

MANAGING FRICTION REDUCING EMISSIONS

SEPT2024

SDT

GREEN INDUSTRY SINCE 1975



We help industries to **predict failures, control energy costs,** and improve product quality while contributing to the overall reliability of their assets.

ENVIRONMENTAL PERFORMANCE



SUSTAINABILITY
ENERGY SAVINGS

ENVIRONMENTAL PERFORMANCE



PRESCRIPTIVE MAINTENANCE
RELIABILITY

The P-F Curve Revisited

PRESCRIPTIVE

Model & knowledge based, identifies an issue and what to do (be)for(e) repair, uses multiple equipment and process data variables

PREDICTIVE

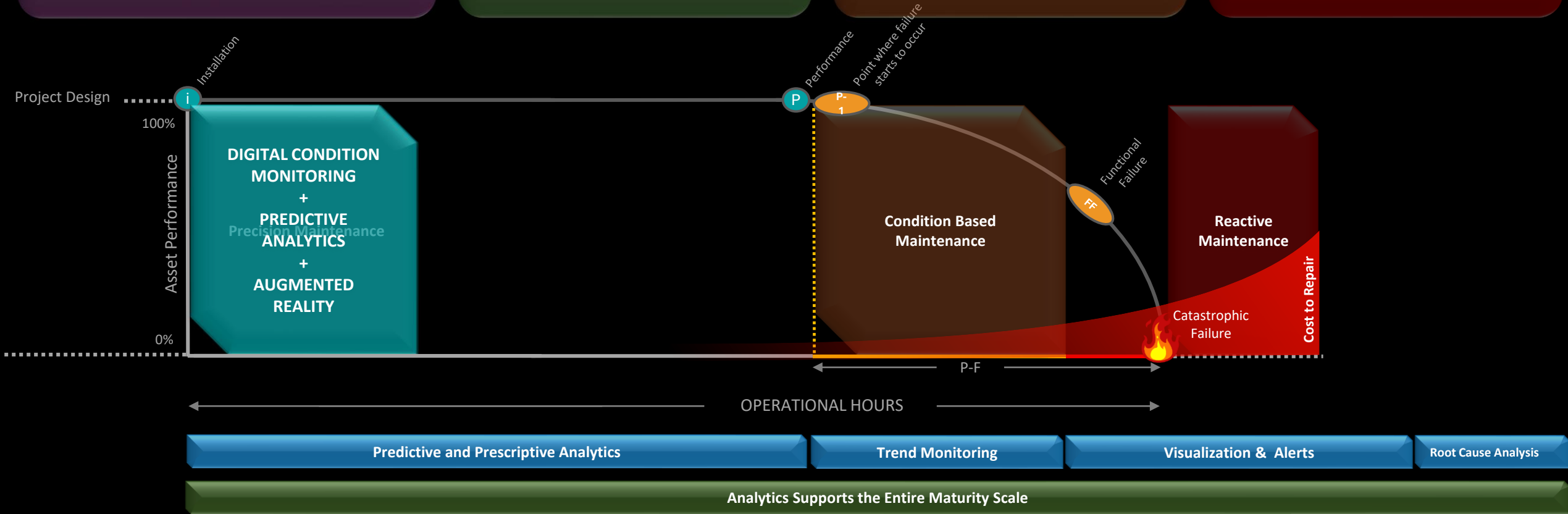
Equipment specific algorithms or machine learning, automated data collection (sensing 4.0)

DIAGNOSTIC

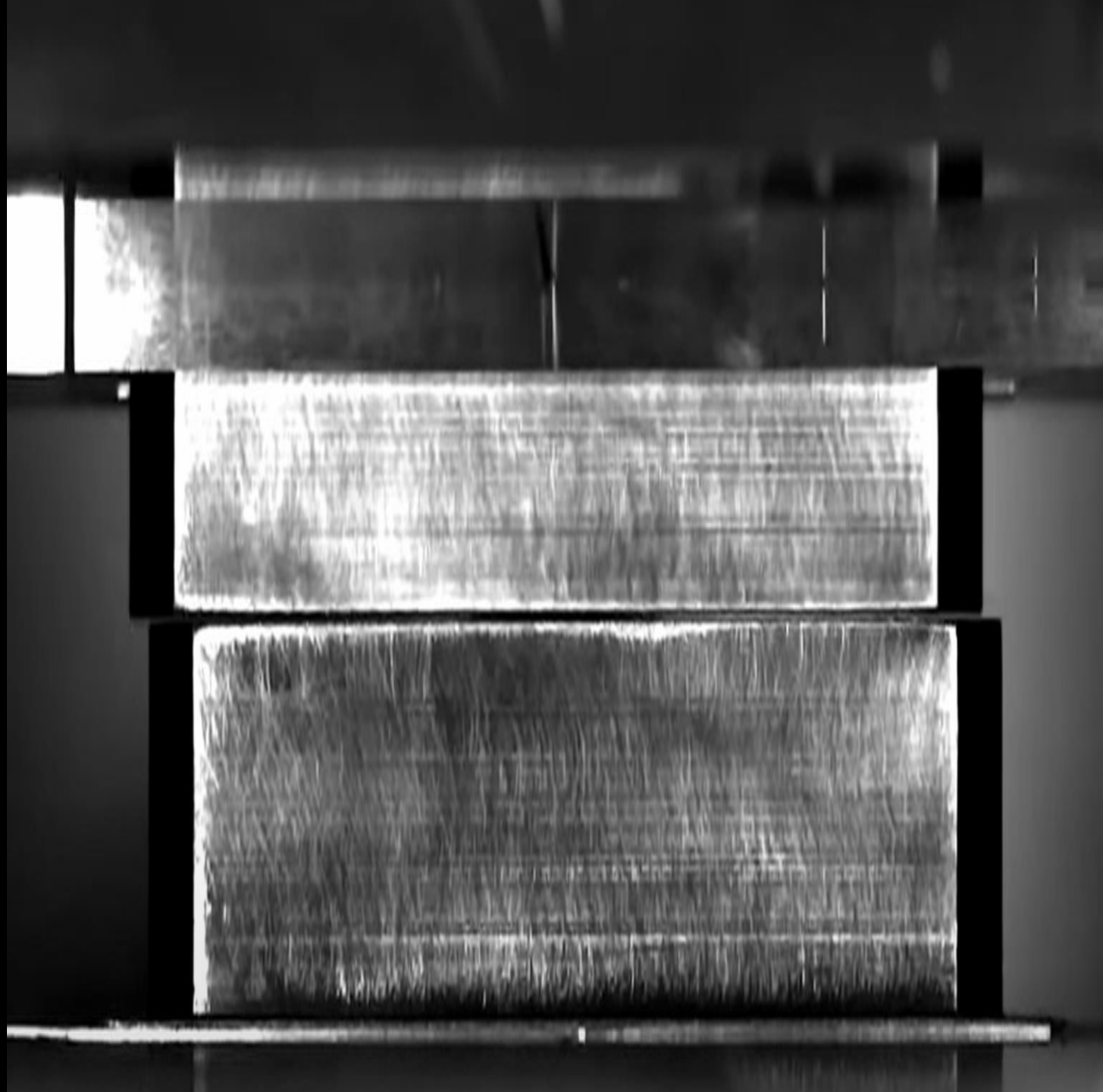
Condition Based Maintenance, Reliability Engineering and Root Cause Analysis

DESCRIPTIVE

Run to failure



FRICTION





Ultrasound Solutions

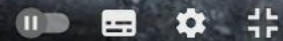
Press Esc to exit full screen



IS NOT A FICTION



Faites défiler la page pour afficher plus de détails



MANAGING FRICTION
REDUCING EMISSIONS

60% OF BEARING FAILURES LUBRICATION

- CONTAMINATION
- WRONG GREASE
- OVERGREASING
- UNDERGREASING

FOUNDATIONAL ELEMENTS REMAIN

CONDITION MONITORING

CONDITION MONEYTORING

WITHOUT SOLVING FIRST 60% HIGHLIGHTED BY RCA

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LATER,
MY CHILD WILL BE
A POLICEMAN,
A LAWYER,
A DOCTOR.



PERIODIC LUBRICATION CRITICAL RELIABILITY





• **CONTAMINATION**

- WRONG GREASE
- OVERGREASING
- UNDERGREASING



LUBExpert



- CONTAMINATION
- WRONG GREASE
- **OVERGREASING**
- UNDERGREASING

- 
- A close-up photograph of a mechanical assembly. A metal mesh screen is mounted on a wooden frame. The mesh is made of dark metal and has a diamond-shaped pattern. The wooden frame is light-colored and shows some signs of wear and discoloration. A metal bolt is visible on the wooden frame. The background is slightly blurred, showing a person's leg in blue jeans.
- CONTAMINATION
 - WRONG GREASE
 - OVERGREASING
 - UNDERGREASING**

Cost of bearing? - Off topic

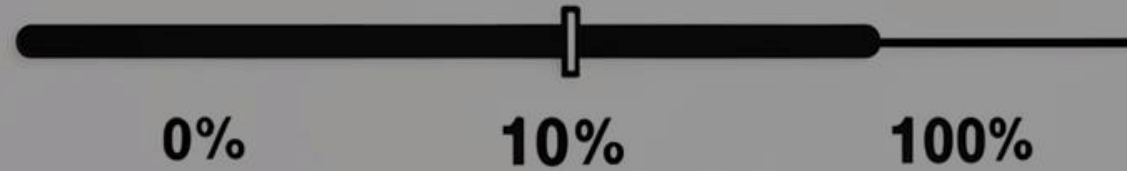
- Downtime
- Working hours
- Safety risks
- On-call duty
- Collateral damage
- Lost production
- Lost customers
- Poor quality
- Emergency work
- Urgent spare parts
- Delivery
- Poor security
- Low team morale
- More...



**What about the kW
of wasted energy?**



LUBExpert

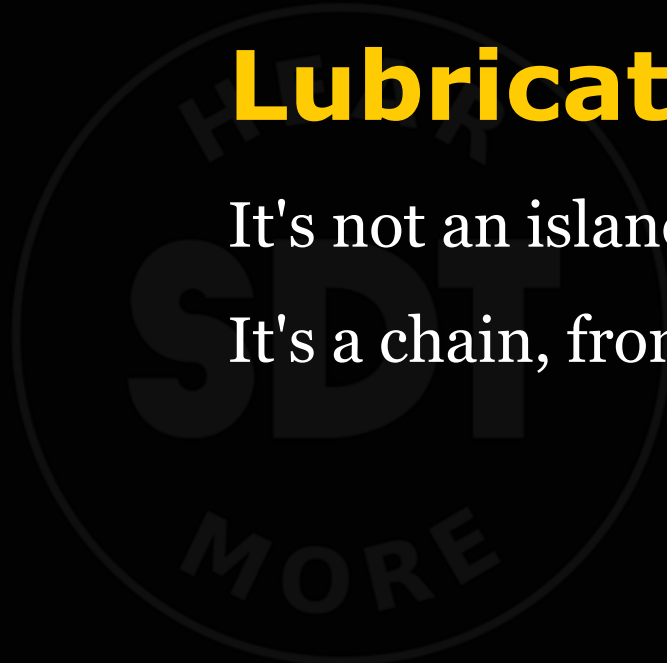


**IMPORTANCE OF
LUBRICATION ON A SCALE
OF 1 TO 100?**



Lubrication

It's not an island, nor an isolated department.
It's a chain, from top to bottom.







RUPTURE FOR LACK OF:

- Awareness
- Priority
- Communication
- Discipline
- Control
- Responsibility
- Acknowledgment



ONLINE SYSTEM

CRITICAL MACHINES

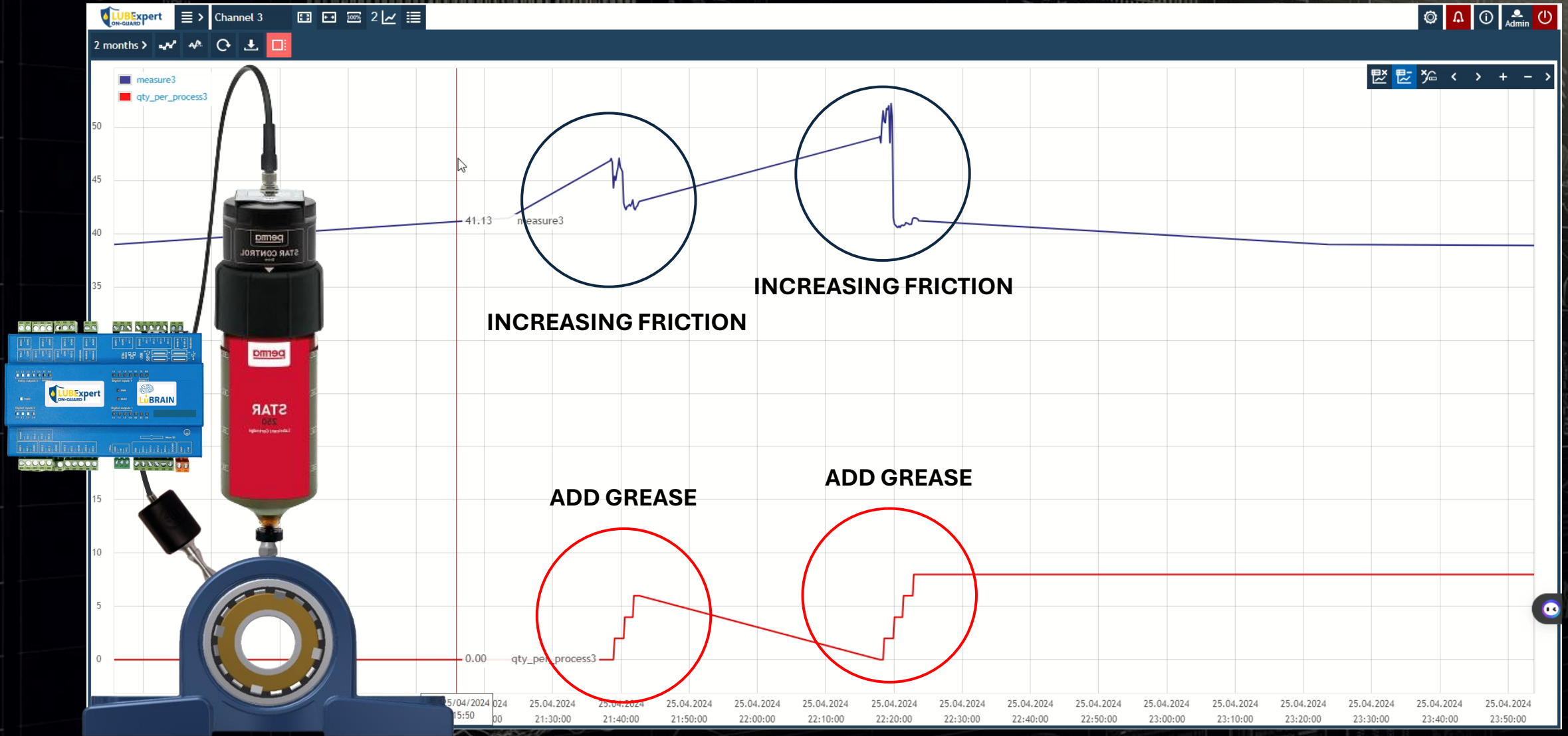
QUALITY

SECURITY

PRODUCTION

ENVIRONMENT

ULTRASONIC MEASUREMENTS IN THE AI SYMPHONY

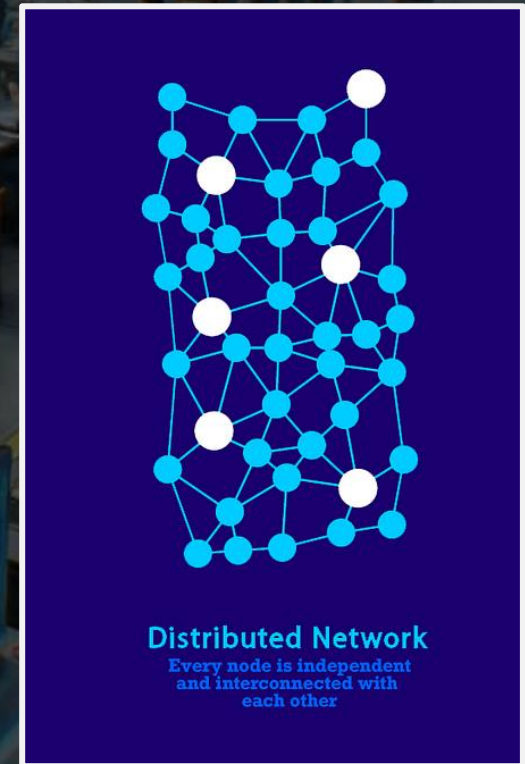
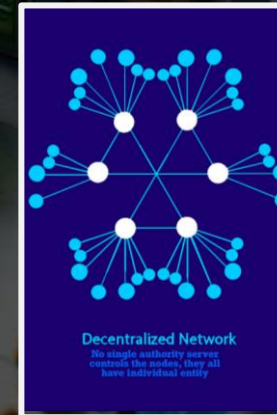
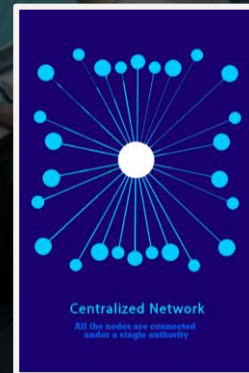


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REDUCING EMISSIONS

NEW WAYS OF THINKING

The illiterate of the 21st century won't be the one who can't read or write, but the one who can't **LEARN, UNLEARN & RELEARN.**

Alvin Toffler



MANAGING FRICTION
REDUCING EMISSIONS

HYPER SCALE

KNOWLEDGE DISSEMINATION/SKILLS TRANSFER

MANAGING FRICTION
REDUCING EMISSIONS

MICRO CARE

FOCUS ON ADDED VALUE THROUGH USER EXPERIENCE
→ THE IMPORTANCE OF HANDS-ON EXPERIENCE

'MICR O
CARE

MANAGING FRICTION
REDUCING EMISSIONS

INDUSTRY 5.0

- Beyond Efficiency and Productivity × 4.0
- Industry's contribution to Society
- Worker well-being at the heart of the production process
- New technologies at the Service of Prosperity,
- A Sustainable, People-centered and Resilient European Industry

MICRO
CARE



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