SWEDISH MAXIMO USER GROUP

VISUALIZE MAXIMO DATA BY USE OF COGNOS ANALYTICS

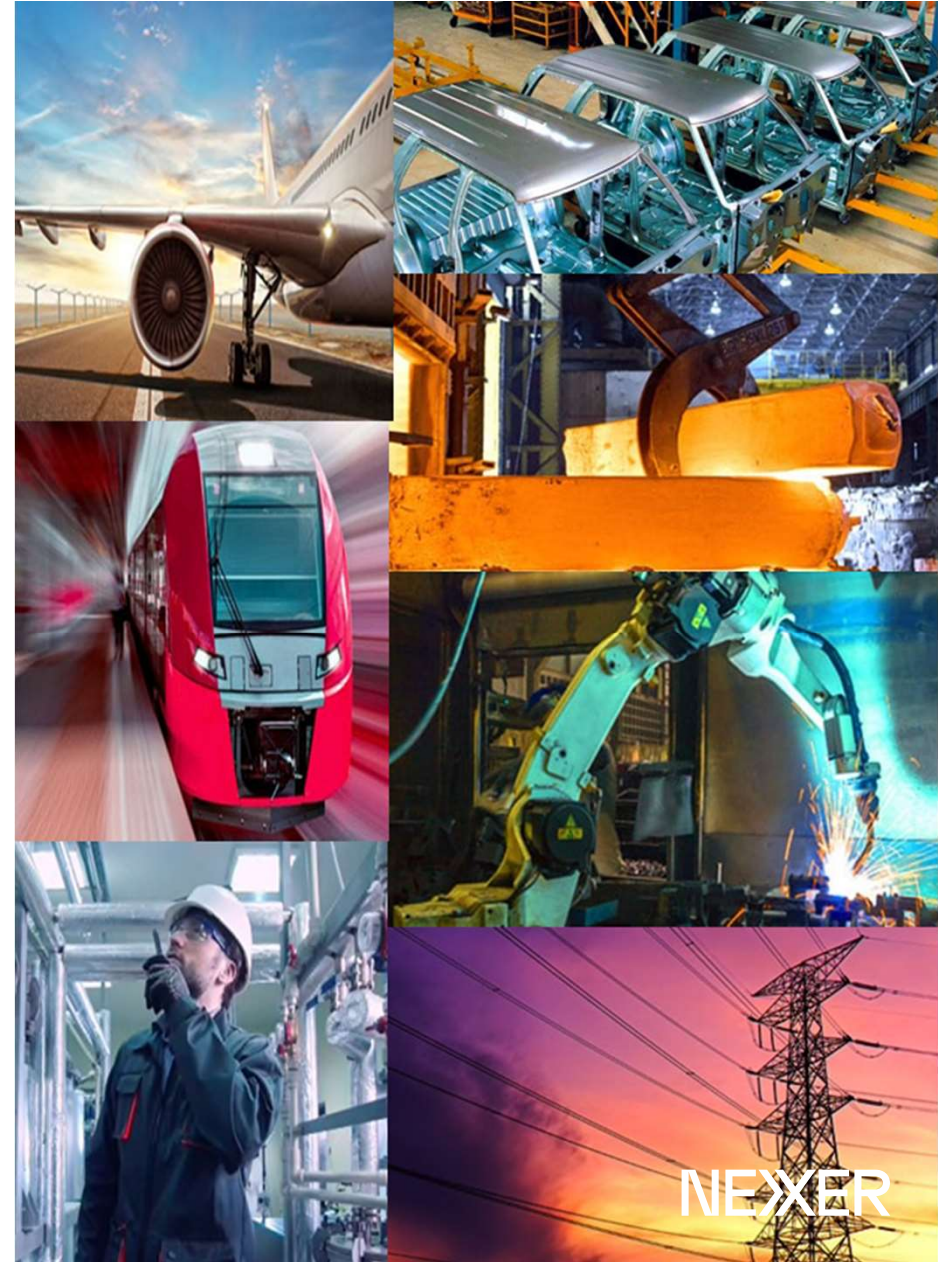JOHAN ASPLUND, BUSINESS UNIT MANAGER, SWEDEN

JUHANI MUSTONEN, COMPETENCE UNIT MANAGER, FINLAND

NEXER ASSET MANAGEMENT

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AGENDA

1. Introduction Nexer & Nexer Asset Management

2. New Development & data migration project

3. EAM Analytics and AM info-TV

4. Wrap up n' questions

TECH COMPANY OF THE FUTURE

sigma IT → **NEXER**

- Digitalization partner; strategy, technology & communication
- 1 900 employees, 2 billion sek in revenue, 10 countries
- Part of Danir Group; Nexer, Sigma, A Society and Poolia

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NEXER ASSET MANAGEMENT

ENTERPRISE ASSET MANAGEMENT

ASSET LIFECYCLE MANAGEMENT

PREDICTIVE MAINTENANCE

60 SPECIALISTS
Sweden
Finland
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ASSET CARE
Projects and application management services

PARTNER ECOSYSTEM
To maximize customer value

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NEW DEVELOPMENT & DATA MIGRATION PROJECT

Johan Asplund

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# NEW DEVELOPMENT & DATA MIGRATION PROJECT

Customer Objectives

Shift from sourced maintenance services to inhouse execution (including take over of maintenance personel)

Implement it-solutions to support maintenance work

Limit amount of business change work, it-solutions and processes as before

Meet a strict dead line for exit into the new solution (failure not an option!)

Project challanges
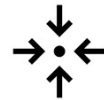
Existing solutions cannot be technically copied due to intellectual property

Complex target solution including new development, integrations and dash boards

Aggressive time line! 3 months to deliver supporting AM solution including migration of historic and active data
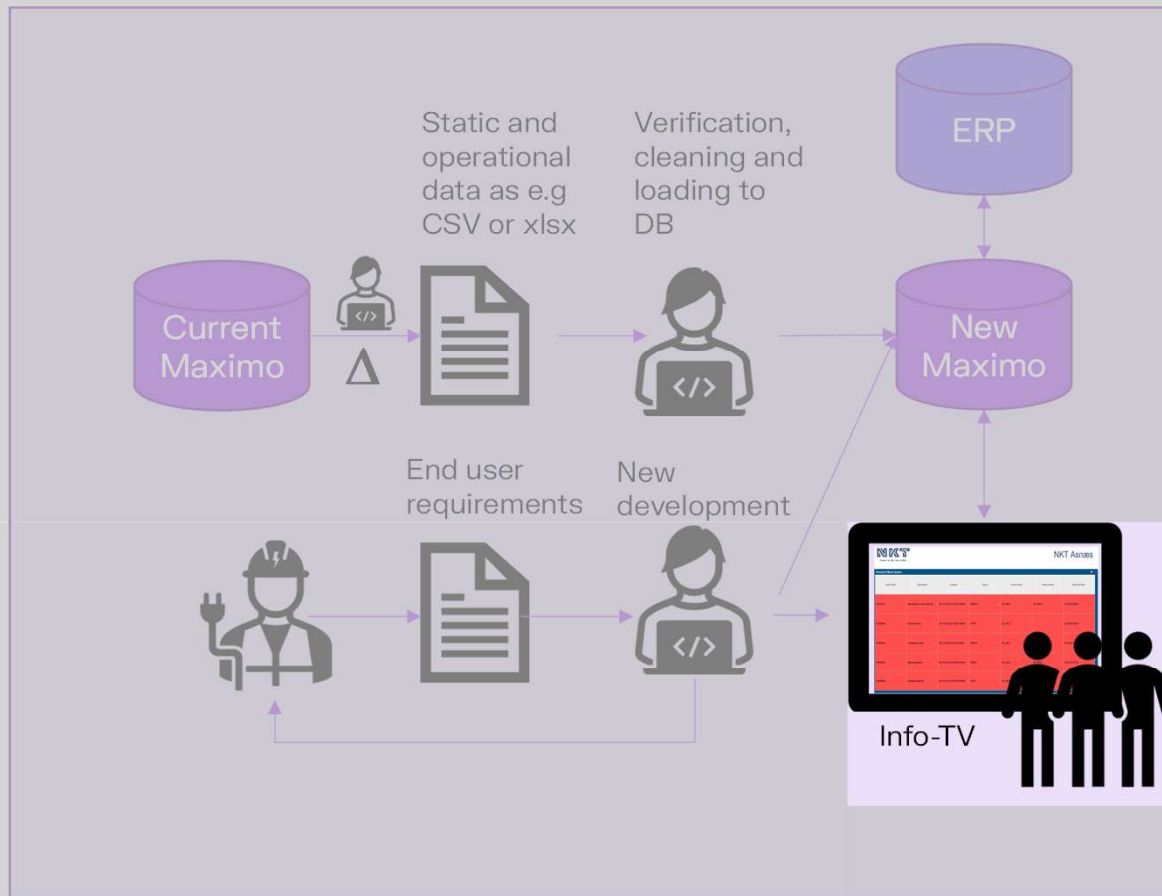
Success enablers

Global delivery team cross three countries

Deep and diversified expertise in areas like Maximo, data migration, integration and Cognos

Motivated and engaged customer (and sourcing partner)

Common and clear objectives and priorities

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NEW DEVELOPMENT & DATA MIGRATION PROJECT

INFO TV – PLAN OF EXECUTION

- **Info-TV, cost and plan**

  - Implementation plan approx. 1 month

  - Requirement assessment done together with customer to act as basis for design

  - Setup cost: estimated 60hrs
    - Setting up the environment (servers and analytics platform)
    - Developing the product according with requirements as basis
    - Test and fine tune
    - Release to production

  - Plan and budget was meet

  - The info-board brings focus and common priorities to the factory floor
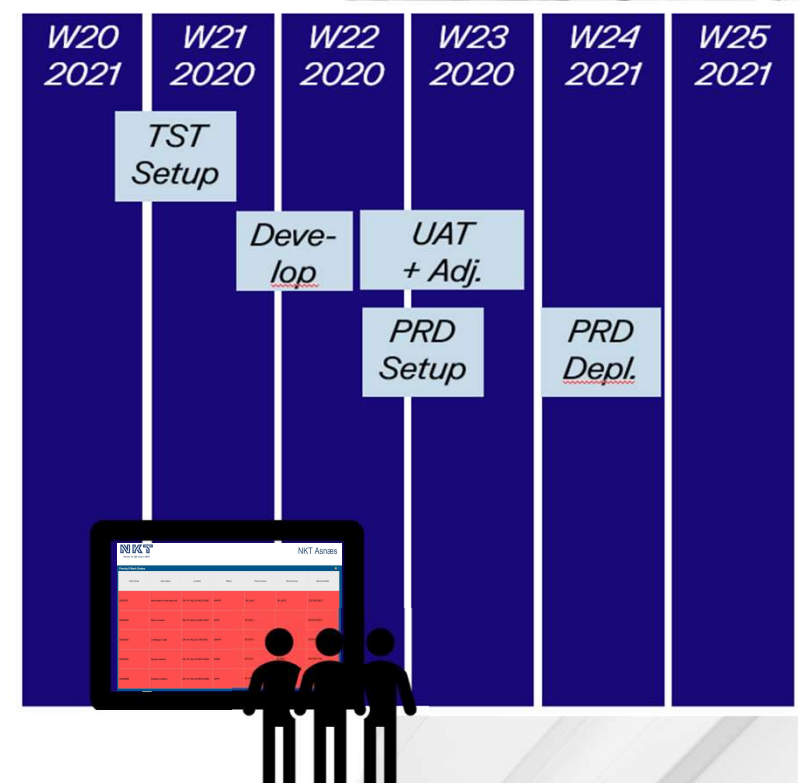
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EAM ANALYTICS AND INFO TV

Juhani Mustonen

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NEXER AS EAM REPORTING & ANALYTICS PARTNER

Overview of reporting and analytics landscape in EAM

- Various reporting solutions in use and available

- EAM analytics and reporting requires competence on Maximo data model and functionality

- Financial, sales or other parts of organization are often served before EAM and maintenance when it comes to analytics and reporting needs

Need for EAM Reporting and Analytics Partner

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REPORTING EXAMPLES

Cost per Location

Work Order Response Times

Inventory Value Change

Inventory Transactions

Failure Related Downtime

Vendor Evaluation

PM Realization Followup

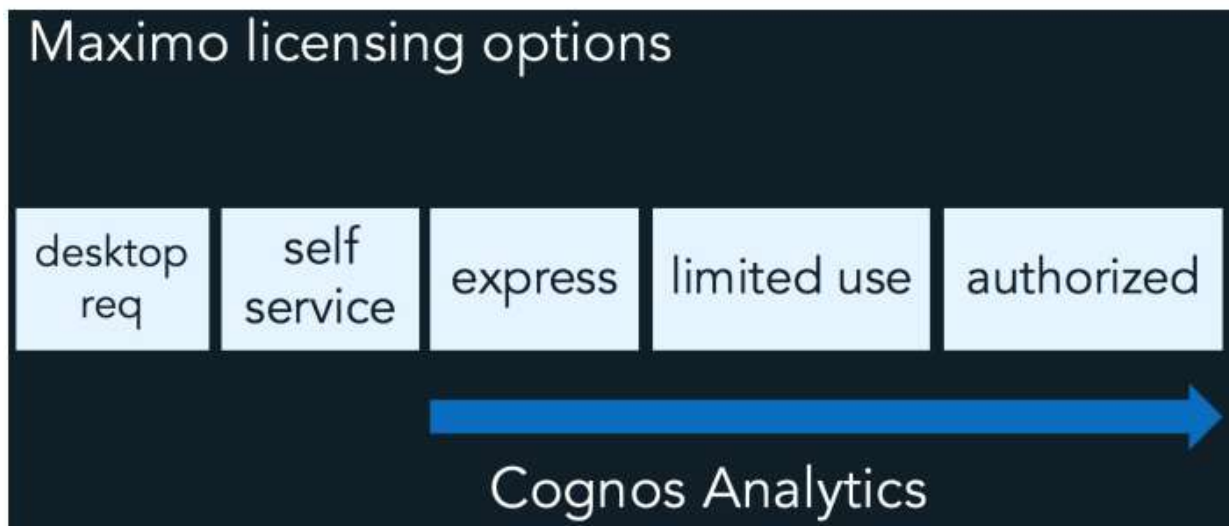Location Hierarchy Costs

Maintenance Status Report

New Locations, Assets, PMs, Routes and Items

PM % and PM Hit Rate

Availability KPIs - MWT, MRT, MTTR

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MAXIMO ASSET MANAGEMENT & COGNOS ANALYTICS

- Maximo 7.6.1 includes entitlement for Cognos Analytics 11.0 when data is reported from Maximo database

- Cognos Analytics is a world class reporting, dashboarding, data visualization and analytics tool

Maximo licensing options

| desktop req	self service	express	limited use	authorized

Cognos Analytics

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COGNOS ANALYTICS BENEFITS – PLATFORM

- Ready platform to handle various reporting needs
  - User and access management
  - Connections to different reporting sources
  - Versatile report creation and configuration tools
  - Adapt to changing reporting needs

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COGNOS ANALYTICS BENEFITS - REPORTS

- Simplicity in report management

  - Create and modify reports by drag'n'drop and configuration - No coding required

  - Enable customer key users to create own reports

- Platform to support customer's various Info Screen, BI, KPI and Dashboard reporting needs now and in the future

  - Enable EAM performance reporting and improvement

- Adjust the look and feel of reports to make sure reports are aligned with company brand

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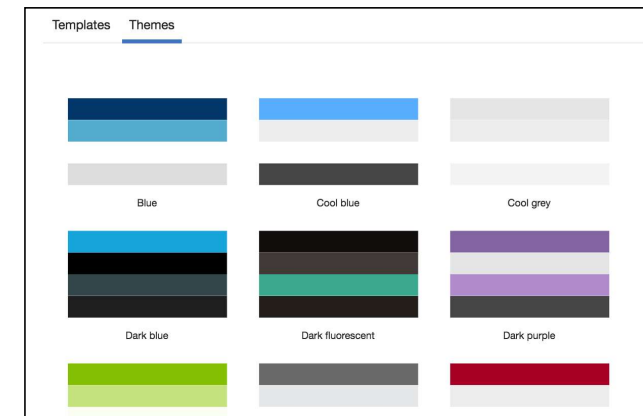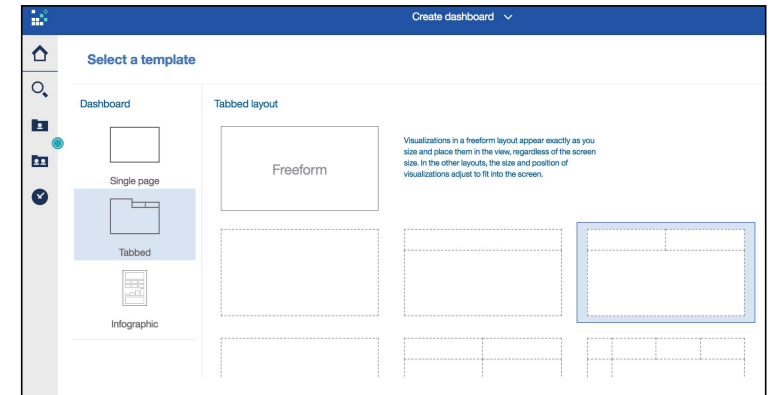
REPORTING POSSIBILITIES

- Reporting parameters
- Clear visualizations and data
- Advanced adjustment possibilities
- Drill-through to list reports and Maximo data
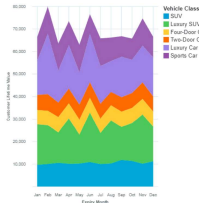
- Scroll through several Dashboards
- Applicable for Info TV
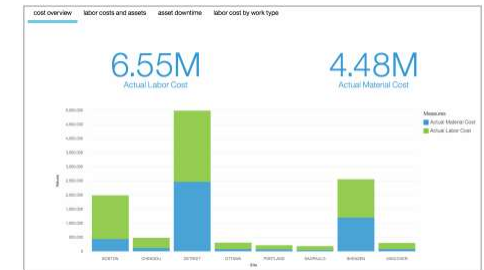
- Clear visualizations and data
- Data filters
- Interact with report content
- Business or power user can create own reports by dragging-and-dropping
- Applicable for Info TV

- Data is included in report
- Report can be saved and sent via eg. email

Reports	Dashboards
Stories	Active Reports

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INFO TV – NEEDS AND BACKGROUND

- Implemented for two customers

- Typically challenge has been that production does not have up-to-date information about maintenance operations

- "Work of maintenance department should be made visible for all and visualized"

- "Solution for daily maintenance work"

- Decrease amount of reporting / Increase real time follow-up

- No time or possibility to access EAM solution and view information

- Bring information to people where they work by using TV screens

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CURRENT WEEK WORK ORDERS
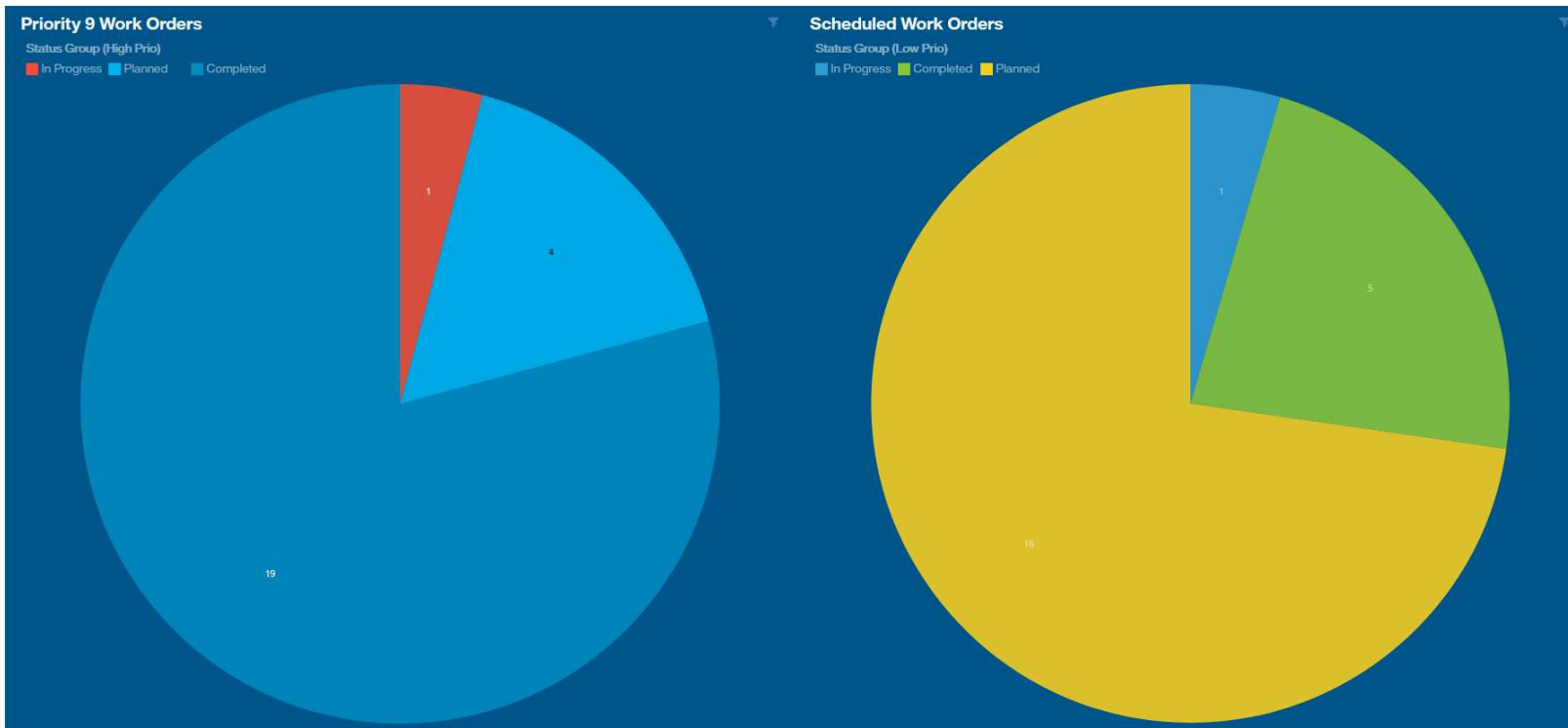
OPEN URGENT WORK ORDERS

NKT
Power to life since 1891

NKT Asnæs

Priority 9 Work Orders

| Work Order	Description	Location	Status	Owner Group	Person Group	Reported Date
DK397011	Akkumulator er ikke stærk nok	DK-1111-HALL05-INSU-35000	WAPPR	DK_HAL5	DK_INEL5	07.07.2021 09:27
DK397006	Skinner til robot.	DK-1111-HALL01-SCRE-25807	APPR	DK_HAL5	DK_INME2	07.07.2021 08:27
DK397004	Luftslange er utæt	DK-1111-HALL01-STRA-9570	WAPPR	DK_HAL5		07.07.2021 08:19
DK397002	Renset maskinen	DK-1111-HALL02-REWI-39452	INPRG	DK_HAL2	DK_INEL2	07.07.2021 07:19
DK396958	Papkasse maskine	DK-1111-HALL02-REWI-25980	APPR	DK_HAL2	DK_INME2	05.07.2021 07:07

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CURRENT WEEK PLANNED WORKS

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NKT Asnæs

| Scheduled Work Orders								
Work Order	Description	Location	Status	Owner Group	Person Group	Scheduled Start	Scheduled Finish
DK393879	ME - Vedligehold køletårn	DK-1111-HALL01-WACO-25606	APPR		DK_INME2	05.07.2021 12:00	09.07.2021 12:00
DK396018	ME - Vedligehold forvarmer	DK-1111-HALL01-INSU-32556	APPR	DK_HAL1		05.07.2021 12:22	09.07.2021 12:22
DK396502	Tragte til dosering	DK-1111-HALL01-TESF-13961	APPR		DK_TOOL	05.07.2021 07:15	(no value)
DK392669	ME - Tage Olieprøver - Extruder 2	DK-1111-HALL02-SHEA-25277	APPR			05.07.2021 08:47	09.07.2021 08:49
DK392673	ME - Tage Olieprøver - Extruder 1	DK-1111-HALL02-SHEA-25277				05.07.2021 11:52	09.07.2021 11:52
DK392723	ME - Tjek olieniveau	DK-1111-HALL02-REWI-34303	APPR			05.07.2021 11:54	09.07.2021 11:54
DK393204	ME - PM Vedligehold Granulatsiloer hal 2	DK-1111-HALL02-SILO	APPR			05.07.2021 11:55	09.07.2021 11:55
DK394005	ME - Vedligehold køletårn_Olieskift på gear	DK-1111-HALL02-WACO-25036	APPR			05.07.2021 12:00	09.07.2021 12:00
DK394534	Service 27144	DK-1111-HALL02-REWI-27144	APPR	DK_HAL2	DK_INME2	05.07.2021 12:46	09.07.2021 12:46
DK394565	ME - PM Vedligehold Køletårn 25036	DK-1111-HALL02-WACO-25036	APPR			05.07.2021 12:02	09.07.2021 12:02
DK395439	Udskiftnig af lejer i holder med ruller	DK-1111-HALL02-CABL-32420	APPR			05.07.2021 12:37	09.07.2021 12:37
DK395993	ME - PM Vedligehold 30583 Ringvikler lager	DK-1111-HALL02-REWI-30583	APPR			05.07.2021 12:21	09.07.2021 12:21
DK396131	ME - Vedligehold udspoler – Føringsveje tjekkes for slid	DK-1111-HALL02-DRCU-31412	APPR			05.07.2021 12:06	09.07.2021 12:06
DK396363	ME - Vedligehold kold kølerende - Vandafblæsere sandblæses / renses	DK-1111-HALL02-INSU-25102	APPR			05.07.2021 12:26	09.07.2021 12:26
DK396433	PM - Mekanisk Timebaseret Vedligehold 25102 Rosendahl	DK-1111-HALL02-INSU-25102				05.07.2021 12:29	09.07.2021 12:29
DK394606	Rep af stempel til conform	DK-1111-HALL05-CONF-35200	INPRG	DK_HAL5	DK_INME5	07.07.2021 07:00	23.07.2021 08:23
DK396967	vand på gulvet	DK-1111-HALL05-SHEA-35800	APPR	DK_HAL5		05.07.2021 09:00	(no value)

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DEMO
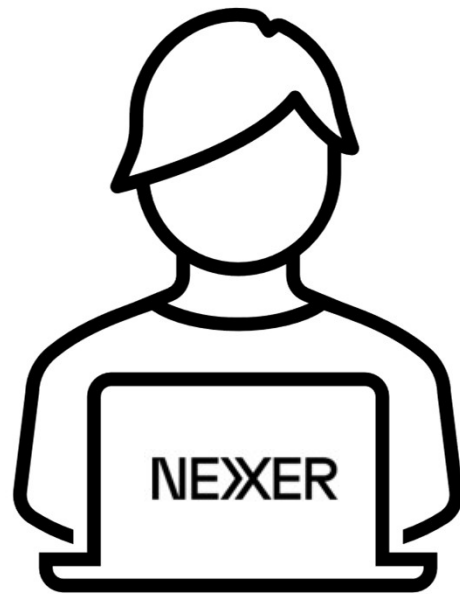
INFO TV - EXPERIENCES AND FEEDBACK

- "Flow of information to operator level has improved"

- "Avoid several failure notices for same problem"

- Shift maintenance staff do not need to watch mobile device all the time

- "Less is more" - A lot data may be confusing and difficult to read

- Everyone sees same overall status and failure situation -> Focus on bottle necks
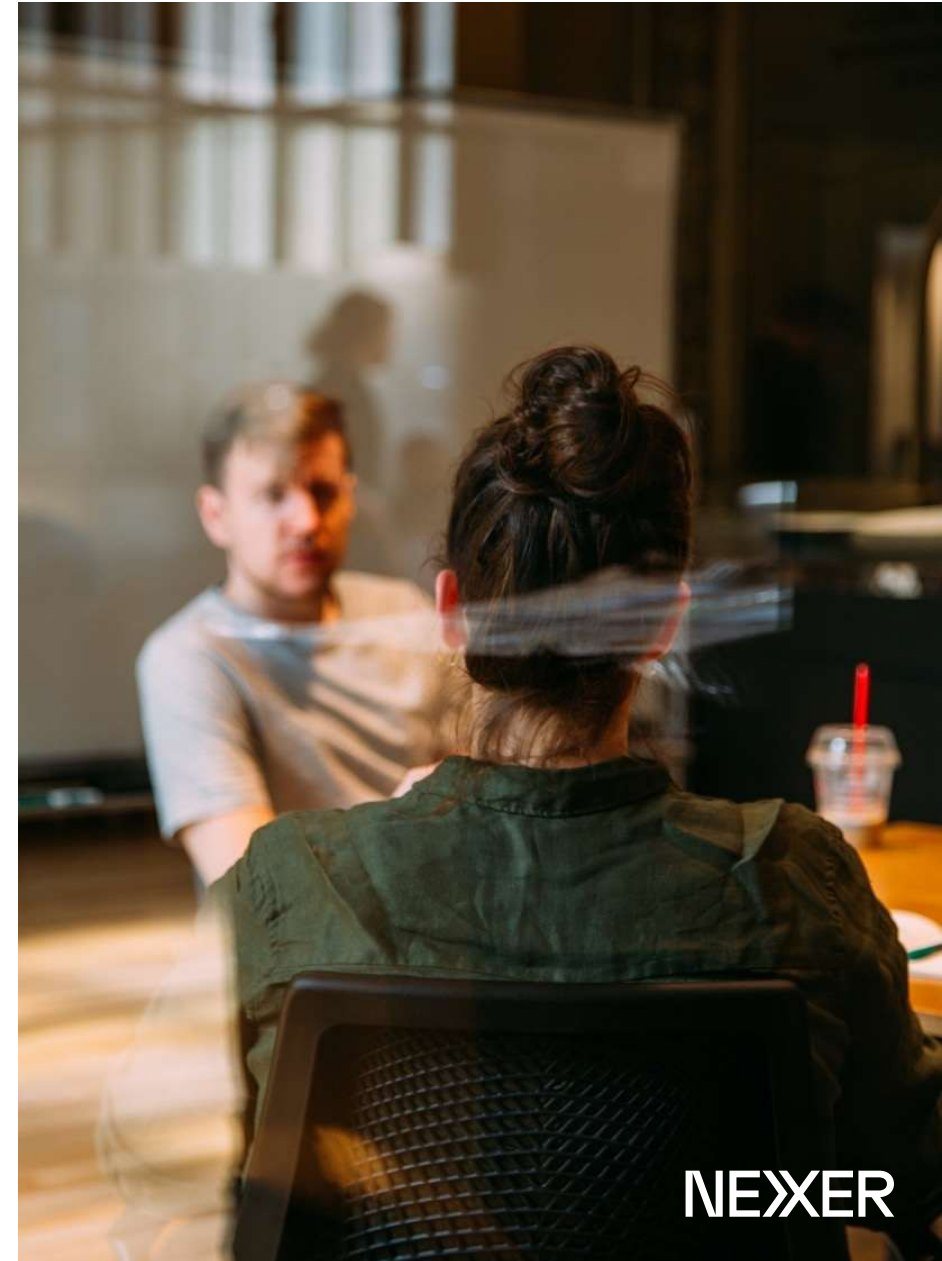
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NEXER AS EAM REPORTING & ANALYTICS PARTNER

- Reporting and analytics planning and need identification

- Reporting specification

- Reporting implementation with the tools and solution best applicable to the situation

- Report testing and deployment

- Reporting and analytics training

- Do-it-yourself reporting enablement

PROMISING FUTURE

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THANK YOU

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