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TrueCORR

CORROSION INTELLIGENCE

Corrosion costs billions every year

Corrosion impacts profitability through maintenance spending, lost production, higher energy consumption, and operational risk.

Maintenance Costs
Inspection, repair, and replacement activities

Production Costs
Reduced throughput and off-spec product

Energy Costs
Lower heat transfer efficiency

Risk Costs
Safety, environmental, and compliance exposure

Corrosion is not a maintenance problem.
It's a profitability problem.

Why conventional corrosion programs leave value on the table

LIMITED VISIBILITY

You can't see it

Physical coupons, probes and inspections only cover selected locations. Risk can evolve between monitoring points and between shutdowns.

LIMITED INSIGHT

You can't interpret it

IoWs often rely on single-variable thresholds, creating excessive alerts and making it difficult to distinguish genuine risk from normal process variation.

DELAYED RESPONSE

You can't act on it in time

By the time damage is confirmed in the field, production, maintenance planning and asset reliability have already been affected.

The opportunity

Identify corrosion hotspots at isometric level, use multifactor IoW logic, and prioritize action with corrosion rate, remaining life and asset condition.

How OLI **TrueCORR** Digital Twin works

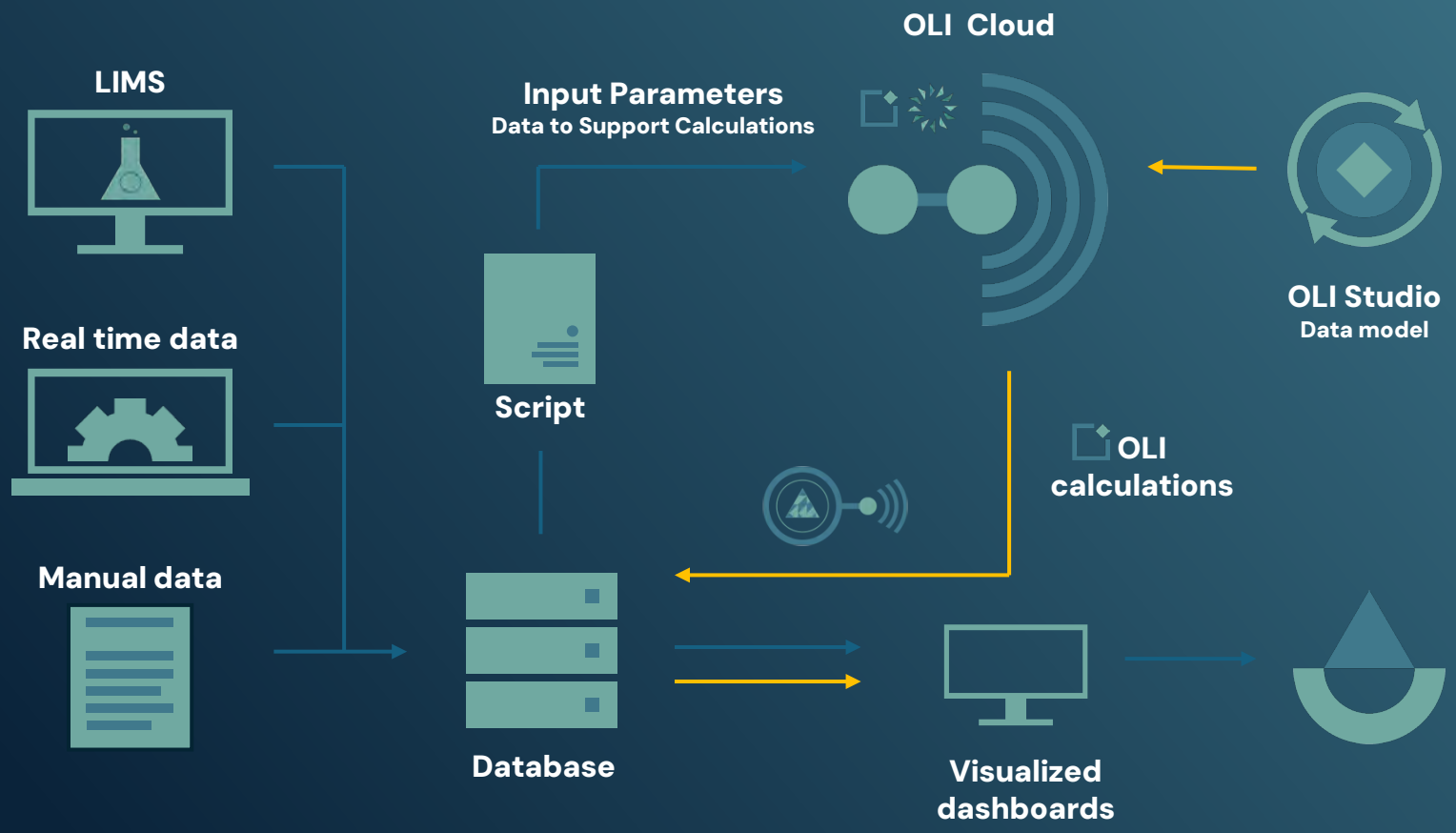
Secure data ingestion & QA
Historian / DCS, LIMS and APM data are harmonized and confidence-scored before modeling.

High-fidelity OLI engine
Phase equilibrium, speciation, corrosion rate and localized risk are calculated with the validated models.

Virtual Corrosion Coupon network
Critical loops, locations and geometries receive digital monitoring points far beyond sparse intrusive coverage.

Dynamic IoW intelligence
The platform confirms true integrity risk, ranks the dominant driver and points to the best mitigation lever.

Writeback & dashboards
Risk, IoW status, KPIs, alerts and actions are sent to dashboards, historian and maintenance workflows.



Designed for every decision-maker

Corrosion Engineer

+ Damage mechanism visibility
+ VCC trends
+ Remaining life
+ Inspection prioritization

Process Engineer

+ Driver ranking
+ Chemical and operating levers
+ Dynamic IoW management

Operations

+ Clear alarms only when needed
+ Action guidance
+ Reduced false positives

Management

+ Fleet-level risk
+ Value protected
+ Maintenance timing
+ Dynamic RBI view

OLI helps asset-intensive plants rewrite the rules of corrosion management: continuous, location-specific, predictive, and economically optimized.

Fewer False Alarms

Reduce noise from single-variable triggers and respond only when corrosion risk is genuinely escalating.

Earlier Corrosion Hotspot Detection

Spot high-risk locations continuously, at far greater granularity than sparse intrusive monitoring.

Dynamic RBI-ready Prioritization

Use live corrosion rate, asset condition and remaining life to focus inspection and maintenance where it matters most.

Smarter Production Decision

Select the mitigation lever that addresses the true corrosion driver instead of defaulting to unnecessary throughput loss.

Move from reactive corrosion management to predictive integrity control

Turning corrosion intelligence into operating value

Economic levers

Where does the business create or protect value?

+ Avoid major turnarounds caused by late corrosion discovery
+ Optimize maintenance scheduling around actual degradation
+ Reduce unnecessary rate cuts caused by conservative operating limits
+ Focus inspection spend where corrosion risk is highest

Operational levers

How do teams work differently?

+ Recommend mitigation actions based on predicted corrosion rate
+ Create a shared operating picture across integrity and operations
+ Support dynamic RBI using continuously updated corrosion evidence
+ Scale the approach across additional units and process trains

Protect Revenue

Potential value protected:>$2M/day

Increase Availability

Improve reliability and reduce disruption

Extend Asset Life

Reduce avoidable equipment degradation

Operate Closer to Limits

Increase confidence near operating limits

+ Let's scope it

Discovery Workshop
Book a 60-minute technical scoping workshop with our corrosion and process engineers to map your priority loops and define success criteria.

+ Activate it

Implementation
OLI builds the corrosion models, establish multifactor IOWs and Virtual Corrosion Coupons™, and connects TrueCORR to your available systems.

+ Scale it

Expand It
Scale at your pace
Build on proven value by extending TrueCORR across additional corrosion loops, operating areas and sites using a repeatable deployment approach.

A focused start. Fast Adoption. A scalable path to Continuous Corrosion Intelligence