OPENING NOTES ON DIGITALISATION AND OPPURTUNITIES TO INNOVATE FOR ENERGY TRANSITION

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DANONE at a Glimpse

Size
• Sales €23.6bn (2020)
• Employees 100,000+
• 100+ factories in 30+ countries

Environmental Sustainability Ambitions
• Purpose-driven company in France, with societal and environmental objectives along with financial
• 100% renewable electricity in production by 2030
• Carbon-neutral factories in all Europe by 2025
• Circular economy on plastics, rPET, and much more …

Digitalisation in Energy Utilities
• Industrial visualisation and control systems
• Energy monitoring and optimisation software
• Factory-wide digitalisation and performance monitoring
Digital Performance Management in Energy: A Typical Landscape of Solutions in a Big Organisation
Digital Performance Management in Energy: A Typical Landscape of Solutions

What it does?
• Equipment and process visualisation
• Control and equipment sequencing logic
• Alarms on process/ machine condition or failure mode
• Equipment performance check
Digital Performance Management in Energy: A Typical Landscape of Solutions

What it does?
- Production data
- Cost data per accounting category
- Standard Performance Indicators incl. Energy
Digital Performance Management in Energy: A Typical Landscape of Solutions

- Equipment SCADA / BMS
- Cost Controlling
- Environmental Reporting
- Energy Performance

What it does?
- Environmental monitoring data
- Compliance and environmental indicators
- Energy data from environmental perspective
Digital Performance Management in Energy: A Typical Landscape of Solutions

What it does?
- Combines SCADA and production data. Can include environmental and cost data
- Monitoring of energy performance at different levels. Not only energy…
- Setting performance targets. Can budget energy consumptions
- Alerts on deviation from target
- Tracks impacts of projects
- Analysing data patterns and abnormalities, response from control tower (expertise)
Lessons Learned and Advice on Digitalisation in Energy Transition

Project brief
• Be sure what is the scope and users
• Be clear about objectives: savings, cost avoidance, external expertise?
• Make rough assumptions on likely total cost of the solution
• Be clear what service you want from software provider (data analysis, reporting, expertise)

Project planning
• Ensure enough time for metering and digitalisation, data configuration for users

Go-live and use
• Ensure involvement of site team and external expertise if needed
• Integrate solution into on-site performance management routines

Next-level digitalisation (trends)
• Software with more expertise support (skill gap or time gain)
• Solution migration for wider inter-connected digitalisation of factory (next-level digitalisation)
• More automated functions with machine learning (emerging)
Questions please?

Thank You!