dedicated gateway maintenance.



This talk explores the engineering and practical deployment of a new generation of ultra-low-power, cellular-based sensors designed specifically for the harshest environments. Key capabilities discussed will include:

- High-Precision Valve Monitoring: Continuous, accurate valve position tracking paired with integrated temperature and vibration monitoring to detect operational anomalies before they lead to failure.
- Dual-Purpose Versatility: Beyond fixed valves, integrated GPS location estimation unlocks adjacent logistics use cases, such as Intermediate Bulk Container (IBC) position monitoring across vast industrial complexes.
- Rapid, Flexible Deployment: Simple on-site installation with power-efficient hardware and the flexibility of either local or remote calibration, significantly reducing commissioning time.
- Uncompromising Security: Purpose-built for critical infrastructure, utilizing robust authentication tokens and TLS encryption to ensure end-to-end data integrity from the field to the cloud.
- Seamless OT Integration: Out-of-the-box compatibility allowing data to bridge smoothly into existing company Operational Technology (OT) and SCADA systems.
- Hazardous Area Compliance: Fully Ex-certified and ready for immediate rollout in explosive atmospheres, including refineries, pipelines, and chemical plants.

Attendees will gain actionable insights into how removing network infrastructure bottlenecks drastically lowers the Total Cost of Ownership (TCO) for IoT deployments, accelerating digital transformation across the critical process industries.



Christian Duun Norberg
CEO
Fieldnode

From Pilot to Practice: Scaling Digital Inventories and On-Demand Manufacturing in the Energy Sector

Over the past decade, digitalization, additive manufacturing, and increasingly resilient supply chain strategies have transformed what is possible in industrial maintenance and operations. Yet while many organizations have successfully demonstrated individual use cases, scaling these capabilities across assets, suppliers, and geographies remains a significant challenge.

In this session, Christian Norberg, CEO of Fieldnode, shares practical lessons learned from supporting the adoption of Digital Inventories and On-Demand Manufacturing across the energy sector. Drawing on industry-wide experience, he explores the journey from isolated pilot projects to operationally viable, scalable supply chain models.

The presentation will examine the key barriers organizations encounter when attempting to movebeyond proof-of-concept initiatives, including governance, quality assurance, intellectual property, supplier collaboration, data readiness, and organizational adoption. It will also highlight the critical role of standardization, transparency, and digital workflows in enabling trusted execution at scale.

Rather than focusing solely on technology, the session will address the broader ecosystem required to make distributed manufacturing a repeatable and sustainable part of industrial operations. Attendees will gain insights into how leading organizations are rethinking inventory strategies, improving supply resilience, reducing dependency on physical stock, and acceleratingaccess to critical spare parts through digitally enabled supply networks.

The session will provide practical perspectives for leaders in operations, maintenance, supply chain, engineering, and digital transformation who are seeking to understand not whether on-demand manufacturing works, but how it can be successfully implemented and scaled across complex industrial environments. As the energy sector continues to pursue greater resilience, efficiency, and sustainability, Digital Inventories are emerging as a key enabler in the transition from traditional inventory models to more agile and data-driven supply chains.



Max Leon Fritsche

Robotics Engineer

Security Robotics – Development & Solutions GmbH

Beyond Surveillance: How Autonomous Robotics and AI Help Prevent Unplanned Downtime in Oil & Gas

Oil, gas, and energy facilities depend on regular inspections to maintain safe and reliable operations. At the same time, skilled personnel are limited, many areas are hazardous or difficult to access, and installing fixed sensors throughout an entire site is often expensive and inflexible.

Autonomous robots offer a practical alternative. Quadruped robots, wheeled platforms, and drones can act as mobile sensor carriers, repeatedly collecting data at the locations where it is needed. Equipped with cameras, thermal imaging, microphones, and environmental sensors, they can support tasks such as reading analog gauges, detecting unusual heat patterns, identifying visible anomalies, monitoring restricted areas, and documenting changes over time.

The greatest value comes from combining different robots and sensors in one integrated system. A hardware - agnostic fleet allows operators to use the platform best suited to each task while maintaining a consistent workflow for mission planning, data collection, and analysis. This makes robotic inspection easier to scale beyond isolated pilot projects.

Robots are not intended to replace experienced technicians. Their role is to perform repetitive, time-consuming, or dangerous inspection rounds and provide reliable data continuously. Technical personnel can then focus on diagnosis, maintenance, and decision-making.

By improving inspection frequency and asset visibility, autonomous robotic systems can help detect anomalies earlier, reduce operational risk, and lower the probability of unplanned downtime. Flexible service models can also reduce the need for high upfront investment and make advanced inspection technology accessible to a wider range of industrial sites.



Ashwini Oke
Founder & CTO
ASETS-CA Inc.

ASETS
Reimagine Engineering

The Intelligence Layer — From Digital Twin to Digital Intelligence

A digital twin shows you your asset.
An intelligence layer tells you what it means.

Asset owners have invested heavily in reality capture, 3D models, BIM, engineering documents and operational data. Yet much of this information remains fragmented, difficult to interpret and expensive to keep up to date.

The next generation of digital twins must do more than represent an asset — they must understand it.

An Intelligence Layer continuously connects the physical asset with its engineering data, detects what has changed, identifies inconsistencies, understands relationships and turns millions of data points into actionable engineering insight.

Imagine asking your digital twin:

“What has changed?”

“Is my model still accurate?”

“Which equipment is affected?”

“What engineering documents are inconsistent?”

“What should we investigate?”

— and getting an answer.

This is the shift from Digital Twin ➜ Intelligent Asset.

For asset owners, the opportunity is enormous: less manual verification, faster engineering decisions, reduced risk, better asset visibility and a continuously evolving understanding of the physical asset.

The digital twin is the foundation.
Intelligence is what makes it valuable.

Media partners

Offshore Technology

STRATEGIC MEDIA PARTNER

Offshore Technology is essential reading for decision-makers in the global offshore oil and gas industry, offering the latest news and insights in an interactive format. Published monthly and free to access on all devices, our digital magazine, Offshore Technology Focus, provides an in-depth look at key market and investment trends, detailed analysis of resources and discoveries worldwide, and the licensing and policy decisions affecting the industry. Additionally, it offers updates on the latest technology for upstream and midstream operations.

www.nridigital.com/offshore-technology-focus

Digital Refining

DigitalRefining.com is the refining, gas and petrochemical processing industries reference library of choice, providing a constantly growing database of technical articles, company literature, product brochures, videos, industry news, events and company information.

www.digitalrefining.com

Decarbonisation Technology

Decarbonisation Technology focuses on strategies, legislation and technologies powering the transition to sustainable fuels and energy. It explores the global deployment of technologies, products and services, whether mature, at early adoption, under demonstration or prototype, along with the growth of supporting infrastructure, latest policies and proposed legislation. It combines knowledge from refineries, gas and petrochemical plants, engineering and technology companies alongside renewable energy producers, governments, advisers and policy makers looking to influence the energy transition.

www.decarbonisationtechnology.com

Energies Media

Energies Media is a leading source of comprehensive coverage of the oil and gas and renewable energy industries. By combining the expertise of OILMAN, OILWOMAN and ENERGIES magazines, it delivers insightful content to a global audience, offering a unified experience across the full spectrum of energy-related topics.

www.energiesmedia.com

Automation

Automation is the only journal in the UK devoted exclusively to covering automation technology within the manufacturing sector. Automation's feature-led editorial covers the latest automation technologies, products and trends within the UK manufacturing industry, while in-depth application stories examine real-life automation projects and the technologies employed. Importantly, all editorial focuses on the benefits of integrating automation solutions to help improve manufacturing efficiency. Automation magazine is also available in a digital format.

www.automationmagazine.co.uk

PTQ

PTQ is the authoritative magazine covering process technology developments in the refining, gas and petrochemical industries. Each issue of PTQ carries in-depth technical feature articles from around the world charting experiences under operating conditions in improving production or safety or meeting environmental targets. It is the practical and detailed nature of these articles that makes PTQ required reading for engineering decision makers.

www.eptq.com

DirectIndustry

DirectIndustry.com is a global B2B marketplace connecting industrial buyers with leading manufacturers and suppliers.
The platform supports oil and gas professionals in automating and digitalising their operations by providing convenient access to specialised industrial solutions.
Users can discover, compare and source hardware and software for advanced energy projects through a centralised and user-friendly platform.

www.directindustry.com

Energy Business Outlook

Energy Business Outlook is a leading magazine dedicated to exploring the latest trends, innovations, and developments in the energy sector. With a focus on the dynamic intersection of energy and business operations, our publication provides in-depth analysis and expert insights into how companies are navigating the evolving energy landscape.

www.energybusinessoutlook.com

Energy Business Review

Energy Business Review is a print and online magazine that provides readers with a 360-degree view of the energy ecosystem. The magazine covers the entire spectrum of the energy community, including various energy companies and related stakeholders. Our subscribers include Senior Research Scientists, SVP Drilling & Well, Chief Engineers - Drilling & Completion, Drilling Contractors, Geologists and Geophysicists, Project Heads, VP Refinery Operations, Director – Oil & Gas Exploration and Production, GVP Strategy & Sustainability, Rig Owners and many other senior decision-makers from across the energy sector.

www.energybusinessrevieweurope.com

Engineer Live

Engineer Live is one of the world's leading engineering portals, providing daily news, expert opinions and technical articles across design, process engineering, energy, power, mining, electronics and transport. The platform connects leading suppliers with industry professionals and key decision-makers worldwide.

www.engineerlive.com/category/oilgas

FineEngineering Magazine

FineEng.eu is a professional technology magazine providing in-depth coverage of innovative products, solutions and industry developments. High-quality editorial content offers valuable insights for visionary leaders, innovators, professionals, decision-makers and influencers seeking new ideas to advance their industries.

www.fineeng.eu

Industrial Technology

Industrial Technology is an international magazine covering industrial technologies, automation, manufacturing, energy and the oil & gas sector. It delivers industry news, expert insights, case studies and product updates for OEMs, EPCs, technology providers and engineering professionals.
Available in both print and digital formats, Industrial Technology reaches more than 50,000 companies worldwide across Europe, the USA and the Arab world. The publication also partners with major industry exhibitions, chambers of commerce and associations, strengthening its position as a trusted media platform for the industrial and energy sectors.

www.industrialtechmag.com

Energy Digital

Energy Magazine connects the leading energy executives of the world's largest brands. Our platform serves as a digital hub for connecting industry leaders, covering a wide range of services including media and advertising, events, research reports, demand generation, information, and data services.
With our comprehensive approach, we strive to provide timely and valuable insights into best practices, fostering innovation and collaboration within the energy community. Join us today to shape the future for generations to come.

www.energydigital.com

EveryEng

EveryEng is a platform that connects engineers of different domains and provides opportunities to learn, earn and grow. The first ever platform for engineers from many disciplines to use for online learning, mentorship and project execution. EveryEng helps engineers re-imagine their possibilities with the right network of mentors, technical learning opportunities and earning by doing projects.

www.everyeng.com

i4.0 Today

I4.0 Today is our exclusive platform dedicated to the concept, technology and future of Innovation and Industry 4.0. i4.0 Today magazine is a digital platform and quarterly magazine publication covering multiple high technology manufacturing sectors and includes technical features, interviews and contributions from many of the industry leaders and innovation experts.
The i4.0 Today team is also part of our creative agency, which works exclusively to support customers within the industry.

www.i40today.com

Industry Events

The Industry Events website and mobile app is a trusted platform designed for professionals to navigate the dynamic world of business events. It features global industry news on the latest tech trends in Finance, Energy, Healthcare, Manufacturing and more. Its mission is to make it easier for professionals, enterprise and academia to collaborate and attend cross-industry events focused on solving the world's most challenging problems.

www.industryevents.com

IoT Now

With exclusive analyst reports and specialist journalists, IoT Now is the leading global brand covering the Internet of Things, machine-to-machine communications (M2M), embedded devices and connected consumer devices. Delivering webinars, quarterly magazines, white-papers, daily news and expert opinion pieces and podcasts, IoT Now focuses on the deployment of these technologies across the enterprise, automotive, logistics, healthcare, utilities, travel, security and smart city verticals.

www.iot-now.com

mundocompresor.com

mundocompresor.com is an online industrial publication formed by professionals with extensive experience in the industrial sector. We work to provide all the news of an industrial sector that covers all technologies related to: compressed air, vacuum, gases, industrial automation, industry 4.0, logistics, mechanical equipment, industrial refrigeration, robotics, pumps, and engineering. mundocompresor is Media Partner of important industrial events around the world (Europe, Africa, Asia and America).

www.mundocompresor.com

Oil Gas Technology

Induportals Media Publishing is a global B2B media network covering 25+ industries, including automation, energy, manufacturing, infrastructure, and more. Through specialised media like Oil and Gas Technology, we deliver news, technical articles, product highlights, and expert insights to C-level executives, innovation leads, and engineering decision-makers worldwide.

www.oilgastechnology.com

PCN Europe

PCN Europe is an essential source of information for professionals in the broad field of processing industries since 2004. It looks into different areas, reporting about new developments and trends in the field of Measurement and Instrumentation. Also Motion Technology as well as Pumps, Valves and Fittings and Processing Machinery is in the editorial focus of PCN Europe. With the increasing importance of Digitalization and Industry 4.0 for processing and faster innovation and product cycles, products solution and standards in the Automation and Communication are getting even more important.

www.pcne.eu

KindCongress

KindCongress lists scientific conferences from all over the world keeping professional conference organizers (PCO), speakers and attendees up to date with the latest conferences from a wide range of sciences. Conferences register to be seen by potential attendees and speakers. And speakers can register to get invited by conferences.

www.kindcongress.com

Oil & Gas World Magazine

Oil and Gas World Magazine is a quarterly publication covering the latest developments in the oil and gas industry across the Middle East. The magazine is published in both English and Arabic, making it accessible to a wide readership. The magazine's coverage includes oil and gas companies across the Middle East and North Africa (MENA), with a particular focus on Kuwait, the UAE, Saudi Arabia, Qatar, Oman, Iraq, Egypt, Libya and Algeria.

www.mecei.org

IEN Europe

IEN Europe (Industrial Engineering News) is a leading media platform for industrial decision-makers across Europe. For over 50 years, it has delivered insights on innovation, products and solutions for the manufacturing sector. With coverage spanning Industrial IoT, energy efficiency and AI in production, IEN Europe connects engineers and executives with the latest trends in hybrid, process and discrete industries.

www.ien.eu

Plant Automation Technology

Plant Automation Technology is a global B2B online business and technology media platform that serves the complete automation industry. Having flagged off its operations for more than 12 years, Plant Automation has been an across-the-board network that intensifies the expansive Automation market by advertising paramount companies in the sector.

www.plantautomation-technology.com

StartupNews.fyi

In an era of information overload, staying informed is tougher than ever. StartupNews.fyi simplifies this by delivering quality, clutter-free news from diverse, reputable sources, ensuring unbiased coverage. Beyond news, we actively connect startup founders and investors through high-impact networking events, startup mixers, and pitching sessions. By bridging the gap between entrepreneurs and investors, we empower the startup ecosystem with insights, opportunities, and meaningful connections, making staying informed and engaged effortless.

www.startupnews.fyi

TechnologyCatalogue

TechnologyCatalogue.com is a leading B2B technology platform for the energy industry. Founded in 2018 and headquartered in The Hague, the platform connects energy operators, technology suppliers and independent experts in one trusted ecosystem.
The platform gives energy companies access to thousands of curated technologies, peer-reviewed deployment references, real use cases, AI-powered search and expert support, making it easier to compare options and make confident technology decisions without the need for expensive consultants or time-consuming exhibitions.

www.technologycatalogue.com

Worldoils

Worldoils is a company that combines the power of marketing as well as the in-house expertise for the Oil, Gas, Offshore and the Maritime industries. Worldoils web portal has become a truly central platform for visitors who need information regarding oil and gas products and services, research, training, conferences, news and events as well as a popular advertising base for providers of Oil, Gas, Marine and Offshore services. Worldoils has also launched the jobs system and a marketplace.

www.worldoils.com

TechLed

TechLed is a new multiverse of sector-specific channels that explain, explore and expand upon the technology innovations transforming industries. TechLed focuses on the business models enabled by connectivity, AI, cloud and edge computing, and automation and autonomy. Each TechLed channel is focused on empowering tech leaders with incisive journalism, insightful analysis and real-world content that demystifies the trends driving innovation. For TechLed, connectivity is the unifying enabler that brings together innovations and allows them to be efficiently exploited by businesses.

www.techledworld.com

The Energy Year

The Energy Year is a global media platform providing first-hand intelligence on emerging energy markets. Its coverage spans the entire energy value chain, including oil and gas, renewable energy, major infrastructure projects, investment opportunities and ESG policies.
Through direct engagement with industry leaders, companies and governments, The Energy Year reports on market developments, energy transition initiatives and projects shaping the sector. Its insights help decision-makers better understand evolving markets and identify new business opportunities worldwide.

www.theenergyyear.com

About organiser

About us

BGS Group is a team of professionals with solid experience in organising business events in energy and pharmaceutical sectors. Companies from over 20 countries already do business with BGS and their number increases every year.

Having partners in governmental structures, leading energy and pharmaceutical companies BGS is oriented towards creating brand new business platforms for sharing professional experience and networking.

Managing board



Alexey Bazhenov
CEO



Tatyana Grigorieva
CFO

Project Director



Yuliya Glazyrina

Head of networking



Tim Pliev

BGS
GROUP