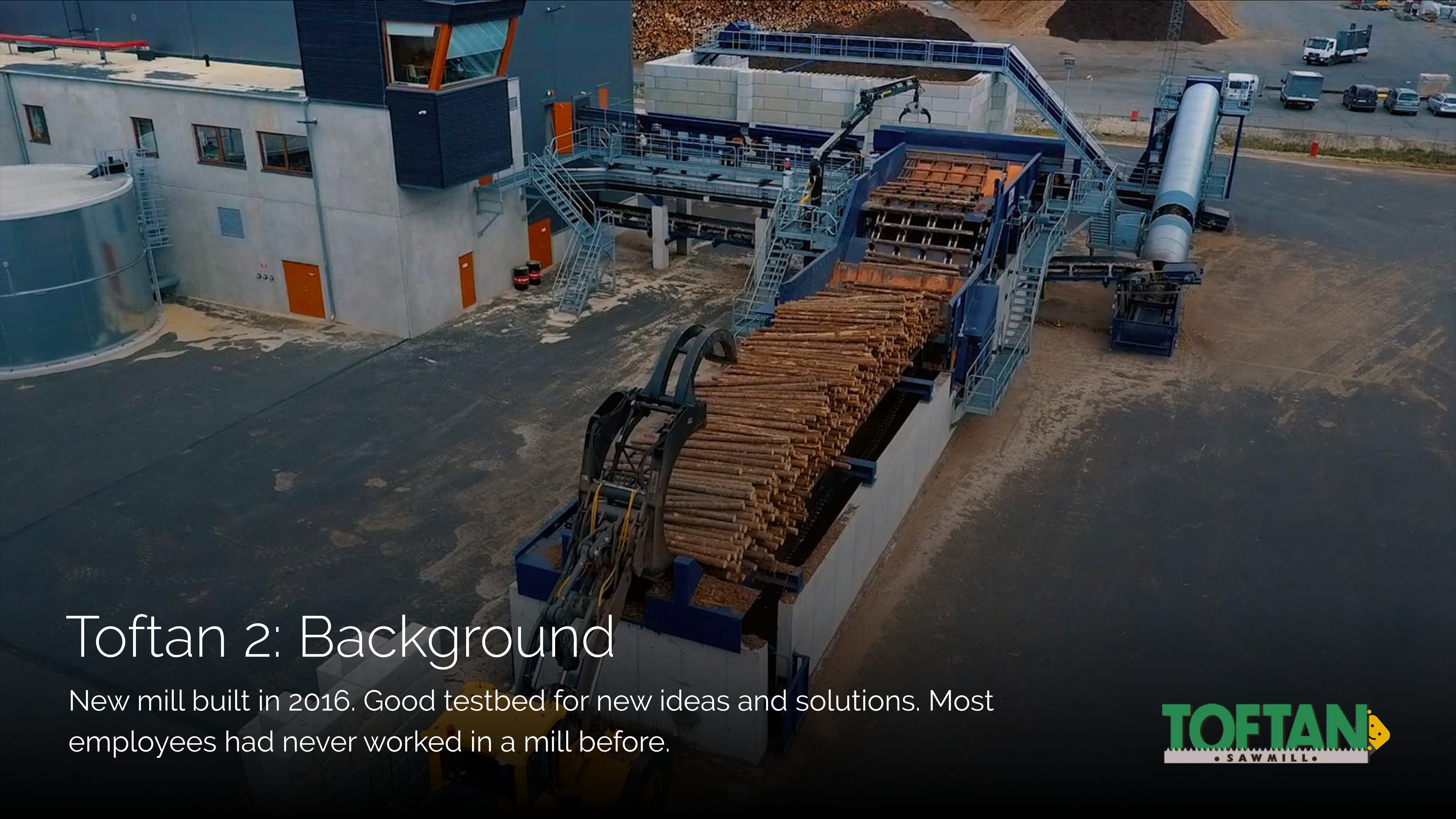




# Case Study: Digitalisation at Toftan

Peeter Põder, Mill Manager at Toftan





# Toftan 2: Background

New mill built in 2016. Good testbed for new ideas and solutions. Most employees had never worked in a mill before.



# Why digitalisation?

Essential component of OEE and CMMS.

To improve the efficiency of processes due to complex products and batches.





# What solutions were chosen?

Evocon: Real-time monitoring of production (OEE)

Alldevice: Maintenance Management Software





# Evocon – Implementation

Evocon was implemented in 2017 to track and visualise the production process.



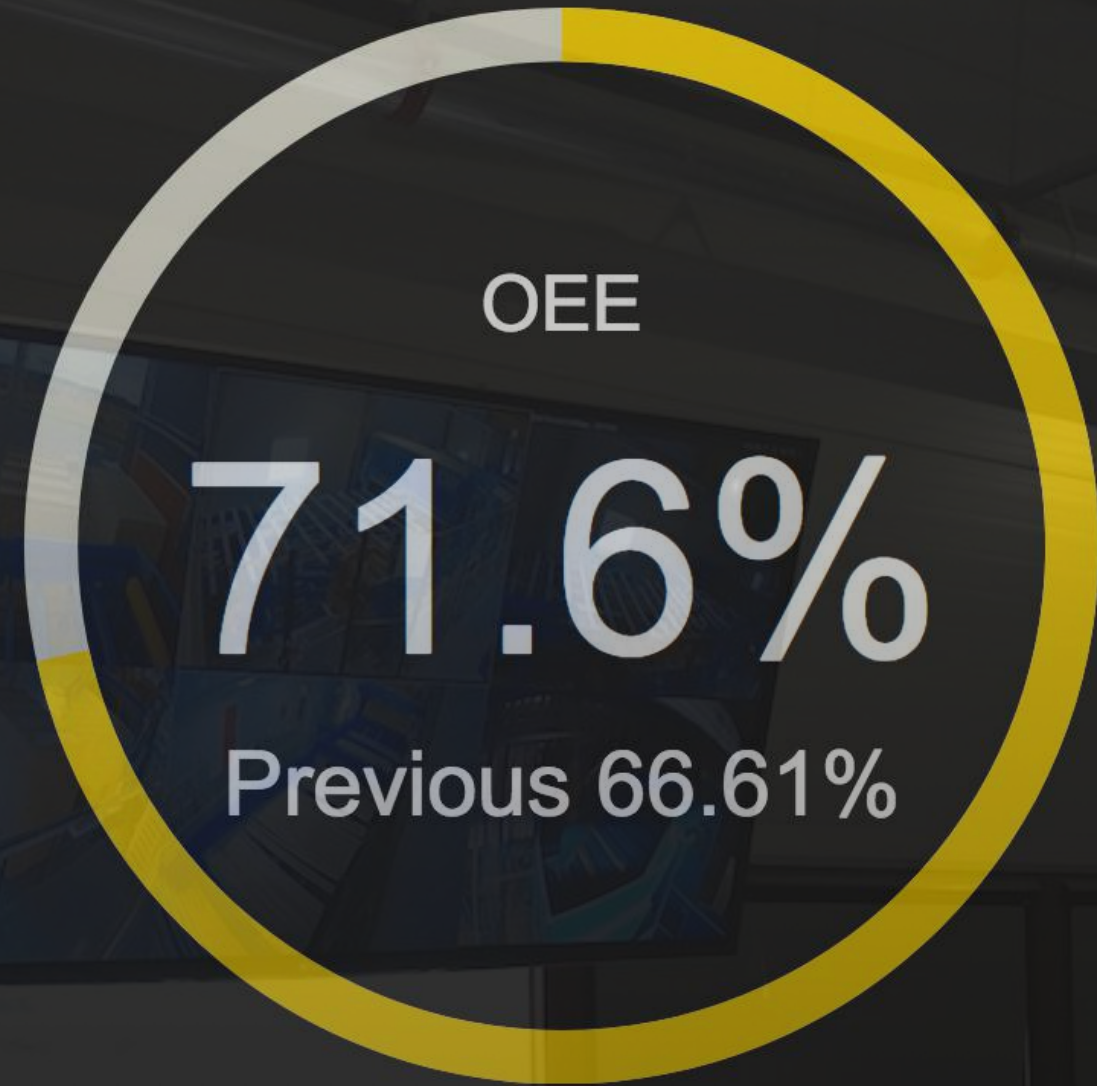
# Evocon – Bonus system & OEE

OEE metric and bonus system for employees introduced in April, 2017.



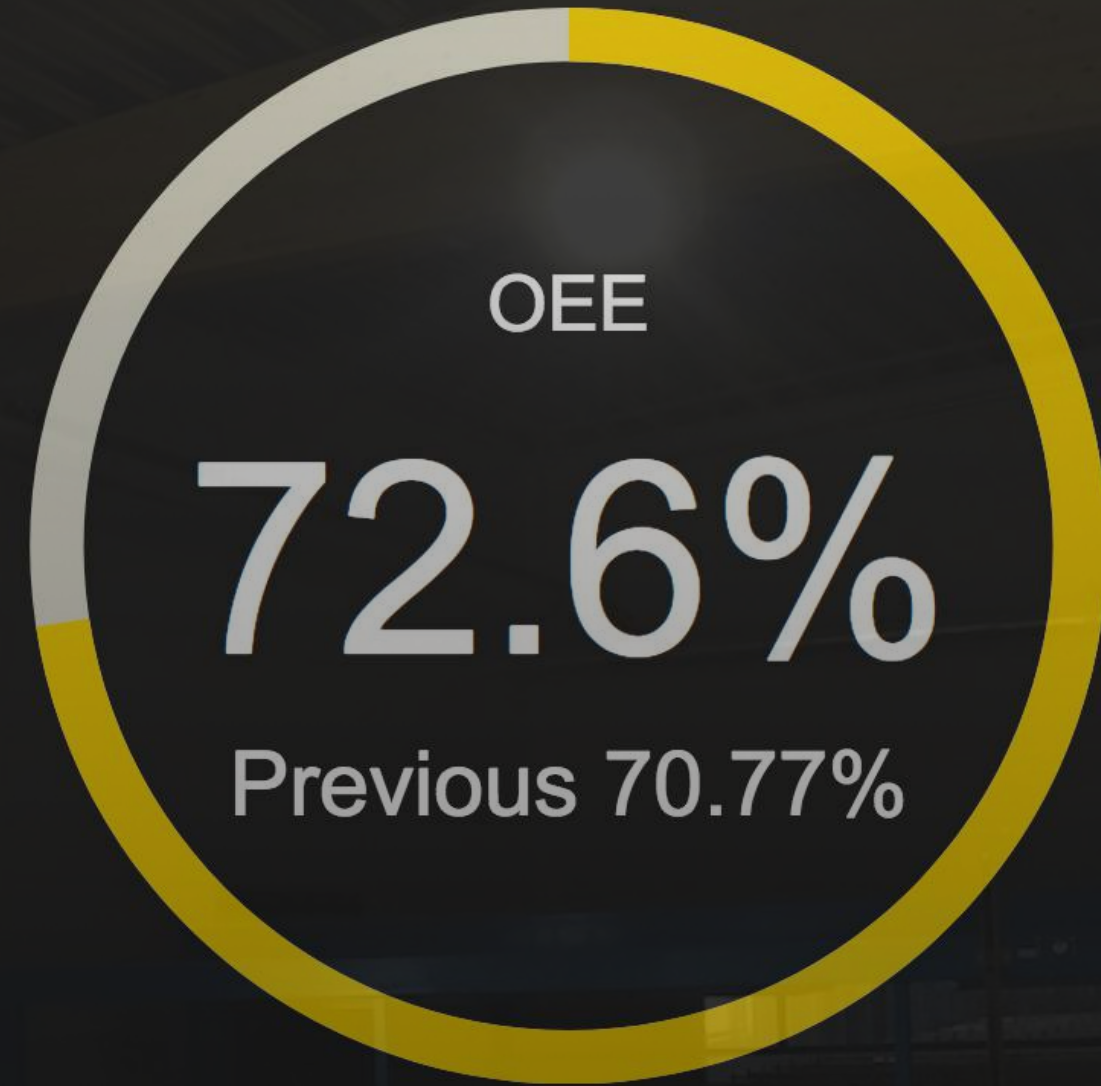
HEWSAW OEE OVERVIEW THIS MONTH

EDIT X



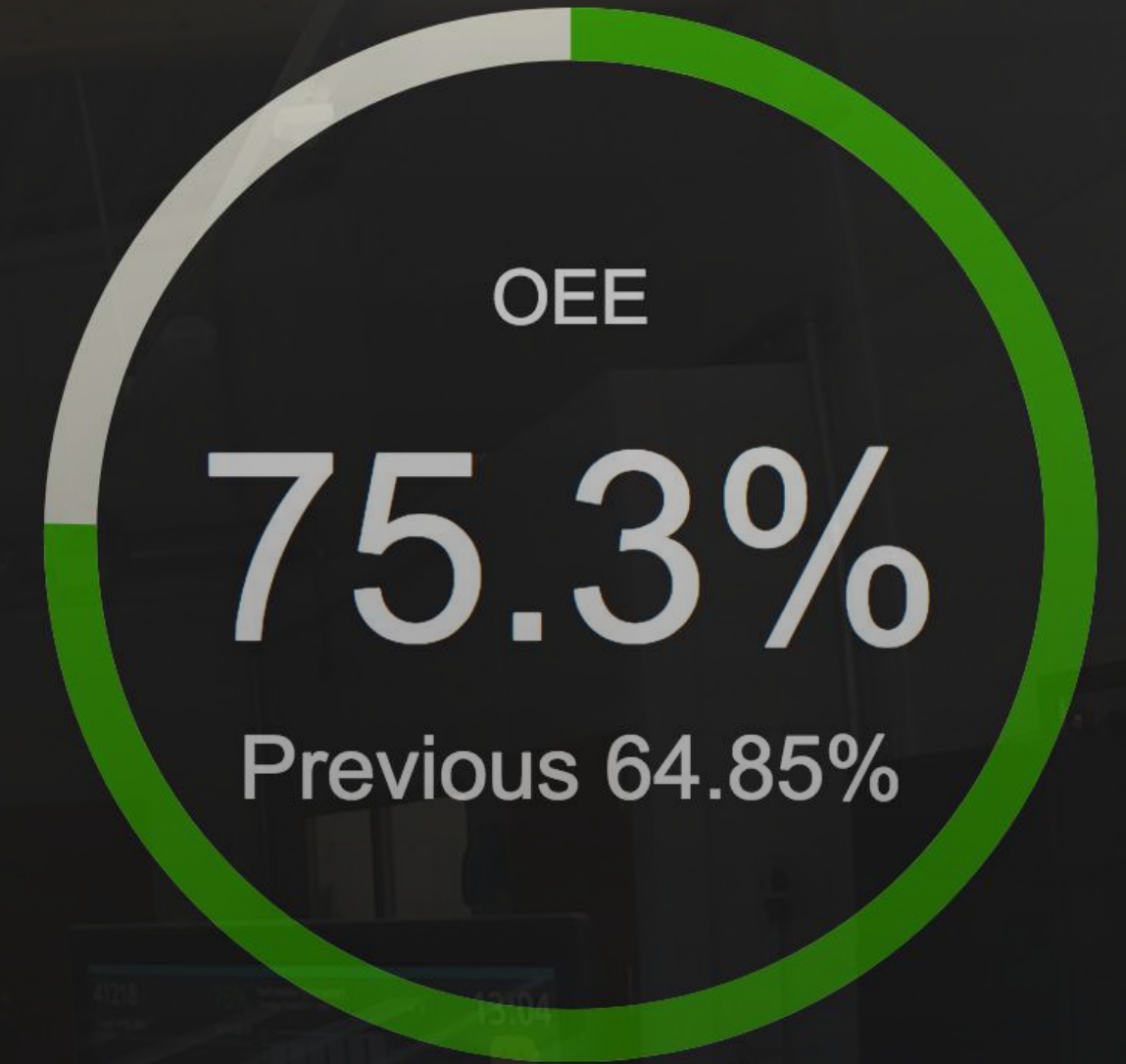
LOGSORTER OEE OVERVIEW THIS MO...

EDIT X



DRY SORTER OEE OVERVIEW THIS MO...

EDIT X



DOWNTIME SUMMARY THIS MONTH

EDIT X

LOG STUCK IN SAW	04:20:46
BROKEN LOG	02:31:58
SAW PATTERN CHANGE (CLUSTER CHANGE)	01:48:24
SCRAPER CONVEYOR TO BINS (2122KN06)	01:45:44
INFEED WHEELS (2222ER01)	01:32:43
JAM ON SB LANDING	00:41:31
LOG SMALL/BIG	00:34:02
PRODUCTION MEETING 10 MIN	00:32:27
DEBARKER JAM (2122KO01)	00:30:47
JAM ON SB LANDING	00:27:02

DOWNTIME SUMMARY THIS MONTH

EDIT X

NEW BATCH	01:42:48
SORTING CONVEYOR 40 BINS JAM	01:09:51
SORTING BINS FULL	01:02:54
MEASUREMENT CHECK (SCANNER CALIBRATION)	01:02:21
NO LOGS ON LOGDECK	00:56:59
USING LOG CRANE	00:55:14
HOUSEKEEPING	00:17:33
DISPATCH NOTE MANAGMENT	00:17:23
PALGIKRAANA KASUTAMINE (OKSAD, MUU JAMA LIINIL)	00:17:10
CONSULTING	00:14:18

DOWNTIME SUMMARY THIS MONTH

EDIT X

BINS FULL (FULL FACK)	06:00:46
JAM AFTER TRIMMER (BOARD SKEWED)	01:50:47
BACH / DIMENSION CHANGE	01:49:35
MATERIAL SKEWED	01:37:58
BREAK	01:00:56
JAM ON TILTHOIST	00:42:05
DRUM CHIPPER NOT FUNCTIONAL	00:37:14
UNCOMMENTED	00:28:14
WASTE BELT JAM	00:17:23
CHAIN CONVEYOR TO BINS (2122KN06)	00:10:54

# Evocon – Results

What have been the results of using Evocon?



# 2017: OEE change after bonus system





17339 TK

72%

HewSaw T2  
Friday 10.05.2019 - PÄEV



11:22

Ø - 120mm SUVI\_ 50 TK/min

12954 / 12960

Ø - 150mm SUVI\_ 50 TK/min

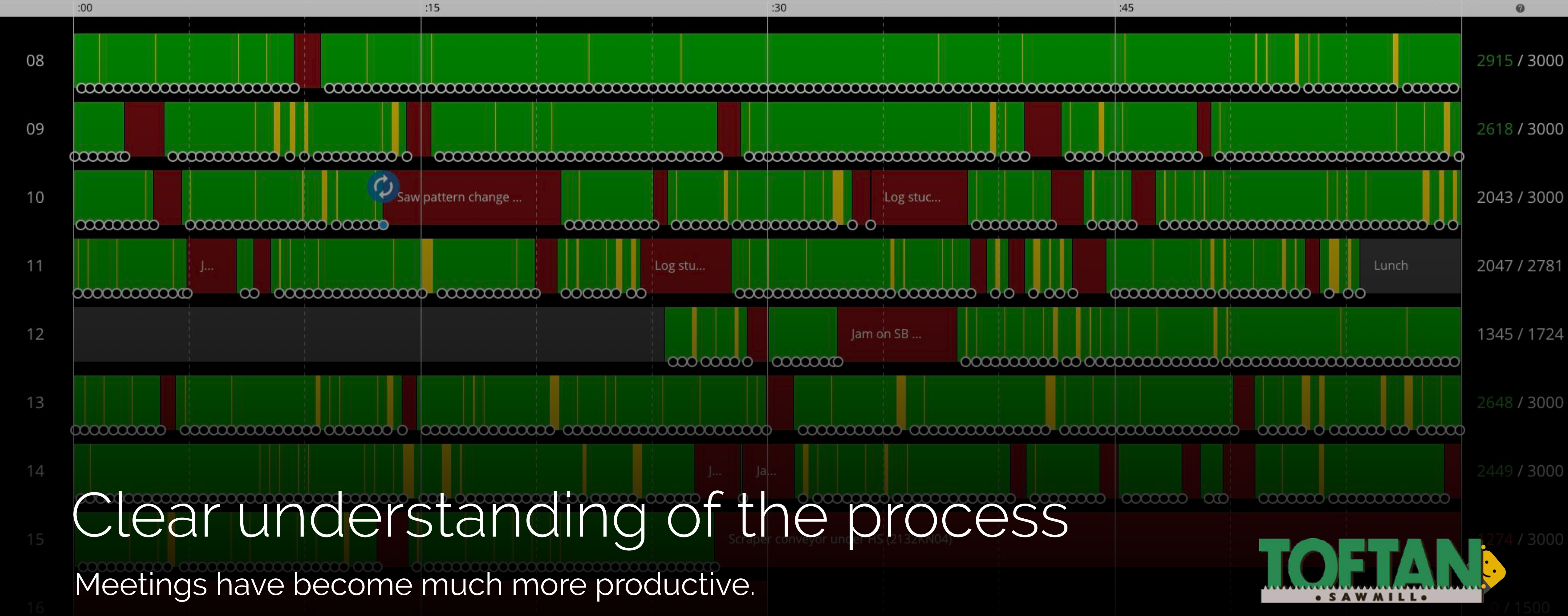
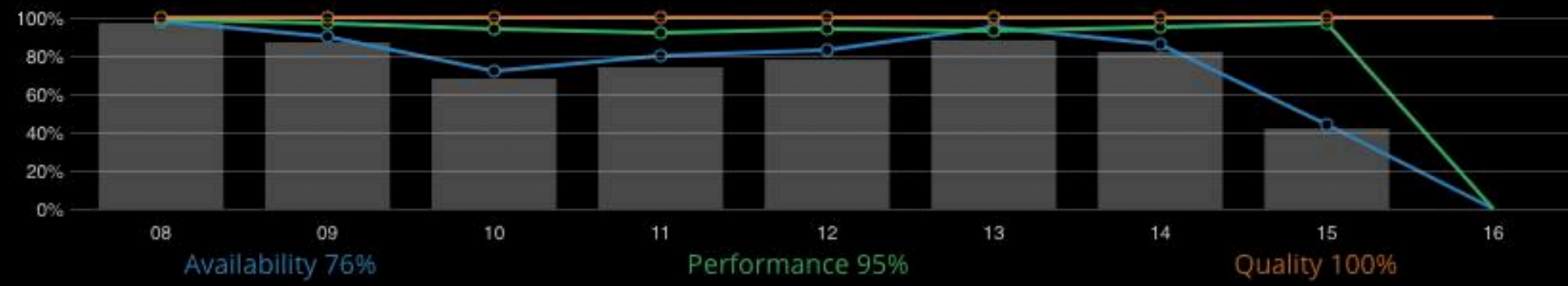
9086

Ø - 110mm SUVI\_ 50 TK/min

13236

Ø - 160mm SUVI\_ 48 TK/min

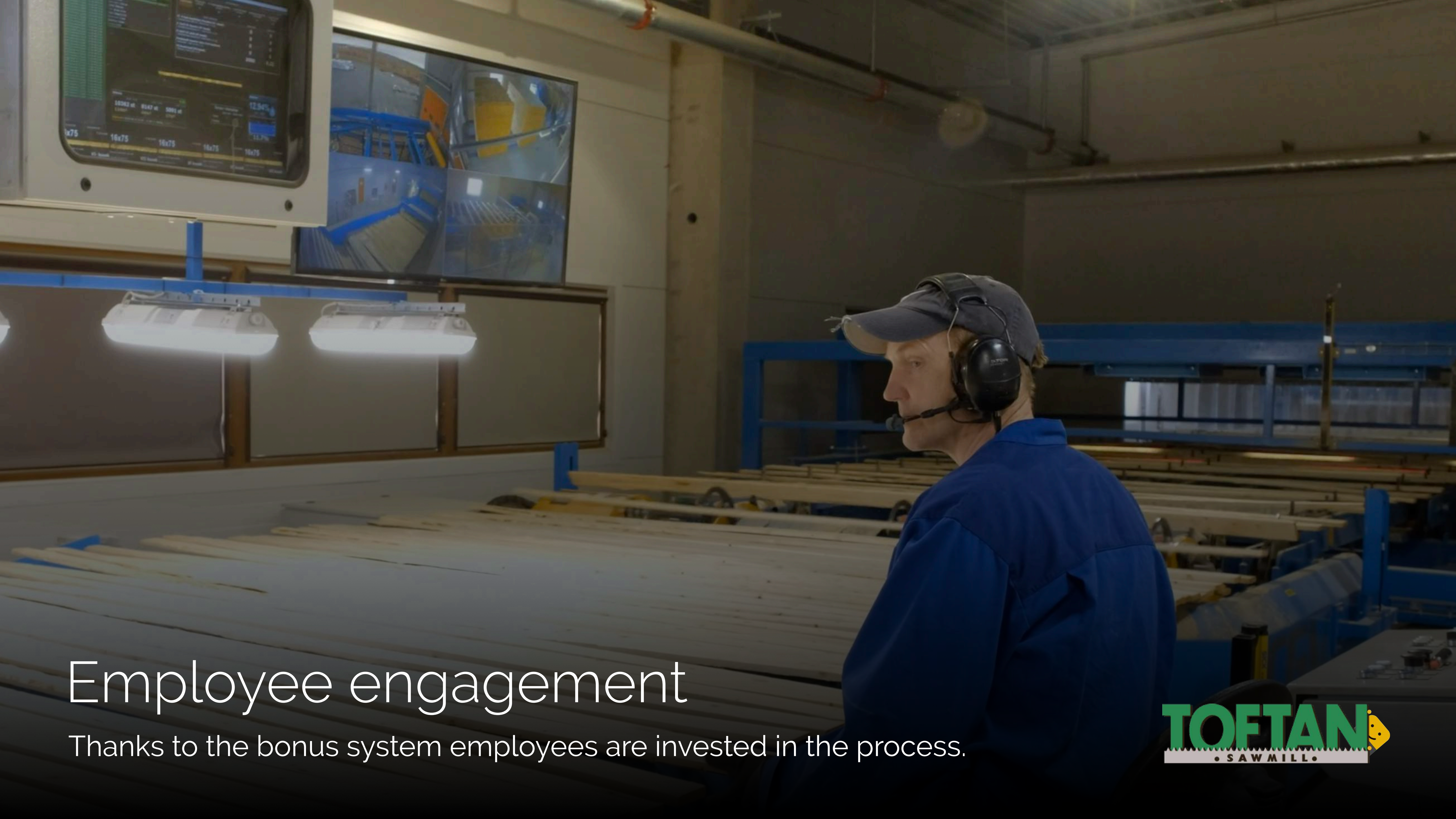
7335



Clear understanding of the process

Meetings have become much more productive.

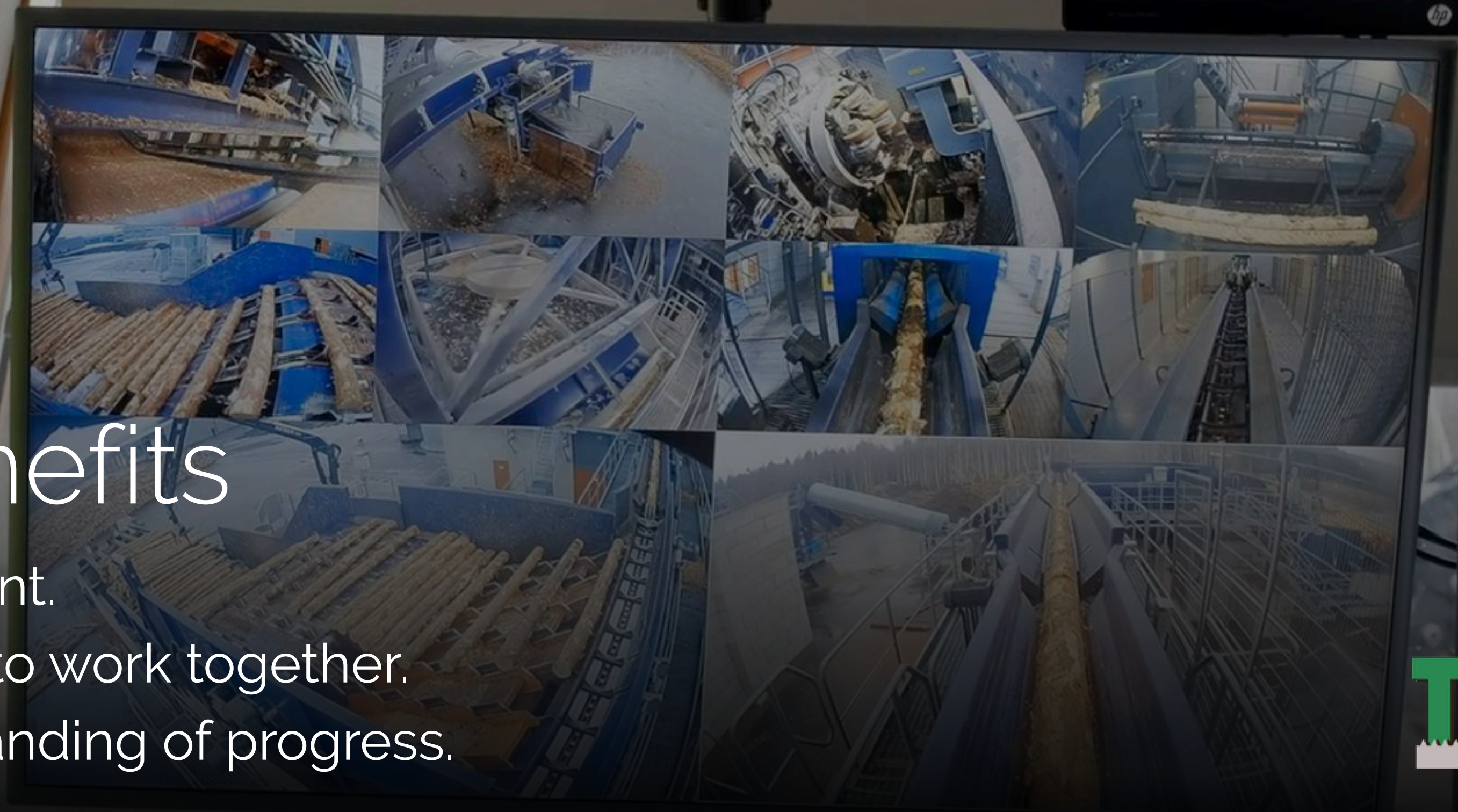
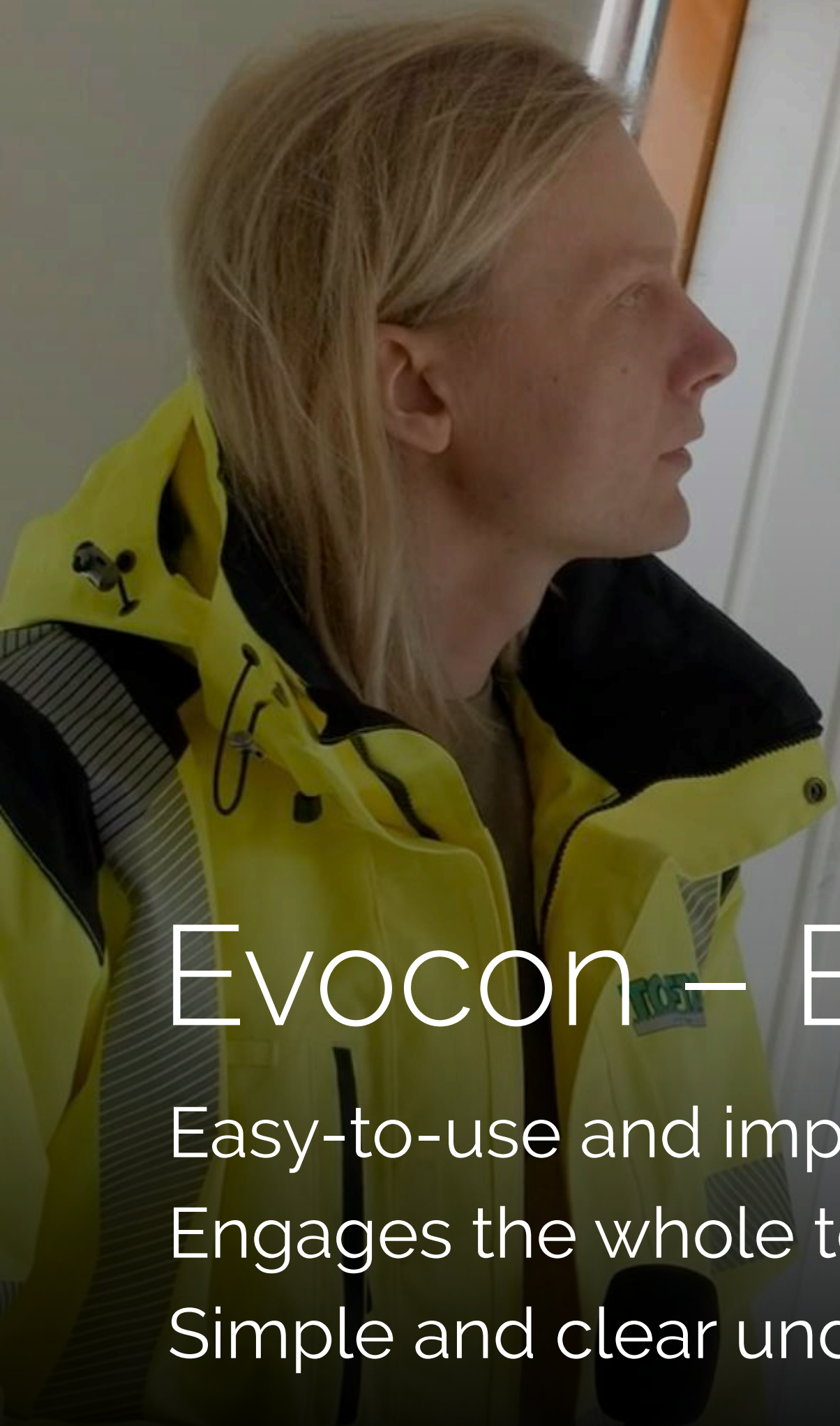




# Employee engagement

Thanks to the bonus system employees are invested in the process.





# Evocon – Benefits

- Easy-to-use and implement.
- Engages the whole team to work together.
- Simple and clear understanding of progress.





Visualisation matters, it's in our DNA

Everyone can understand clear visuals and colours.





# Alldevice – Implementation

Alldevice was implemented in 2017 to organise the maintenance of machines.





# Alldevice – Results

Clear overview of the problems of each machine and history of issues.



# Alldevic – Benefits

Root cause analysis of issues helps understand what to improve to increase OEE.



What next?

Integration of Evocon & Alldevice

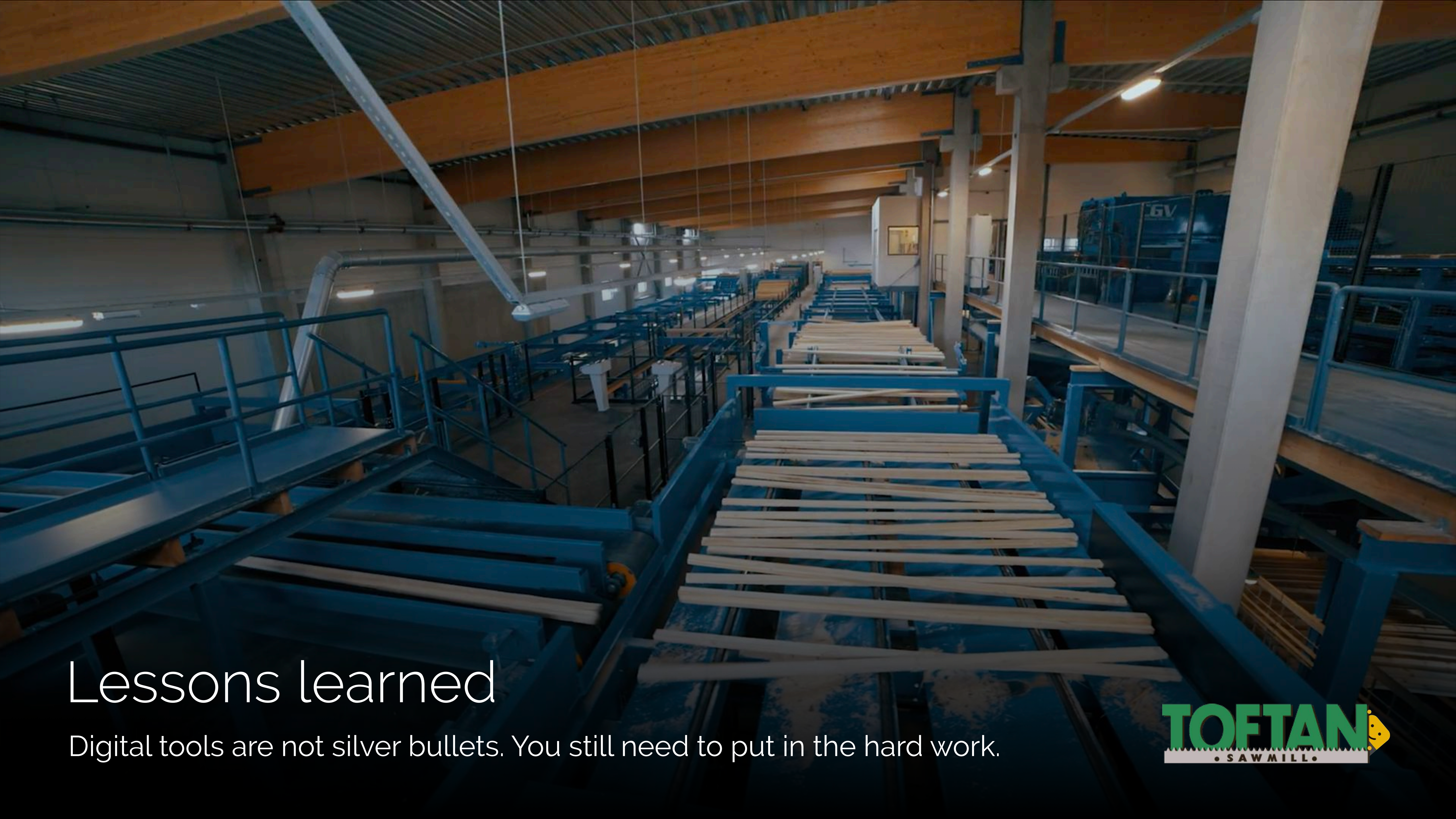




# Goals of integration

Improve decision-making from combination of data.

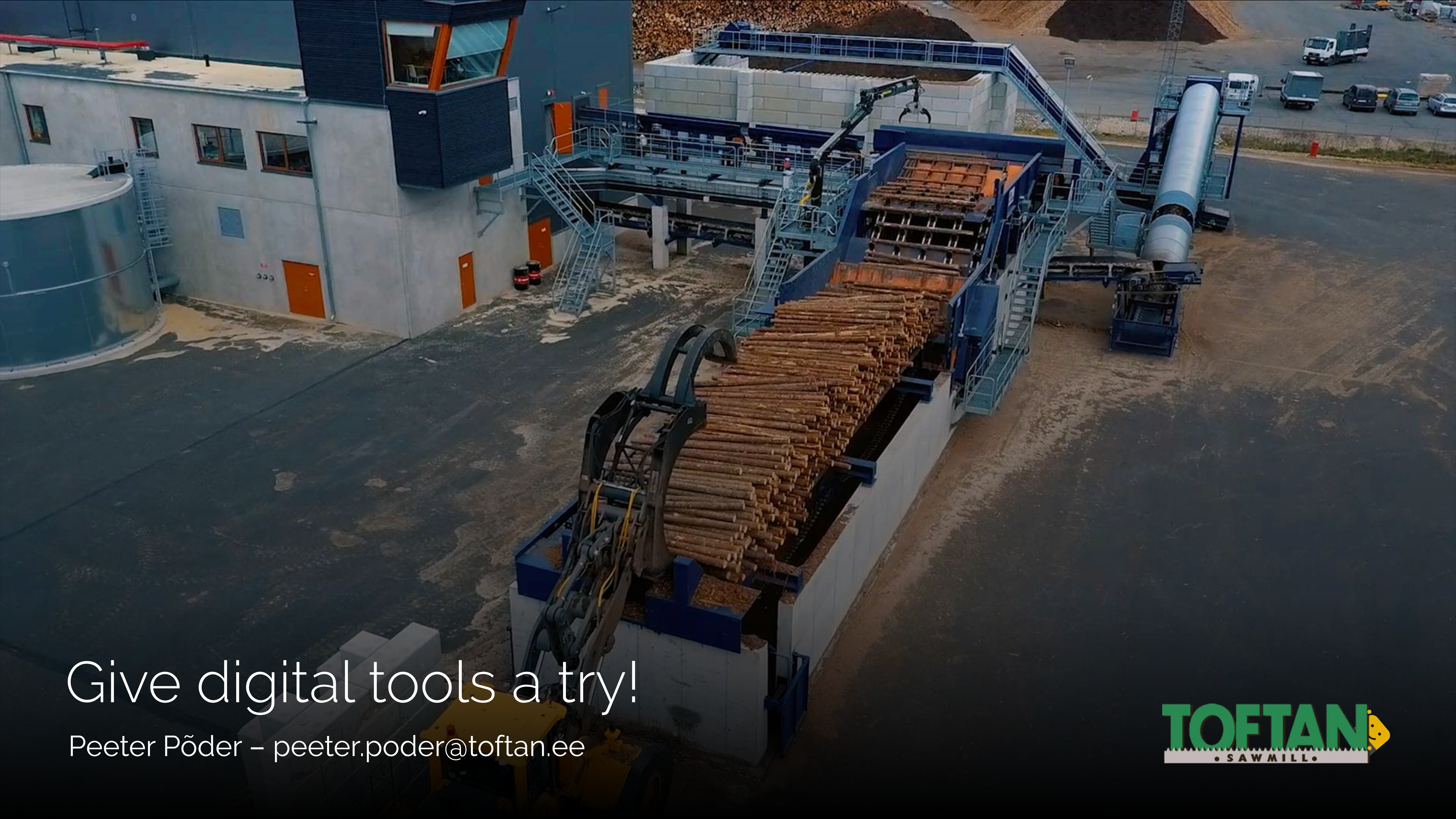
Maintenance plan based on actual data collected (pcs, meters, min, h etc.).



# Lessons learned

Digital tools are not silver bullets. You still need to put in the hard work.





Give digital tools a try!

Peeter Põder – [peeter.poder@toftan.ee](mailto:peeter.poder@toftan.ee)

