

## Brochure

Industrial IoT solution for  
industrial machines

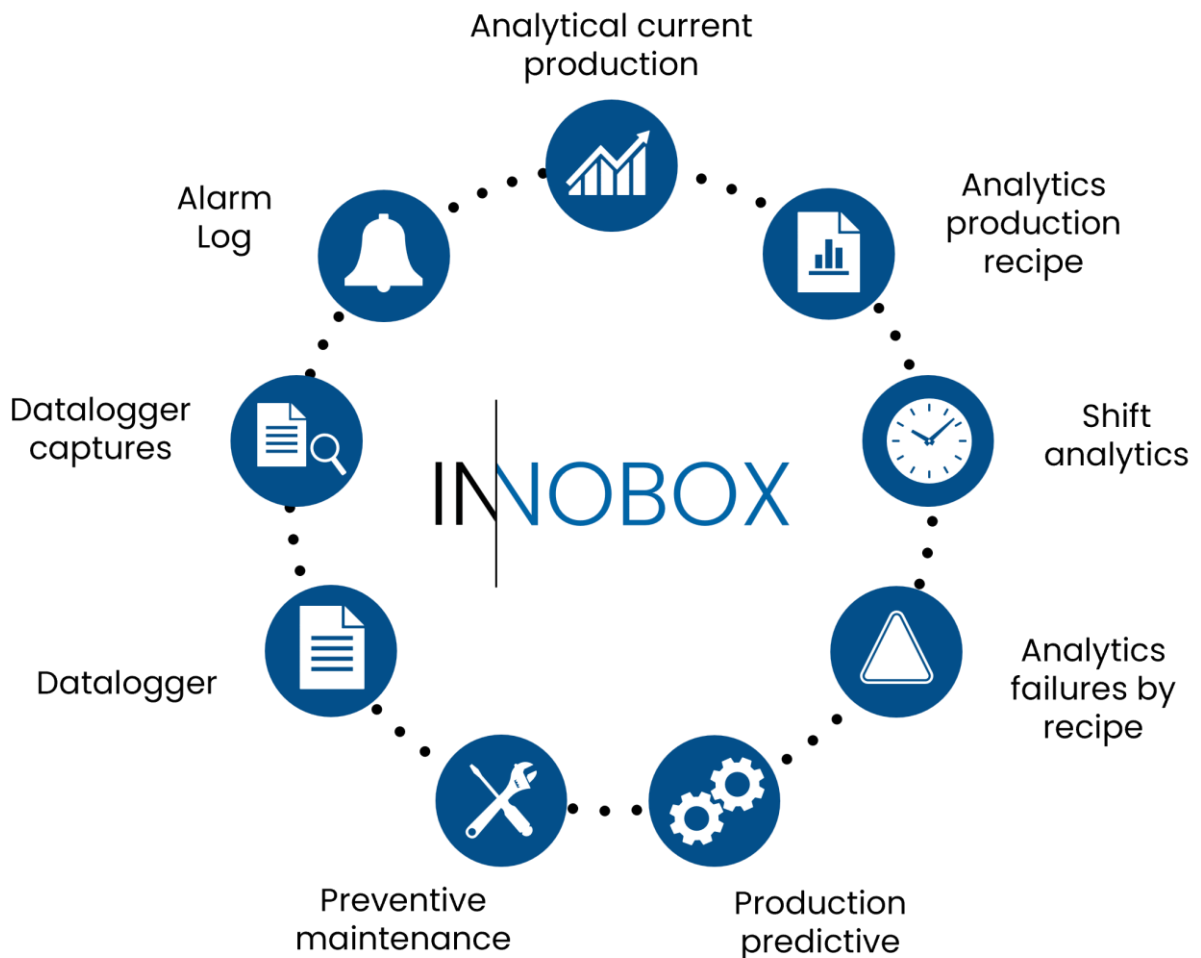
INNOBOX

# Do you know the condition of your machines?

- Are you producing over-specs?
- Which shift is the most efficient?
- How long did it take to react to a shutdown?
- Which alarms affect the most?
- What is your consumption for each product, shift or recipe?

If you don't know the answer to these questions it's time to use our **INDUSTRIAL IOT SOLUTION FOR INDUSTRIAL MACHINES.**

INNOBOX simplifies the collection, analysis and exploitation of industrial machine data, both at the machine and remotely, in an easy and non-intrusive way with control devices.



## Why Innobox?



**Non-intrusive system with PLC control.**



Analysis and exploitation of data **without the need for an internet connection.**



**Multiprotocolo PLC,** Ethernet/IP, Allen Bradley, Modbus, OPC UA, SIEMENS, OMRON, etc.



**24/7, 365 days autonomous vigilance system.**



**Reduced operating costs,** due to optimised processes.



Reduced downtime and **increased productivity.**

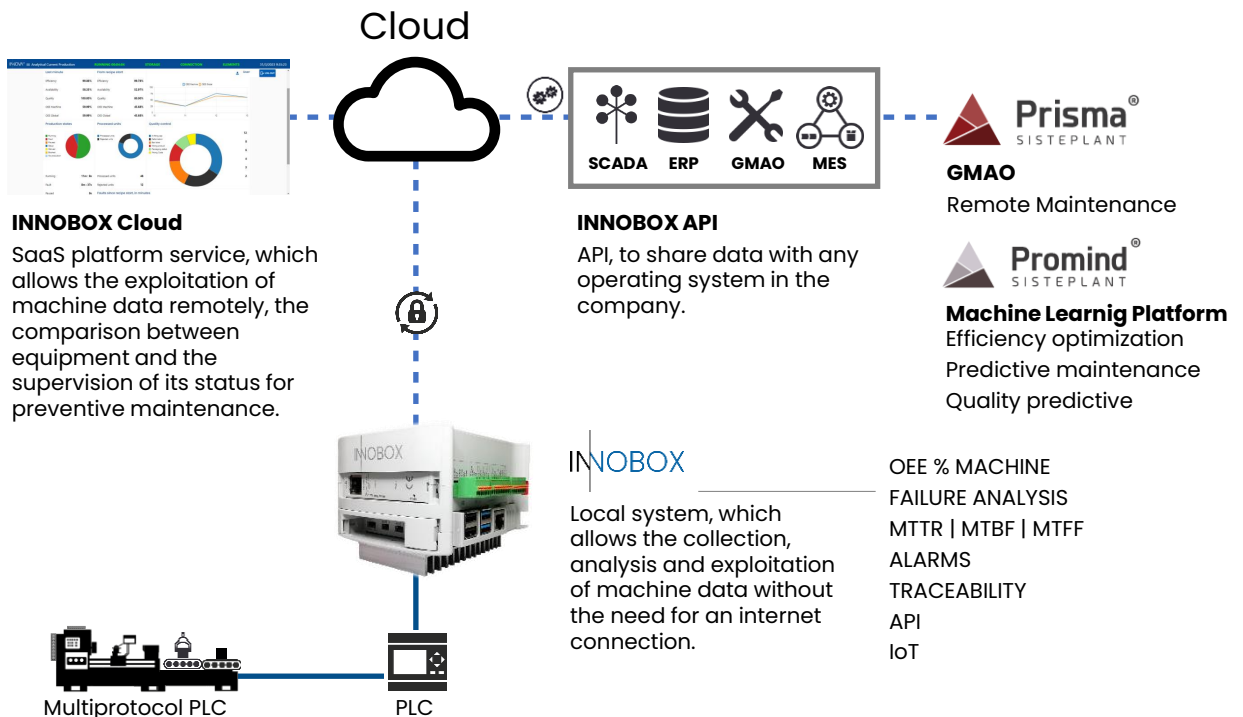


**Can be integrated with customer operating systems** ERP, MES, GMAO, SCADA's, BI.



**Multi-user solution.**

**VPN FUNCTIONALITY** Integrated into the device allowing remote connection to the INNOBOX to securely update, support or debug the system.



# One-click data



## Analytical current production

Production data for current production:

- Machine and line OEE
- Efficiency, Availability, Quality
- Type of units produced
- Recipe status (time)
- Machine faults (status time)



## Analytics production recipe

Historical production data by recipe to be filtered by recipe name or date.

- Productivity data
- Details of production statuses
- Efficiency, Availability, Quality
- Counter and typology of units produced



## Shift analytics

Data divided according to work shifts (morning, afternoon and evening). It can also be filtered by date to obtain data such as:

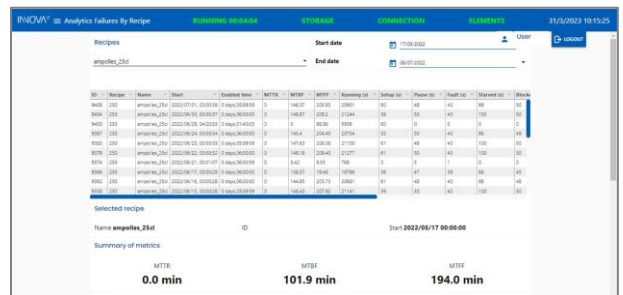
- OEE of machine and line.
- MTTR | MTBF
- Counter and type of units produced
- Machine status (time)



## Analysis failure by recipe

Logging of machine faults and corrective times, to be filtered by time interval and recipe:

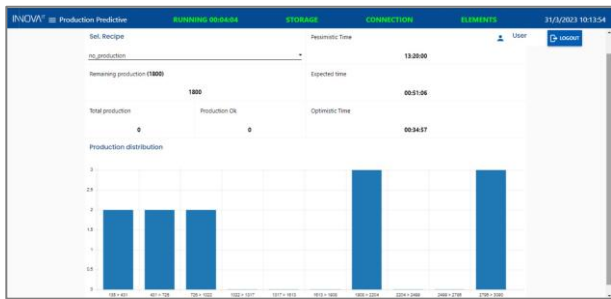
- MTTR |MTBF| MTFE.
- List of machine faults
- Indicator of the type of shutdown: internal/external
- Machine status (time)
- Record of number of faults.



# One-click data

## Production Predictive

Production predictive time tool based on analysis of historical record distribution and quality, for current or selected recipe.



## Preventive maintenance

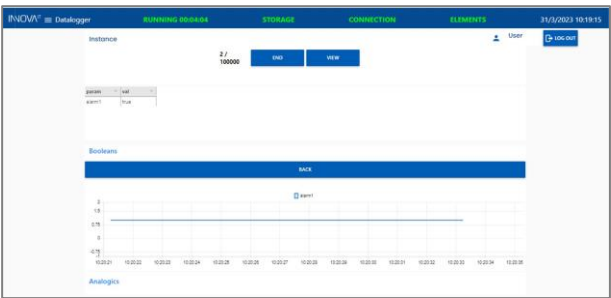
List of machine elements with elapsed value and lifetime value of this element, as well as the maintenance task to be performed and control of these values.

The screenshot shows the 'Preventive Maintenance' interface with a table of machine elements. The table columns include Name, Variable, New Type, Action, Elapsed Time, Remaining, Life Time, and Task. Below the table, there are sections for 'Register' and 'Request value'.

Name	Variable	New Type	Action	Elapsed Time	Remaining	Life Time	Task
Hydroxyma E112	12_2017	Time	0	0	1000000	1000000	Program
Hydroxyma E121	12_2017	Time	1	0	1000000	1000000	Program
Motor K112	12_2017	Time	1	0	1000000	1000000	Program
Control E141	12_2017	Time	1	0	1000000	1000000	Program
Hydroxyma E121	12_2018	Time	1	0	1000000	1000000	Program
Control E121	12_2018	Time	1	1000000	0	1000000	Program
Hydroxyma E121	12_2019	Time	1	0	1000000	1000000	Program
Control E121	12_2019	Time	1	1000000	0	1000000	Program
Hydroxyma E121	12_2020	Time	1	0	1000000	1000000	Program
Control E121	12_2020	Time	1	1000000	0	1000000	Program

## Datalogger

Real-time data logging for monitoring and correlating process variables. Allows in-depth analysis of a process, based on event-driven monitoring of signals and timers.



## Datalogger captures

Historical record of datalogger captures. Allows download as csv or delete.

The screenshot shows the 'Datalogger Captures' interface with a table of historical data captures. The table columns include ID, Name, Date, Time, User, and Value. Below the table, there are buttons for 'Filter', 'Download', and 'Delete'.

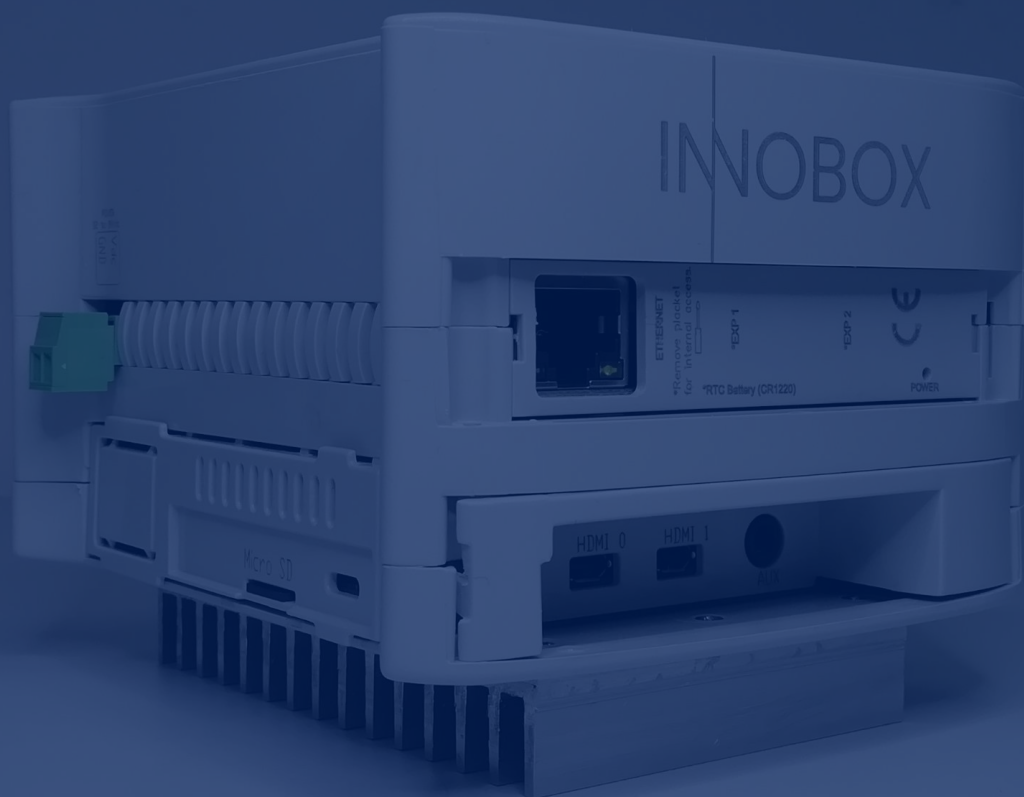
ID	Name	Date	Time	User	Value
14	Alarm1	2022-02-01	21:39:59	Admin	1
15	Alarm1	2022-02-01	21:40:00	Admin	1
16	Alarm1	2022-02-01	21:40:01	Admin	1
17	Alarm1	2022-02-01	21:40:02	Admin	1
18	Alarm1	2022-02-01	21:40:03	Admin	1
19	Alarm1	2022-02-01	21:40:04	Admin	1
20	Alarm1	2022-02-01	21:40:05	Admin	1
21	Alarm1	2022-02-01	21:40:06	Admin	1
22	Alarm1	2022-02-01	21:40:07	Admin	1

## Alarm log

Logging of alarms and errors for preventive maintenance that can be filtered by date.

The screenshot shows the 'Alarm Log' interface. It includes a 'Start date' and 'End date' filter, and two tables: 'Preventive maintenance alarm log' and 'Preventive Maintenance Error Log'.

ID	Type	Name	Connector type	Elapsed value	Value of life	Date
40	alarm	Control E11	Control	1000000	1000000	2022-02-01 21:37:59
41	alarm	Control E12	Control	1000000	1000000	2022-02-01 21:38:00
42	alarm	Control E13	Control	1000000	1000000	2022-02-01 21:38:01
43	alarm	Control E14	Control	1000000	1000000	2022-02-01 21:38:02
44	alarm	Control E15	Control	1000000	1000000	2022-02-01 21:38:03
45	alarm	Control E16	Control	1000000	1000000	2022-02-01 21:38:04
46	alarm	Control E17	Control	1000000	1000000	2022-02-01 21:38:05
47	alarm	Control E18	Control	1000000	1000000	2022-02-01 21:38:06
48	alarm	Control E19	Control	1000000	1000000	2022-02-01 21:38:07
49	alarm	Control E20	Control	1000000	1000000	2022-02-01 21:38:08



# INNOBOX

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