

2026 Edition



BUSINESS UNIT

**Chemical, Petrochemical,
Oil & Gas**



seingim

ABOUT US

/ being Seingim

Since 1997, Seingim has been generating value and making a significant contribution to the advancement of civil and industrial engineering, not only in Italy but also worldwide.

Collective well-being is at the core of our engineering philosophy. This is why we strive every day to transform our vision into valuable solutions and opportunities for both people and the environment.

Our clients and partners benefit from the expertise of **over 560 professionals**, a comprehensive suite of integrated services and a strong commitment to innovation and excellence.



/ Our Operating Offices

- Ceggia (Venice) - HQ
- Milan
- Rome-Prati
- Rome-Parco de' Medici
- Genoa
- Turin
- Padua
- Verona
- Bolzano
- Ispra
- Trieste
- Udine
- Ferrara
- Fano
- Cagliari
- Taranto
- Vibo Valentia
- Catania
- Almaty (KZ)
- Riyadh (KSA)
- Basel (CH)
- Munich (DE)

Quality Standards & Certifications

- Quality: **ISO 9001:2015**
- Environment: **UNI EN ISO 14001:2015**
- Health & Safety: **UNI EN ISO 45001:2023**
- Energy: **UNI CEI EN ISO 50001:2018**
- BIM: **UNI/PdR 74:2019**
- Social Responsibility: **SA 8000:2014**
- Information Security: **UNI CEI EN ISO/IEC 27001:2024**
- Gender Equality: **UNI PdR 125:2022**

/ Vision

Seingim aims to become a global leader in multidisciplinary engineering, delivering advanced and sustainable technological solutions for industry and infrastructure, ensuring efficiency, safety and innovation.

/ Mission

Seingim develops innovative and sustainable engineering solutions by integrating advanced technologies and multidisciplinary expertise to ensure efficiency, safety and high-quality standards in industry and infrastructure.

COMPANY

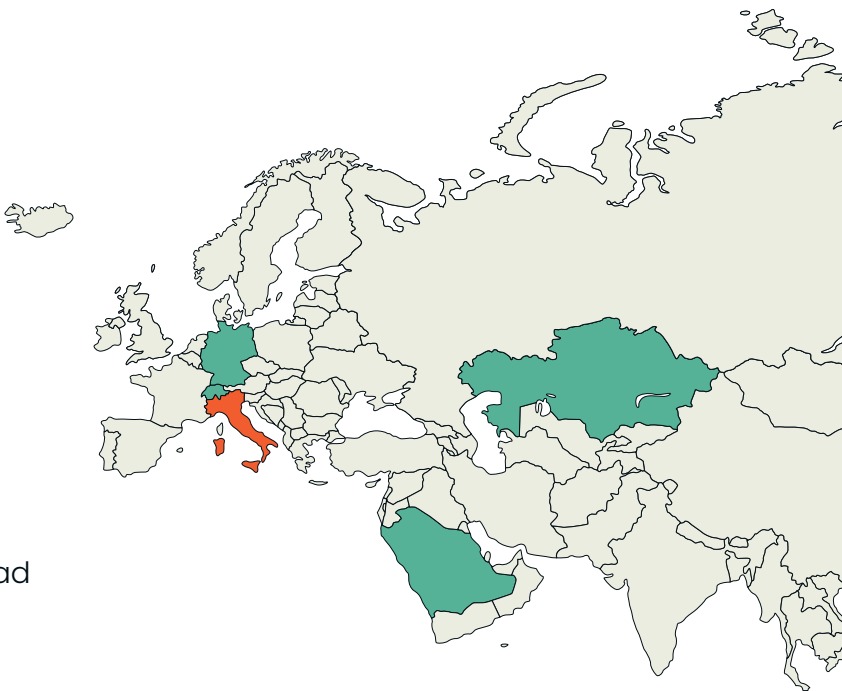
/ Key Data

560+
Resources at
Seingim

180+
New entries in
2025

1.1 Mln
Engineering
hours in 2026

22
Group offices:
18 in Italy and 4 abroad



OUR EXPERTISE

/ Business Sectors

Our multidisciplinary expertise enables us to successfully operate across a broad range of industries, delivering tailored solutions that meet each client's specific needs. By combining advanced technical capabilities with an innovative approach, we effectively tackle complex challenges, ensuring quality, sustainability and outstanding results.

- Chemical & Petrochemical
- Oil & Gas
- Life Sciences
- Power Plants & Energy Transition
- Buildings
- Infrastructure
- Transport & Water Infrastructure
- Renewable Energies
- Energy Efficiency
- Project Management & Control
- Environment & Surveys



/ Our Organization



LIFELONG LEARNING

/ Professional Growth

We believe in continuous improvement. In the engineering sector, staying up to date is essential to meeting industry standards and driving innovation. That's why we invest in development programs to ensure our team is always equipped to tackle new challenges and deliver cutting-edge solutions.

Every project starts with an idea and with us ideas become reality.



/ Our Technical Capabilities

- Process Engineering
- Design HSE Engineering
- Piping & Layout Engineering
- Civil & Structural Engineering
- Electrical Engineering
- PVHE, Machinery & Package Engineering
- HVAC Engineering
- Instrumentation, Automation, Control & Telecommunications Engineering
- Energy Efficiency Engineering
- Project Management & Control
- Field Engineering, Commissioning & Start-Up

SOLUTIONS FOR INDUSTRY

/ Integrated Industry Excellence

BASIC, FEED,
Detail Design



With extensive experience and a highly-specialized team, we tackle the most complex challenges in: Industrial Plants optimization and Power Plants engineering, developing innovative multidisciplinary projects worldwide.

Seingim delivers high-value engineering solutions for industrial plants, integrating advanced technology, deep industry knowledge and sustainability.

We cover all three engineering design phases, each one corresponding to a precise moment in the life cycle of a project:

- Basic Engineering Design (BED)
- Front-End Engineering Design (FEED)
- Detail Engineering Design (DED)

supporting also our clients during procurement, construction & installation and commissioning. We optimize plant performance with modern technologies by maximizing production, minimizing waste and integrating advanced automation and control systems, while

adhering to the highest environmental standards and legal requirements.

Every project we develop integrates seamlessly across multiple domains:

- Environmental and Regulatory: Through in-depth permit analysis, compliance studies, and precise environmental impact assessments.
- Technical: From feasibility studies to detailed executive designs, incorporating innovative products and materials for optimal efficiency.
- Infrastructure: Adhering to national and international grid transport and dispatching requirements.

Advanced Industry Solutions

A Seamless Journey: From Concept to Operation

Complementing our industrial plant solutions, Seingim delivers comprehensive technical expertise throughout the manufacturing project lifecycle. This includes site surveys and facility layout, culminating in detailed engineering.

By integrating advanced automation and data analytics with process optimization, we empower clients to achieve enhanced operational resilience, optimized resource management and a significant reduction in environmental impact.

ALL-IN-ONE SOLUTIONS

/ Integrated Approach

Seingim combines a solid experience in field project activities with an innovation-driven engineering approach, guiding our Customers throughout all project phases — from concept development to detailed design, execution and commissioning. This integrated method allows us to deliver all-in-one solutions tailored to the different and evolving needs of the Industry sector.

Concept

- Pre-FEED;
- Feasibility Studies;
- Technical Analyses;
- Concept Design.



Execution

- Basic Engineering Design (BED);
- Front End Engineering Design (FEED);
- Detail Engineering Design (DED).



Operation

- Commissioning;
- Operational Support;
- Supervision Works;
- Training Services.



/ Our Value Proposition

Basic Engineering

Support for Conceptual Design phases to ensure technical-economic optimization of the Project, by providing integrated studies of functional engineering systems.

FEED

Support our clients establishing a well-defined scope, budget, schedule and identify risks, resulting in greater success during implementation, start-up, and beyond.

Detail Engineering

Experiences in engineering design and assistance during project construction. Deep insight into item and bulk engineering.

EPCM

Highly qualified Project Management Office to support all phases of design and construction, adopting an integrated and transversal approach for all EPCM phases.

- ✓ On Time & On Budget Capacity
- ✓ Work Package Capacity
- ✓ Experience in all Energy Sources
- ✓ Support in all Project Life Cycle Stages
- ✓ Tailor-made Solutions

COMPREHENSIVE ASSISTANCE

/ Our Services



Seingim offers support throughout all project engineering phases.



Project Scope & Conceptual Design

- Economic Evaluation
- R&D
- Product Data & Properties
- Equipment & Instruments
- Design



Process & HSE Design

- Process Analysis
- Project Costs & Evaluation
- Flow Sheet Calculation
- Optimization
- Loss Prevention
- Reliability Engineering
- Fire Fighting Design
- HAZID, HAZOP, SIL, LOPA



Detailed Engineering & Equipment Procurement

- P&IDs
- Vendor Data
- Design Validation
- Hazards Analysis
- Automation Concepts



Construction, Installation & Check-out

- Project Management
- Planning & Scheduling
- Contractor Mobilization
- Modifications
- Equipment Installation Assistance



Commissioning & Decommissioning

- Controls Configuration
- Controls Testing
- Operator Training
- Dynamic Simulation



Operations & Asset Management

- Troubleshooting
- Optimization
- Debottlenecking
- Operator Training
- Maintenance Support
- Real-time decision support

CHEMICAL, PETROCHEMICAL & PROCESS PLANTS

Seingim delivers advanced engineering services for the chemical and petrochemical industries, ensuring efficiency, safety and sustainability in complex process environments. Our expertise ranges from initial feasibility studies to detailed engineering and project execution.

Process Engineering & Systems Optimization

FEED and Detailed Engineering, integrating HVAC, Electrical, Instrumentation & Control (I&C) systems.



Safety & Risk Management

Process & safety analyses, including Hazard and Operability (HAZOP) studies, risk assessments and Computational Fluid Dynamics (CFD) simulations.



Project Execution & Lifecycle Support

End-to-end project management, supporting our clients, from procurement and construction phase to commissioning to achieve long-term operational efficiency.



Green Ammonia & Hydrogen Technology Hub

Location	Portugal
Year	2024
Tasks	Multidisciplinary FEED: Piping, Civil & Structural, Buldings, HVAC, Instrumentation & Automation, Telecom and Electrical.
Manhours	40.000



Plants Capacity:

- Name Plate 1,200 MTPD Haber-Bosch Ammonia synthesis
- 300,000 tonnes Ammonia / year
- 50,000 tonnes Hydrogen / year

Water Treatment (DEMI) + KOH, Electrolysis (Hydrogen generation), Hydrogen storage, Ammonia Synthesis (Haber-Bosch), Nitrogen Generation (NGU), Ammonia Storage, Ammonia Pipeline, Ammonia Loading and Shipping.



We design solutions that enhance operational efficiency, safety and environmental sustainability and ensure that each project meets the highest industry standards while addressing the evolving challenges of modern industrial production. Our commitment to innovation and precision engineering enables us to support clients in optimizing processes, mitigating risks, and achieving long-term reliability across complex chemical and petrochemical infrastructure.



OIL & GAS



Providing innovative, multidisciplinary engineering solutions to drive efficiency, reliability and sustainability in the ever-evolving energy sector.

Seingim stands at the forefront of the Oil & Gas industry, where innovation, efficiency and sustainability converge. We deliver integrated solutions for both onshore and offshore plants, ensuring operational excellence, safety and environmental

stewardship. Our expertise encompasses comprehensive engineering services, from feasibility studies to project management, enabling us to meet the rigorous standards of the industry and contribute to a sustainable energy future.

Our services



Basic Engineering and FEED

We conduct thorough feasibility assessments and develop FEED to ensure project viability, cost-effectiveness and alignment with client objectives.



Multidisciplinary Detailed Design and Construction Support

Our team provides detailed design and construction support, integrating process, civil, structural, mechanical and electrical disciplines to optimize functionality and compliance.



Project Management & Control

We apply robust project management methodologies to oversee project execution, ensuring adherence to timelines, budgets and quality standards.



Commissioning, Start-Up and Assistance

Our services extend to commissioning, start-up assistance.

Our Project

North Field Liquefied Natural Gas

The scope of work included the development of process data sheets, P&IDs, instrument data sheets, control system definition, utility and electrical load summaries, and hazard classification for each unit. Detailed engineering was performed for units 72 (Refrigerant Make-up & Storage), 83 (Fire Protection System, tanks and pumping system only), 95 (Compressed Air), and 96 (Nitrogen production), based on the FEED phase documentation.



Location	Saudi Arabia
Year	2023 – 2025
Service	Utilities & Offsite (U&O) Design, P&IDs Development, Process Design Safety (PDS)
Tasks	Detail Engineering Design (DED)

MAIN ACTIVITIES



Our offer



MULTIDISCIPLINARY Plant Engineering

- Layout & Piping Engineering
- Piping Stress Analysis
- Civil & Structural Engineering
- Electrical Engineering
- Instrumentation, Control & Automation Engineering
- Mechanical Equipment Design and 3D Modeling
- Rotating Equipment and Packages Engineering
- Static Equipment Engineering (pressure systems , heat exchangers, etc.)
- Health, Safety, Environment and Quality (HSEQ)
- Telecommunications Engineering
- HVAC Engineering
- Material Requisitioning
- Technical Bid Evaluation (TBE) and technical alignment of vendors offers



HSE Design

- Loss Prevention Engineering
- Reliability Engineering
 - Reliability, Availability, Maintainability (RAM)
 - Analysis
 - Failure Mode, Effects, and Criticality Analysis
 - (FMECA)
 - Fault Tree Analysis (FTA)
- Fire Fighting Engineering
- Fire and Gas Detection Systems Design
- Occupational Health and Safety in Design
- Hazard Identification (HAZID) Study
- Hazard and Operability (HAZOP) Analysis
- Safety Integrity Level (SIL) Assessment
- Layer of Protection Analysis (LOPA)
- Safety Review



PROCESS Engineering

- Feasibility & Debottlenecking Studies
- Process Equipment Sizing
- Process Simulation (both Steady and Dynamic) & Optimization
- Process Control Philosophy
- Utilities & Offsites (U&O) Design and Troubleshooting
- Utilities Consumptions & Effluent Summary
- Heat & Material Balances (H&MB)
- Process Schemes (PFDs, UFDs, P&IDs)
- Hydraulic Circuit Design & Analysis
- Equipment & Instrumentation Datasheets
- Equipment & Line List
- Technical specifications for purchase and request for technical proposal
- Technical Bid Evaluation (TBE) and technical alignment of Vendors Offers
- Cost estimation of new plants



Project Management, Field Engineering, Construction Supervision

- Project Planning & Control
- CAPEX and OPEX Estimation
- Project & Site Management
- Technical direction and works supervision
- Permitting
- Systems Pre-commissioning, Commissioning, Start-Up
- Mechanical Completion
- Field Engineering
- Construction Scheduling & Supervision
- Painting &Insulation
- Welding Inspection
- QA/QC
- Procurement Management & Strategies
- Supplier Management (Qualification, Negotiations...)
- Document Management System (DMS)

SPECIALISED SOFTWARE

/ Advanced Tools



PROCESS Engineering

- Aspen HYSYS
- PRO/II
- HTRI
- FLARENET
- AutoCAD
- SmartPlant P&ID



MULTIDISCIPLINARY Plant Engineering

- CAESAR II
- PIPENET
- AutoCAD 2D/3D
- AVEVA E3D
- Staad V8i
- Tekla Structures
- PV Elite
- AVEVA Instrumentation
- SmartPlant Instrumentation
- ETAP



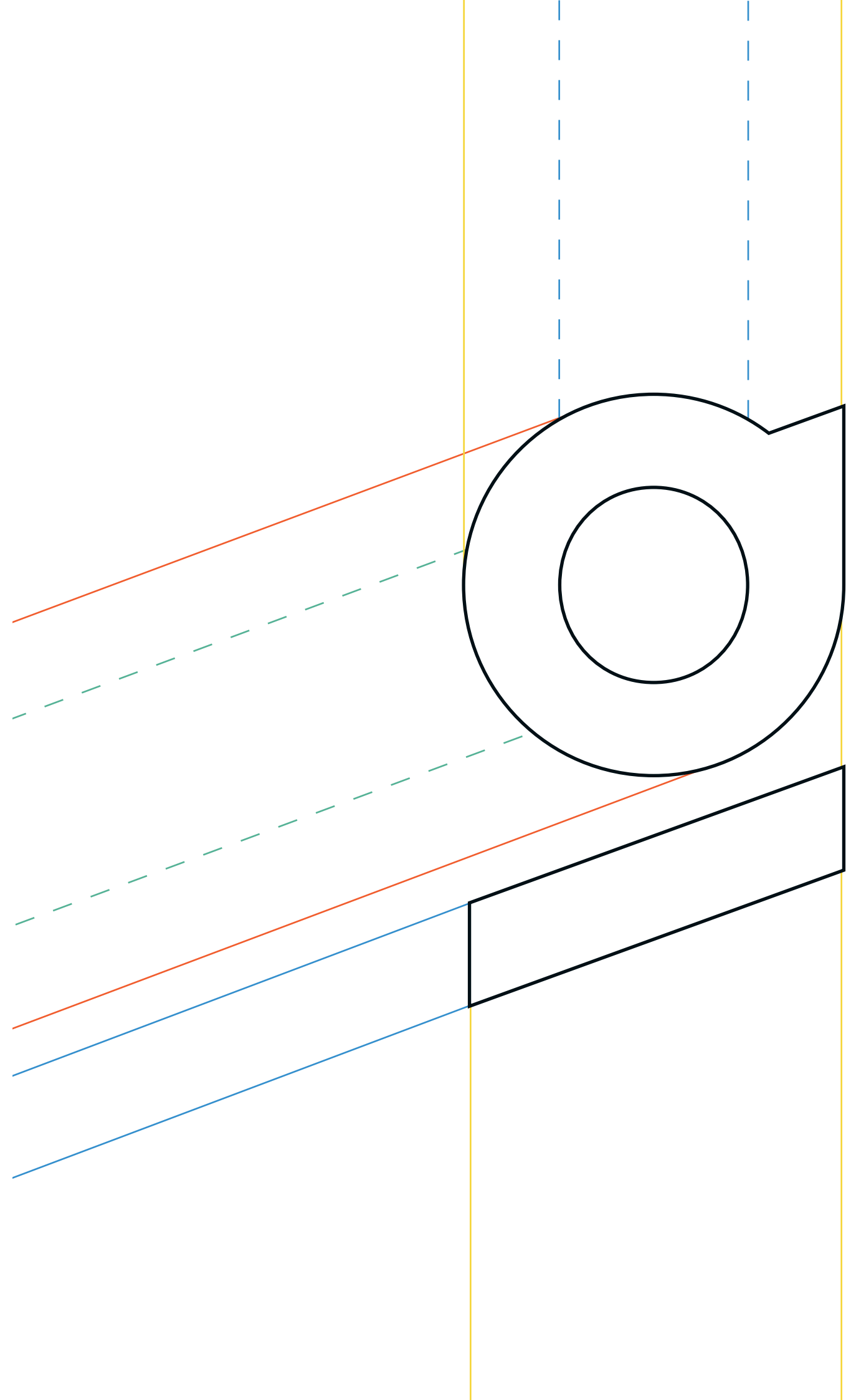
HSE Design

- Phast - DNV GL
- PHAWorks RA Edition
- Flaresim
- AutoCAD 2D



Project Management, Field Engineering, Construction Supervision

- Microsoft Project
- Oracle Primavera P6 Professional
- Ms Office
- SAP



**The future depends on
key strategic decisions.**

**Seingim is the trusted
partner that turns ideas
into reality.**

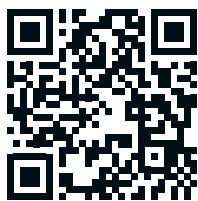


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**DESIGNING
CHANGE,
BUILDING
THE FUTURE.**

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