

Digital & Operational Excellence in Grundfos

LEAN og SMART Manufacturing Conference

Mads Brodersen, Head of Group CI Digitalization

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CONTINUOUS IMPROVEMENT
DIGITALIZATION

GRUNDFOS 

Possibility in every drop

The most global pump company in the world



1945

when it all
started



#1

pump manufacturer
in the world



20.026

employees



100+

companies
worldwide



16.000.000

units produced
per year



DKK 33,3

billion net
turnover in 2022



Part 1: Digital Performance Management

Part 2: Low-code Apps & Automation



Mads Brodersen
Head of Group CI Digitalization

9 years in Grundfos working
with process improvements

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Why Digital in CI?



* Illustration from Implement

Global function founded in Operations but with scope of all internal processes in Grundfos

PURPOSE

SCOPE

Smart Factory

Apps & Automation

Drive **Industry 4.0 Digitalization Projects** from idea through pilots and scaling to roll out

- AUTOMATION
- BIG DATA
- CLOUD COMPUTING
- CONNECTION
- IOT
- SYSTEM INTEGRATION

Turbo charging digital transformation and process improvements through **Apps & Automation platforms**

- Power BI Business Analytics
- Power Apps Application Development
- Power Automate Process Automation
- Power Virtual Agent Intelligent Virtual Agents
- Blue Moon Robotic Process Automation

Main focus on shopfloor and Operations processes

Internal processes and utilizing PowerApps, PowerBI, PowerAutomate, RPAs



SMART FACTORY

PEOPLE / CUSTOMER / COMPETITIVENESS

Performance management

The journey of shop floor daily action meetings

Department DAM board



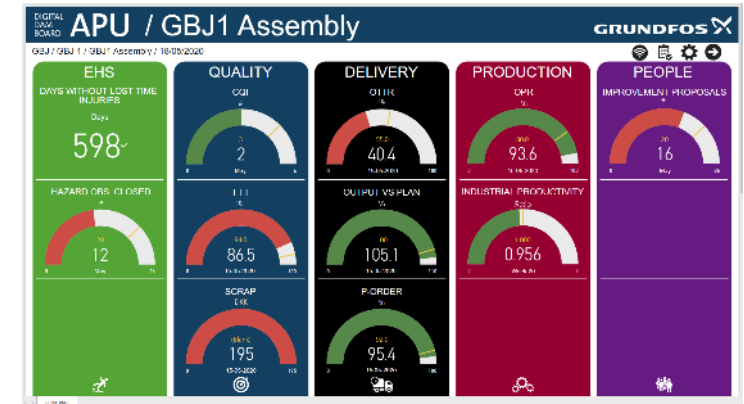
2011: With the first Lighthouse project in Denmark we started having daily action meetings using paper placed on big metal boards. Making performance management visible for all and including everybody in push towards better performance.

Totem boards



2018: We wanted to bring the KPIs closer to the operators to provide a greater sense of ownership. The KPIs were cut down, and this also means that a Totem only represents a small area or a line.

Digital Board Meetings (+2019)



2019: Next step is making all daily shop floor boards digital. Here the employees will run their own meetings using an interactive touch screen at their area.

Apps & Automation



CONTINUOUS IMPROVEMENT
DIGITALIZATION

GRUNDFOS 

Possibility in every drop

The Why

Speed up the digital transformation

Development resources scarcity

Process Excellence focus shift

Citizen Development +/-

Data control

**LOW
CODE**



**NO
CODE**



The How



Center of excellence

Availability

Modularization



Future secured

Standardized UX/UI

Validated business impact

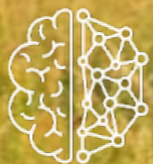


Data validity

Aligned with group standards



ONWARDS AND UPWARDS



CONTINUOUS IMPROVEMENT
DIGITALIZATION

GRUNDFOS 