



They see FAILURE. We see it COMING.

KNOW WHERE YOUR PROCESS BECOMES UNSAFE

Before **SCRAP**. Before **DOWNTIME**. Before **EXPENSIVE FAILURES**.

Physics-First Stability Intelligence for Industrial Processes

WHY PLANTS CALL US

- Scrap keeps increasing without clear reason
- Machine looks healthy but output isn't
- SPC shows normal, but problems continue
- Tool life changes from batch to batch
- Production cannot be increased safely
- Root cause remains unknown

PROCESS STABILITY AUDIT

ONE Audit. **ONE** Dataset.

THREE Answers

- Where your stability boundary is?
- How far you currently are from it?
- What to change - and by how much?

WHAT YOU CAN DECIDE AFTER THE AUDIT

- Safe Operating Limit
- Safety Margin (%)
- ETSN - Process Stability Score
- Safe Operating Activity
- Early Stability Warning
- Recommended Parameter Changes

NO system changes · **NO** additional hardware
Works on your **EXISTING** data

IF INSTABILITY IS NOT MEASURED, IT IS NOT CONTROLLED



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WHY COMPANIES HIRE US



Real production challenges where our framework is applicable

THEY CALL US WHEN ...

MACHINING

Tool life varies
High scrap rate
Poor surface finish
Cannot raise feed
Behaves differently

STEEL

Quality varies daily
Frequent mill stoppages
High energy use
Process oscillations
Yield keeps dropping

AUTOMOTIVE

Line balance unstable
Cycle time increasing
Rework increasing
OEE keeps falling
Ramp-up not possible

WELDING

Weld quality varies
Distortion increases
Spatter increases
Heat unstable
Frequent rework

CHEMICAL

Reactor oscillations
Frequent plant trips
Product off-spec
Energy cost rising
Control loops hunting

CASTING

Random defects
High rejection rate
Yield inconsistent
Process drifts
Process won't stabilize

BEARINGS

Unexpected failures
Life unpredictable
Vibration increasing
Maintenance rising
Failure unexplained

POWER

Boiler instability
Efficiency falling
Unexpected trips
Load fluctuations
Hidden degradation

CEMENT

Kiln unstable
Energy rising
Output fluctuates
Frequent shutdowns
High maintenance

SEMICONDUCTOR

Yield suddenly drops
Same recipe, new yield
Process drift
Equipment looks healthy
Root cause unknown

AEROSPACE

Capability drifting
Tolerance failures
High rework
Tool wear varies
Certification risk

OIL & GAS

Pump instability
Flow fluctuations
Unexpected shutdowns
Energy losses
Maintenance rising

ADVANCED MFG.

Scale-up fails
Laser instability
Additive defects
Parameter uncertainty
Yield unpredictable

ROBOTICS

Quality varies
Cycle drift
Unexpected downtime
Calibration unstable
Repeatability drifting

WIND ENERGY

SCADA looks normal
Power fluctuates
Hidden efficiency loss
Unexpected trips
Power curve drifting

PHARMA

Batch failures
Process validation fails
Yield inconsistent
Long deviation reviews
Scale-up uncertain

FOOD

Batch inconsistency
Quality variation
Yield losses
Frequent stoppages
Recipe no longer stable

**Don't see your
INDUSTRY**

Let's discuss it.

Every process has a stability limit. Yours too.