# What's new with FACTBIRD

**O1** What is happening in the next hour

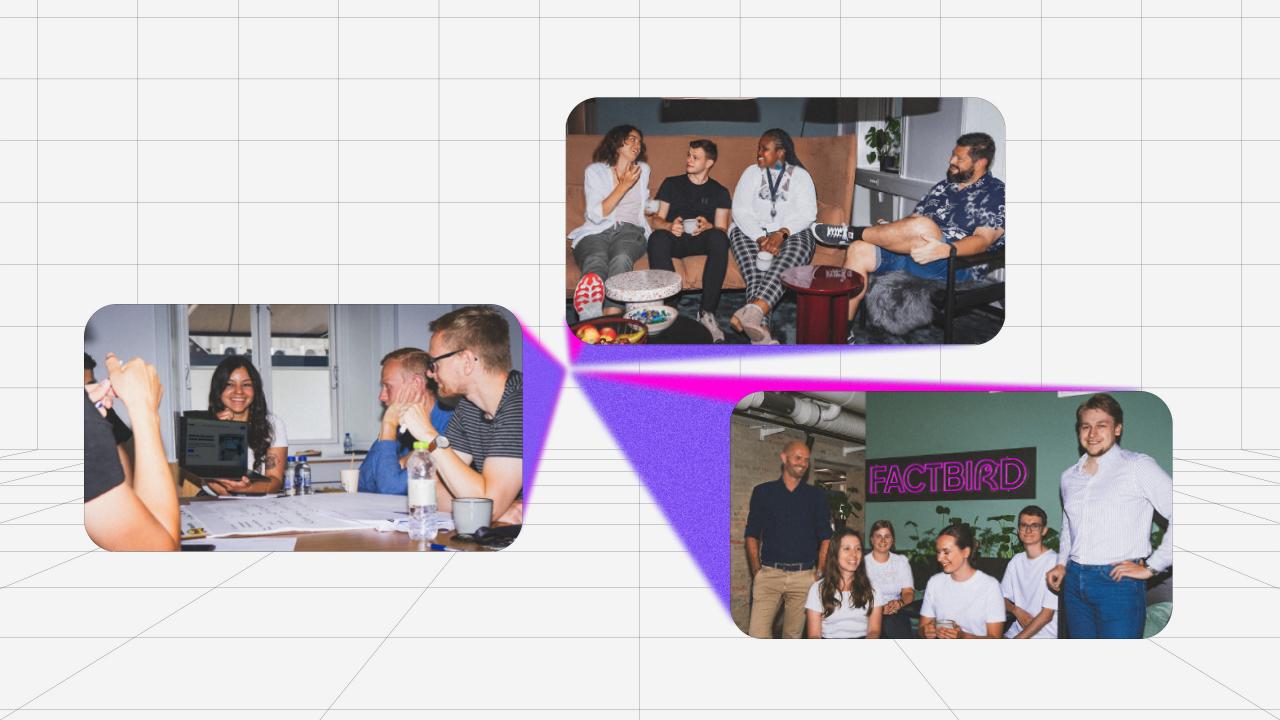
102 Then, now and winning aspiration

03 Exciting product news

**04** Why security matters

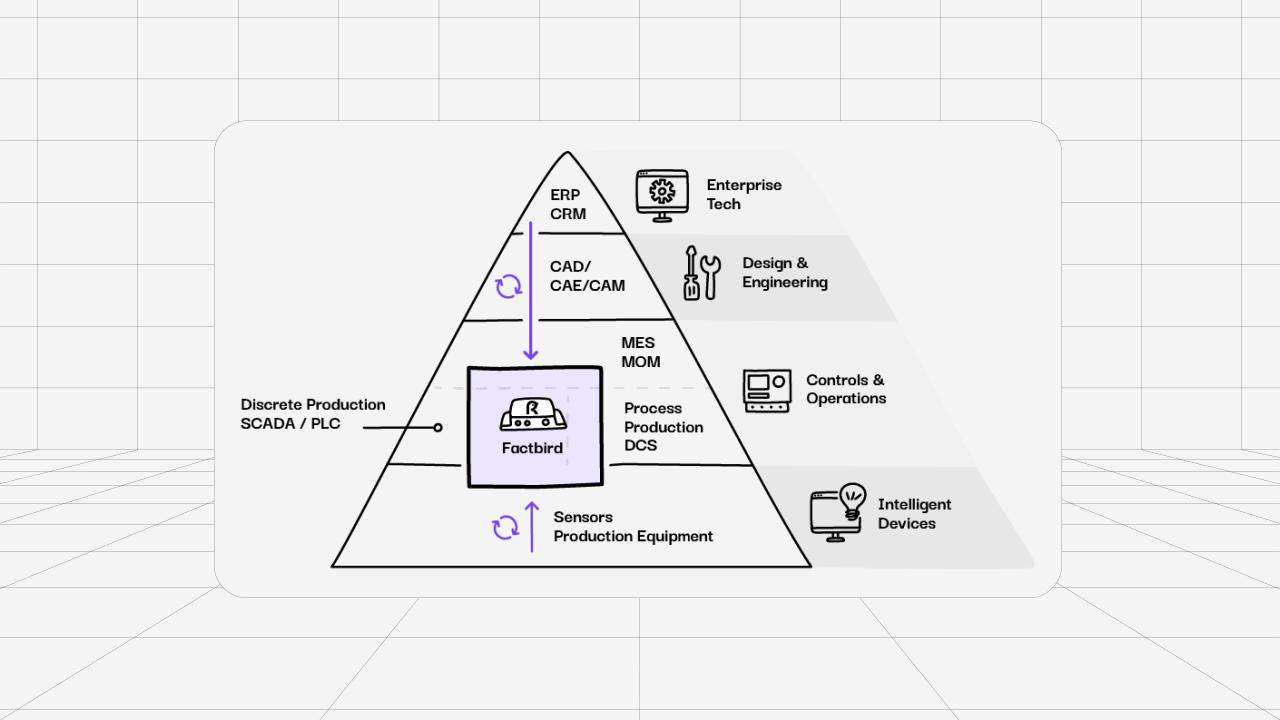
05 Time to look at edge devise and connectivity

06 Closing thoughts & questions









## The Manufacturing Landscape

Peter Juhl Savnik

**Chief Product Officer** 

## Staying competitive

#### Reduce costs



14% average reduction

#### Improve efficiency



27% OEE increase in 3 months

#### **Enhance quality**



Reduced scrap from 5% to <1%

## Empower frontline workers

### 82% of manufacturers experience labor shortages

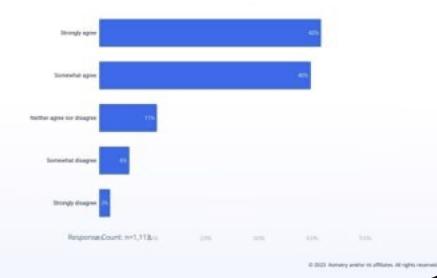
2023 Career Advancement in Manufacturing Report - Xometry | The Women in Manufacturing Association

Do you agree or disagree with the following statement: We are experiencing labor shortages

82% of manufacturing companies are experiencing labor shortages

From 1,113 industry professionals who are active in manufacturing, 42% strongly agreed that their organization is experiencing labor shortages. In the next page of this report, we break down the labor gap by:

- Job function
- Industry







60% millennials are open to changing job



# Value-added workbrings happiness and dignity

Visibility on Shopfloor = Great Decisions



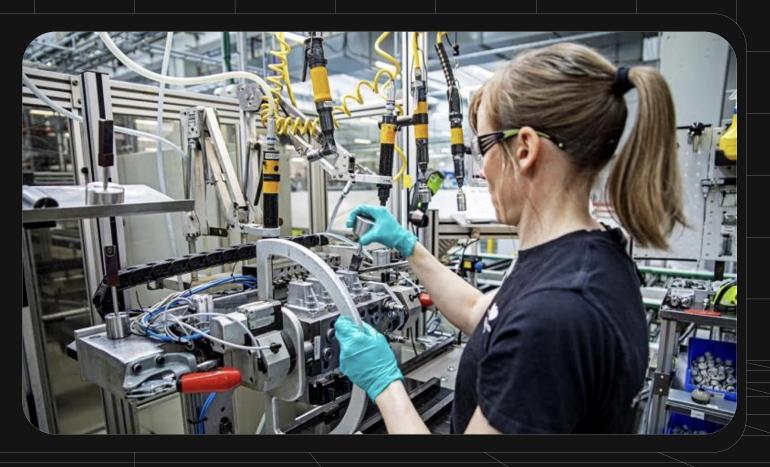
Adapt to a changing world



## Consumer ESG awareness



33% energy reduction



### Lines will reconfigure more often



40% reduction in critical changeovers



12.10.2023



## **Product News**

Anders Sindal Stæhr

**Product Designer** 

#### **Product News**



Preventive Maintenance



**Energy Monitoring** 



Organizational Structure



Other Improvements

#### **Preventive Maintenance**

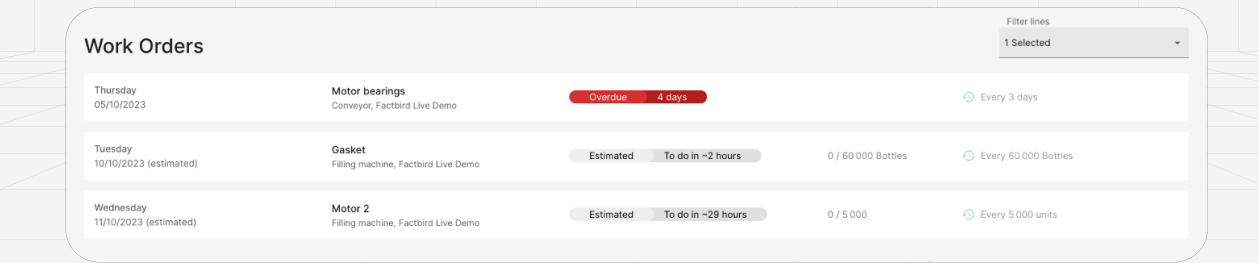
How can I reduce unplanned downtime?

What are my actual maintenance intervals?

Drive maintenance by production cycles



Enable operatordriven maintenance



#### **Energy Monitoring**

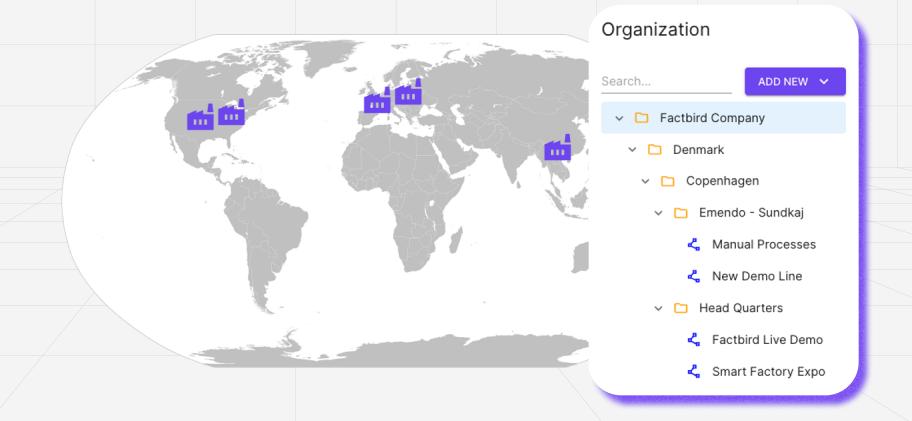
How can I reduce operational costs?

How can I support my organization's ESG strategy?

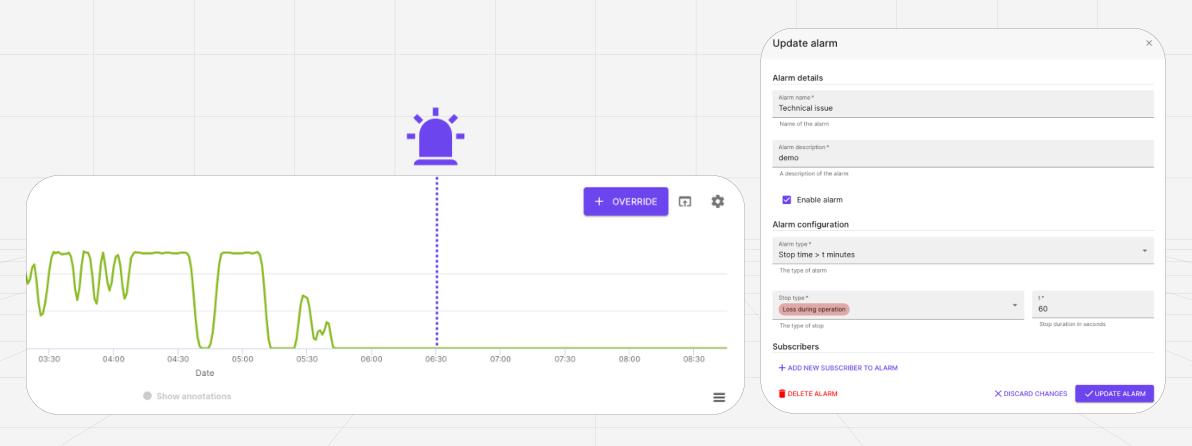


#### Organizational Structure

How to keep an overview of multiple lines and factories?



## Other Improvements Stop Alarms Set alarms for production stops



**Batch view** 

Get an overview of how your batches performed

#### Actual vs expected speed per batch

Q Filter batches															×		
	State	Batch/PO number	Product name	Planned start	Planned stop	Actual start	Actual stop	Estimated time of completion	Planned amount	Actual produced	Avg. speed pcs/min	Expected speed pcs/min	Links	Actions		à	
~	Running	172	BB Beer	06/10/2023, 15:45:30	06/10/2023, 17:25:30	06/10/2023, 15:46:00	•	09/10/2023, 03:20:08	100000	1844171	346.76	1000	~ uh O ■		1		
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~	Done	333	BB Beer	27/09/2023, 16:57:00	29/09/2023, 18:57:00	28/09/2023, 09:35:30	28/09/2023, 15:19:29		3000000	282413	820.97	1000	~ ii O ■		1	<b>•</b>	

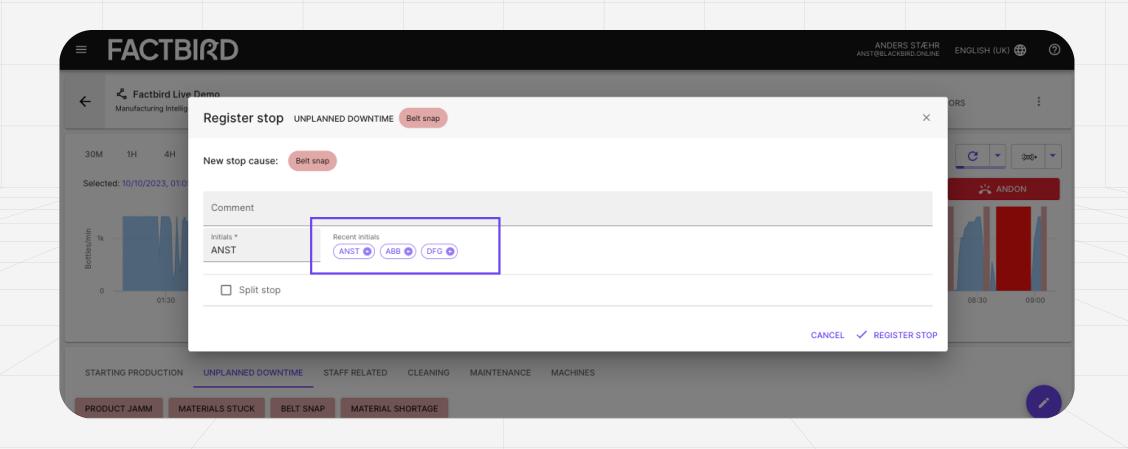
#### **KPI Options**

Choose which KPIs to use on each line

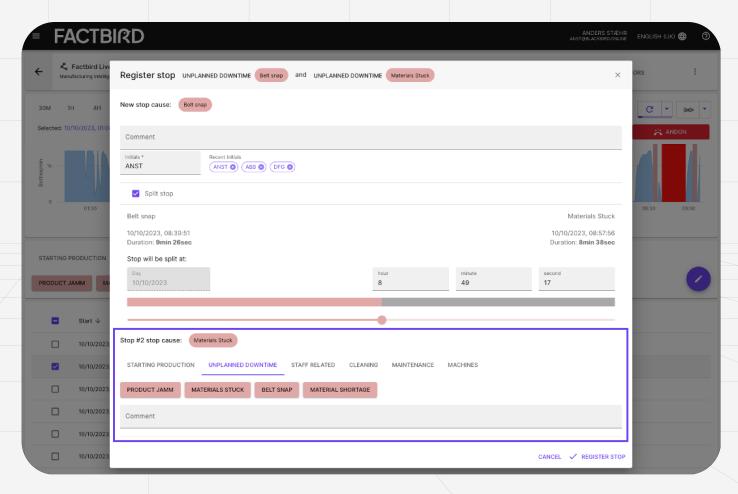
#### Line KPI visibility ENGLISH (UK) ( **KPI Options** Factbird Liv Select which KPIs to show. The selected KPIs will be shown to all users. Line settings Produced Main sensor settings Selected: 10/10/2023, 00 Produced Produced units per stop Produced in current batch Schedule The number of items produced. The number of items produced on average The number of items produced in the newest Batch Dashboard before a stop occurs. This is calculated by batch in the selected time span. If no batch taking the number of items produced and.. exists in the time span, no number will be.. Shift Dashboard Display Options Scrap Scrap rate Yield rate The number of items scrapped. The percentage of total items that have been The percentage of produced items that have scrapped. not been scrapped. Is the inverse of the scrap Speed Speed while manned Speed while producing Average produced per minute The number of items produced on average per The number of items produced on average per The number of items produced on average per minute while the line was manned. This is minute while the line was supposed to be minute. This is calculated by taking the number calculated by taking the number of items... producing. This is calculated by taking the ... of items produced in the selected time span...

#### **Stop Registration**

Improved workflow for entering initials



Stop Registration
Improved workflow for register both stops on split



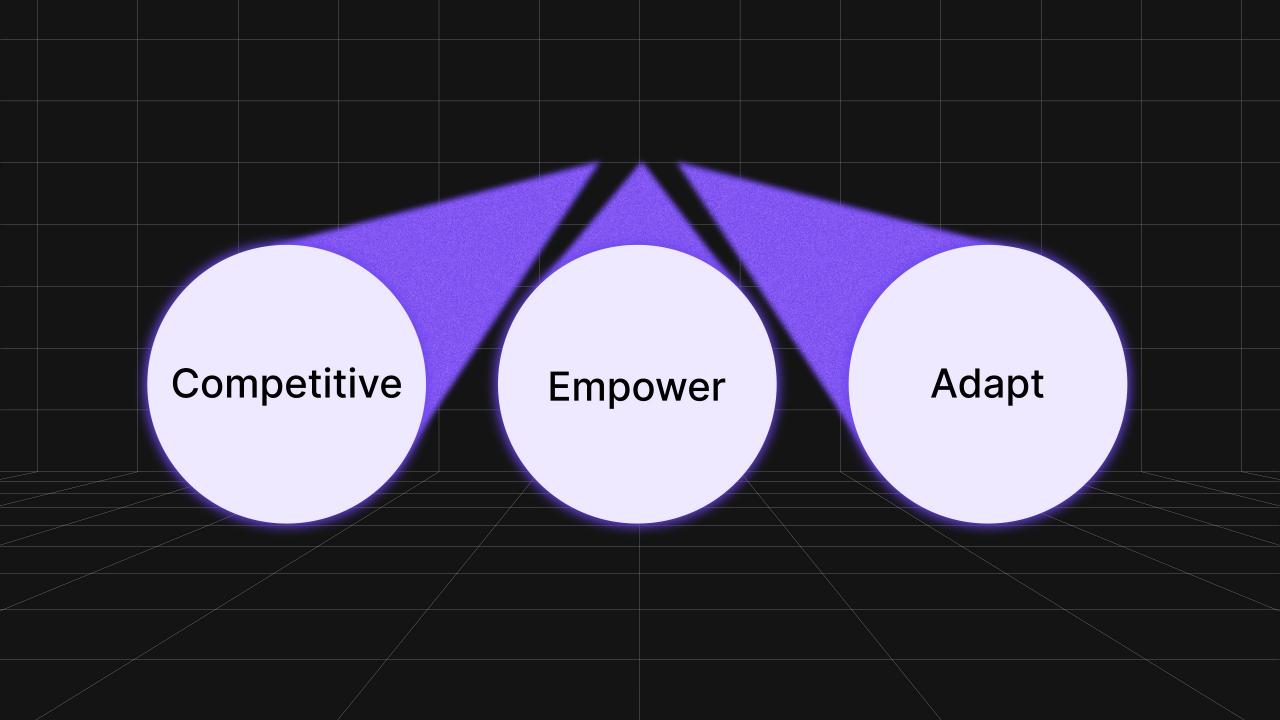
- Improved filtering functionality for OEE analysis
- Improved connection status visiblity
- Better time selection on lines overview
- And much more...

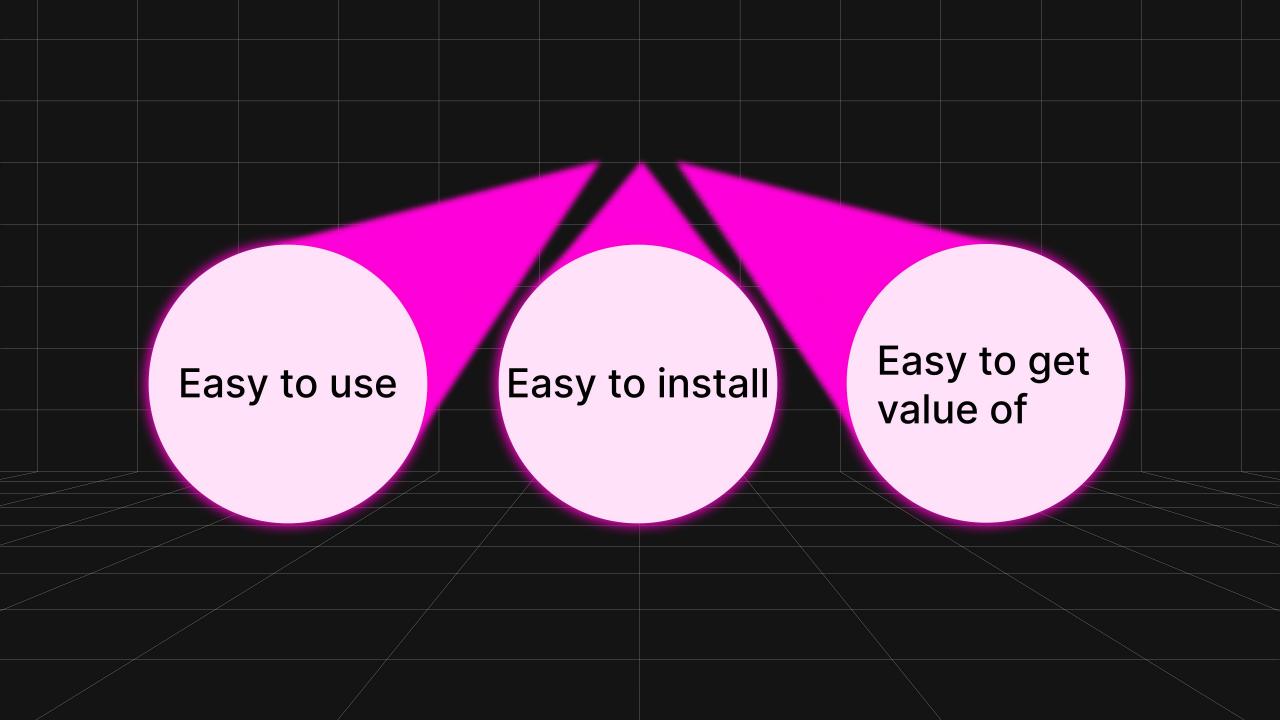


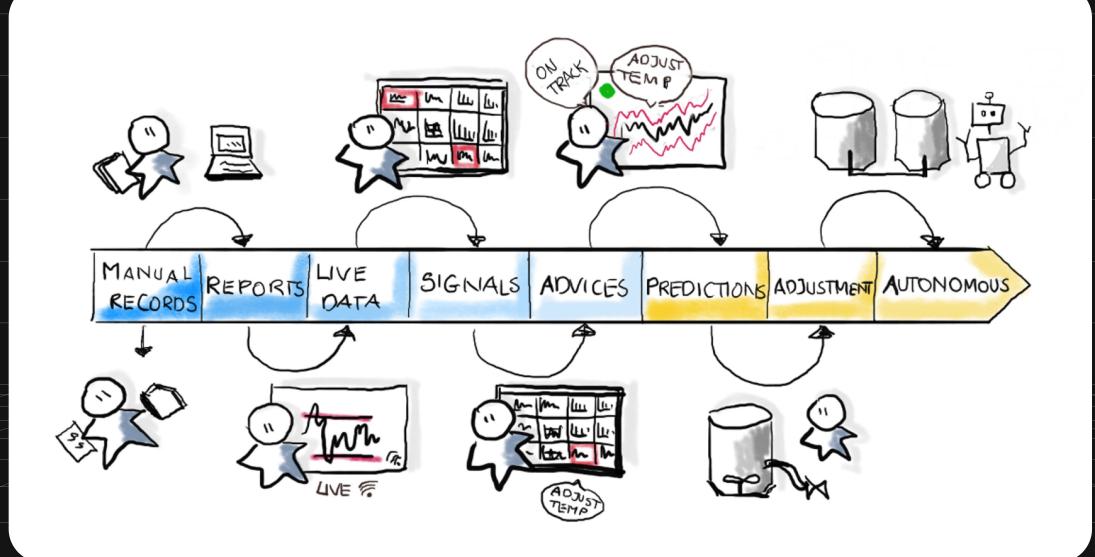
## Product Announcements

Peter Juhl Savnik

**Chief Product Officer** 







Source

Data engineers

Consumers









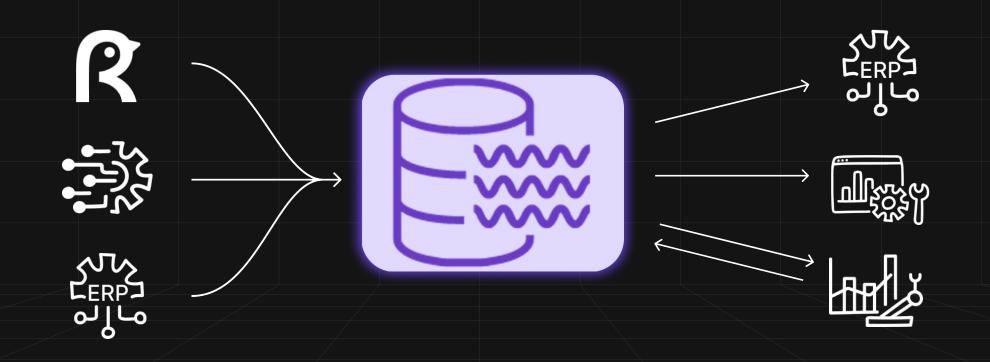




Source

**Central Data Access** 

Consumers

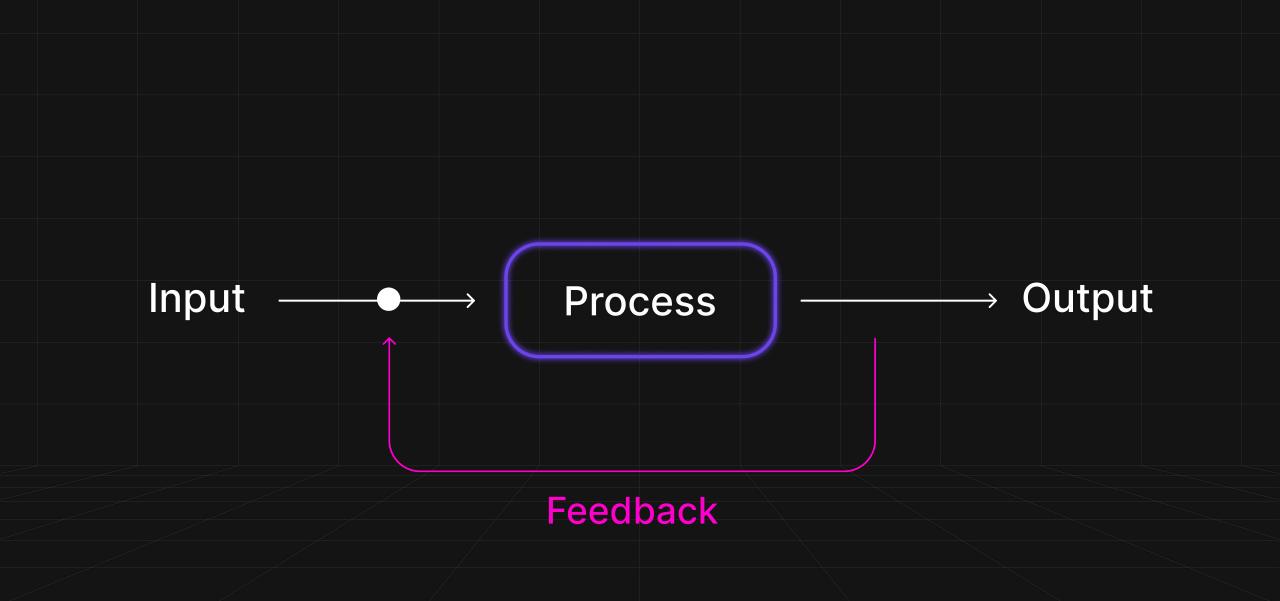


#### Coming...



#### **Data Lake Connector**

- Easy Store & Analyze Factbird data joined with Enterprice Data
- Automatic push of data to AWS Data Lake & Azure Data Lake
- Enterprise-Grade Security

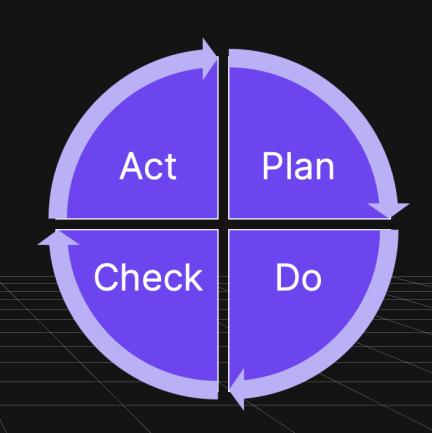


#### Coming...



#### **Factbird Action Plans**

- Automatic reminder on follow-ups
- Easy escalation though the organization
- Easy attach documentation & pictures
- Follow-up can be automated to a Line
- Al based knowledge sharing



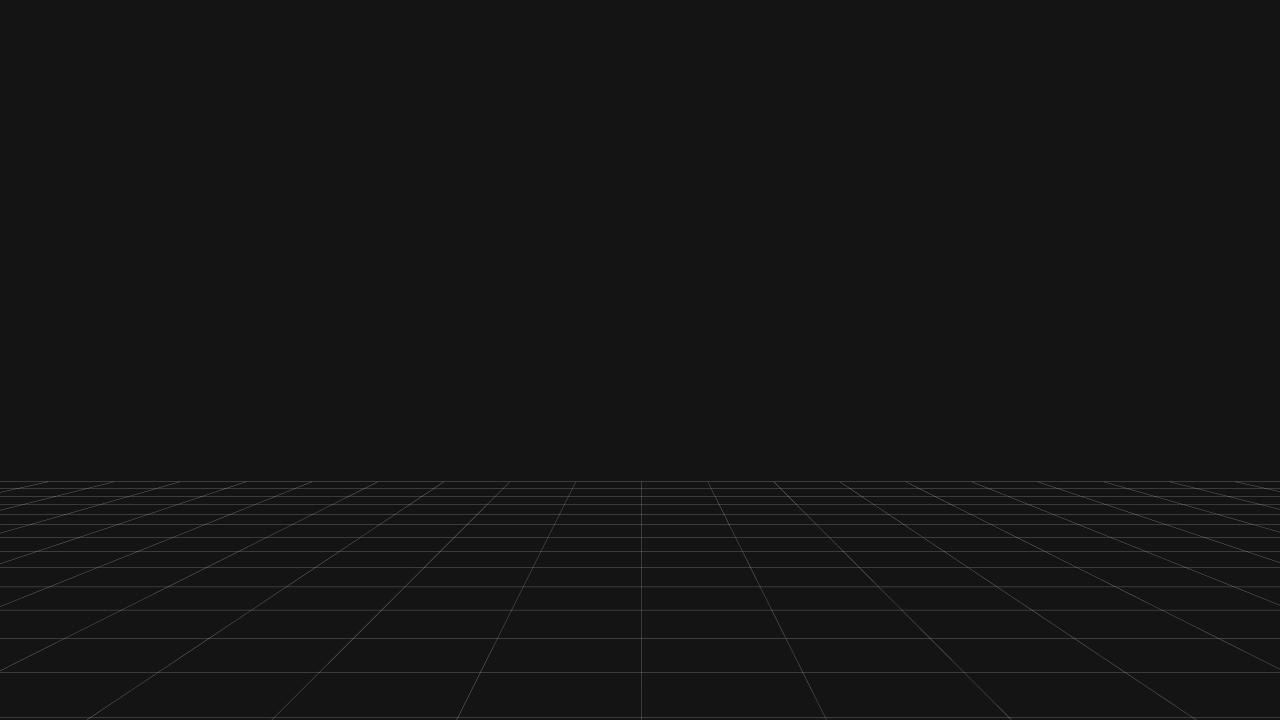


#### Coming...



#### **Factbird Insight**

- Quickly Benchmark Internally
- Opt-in Benchmarking towards industry sectors
- Easily identify risk in poor user adoption



12.10.2023

We build the #1 Cloud based Manufacturing Intelligence Software that works out of the box and can be retrofitted into any manufacturing environment.

Peter Juhl Savnik Chief Product Officer

## Security Updates

Simon Vandel Sillesen

Head of Security & Senior Full Stack Engineer

# Single-Sign-On (SSO)



**Fewer logins** 



**MFA** 



Central administration

# New: OAuth2 Client Credentials API

# **Analog Sensors**

Kenneth Sylvest Knudsen

IoT & Hardware Specialist

#### **Analog Sensors**

- Support up to 2 analog sensors
- 4-20mA analog sensors



## **Analog Sensors** Alarm notifications Selected: 10/4/2023, 8:05 AM to 10/4/2023, 12:40 PM 08:30AM 09:00AM 09:30AM 10:30AM Show annotations

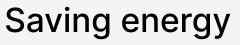
# **Energy Monitoring**

Nicolai Sahl-Tjørnholm

Full Stack Engineer

#### Energy data in everyday production





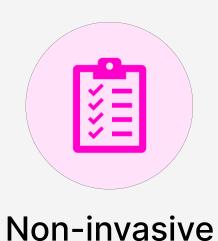


Reduce operational cost



Reach sustainability goal

#### Clamp on energy monitoring







Fast and easy

Adaptable

Campaign: Get connected for free!

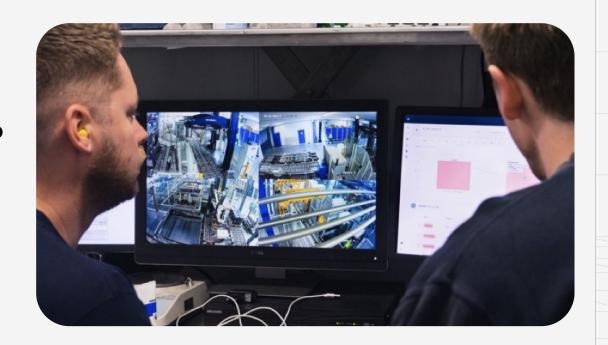
### **Factbird View**

Søren Bønning Jakobsen

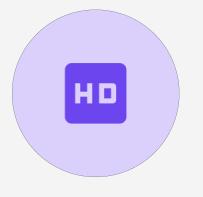
IoT & Hardware Engineer

#### Factbird View v2

- The importance of video data
- What does the hardware look like?
- IP-cameras



#### Factbird View v2 - beta



Improved video quality



Viewing angles



**IP-ratings** 



Privacy Protection

#### Factbird View v2 - the future?



High FPS



Wireless Connectivity

# Closing thoughts & Questions