

Power BI solution catalog

FACTBIRD

Data analysis and visualization expertise provided by **emendo**
DIGITAL

Best-practice cases

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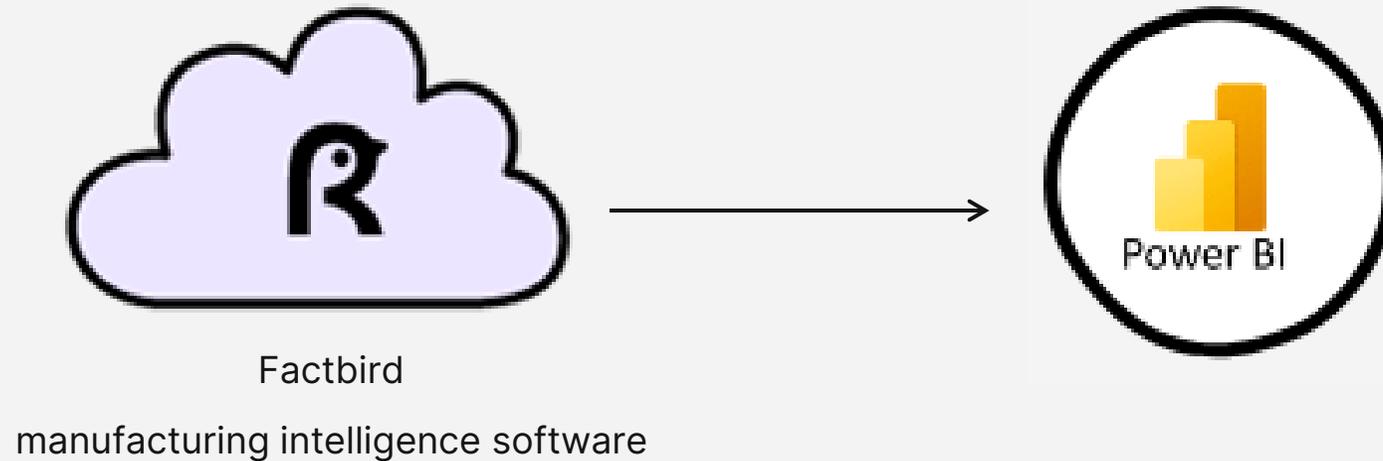
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What is Factbird Power BI solution?

The Factbird offers capabilities that enable seamless integration with a wide array of BI solutions, such as Power BI, Tableau, and more.

Factbird Power BI solutions offer a range of customized reports and real-time dashboards tailored precisely to customers' needs and preferences..



Why are customers using Factbird Power BI solution?

Why customers are using:

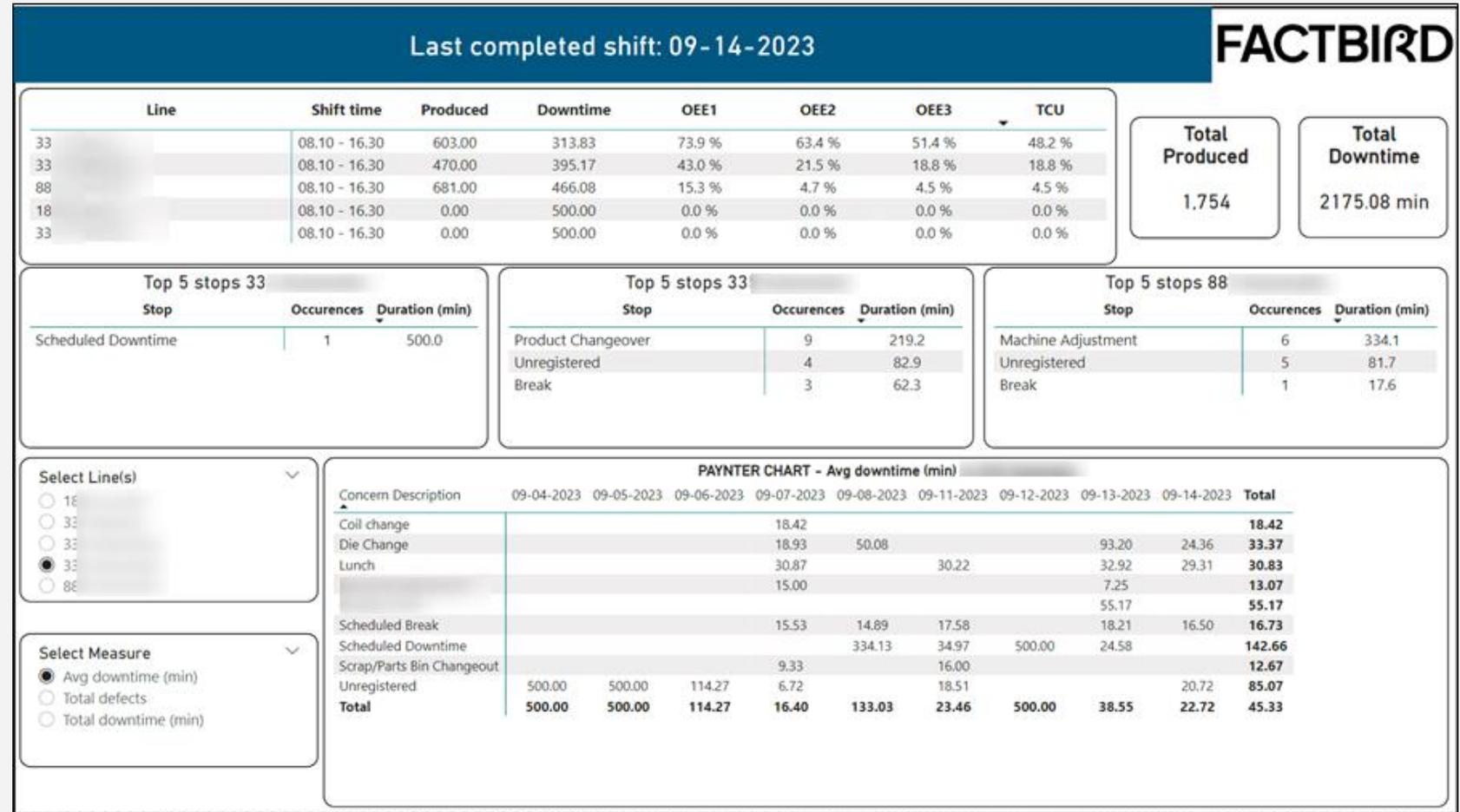
- **Automate** the creation of both existing and new production reports, including shift reports, weekly reports, and site reports. This **replaces** the tedious process of **paper-based reporting** or **manual spreadsheet reporting**.
- Schedule the reports for **automatic email distribution**, ensuring they receive the reports no matter where they are.
- Design **customized** dashboards with real-time data to display **exactly what they need** on **flat screens**.
- Develop interactive reports for in-depth analysis of production performance **tailored to specific requirements** for performance calculation and visualization.

Report Samples

Shift report

This report shows data from the most recent completed shift for multiple production lines, which is presented as an overview in the top section of the report.

In the bottom section, users can toggle between different production lines and select various downtime measures: average downtime, total downtime, total defects. They can view these measures across the different stop causes.



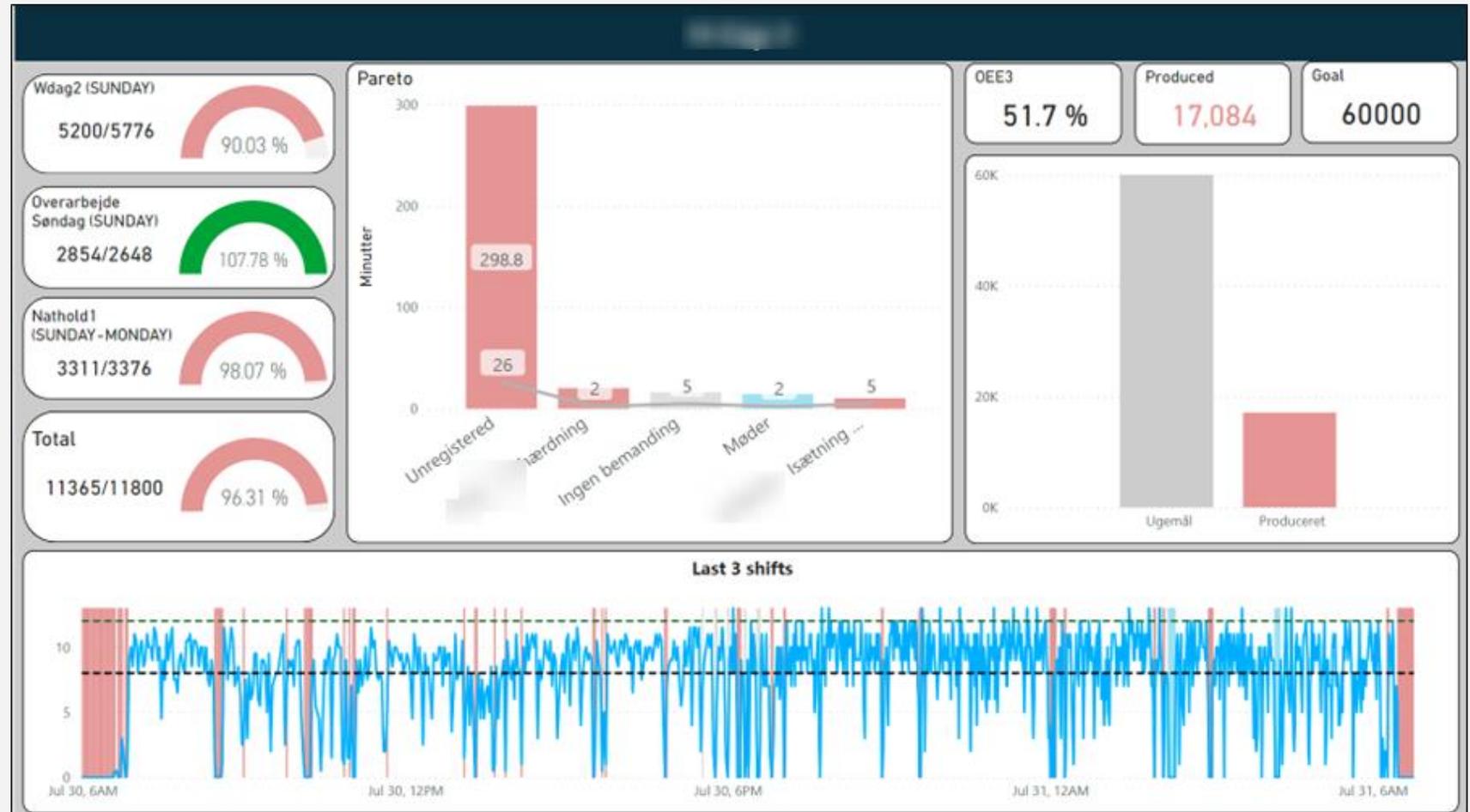
Shift report

This report displays the data for the last three shifts conducted on a production line. The shifts, along with their targeted output, are presented in the upper left-hand corner, along with a total for the three shifts.

In the middle, a Pareto chart is provided, showcasing all the stops.

On the right-hand side, weekly production goals are introduced, along with the cumulative output for the current week.

Finally, a live chart (similar to the Factbird's Dashboard) shows the output data for the three shifts.

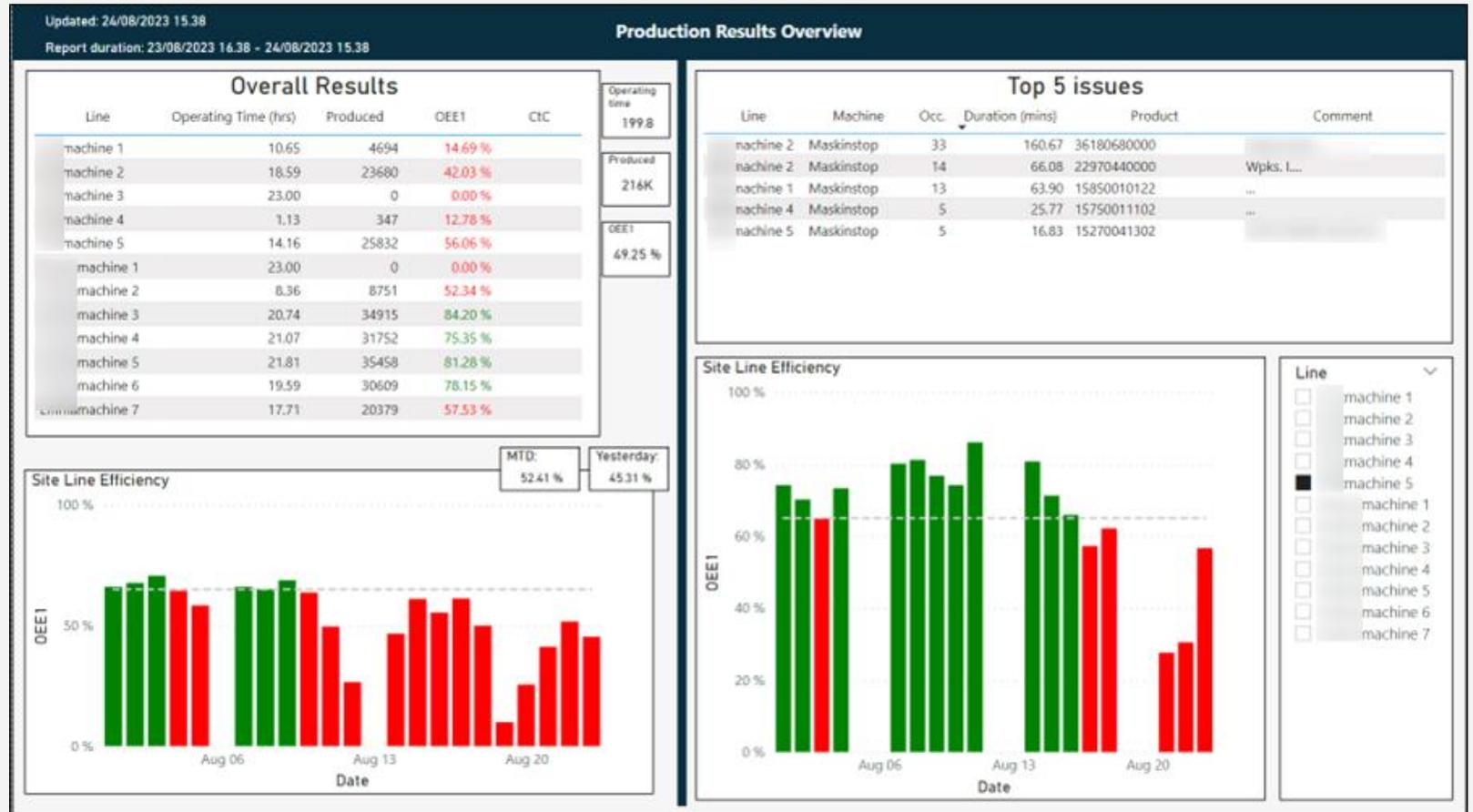


Daily report

This report displays daily production report showing the production results for multiple production lines against a target value.

The total OEE trend is shown on a month-to-date basis, allowing for a quick glance at the production in the current month.

The top 5 issues are displayed across all production lines, and the OEE trend is available for the selected production line.



Daily report

This report displays a daily report with the left side highlighting daily production within a 24-hour window across multiple production lines.

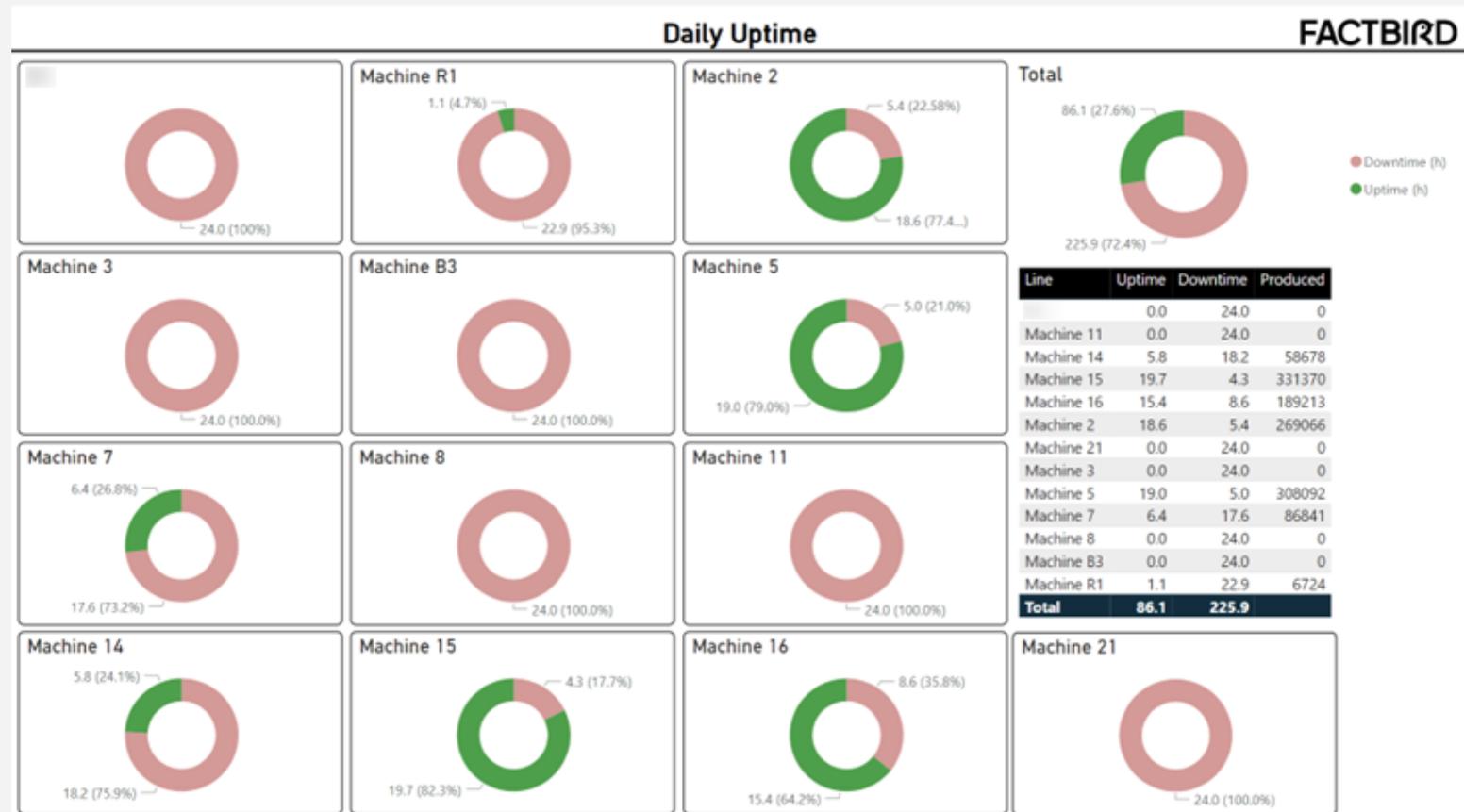
The right-hand side shows similar values but accumulates them over the week, providing insights into the week's overall production progress.

The report also includes the top 10 stops across all production lines.

Updated 18/09/2023 10:34		Report (30/03/2023 08.00 - 31/03/2023 08.00)				FACTBIRD							
Daily		Total Produced 278726	Site Overall OEE2 78.96 %		Accumulated (127 hrs)		Total Produced 1514098	Site Overall OEE2 74.36 %					
Line stats			OEE			Line stats			OEE				
Line	Produced	Efficiency (%)	Line	OEE2	Total OEE2 Downtime %	Change over %	Line	Produced	Efficiency (%)	Line	OEE2	Total OEE2 Downtime %	Change over %
Production Line 1	59100	64.14 %	Production Line 1	70.43 %	29.57 %	7.26 %	Production Line 1	294565	58.17 %	Production Line 1	67.45 %	32.55 %	6.39 %
Production Line 3	50560	70.30 %	Production Line 3	85.68 %	14.32 %	1.71 %	Production Line 2	45450	17.57 %	Production Line 2	77.67 %	22.33 %	2.13 %
Production Line 4	99468	69.98 %	Production Line 4	71.40 %	28.60 %	9.04 %	Production Line 3	272409	69.02 %	Production Line 3	79.54 %	20.46 %	2.31 %
Production Line 5	19483	39.15 %	Production Line 5	82.56 %	17.44 %	1.67 %	Production Line 4	452680	61.55 %	Production Line 4	66.58 %	33.42 %	5.59 %
Production Line 8	50115	88.16 %	Production Line 8	87.01 %	12.99 %	4.95 %	Production Line 5	147916	59.69 %	Production Line 5	72.60 %	27.40 %	5.55 %
							Production Line 8	300939	81.41 %	Production Line 8	84.29 %	15.71 %	3.67 %
Top 10 stops						Top 10 stops							
Stop			Duration (hrs)			Stop			Duration (hrs)				
+ COVER (Production Line 3)			2.16			(Production Line 5)			4.85				
+ COVER (Production Line 3)			1.78			WAITING FOR PRODUCT (Production Line 1)			4.61				
CT WASHOUT (Production Line 4)			1.33			WAITING FOR POWDER (Production Line 5)			4.16				
(Production Line 1)			1.05			(Production Line 5)			4.15				
BATCH CHANGE (Production Line 8)			0.98			+ COVER (Production Line 1)			3.77				
PRODUCT WASHOUT (Production Line 1)			0.84			(Production Line 3)			3.76				
(Production Line 1)			0.82			(Production Line 3)			3.76				
Format Change (Production Line 4)			0.81			(Production Line 1)			3.60				
WAITING FOR PRODUCT (Production Line 8)			0.75			(Production Line 1)			3.59				
WAITING FOR PRODUCT (Production Line 1)			0.58			+ COVER (Production Line 3)			3.52				
Total			11.10			Total			39.78				

Daily report

This report is a daily report visualizing the daily uptime for each machine, including a total daily uptime. These figures are also displayed in the table to the right, alongside the production quantities



Weekly report

This report is a weekly report with filtering option to select desired week. The report contains top 3 stops for each of the production lines, as well as weekly performance for each line (OEE, Downtime, Pcs etc).

The site total is displayed in the bottom, along with some extra measures only displayed for the whole site.

TOP 3 LINE STOP CAUSES			LINE PERFORMANCE (TOTAL FOR THE WEEK)							
Line	Stop Cause	Time Lost (hrs)	Line	Availability	Performance	Quality	OEE	Unplanned Downtime (hrs)	Total Units Produced	Total Litres Produced
LINE 1 -	Microstop	10.26	LINE 1	72.55 %	68.04 %	100.00 %	49.37 %	34.22	144,655	86,158.90
	Change Over	7.09	LINE 2	78.69 %	81.16 %	100.00 %	63.86 %	24.09	193,649	108,903.20
	Water	6.14	LINE 3	73.12 %	80.77 %	100.00 %	59.06 %	18.37	37,716	117,379.00
LINE 2 -	Quality Issue	6.42	LINE 4	51.05 %	93.72 %	100.00 %	47.85 %	40.78	39,794	29,011.03
	Microstop	6.28	LINE 5	59.77 %	87.49 %	100.00 %	52.30 %	31.46	151,186	538,285.00
	Other	3.68	LINE 6	42.86 %	97.23 %	100.00 %	41.68 %	41.85	36,478	82,998.50
LINE 3	Change Over	11.39	LINE 7	54.47 %	87.66 %	100.00 %	47.75 %	16.61	39,174	21,224.00
	Microstop	1.95								
	Change Over	1.80								
LINE 4	Change Over	26.86								
	Quality Issues	3.84								
		2.71								
LINE 5 -	Waiting for Materials	9.27								
	Change Over	7.91								
	Palletiser System	5.44								
LINE 6	Change Over	13.15								
	Filler	12.25								
		3.27								
LINE 7	Supplier Issue	16.00								
	Change Over	10.54								
	Microstop	2.41								

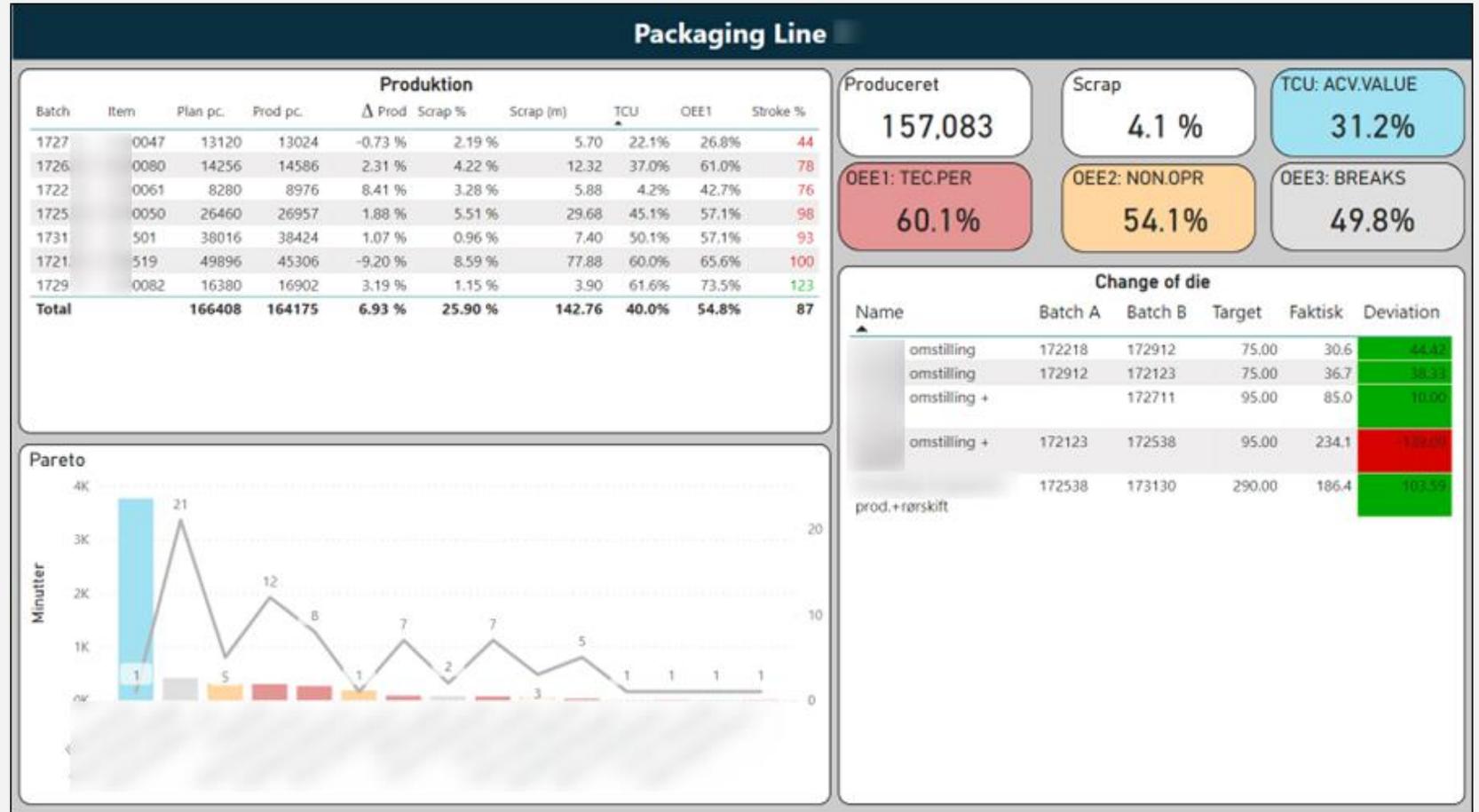
SITE PERFORMANCE											
Availability	Performance	Quality	OEE	Unplanned Downtime (hrs)	Total Units Produced	Total Litres Produced	Rate loss while running	Total Value Adding Time (%)	Total Change Over Time (hrs)	Changeover Stops	Average changeover time (hrs)
61.79 %	85.16 %	100 %	52.62 %	207.38	642,652.00	983,959.63	42,407.00	82.37 %	80.06	29	2.76

Weekly report

This report is a weekly report showing the batches that have been produced in the week, along with various KPI's and targets.

Total produced, total scrap rate and OEE figures are available.

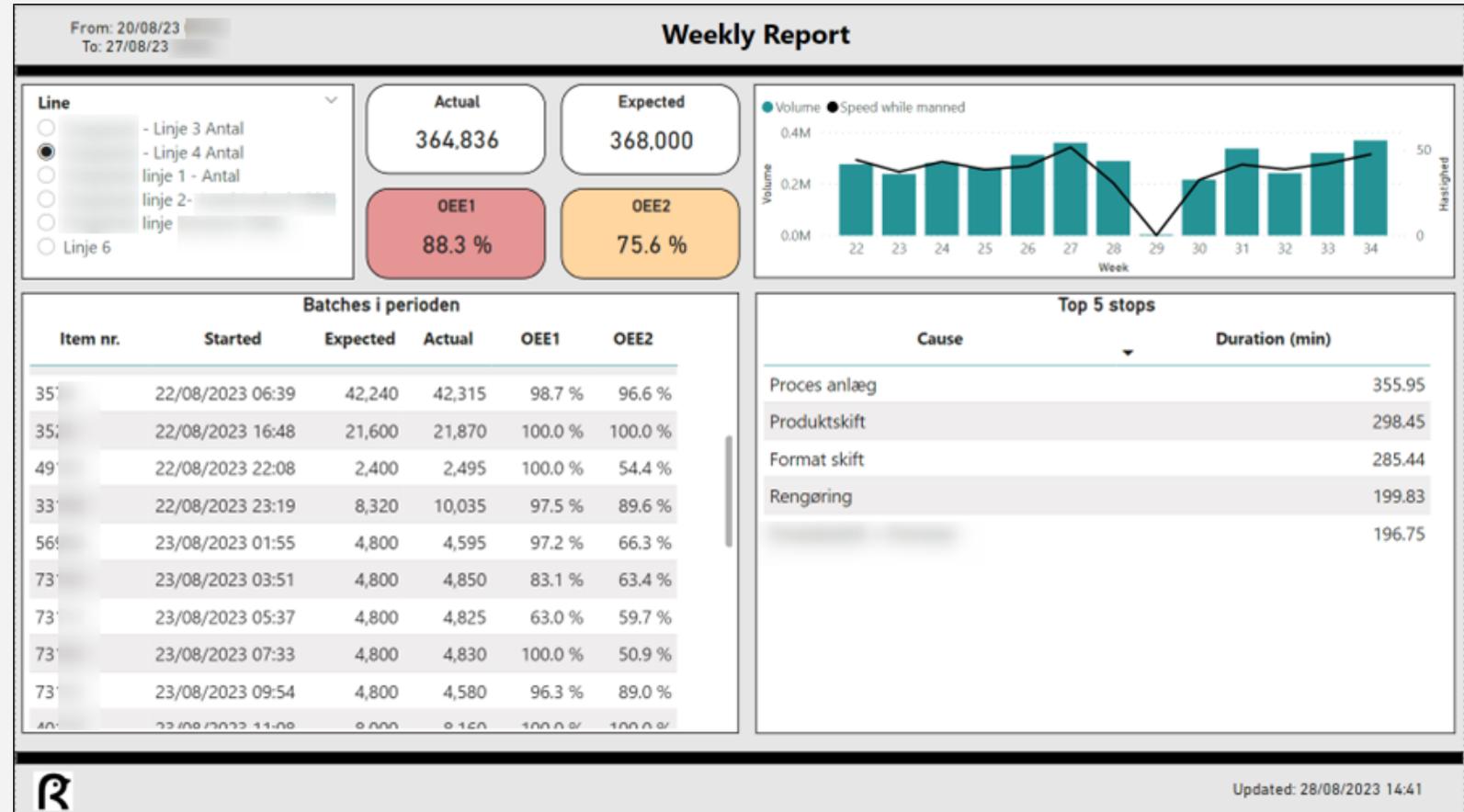
The stop pareto for the whole week and a table showing the changeovers between batches allows us to determine if we are hitting our targetted changeover goals.



Weekly report

This report is a weekly report showing actual output vs expected output. The batches that were running in the period are displayed in a table along with key measures.

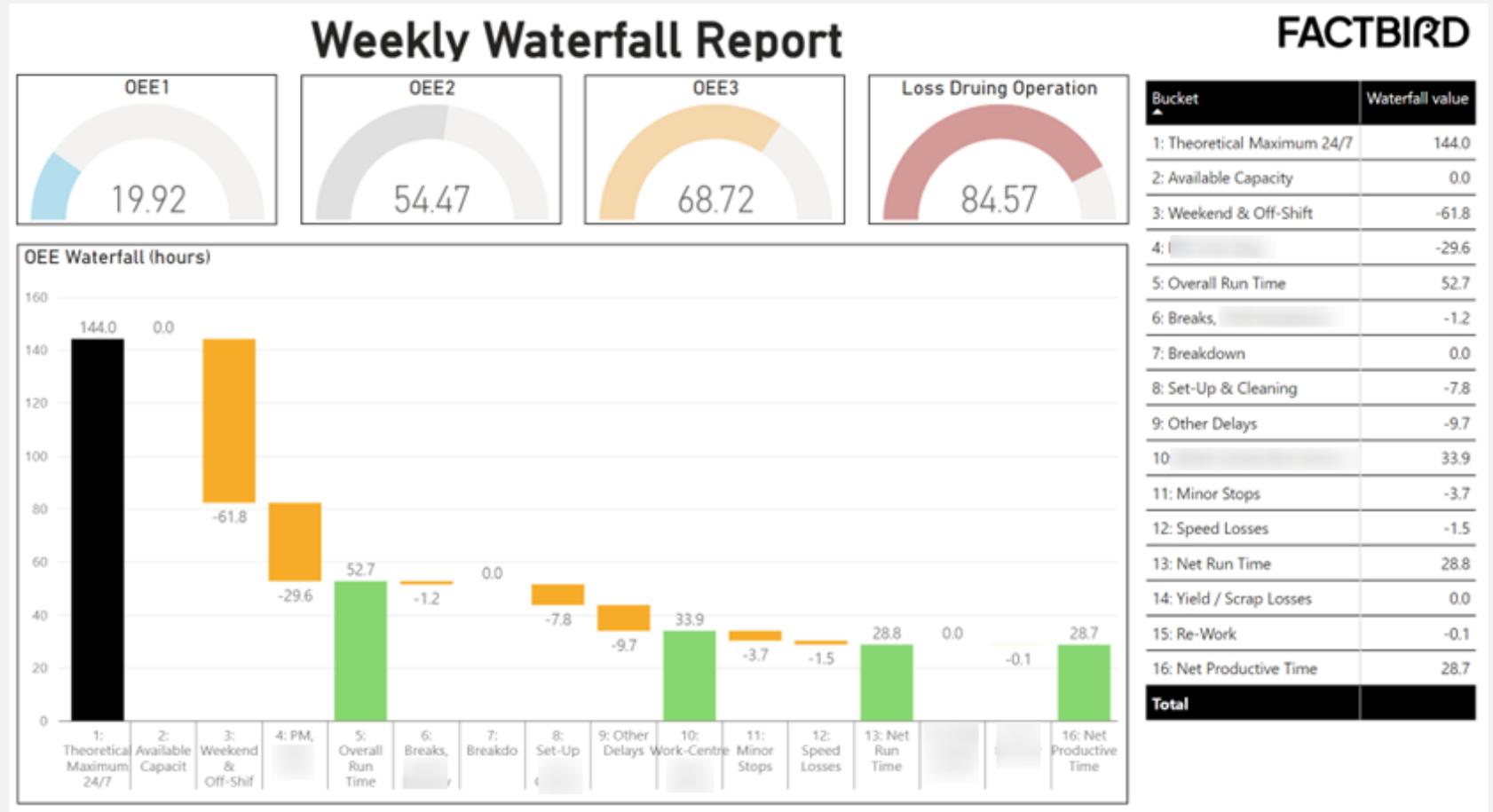
A weekly trend showing the volume and Speed while manned is also displayed for the selected production line.



Weekly report

This report is a weekly report displaying OEE's and loss during operations of the week in the measures at the top.

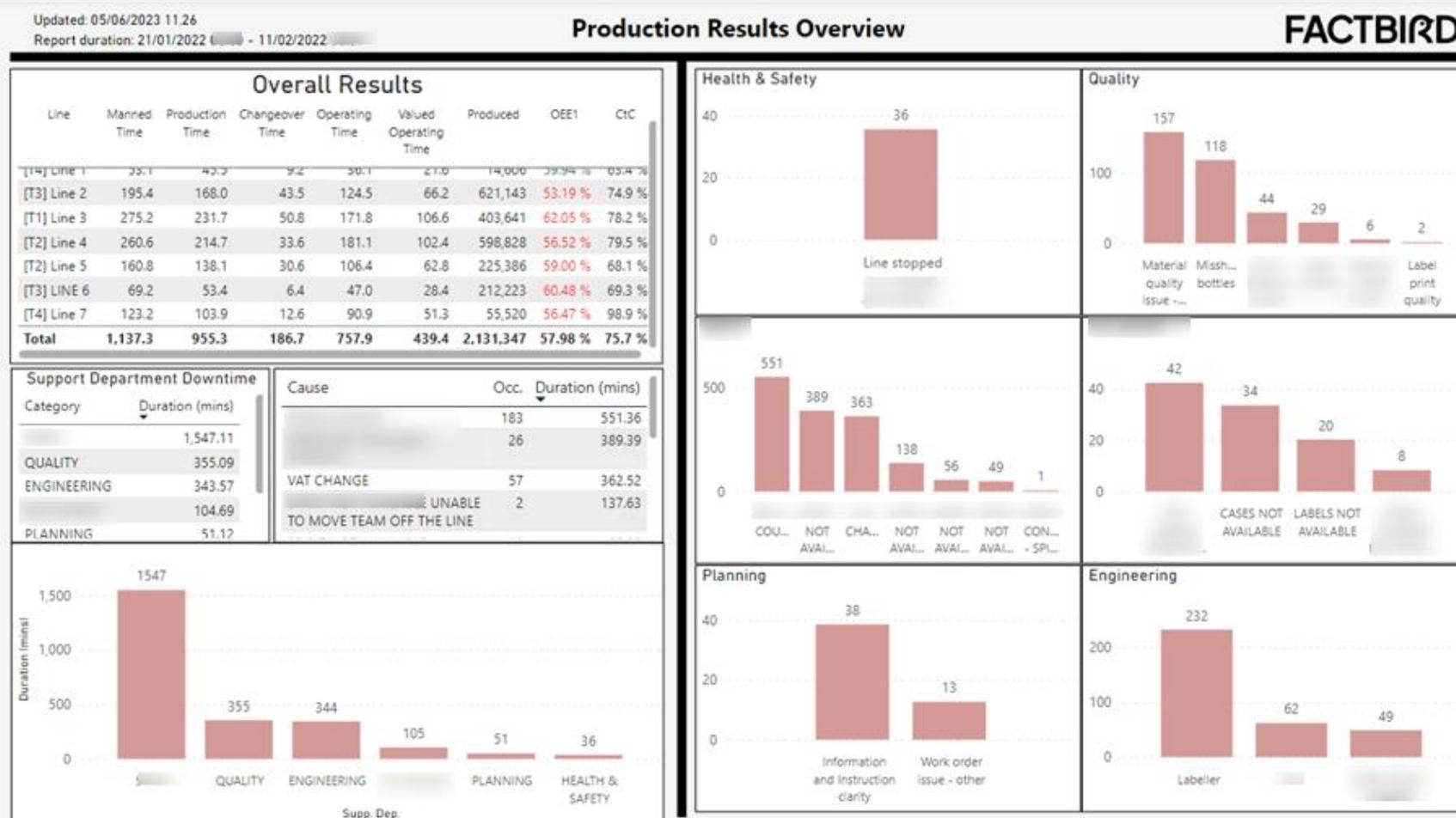
The lost hours of the week is shown in a waterfall diagram, with a summarizing table on the right of the report.



Weekly report

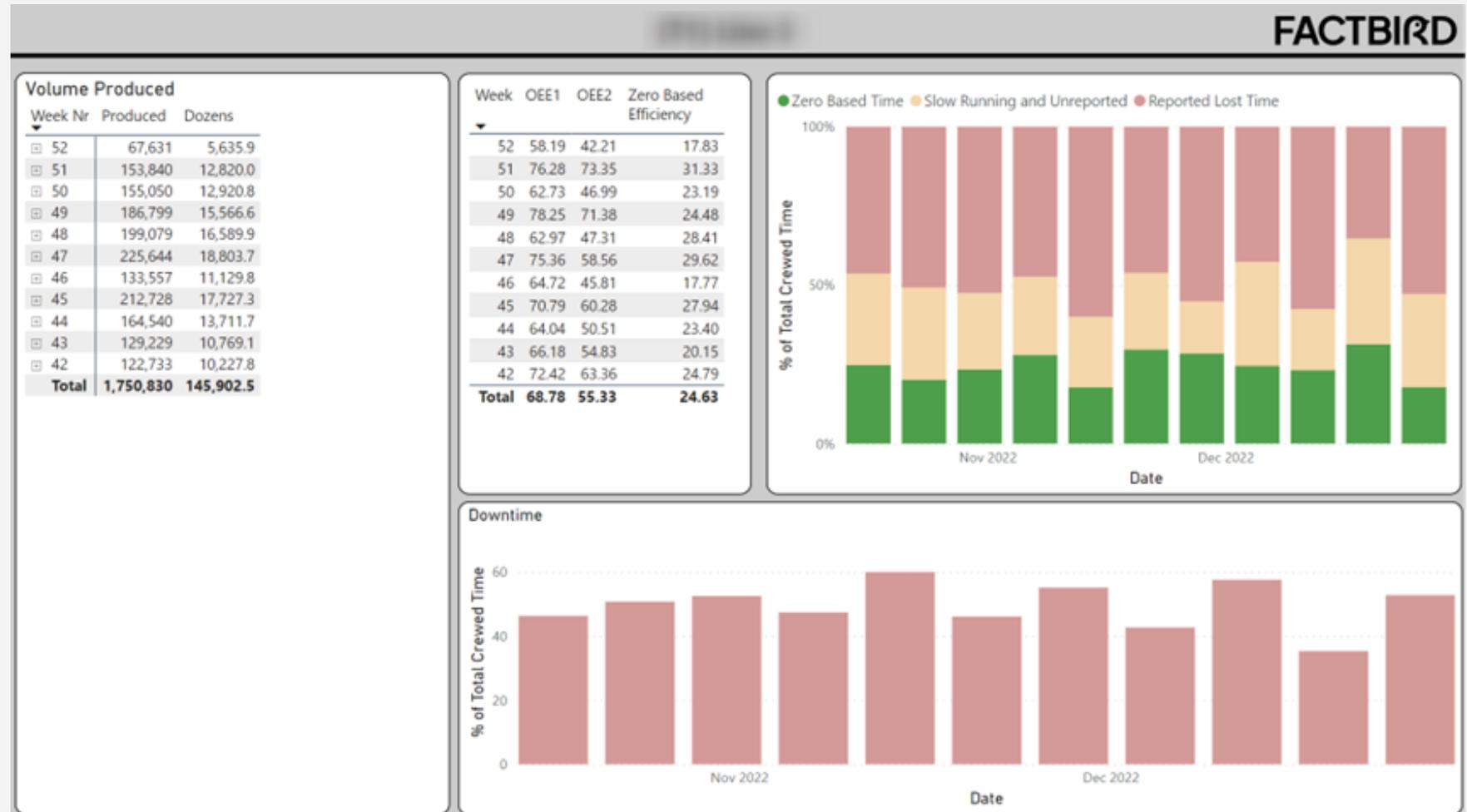
This report is a weekly report showing key operating measures across 7 different lines.

The report also shows pareto stops grouped across the lines on various stop categories provided by the customer.



Weekly report

This report is a weekly report for a specified line showing the produced values along with OEE1, OEE2 and a custom customer measure “Zero Based Efficiency” for the line.

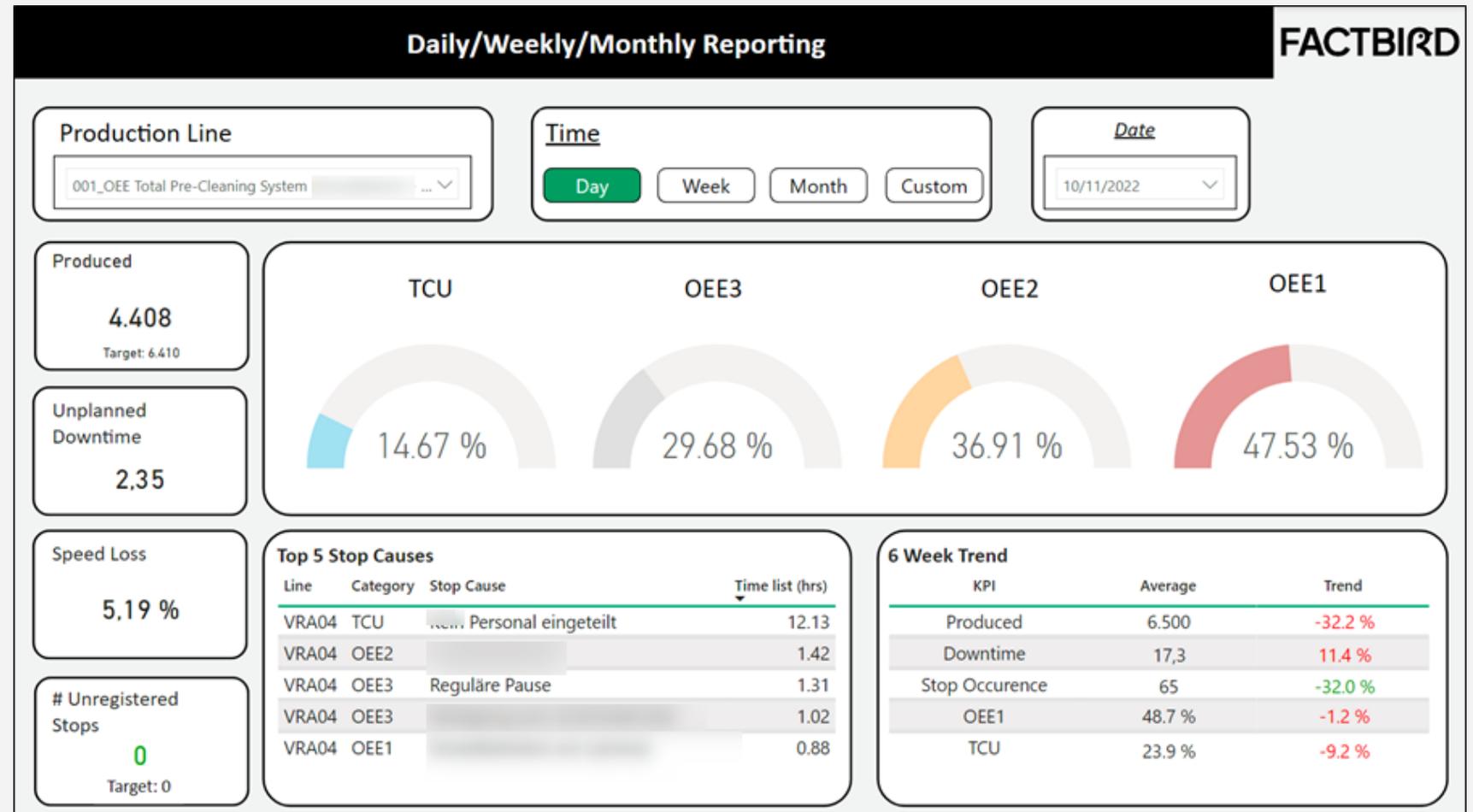


Daily/weekly/monthly report

This report is an analytical report which allows the user to select their desired time frame they want to view.

KPI's are shown as tiles along with the possibility to include target values to color red/green.

A 6 weeks trend table is supplied which compares the selected date to the average values seen in a 6 week window.



Analysis report

This report is an analytical trend report allowing for a date selection with 4 weeks worth of data prior to that date. OEE1 and Produced output are displayed on a daily basis to view the trends.

Top 5 stop causes are also displayed for the 4 weeks, to see where the top issues are located.

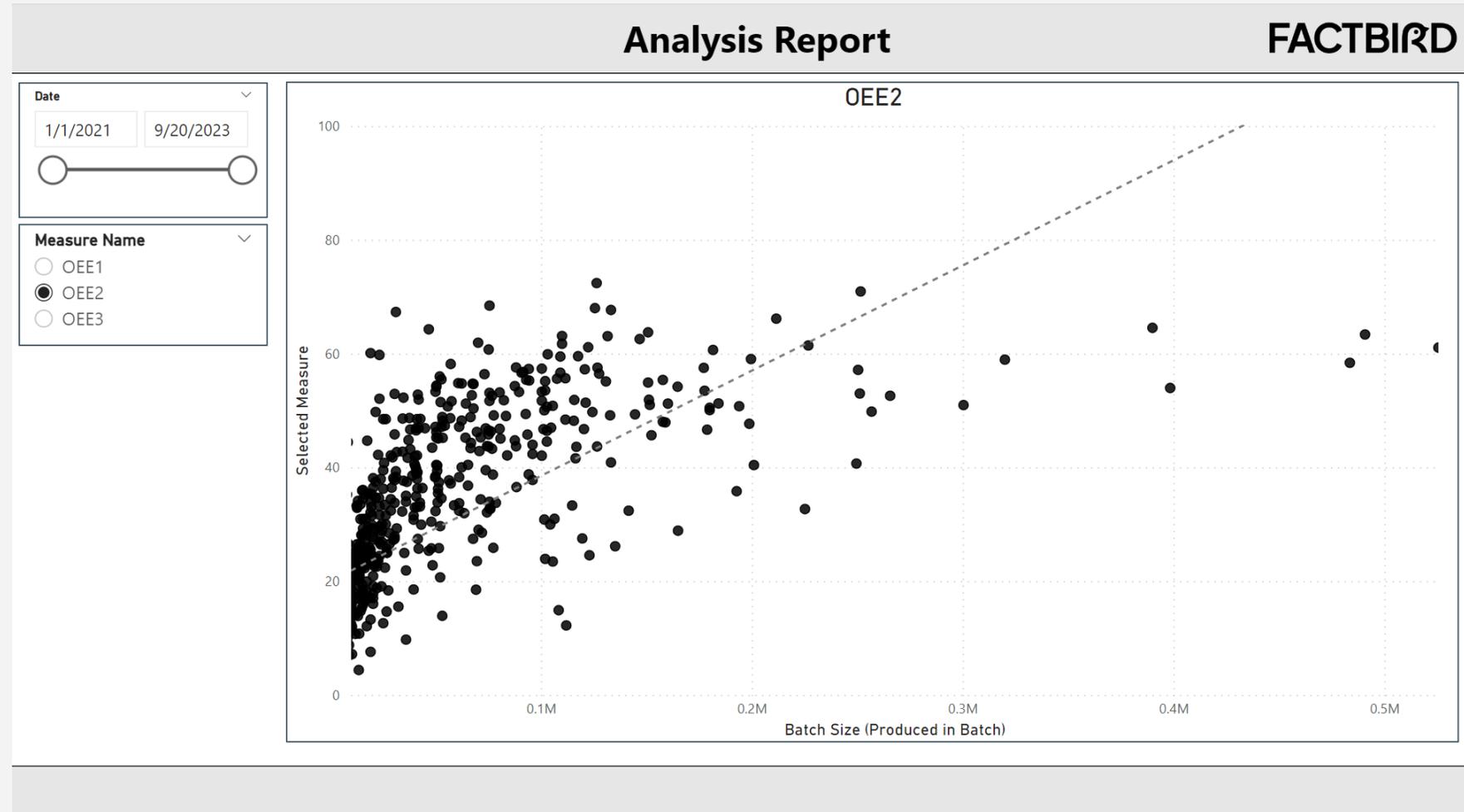
The report allows for toggling between multiple production lines.



Analysis report

This report is an analytical trend report showing batch size plotted against selected OEE measures with a trendline.

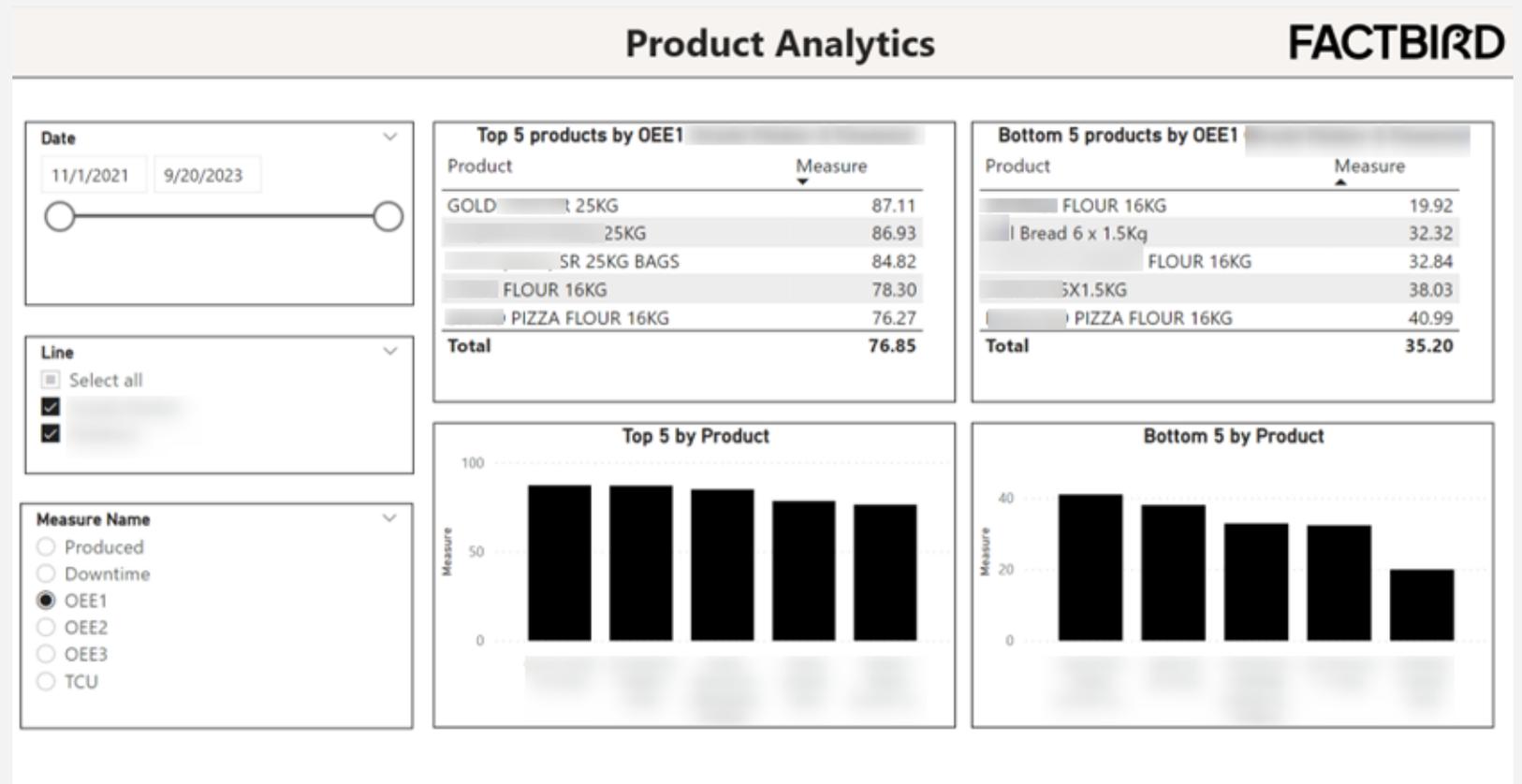
The data included in the scatter plot can be selected through the Date slicer at the top left.



Interactive report

This report is an interactive analytics report giving insight into top 5 and bottom 5 products for a selected measure/line(s) and date.

In the slicers to the left, it is possible to select a date range, which lines are included and the wanted measure for comparison of products.



Interactive report

This report is an interactive analytics report giving insights into the top stop causes through a pareto chart and a table showing number of occurrences and total duration.

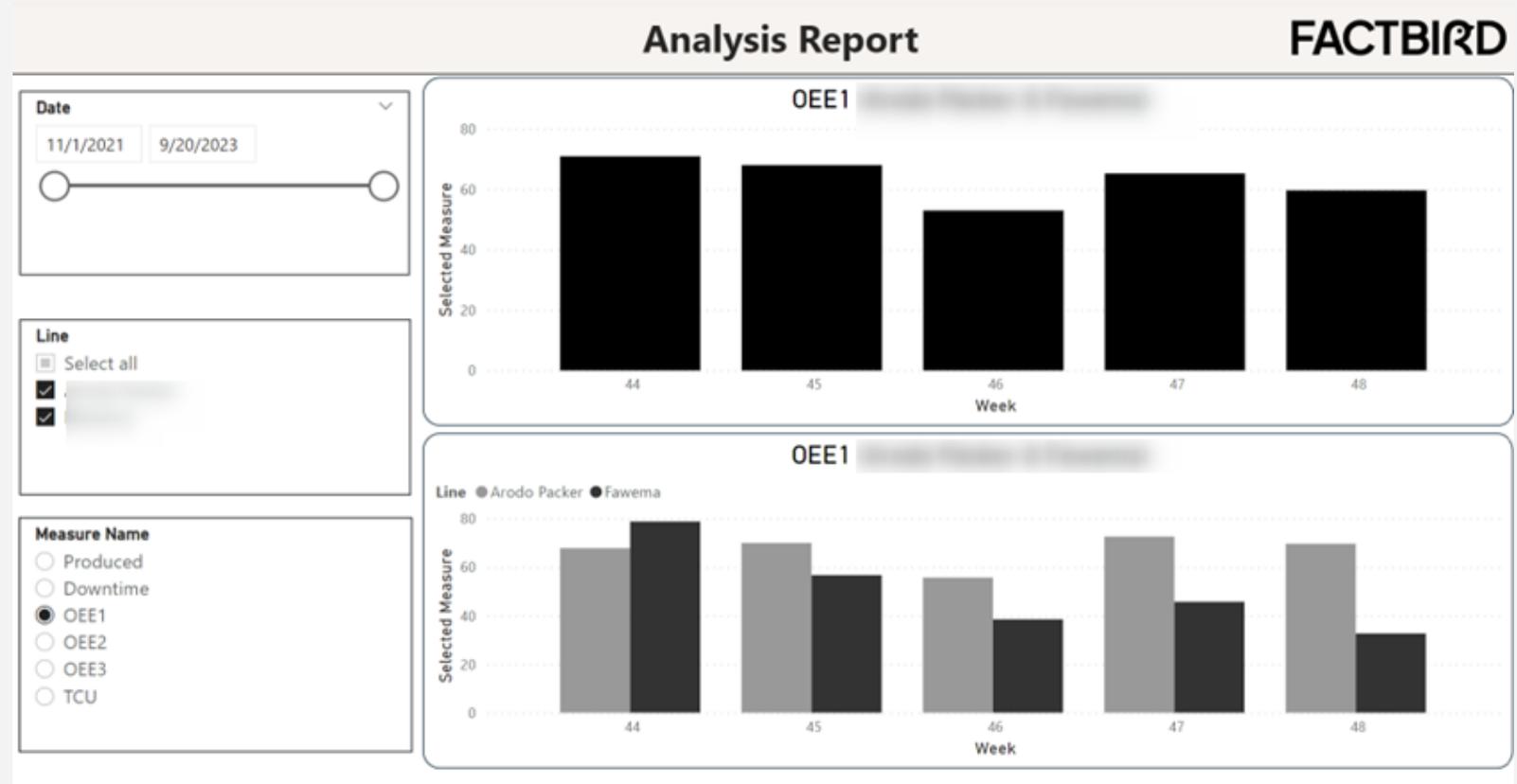
In the slicers to the left, it is possible to select a date range, which lines are included, and which stop causes are to be included.



Interactive report

This report is an interactive analytics report giving showing aggregate values of selected measure (top visual) along with the line values of selected measure (bottom visual).

In the slicers to the left, it is possible to select a date range, which lines are included, and the selected measure.

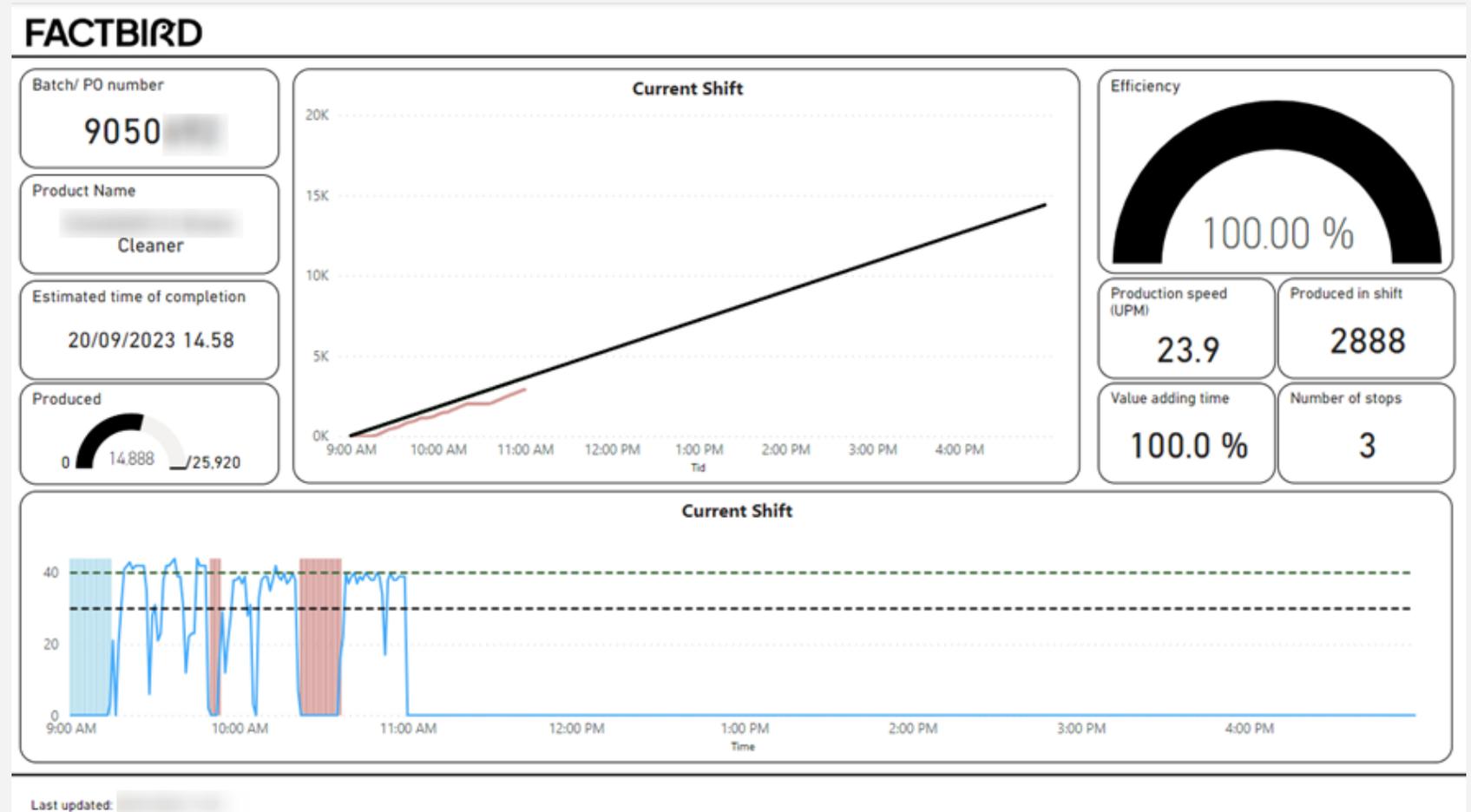


DASHBOARD SOLUTIONS

Live status dashboard

This dashboard is a live dashboard giving a quick glance of the status of a production line.

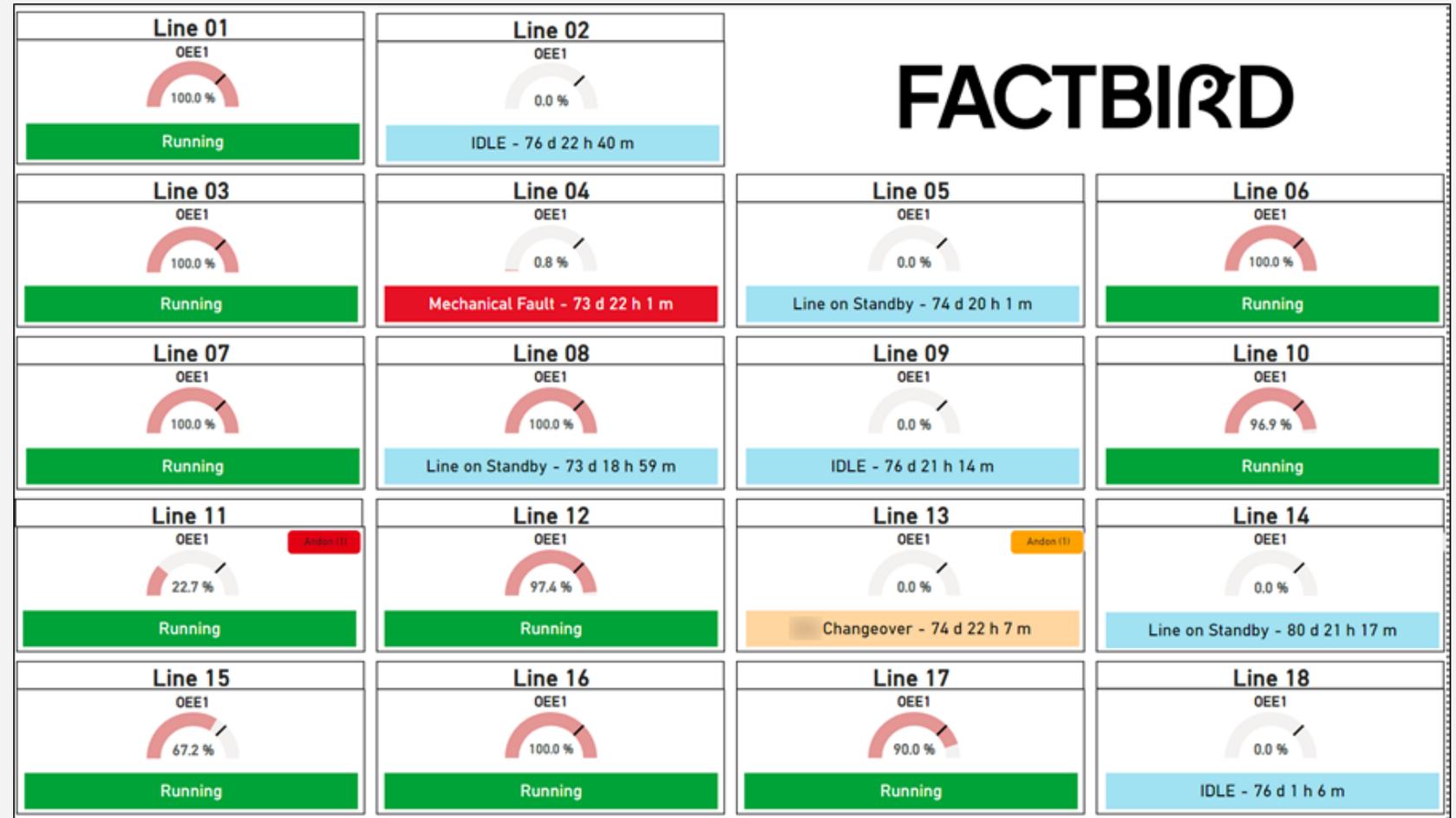
This is a screen used on the production floor, to give quick insights into the production line.



Live status dashboard

This dashboard is a live dashboard giving a quick glance of the status of multiple production lines.

This is a screen used on the production floor, to give quick insights into the lines that are not running and the cause of this.



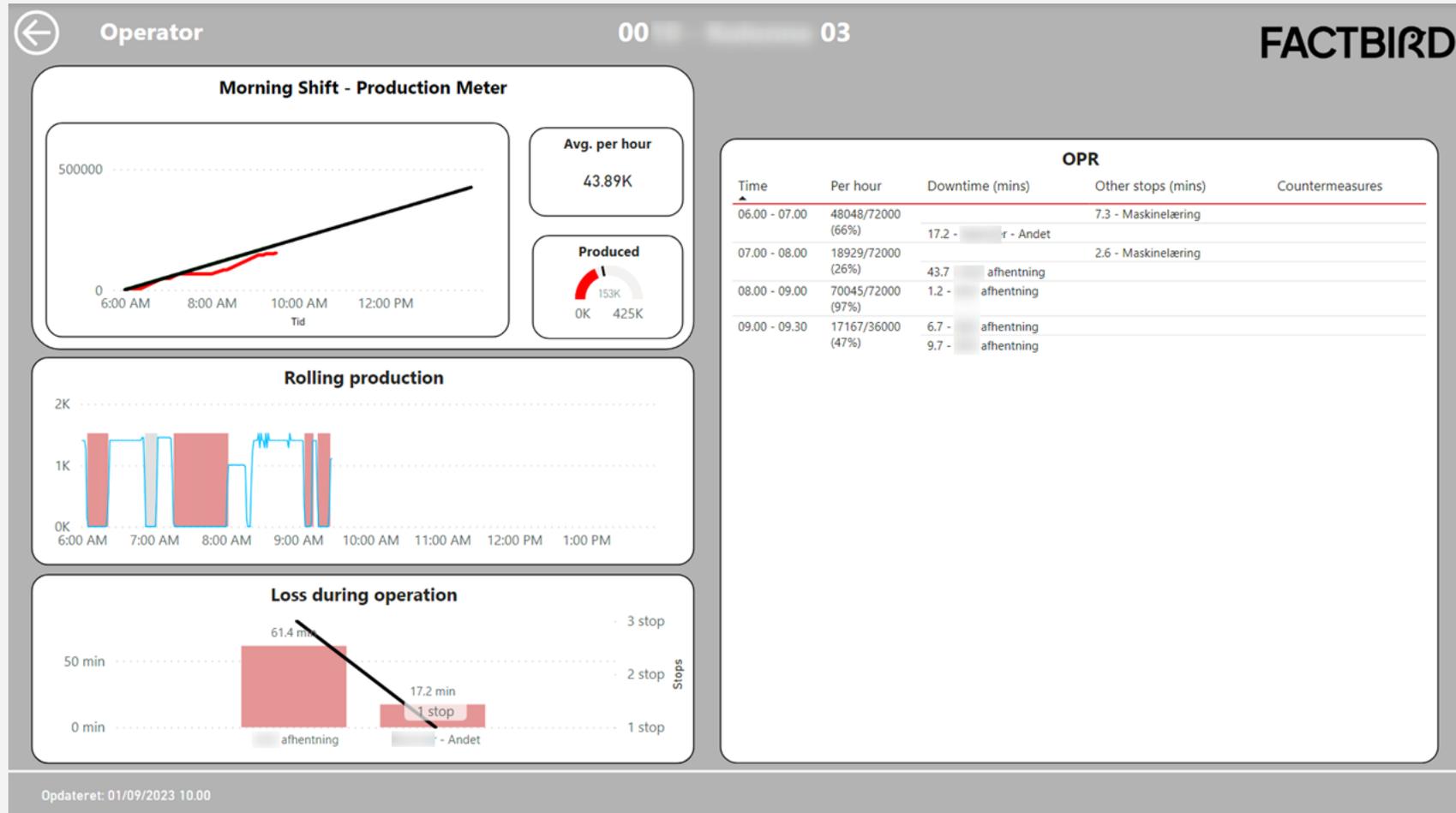
Live batch dashboard

This dashboard is a Live batch dashboard similar to what is displayed in Factbird. 2 lines are displayed on one screen, allowing for tracking of the 2 batches that are currently running. Modifications have been made to the measures displayed in the right hand side. From top to bottom the measures are:

- Average on this order
- Expected average
- Output in the last hour

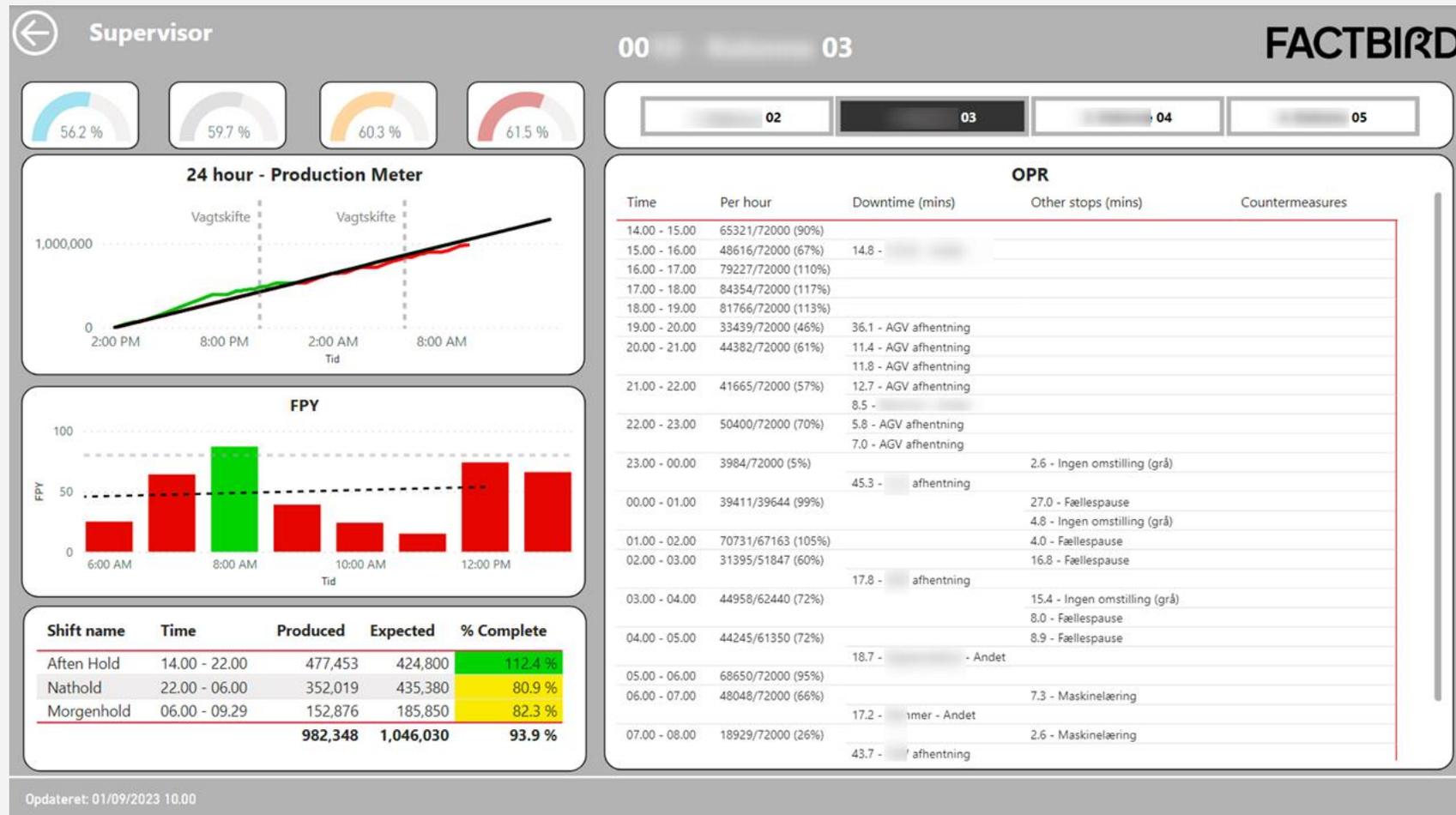


Live performance dashboard





Live performance dashboard

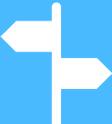




Live performance dashboard



Who is emendo digital?

	Tools & Applications	Developing everyday business applications, customized for organizations
	Data Analytics	Generating insights using state-of-the-art data modelling techniques
	Digital Transformation	Assisting organisations in aligning technology with business goals
	Automation & Real-Time Control	Engineering machine-intelligence with autonomous system technologies

THANK YOU 😊

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