

BIG DATA: IS BIGGER ALWAYS BETTER – AND HOW MUCH IS ENOUGH?



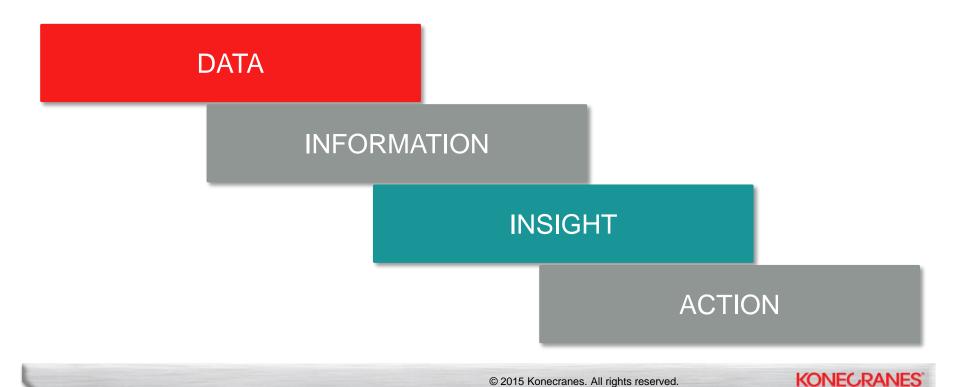
gigabyte terabyte petabyte exabyte zettabyte



GOOD QUALITY
RELEVANT
VERSATILE
ACTIONABLE
ACCESSIBLE

DATA IS THE NEW OIL.

DATA MUST BE REFINED TO BE OF VALUE

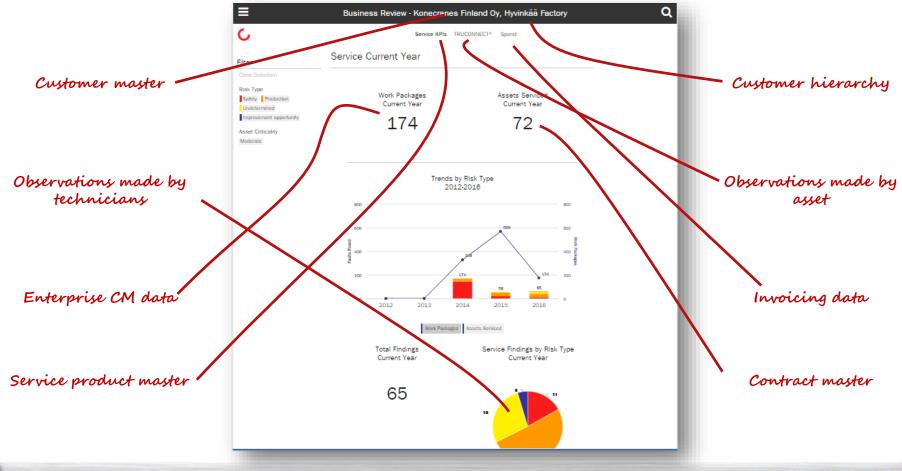


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TRADITIONAL BUSINESS PRACTICES GENERATE DISPOSABLE DATA INSTEAD OF REUSABLE DATA









BUT IF NOT ENJOYED FRESH, ONLY PART OF THE VALUE REMAINS



EDGE ANALYTICS

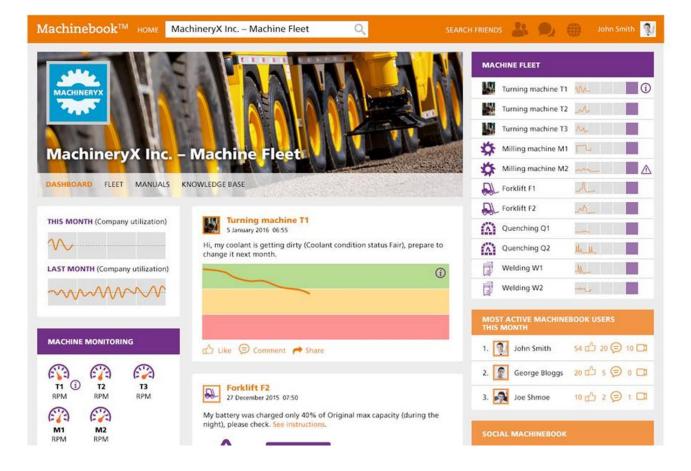
STREAMING REACTIVE PREDICTIVE

SITE ANALYTICS

ONLINE DESCRIPTIVE DIAGNOSTIC

FLEET ANALYTICS

OFFLINE PRESCRIPTIVE INSIGHTFUL DATA
INNOVATION
STEMS FROM
SHARING,
NOT FROM
HOARDING







OUR EQUIPMENT IS DIGITAL





SWAY CONTROL AND ACTIVE SWAY CONTROL



PROTECTED AREAS AND **WORKING LIMITS**



SLACK ROPE **PREVENTION**



ADAPTIVE SPEED RANGE (ASR), EXTENDED SPEED RANGE (ESR)



LOAD FLOATING



MICROSPEED



SNAG PREVENTION



HOISTING SYNCHRONIZATION



INCHING



ASSISTED **LOAD TURNING**



HOOK LEVELING



TARGET **POSITIONING**



HOOK CENTERING



SHOCK LOAD PREVENTION



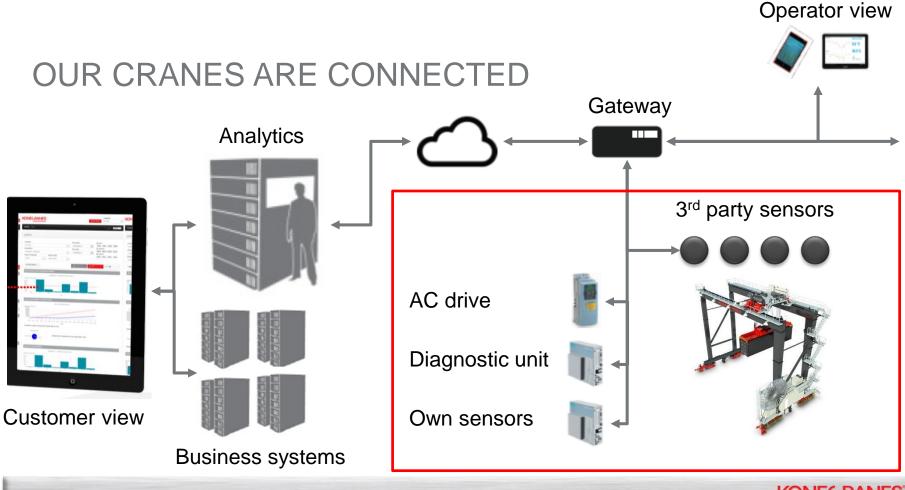
END POSITIONING



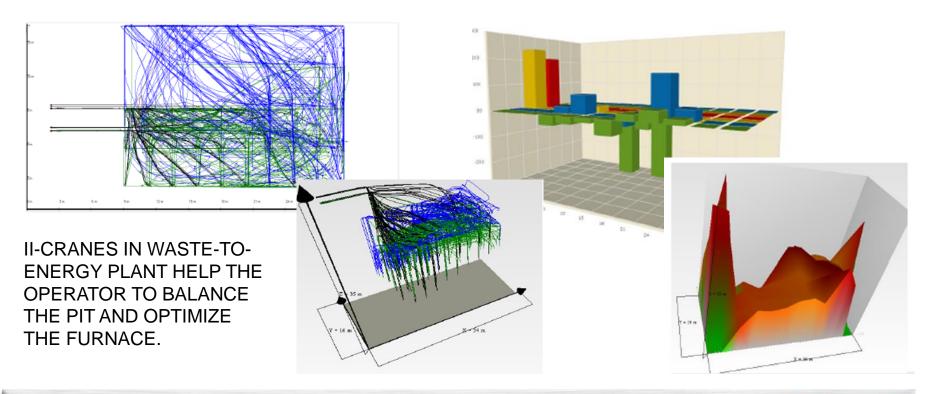
FOLLOW ME

AND DIGITAL PROVIDES CUSTOMER VALUE

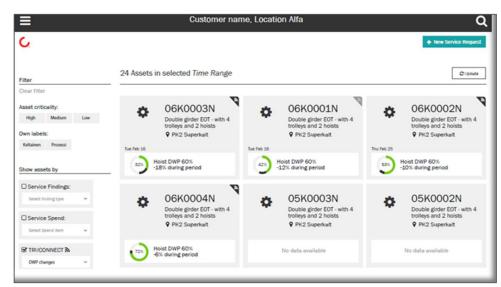
- Grab Control Load Sharing, Hoist Synchronization, Automatic Digging Control
 - Zone Control Prevents collisions with Pit Walls, Maze Walls, Hopper
 - Skew Control Prevents Skewing, on Bridge Cranes reduces Flanging
 - Track Monitoring Long-Term Rail Alignment Monitor (Bridge Cranes)
 - Sway Control Reduces Load Sway from crane motions
 - Remote Operation Operate from chair with joysticks/monitors in DCS
 - Full Automation Full Auto, with Operator Station in DCS
 - Semi-Automation Go-To-Hopper, Return-To-Prior-Location
 - D₂C Inverter Control Slack-Rope, Shock-Load, Amp Supervision
 - ReGen Control Breaking Energy Back to Power Supply Lines
 - PLC Supervision- (2) Status Panels, ReGen Coordination
 - Intelligent Anti-Collision Safe, Efficient Close-In Working
 - Diagnostics Archive, Trending, Drive and Device Status
 - Remote Support RemoteExpert, Monitoring, Support



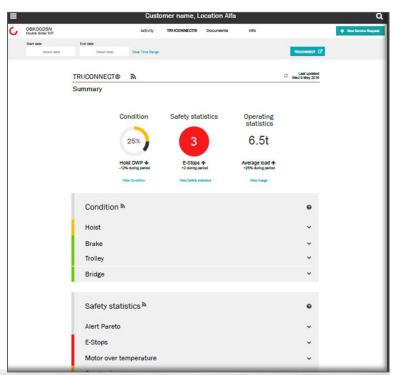
THEY ARE SUITED FOR COMPLEX ENVIRONMENTS...



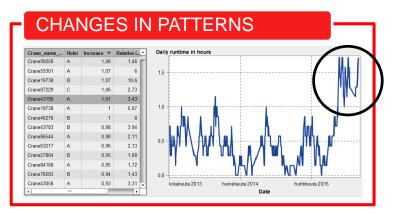
...AND STRAIGHTFORWARD APPLICATIONS

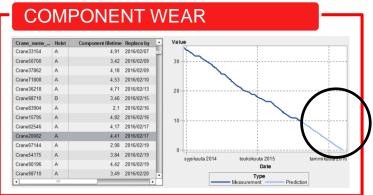


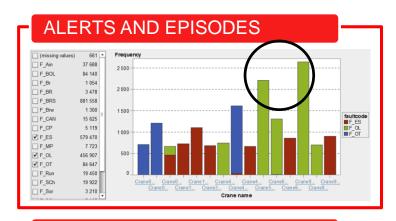
II-CRANES IN STANDARD MANUFACTURING FACILITY HELP TO PREVENT ACCIDENTS, IMPROVE PERFORMANCE AND PREVENT DOWNTIME



THEY PROVIDE INSIGHTS ON WHEN TO TAKE ACTION

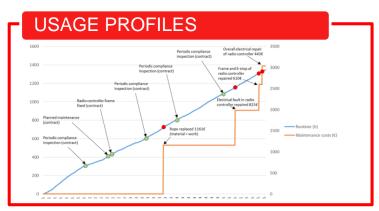




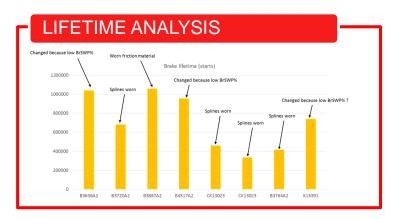


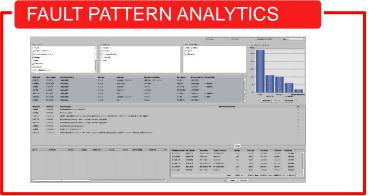


AND HOW TO DESIGN BETTER PRODUCTS & SERVICES













ALSO SERVICES CAN BE DELIVERED DIGITALLY

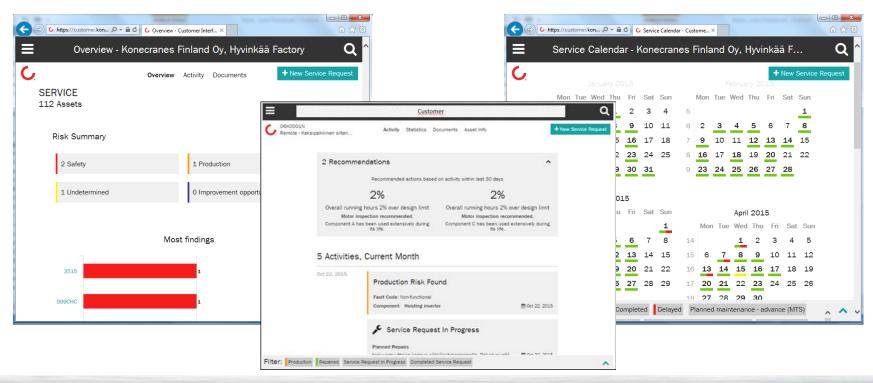




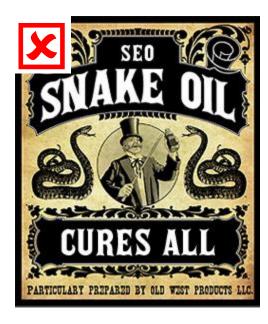
TRUCONNECT® REMOTE SERVICE



ALL DATA, MACHINE-, MAN-, AND SYSTEM- GENERATED, IS ACCESSIBLE BY CUSTOMERS AND KONECRANES ALIKE



DATA IS THE NEW OIL.



- 1. GOOD QUALITY
- 2. REUSABLE
- 3. ACTIONABLE
- 4. MULTI-TIERED
- 5. ACCESSIBLE



THANK YOU!

