

LET'S DATA DRIVE YOUR IMPROVING PERFORMANCE PATH







Navigator was born from the market's need to **maximize** the efficiency of the production cycle and **minimize** energy costs.

Through the use of sensors, Navigator collects signals from the production lines. Once collected, the signals are sent to the cloud processing system. Navigator gives production teams access to real-time monitoring audits of energy, plant performance, and long-term data analysis by website or by mobile application.

The use of international standards for measuring energy and production performance guarantees immediate feedback to allow the user to evaluate the best optimization strategies. Navigator is the smart solution for monitoring energy and production performance in any plant industry (wine, olive oil, canned goods, etc).

OVERVIEW

INTUITIVE MAIN DASHBOARD

PRODUCTION ORDER MANAGEMENT FOR LOTS, PRODUCTS, & CUSTOMERS

BATCH PERFORMANCE

ENERGY PERFORMANCE

KEY PERFORMANCE INDICATORS (KPI)

OVERALL EQUIPMENT EFFECTIVENESS (OEE)

EASY INSTALLATION & CONFIGURATION



MOBILE APP



INTUITIVE MAIN DASHBOARD

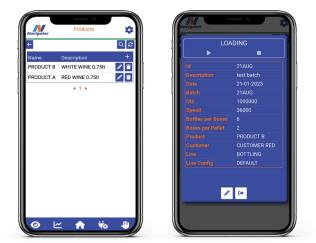
Our easily accessible and intuitive main dashboard highlights the key features of any lot's production performance. This includes plant live, current performance, and OEE overview.

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PRODUCTION ORDER MANAGEMENT

Order management system with the possibility to create customized articles and configure their production characteristics. Reports will be produced for each article created.







BATCH PERFORMANCE

View the performance for the current batch, complete with timing details related to the estimated date/time of completion (ETA), percentage complete, and OEE recap.

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ENERGY PERFORMANCE

In depth display of energy consumption data on a daily, monthly, and yearly basis through production trends and stand-by phases.

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	Energy	Performanc	е	
Stack running + S	Stop + IDLE (%)			
100				
90 -				
80				
70				
60				
50				
40				



KEY PERFORMANCE INDICATORS (KPI)

Key Performance Indicators (KPIs) are quantifiable indicators of progress toward an intended result. KPIs provide a focus for strategic and operational improvement by focusing on specific targets.

NAVIGATOR KPIs:

QUALITYAVAILABILITY PERFORMANCE

Quality is a fundamental parameter to understand the impact of waste and non-conforming products in the production process.

The increase in **performance** implies a reduction in energy consumption and greater output.

Plant availability is an immediate value for understanding the impact of unplanned stops on a production process.

THE SYSTEM PROVIDES THE FOLLOWING KPIS:

ENERGY USAGE DURING BATCH EXECUTION

ENERGY WASTE DURING NON-PRODUCTIVE PHASES DUE TO LACK OF SCHEDULING

UNPLANNED STOP TRENDS

IDLE TRENDS

DETAILED BATCH DATA

GENERAL SYSTEM PERFORMANCE

ENERGY COST INDEX + LOAD FACTOR

AVERAGE MINIMUM DEMAND

EMISSION GENERATED

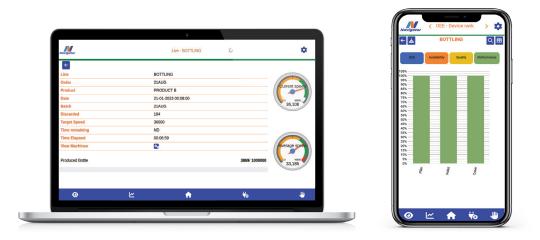




OVERALL EQUIPMENT EFFECTIVENESS (OEE)

OEE (Overall Equipment Effectiveness) is the gold standard for measuring manufacturing productivity.

It identifies the percentage of manufacturing time that is productive. An OEE score of 100% means you are manufacturing only Good Parts, as fast as possible, with no Stop Time. This ensures 100% Quality (Good Parts), 100% Performance (As Fast As Possible), and 100% Availability (No Stop Time).



EASY INSTALLATION & CONFIGURATION

Navigator is easy to install and can be configured to your liking. With a click of a button, you can customize the way you monitor your plant.

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Macchine	Linee	+ 2
01 Filler	Linea1	✓
02 Caser	Filler Pal	
03 Pallet		
04 dev4	Salva Annulla	
05 dev5		
06 dev6		



MOBILE APP

Navigator is downloadable for mobile devices (phone, tablet, etc.) so you can monitor production lines at any time, place, or day!

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	Machine	Count	Duration	Category	Detail	4
	Caser	1611	18:29:25.929	ND	ND	
	Filler	1606	18:09:54.126	ND	ND	
	Pallet	1597	18:42:44.581	ND	ND	
	Filler	4	00:01:41.000	Breakdown	Chain failure	
	Caser	3	00:01:18.000	Material lack	Caps lack	
	Filler	3	00:01:16.000	Material lack	Bottles lack	
	Pallet	3	00:00:18.444	Breakdown	Engine failure	
	Pallet	3	00:01:20.000	Material lack	Bottles lack	
	Caser	2	00:00:52.000	Breakdown	Chain failure	
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Machir	ne Count	Duration	Category	
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Filler	1605	18:09:29.126	ND	
Pallet	1596	18:42:18.581	ND	
Filler	4	00:01:41.000	Breakdown	II –
Caser	3	00:01:18.000	Material lack	
Filler	3	00:01:16.000	Material lack	
Pallet	3	00:00:18.444	Breakdown	
Pallet	3	00:01:20.000	Material lack	
Caser	2	00:00:52.000	Breakdown	
Caser	2	00:03:36.692	Material lack	
Filler	2	00:00:29.429	Breakdown	
Filler	2	00:00:28.145	Maintenance	
Pallet	2	00:00:53.000	Maintenance	
Caser	1	00:00:02.450	Breakdown	
Caser	1	00:00:25.000		
Caser	1	00:00:26.000	Maintenance	
Filler	1	00:00:26.000	Material lack	
Pallet	1	00:00:26.000	Breakdown	
Pallet	1	00:00:04.637	Maintenance	



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