

From data to reliable information

General Brochure

Independent consulting services & Software solutions for the Energy & Renewable-, Refining-, (Petro)chemical-, Process industry and Government.



Measurement & Allocation



Operational Excellence & Automation



Asset Integrity & Maintenance



Software & Data Management

improve efficiency through **H**uman **I**nterest in **N**ew **T**echnology

HINT

In today's interconnected world, technology is more than an advantage. It is a necessity. HINT was founded on one belief: companies that integrate information and operational technology operate more efficiently, safely, predictably and sustainably.

For over 30 years, HINT has been bridging the gap between managers, operators, engineers and technicians with independent consulting services and software solutions that help them work more efficiently. We have seen their struggles with installing, configuring, maintaining and monitoring online equipment: time and money spent in excess, only to get data of unsatisfactory quality.

> **That is where we make a difference. We provide proof of data quality based on the traceability chain of measurement verifications according to international standards. This results in data for reliable information.**

We serve the Energy & Renewables, Refining, (Petro)chemical and Process industries and Government, combining expertise in Measurement & Allocation, Operational Excellence & Automation, Asset Integrity & Maintenance, and Software Development & Data Management. Our work is about impact: higher efficiency and sustainable, accountable operations.

We offer software in two ways. **AML (Asset Management Lifecycle)** is our standard software product, proven in the energy and (petro)chemical industry. Alongside AML, we develop **custom-made software**, tailored to the needs of each client and industry.

We are not just consultants. We are enablers of progress, moving industries forward one solution at a time.

Our expertise

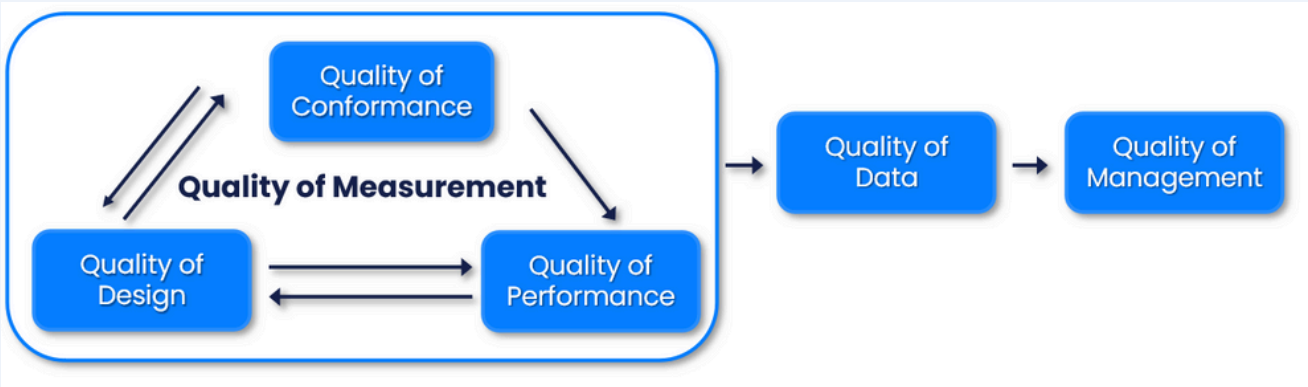
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From quality of measurement to quality of management



From data to reliable information

TRUST THE DATA • EXPLAIN THE LOSS • ACT ON THE CAUSE

Three questions for every plant manager

01 TRUST THE DATA

Can you prove the source data is reliable, today and six months later?

02 EXPLAIN THE LOSS

Can you connect lost production to the event, equipment and initiating signal?

03 ACT WITH CONFIDENCE

Can teams turn validated evidence into repeatable corrective action?

Reliable decisions require a traceable measurement chain

An error in the third digit of flow or composition is worth millions a year.

DATA CONFIDENCE MUST BE PROVABLE, NOT ASSUMED

Two questions to consider

How do you keep measurements reliable and accurate?

Could you prove data quality six months later, to an auditor or offtaker?

THE TRACEABILITY CHAIN (From instrument to traceable standards)

01	VISUAL INSPECTION	Does the hardware meet the specification and is it connected?
02	VERIFICATION	Is the instrument connected and does it communicate?
03	VALIDATION	Is the measurement data within the control limits?
04	CALIBRATION	If not, recalibrate and record it.

Every decision inherits the quality of the measurement behind it.



Measurement & Allocation

Accurate measurement is the basis for fiscal accounting, custody transfer and reliable operations. An error in the third digit of flow or composition is worth millions a year.

HINT combines independent measurement expertise with AML software to design, validate and supervise metering and allocation systems, from a single meter run to a complete production network.



How HINT adds value

- Basis of design and detailed engineering of single and multiphase metering systems
- Metering system validation and deployment
- Metering station handbooks
- Flow and uncertainty calculations, incl. Monte Carlo simulation
- Determination of calibration and validation limits
- Metering audits
- Allocation design and reporting
- Data analytics
- Specification of analyzer management and emission monitoring systems
- Training

Operational Excellence & Automation

High-performance companies know that perfection is never reached: improvement is always a work in progress. Driving operational improvement in the digital age needs a different approach to people, processes and technology.

It takes an agile approach that keeps adjusting, to lower operational risk and operating costs and to create a safer, more motivated workforce.



How HINT adds value

- Workflow assessment, integration and automation
- Cultural transformation and process improvement
- Better simulations and models through analytics
- Automation of critical functions, systems and processes
- Integration of software and hardware systems

Asset Integrity & Maintenance

A system-level approach is required to ensure the integrity of energy assets. It covers facility design, maintenance management, decommissioning of equipment, auditing and inspections.

Taking a strategic and holistic approach, asset integrity software and processes improve plant reliability and safety while reducing costs.



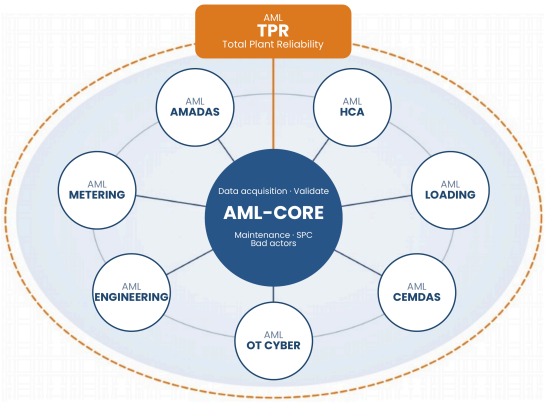
How HINT adds value

- Asset integrity assessment and consulting
- Asset integrity process design
- Asset integrity management system (AIMS) deployment
- Process safety and SIL (safety integrity level) assessment
- Analysis of safety critical elements (IPF, HIPPS, fire & gas)
- Improvement of technical integrity

Software & Data Management

Off-the-shelf software often offers only a partial fit: every company has its own workflows and requirements. HINT offers both the AML software product and custom-made software built for your workflows.

Managing critical data throughout a facility's lifecycle keeps it available, reliable and valuable: how data is generated, stored, managed, distributed, analyzed and used, from feasibility and design to procurement, construction and operations.



How HINT adds value

- Cyber security assessment and integration
- Industrial Internet of Things (IIoT)
- Artificial intelligence (AI) and industrial machine learning (IML)
- AI custom-made software development, coding and testing
- Mission Learning: use cases as input for reasoning
- Verified Reality Engineering (VRE)
- Data management: assessment and consulting, knowledge management processes, collection, storage, integration, real-time validation software and data predictions
- Analytics and collaboration software

AML software solutions

- AML-TPR: total plant reliability
- AML-METERING: fiscal and custody transfer metering
- AML-HCA: hydrocarbon accounting and allocation
- AML-LOADING: loading control
- AML-AMADAS: analyzer management
- AML-CEMDAS: emission monitoring
- AML-OT CYBER: OT cyber visibility
- AML-ENGINEERING: engineering tools (HUST, KLEPCAL)

Interested to learn more?

Talk with one of our experts

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