



# POLARIKS

## WE PROVIDE **INSIGHT**

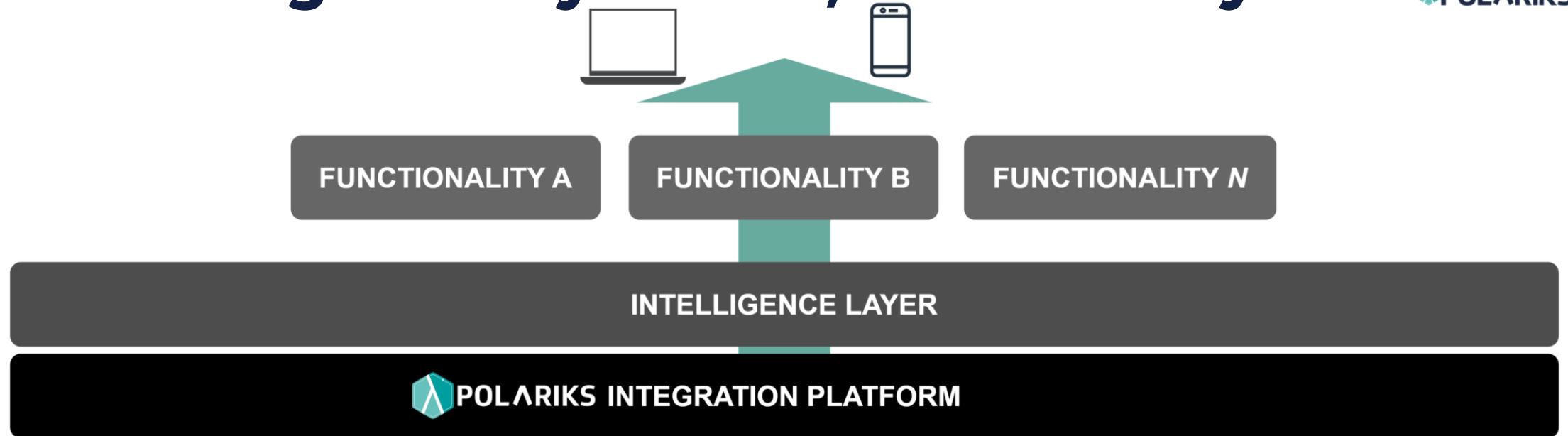
**Introduction to Polariks**  
Koploper in UC-13 'After Harvest'  
Agrifood

# UC-13 After Harvest





# Integrate any device, asset and system.



## CLIMATE SYSTEMS



## LABOR MANAGEMENT SYSTEMS



## LOGISTIC MANAGEMENT SYSTEM



## MACHINES & SENSORS BUILDERS



## ENERGY MANAGEMENT SYSTEMS



## WEATHER SYSTEMS



## ML PLATFORMS & MODELS



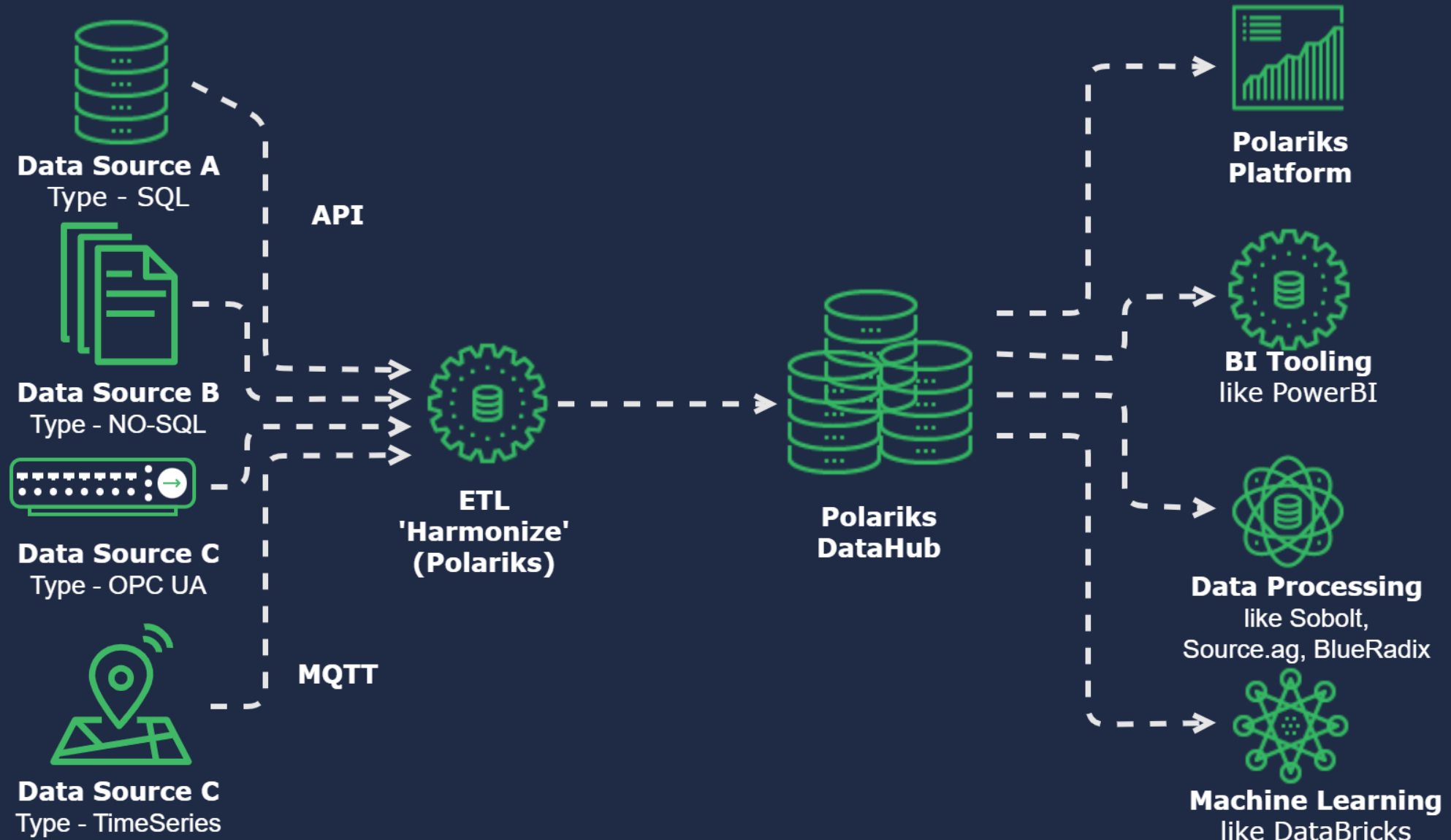
## EVENTS REGISTRATIONS / BREEDING



## VISUAL RECOGNITION SOFTWARE



# POLARIKS DATAHUB



# POLARIKS PLATFORM

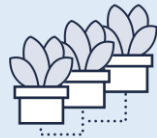
- Retrospection platform for historical data.
- Tools for data analysis, visualization, and reporting.
- Modules to serve your needs as Grower, Operator or Manager.

## INSIGHT



Intuitive **insights** and **analytics** on all your data.

## BATCH MANAGEMENT



Follow your photosynthesis process on batch-level.  
**Track & Trace**

## WORK ORDERS & NOTIFICATIONS



Orchestrate operations for Maintenance & Operations.

## CMMS



Computerized **Maintenance Management System**

## FORESIGHT & PREDICTIONS



The next frontier of innovation  
**Polariks Developer API.**



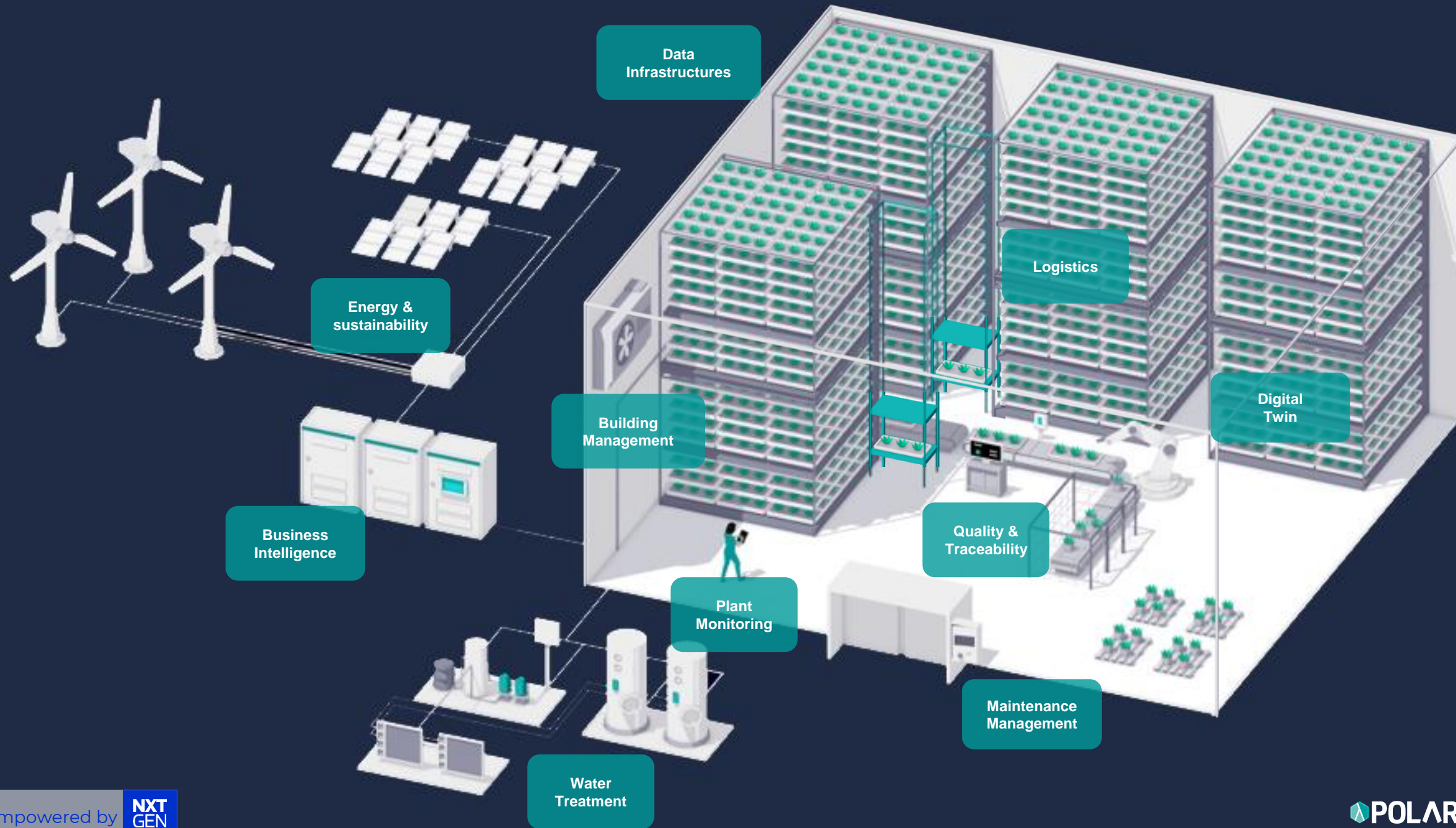




grow<sup>up</sup>

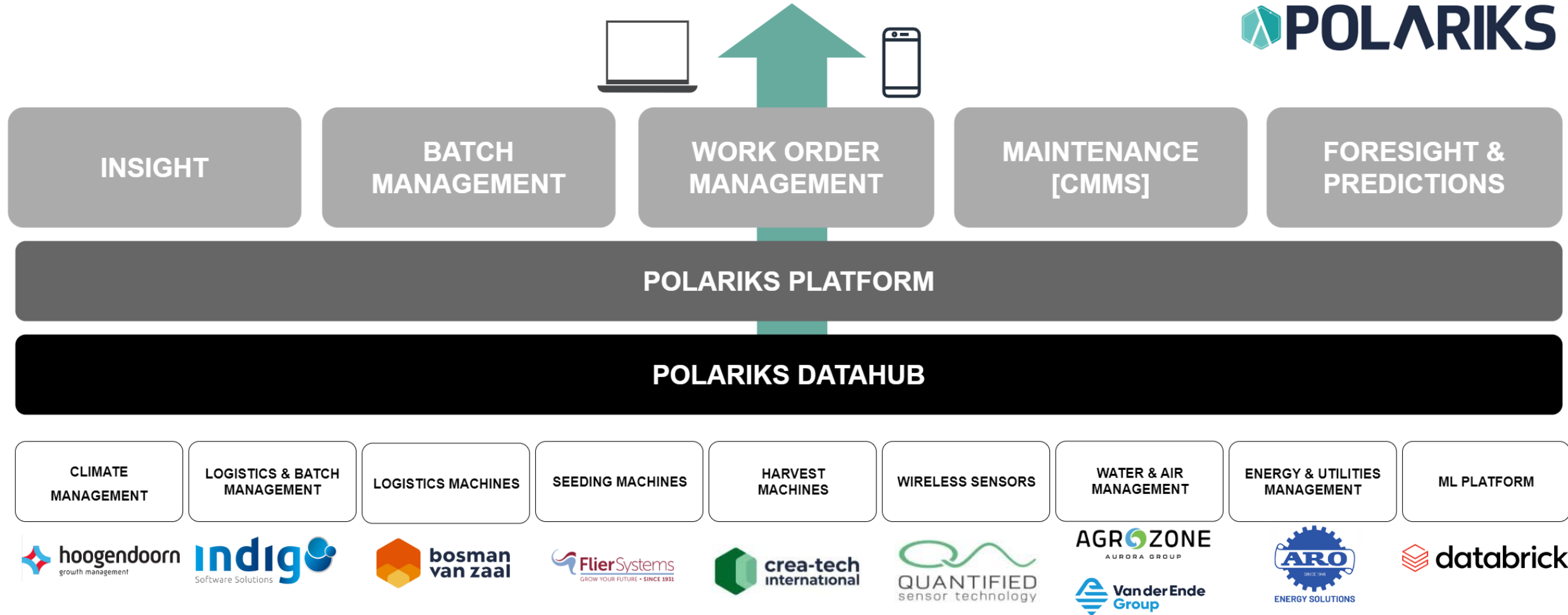
Certified  
  
Corporation

grow<sup>up</sup>

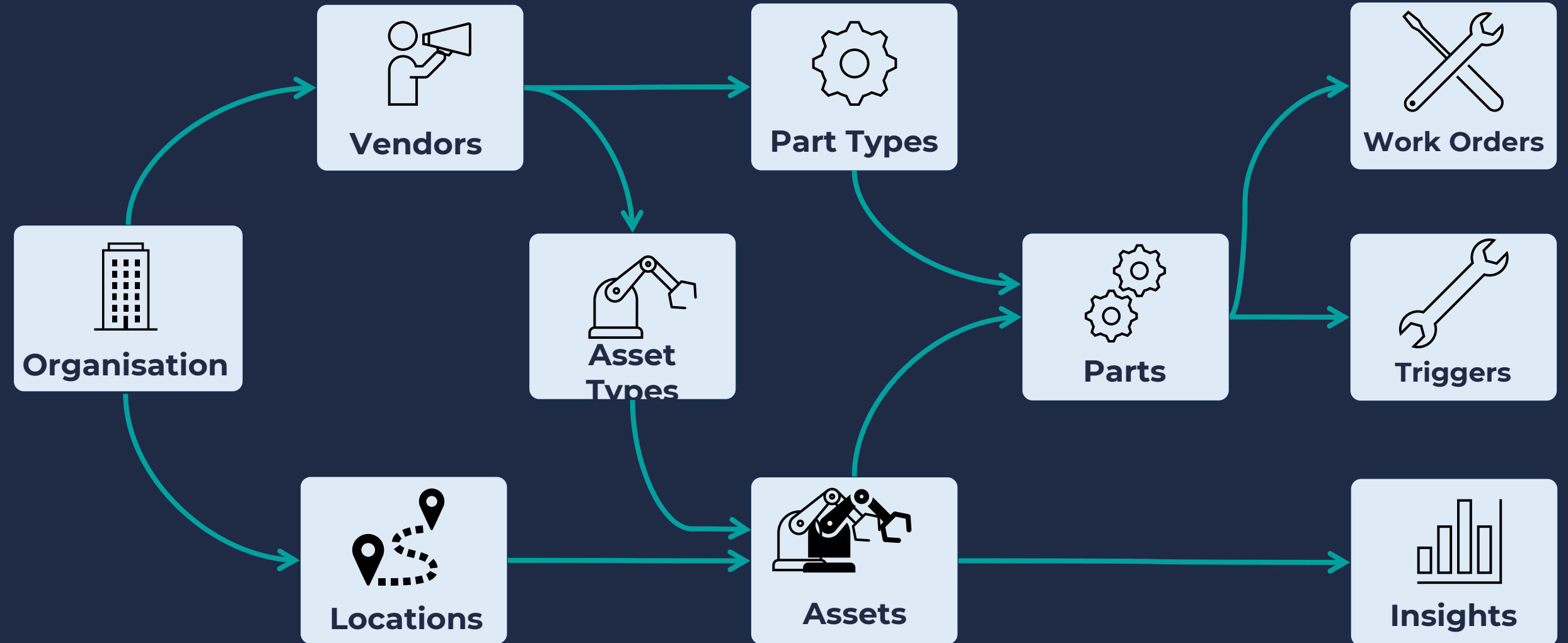




# CONNECTED DATA SOURCES



# POLARIKS CMMS





# CONFIGURE ASSETS & PARTS

Home

Insights

Batches

Maintenance

Users

Admin

Support

POLARIKS

99+

PS

Polariks Support

Home / Maintenance / Inventory / Assets / 65a68ca68842b3407ae35107

Asset detail ID 65a68ca68842b3407ae35107

INFORMATION

PARTS

Information

Serial number

CONV01

Asset Type

CON

Location

Pepperness

Date in use

16/01/2024

Delivery date


16/01/2024

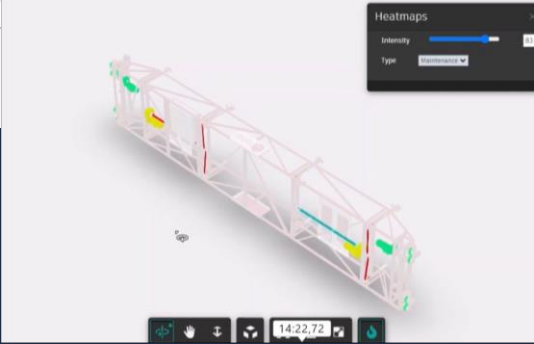
Warranty expiration date

17/01/2024

Model viewer

> COLLAPSE VIEW





Heatmaps

Intensity

Type Maintenance

3D models with IDs and labels attached to parts. Parts warehouse management light`. Heatmaps on alarms and on maintenance-

# INSIGHT PER ASSET





# EVENTS PER ASSET

Home / Events / Historical

## Historical events

Frequency based ▾

Last 30 days ▾

Date	Alarm	Notification	Info
05-10	0	0	0
06-10	40	0	0
07-10	10	0	0
08-10	150	0	0
09-10	20	0	0
10-10	220	0	0
11-10	10	0	0
12-10	5	0	0
13-10	30	0	0
14-10	15	0	0
15-10	210	0	0
16-10	20	0	0
17-10	50	0	0
18-10	5	0	0
19-10	15	0	0
20-10	370	0	0
21-10	5	0	0
22-10	20	0	0
23-10	100	0	0
24-10	100	0	0
25-10	10	0	0
26-10	40	0	0
27-10	25	0	0
28-10	30	0	0
29-10	15	0	0
30-10	10	0	0
31-10	210	0	0
01-11	110	0	0
02-11	110	0	0
03-11	40	0	0
04-11	0	0	0

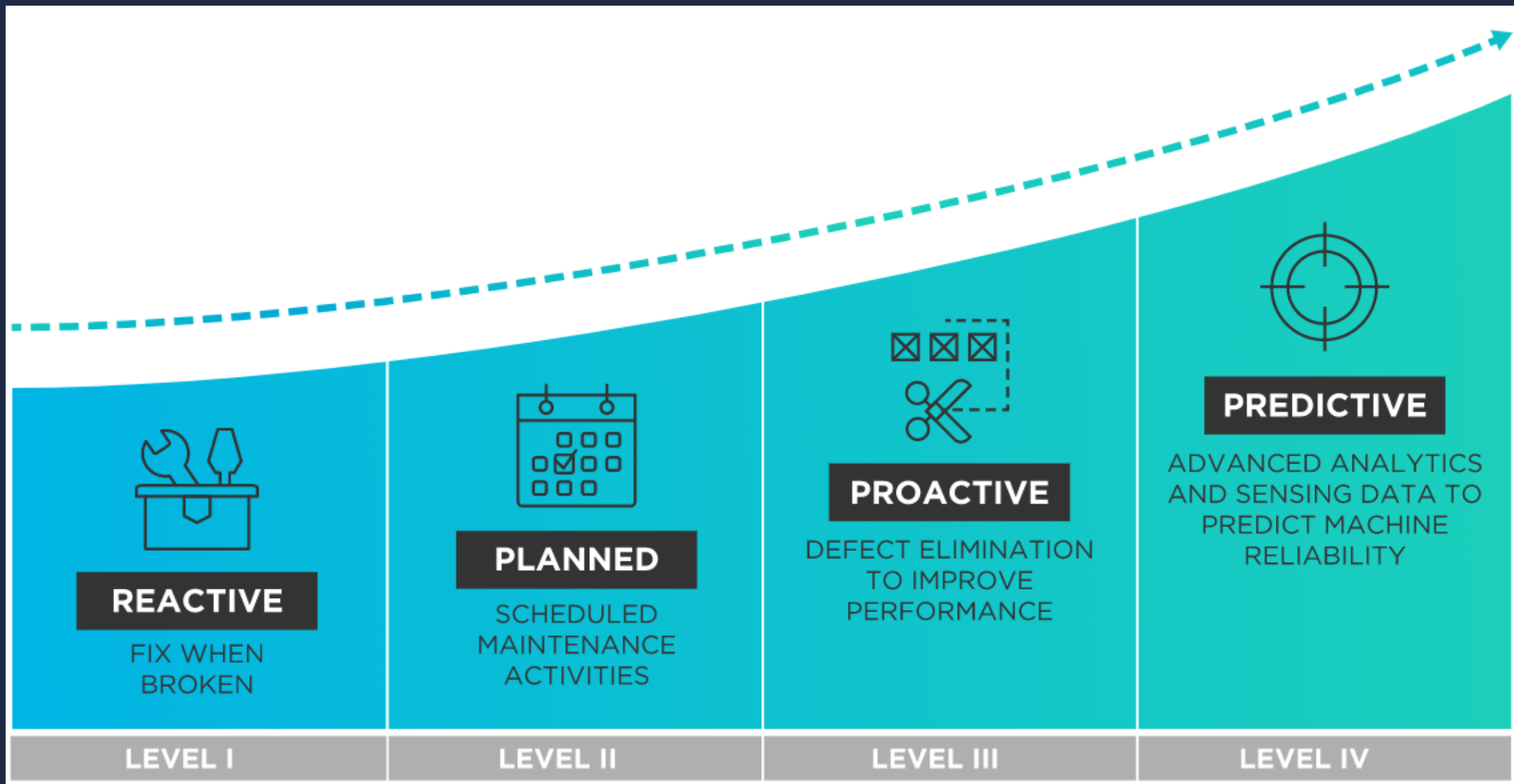
alarm
notification
info

DENSITY 1 FILTERS

Search...

Level ↓	Duration	Start Date	Stop Date	Message	Asset	Source ▼
Alarm	00:00:04	08/10/2024, 16:04:18	08/10/2024, 16:04:22	Start relay not active (press start on ELV panel)	GrowUp-ELV-1001	BosmanVanZaal_ELV_GrowUp
Alarm	00:00:24	08/10/2024, 16:04:...	08/10/2024, 16:05:...	ELV alarm 015	GrowUp-ELV-1002	BosmanVanZaal_ELV_GrowUp
Alarm	00:00:18	08/10/2024, 16:04:...	08/10/2024, 16:04:...	Start relay not active (press start on ELV panel)	GrowUp-ELV-1002	BosmanVanZaal_ELV_GrowUp
Alarm	01:03:44	08/10/2024, 16:06:25	08/10/2024, 17:10:09	ELV alarm 015	GrowUp-ELV-1001	BosmanVanZaal_ELV_GrowUp
Alarm	00:50:29	08/10/2024, 16:06:25	08/10/2024, 16:56:55	Start relay not active (press start on ELV panel)	GrowUp-ELV-1001	BosmanVanZaal_ELV_GrowUp
Alarm	00:00:10	08/10/2024, 16:06:...	08/10/2024, 16:07:06	ELV alarm 015	GrowUp-ELV-1002	BosmanVanZaal_ELV_GrowUp
Alarm	00:00:09	08/10/2024, 16:06:...	08/10/2024, 16:07:05	Start relay not active (press start on ELV panel)	GrowUp-ELV-1002	BosmanVanZaal_ELV_GrowUp
Alarm	00:00:49	08/10/2024, 16:48:35	08/10/2024, 16:49:24	DCU not switched on	GrowUp-ELV-1001	BosmanVanZaal_ELV_GrowUp
Alarm	00:05:52	08/10/2024, 16:54:10	08/10/2024, 17:00:...	Start relay not active (press start on ELV panel)	GrowUp-ELV-1003	BosmanVanZaal_ELV_GrowUp
Alarm	00:00:01	08/10/2024, 16:54:26	08/10/2024, 16:54:28	Start relay not active (press start on ELV panel)	GrowUp-ELV-1004	BosmanVanZaal_ELV_GrowUp
Alarm	00:00:40	08/10/2024, 16:54:28	08/10/2024, 16:55:08	Phase detection: Power supply not OK	GrowUp-ELV-1004	BosmanVanZaal_ELV_GrowUp
Alarm	00:00:40	08/10/2024, 16:54:28	08/10/2024, 16:55:08	Start relay not active (press start on ELV panel)	GrowUp-ELV-1004	BosmanVanZaal_ELV_GrowUp
Alarm	00:04:41	08/10/2024, 16:54:54	08/10/2024, 16:59:36	Start relay not active (press start on ELV panel)	GrowUp-ELV-1002	BosmanVanZaal_ELV_GrowUp
Alarm	00:00:00	08/10/2024, 16:56:55	08/10/2024, 16:56:55	Phase detection: Power supply not OK	GrowUp-ELV-1001	BosmanVanZaal_ELV_GrowUp

# WORK ORDER LEVELS





# WORK ORDER TRIGGERS

POLARIKS

PS

Polariks Support

Home

Insights

Maintenance

Users

Admin

Support

Title

1065\_147\_01\_CFR - Visual inspection template

Description

This template triggers a work order to perform a visual inspection

Trigger

Type

Schedule

Value

4

Unit of time

weeks

Work order Payload

Work order Title

1065\_147\_01\_CFR - Visual inspection

Assigned to

Description

\*Do a visual inspection of the machine. Before inspection, the following steps should be undertaken:  
1) Automatic systems should be switched off to ensure that no container will arrive at the workplace.  
2) The main air supply must be shut off main line ball valve must be marked as closed.

Tasks:

- Check the electric cables for damage

Estimated duration

15

Estimated duration format

minutes

Priority

Low

Subjects

1065\_147\_01\_CFR

CANCEL

# WORK ORDER LOGBOOK

POLARIKS

Home

Insights

Batches

Maintenance

Users

Admin

Support

Dark Mode

ADD WORK ORDER

Daniel Deimann

Home / Maintenance / Work orders / Work orders

Work orders

DENSITY FILTERS

Priority	Title	Status	Created at	Due date	Estimated duration	Assigned to	Subject ID's	Parts	Asset
Low	ELV1001 - Visual inspection template	Completed	26/04/2024 15:40:00		1 Hours	support@polariks.com	Machine	6638bee8330e2...	662260793362b9...
Low	ELV1002 - Visual inspection template	Completed	26/04/2024 15:40:00		1 Hours	support@polariks.com	Machine		662260a46c563e...
Low	ELV1001 - Lubricate bearing template	Completed	26/04/2024 15:40:00		1 Hours	support@polariks.com	Machine	6638bee8330e2...	662260793362b9...
Low	ELV1002 - Lubricate bearing template	Completed	26/04/2024 15:40:00		1 Hours	support@polariks.com	Machine		662260a46c563e...
Low	CFR 0132216-01 - Visual inspection tem...	Completed	26/04/2024 15:40:01		1 Hours	support@polariks.com	Machine		662262516c563e...
Low	CFR 0132216-02 - Visual inspection tem...	Completed	26/04/2024 15:40:01		1 Hours	support@polariks.com	Machine		6622628b6c563e...
Low	HAV 1301573-01 - Host Chain template	Completed	26/04/2024 15:40:01		1 Hours	support@polariks.com	Machine		662261e83362b9...
Low	ELV1001 - Visual inspection template	Completed	03/05/2024 15:40:00		1 Hours	support@polariks.com	Machine	6638bee8330e2...	662260793362b9...
Low	ELV1002 - Visual inspection template	Completed	03/05/2024 15:40:00		1 Hours	support@polariks.com	Machine		662260a46c563e...
Low	ELV1001 - Lubricate bearing template	Completed	03/05/2024 15:40:00		1 Hours	support@polariks.com	Machine	6638bee8330e2...	662260793362b9...
Low	ELV1002 - Lubricate bearing template	Completed	03/05/2024 15:40:00		1 Hours	support@polariks.com	Machine		662260a46c563e...
Low	CFR 0132216-01 - Visual inspection tem...	Completed	03/05/2024 15:40:00		1 Hours	support@polariks.com	Machine		662262516c563e...
Low	CFR 0132216-02 - Visual inspection tem...	Completed	03/05/2024 15:40:00		1 Hours	support@polariks.com	Machine		6622628b6c563e...
Low	HAV 1301573-01 - Host Chain template	Completed	03/05/2024 15:40:01		1 Hours	support@polariks.com	Machine		662261e83362b9...
Low	ELV1001 - Lubricate bearing	To do	06/05/2024 11:42:03	09/05/2024 00:00:00	1 Hours	support@polariks.com	Elevator	6638bee8330e2...	662260793362b9...
Low	CFR 0132216-01 - Visual inspection	Planned	06/05/2024 11:45:40	09/05/2024 00:00:00	1 Hours	support@polariks.com	Conveyor Frame		662262516c563e...
Low	HAV 1301573-01 - Host Chain	On hold	06/05/2024 11:46:33	09/05/2024 00:00:00	1 Hours	support@polariks.com	Harvester		662261e83362b9...

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# CMMS **PAINS**



Low priority at project start



Inconsistent data



Resistance from providers



High costs for data access



Lack of (tech) knowledge



Time-consuming processes



# CMMS **GAINS**



**One platform**



**CO<sub>2</sub> footprint calculation**



**Detect capacity bottlenecks**



**Fewer maintenance stops**



**Quick troubleshooting**



**Alarm analysis per machine**

# CMMS **BOUNDARY SPANNING**



**Communication with ERP**



**Scheduling of maintenance**



**Coordination between providers**



**Unified insights**



**Maintenance parts resources**



**Improved asset management**



# THANK YOU!

Empowered by

**NXT  
GEN**  
hightech

 **POLARIKS**