

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** 



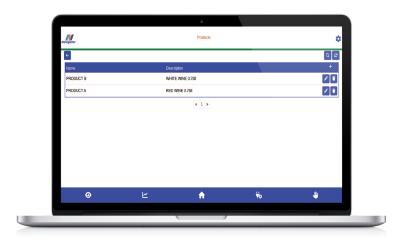
## INTUITIVE MAIN DASHBOARD

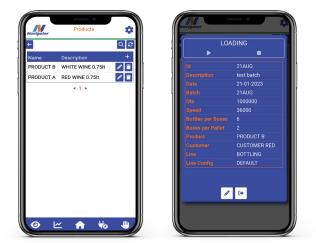
Our easily accessible and intuitive main dashboard highlights the key features of any lot's production performance. This includes plant live, current performance, and OEE overview.

	j'i 🛛					
Data management	Live Control			ũ		
		Nerrigater		Batches		\$
		÷				Q 8
E		Id	Date	Line	Slatus	+
Statistics		21AUG	21-01-2023	BOTTLING	¢	<b>e</b>
Statistics		Test order	10-01-2023	BOTTLING	μ	0
		21/07/23	21-07-2023	BOTTLING	P	0
		25/07/23	25-07-2023	BOTTLING	10	<b>Ø</b>
		31/07/23	31-07-2023	BOTTLING	q	<ul> <li>Image: A start of the start of</li></ul>
		23003	18-07-2023	BOTTLING	μ	<b>Ø</b>
		24/07/23	24-07-2023	BOTTLING	μ	<b>e</b>
		08/08/23	08-08-2023	BOTTLING	p	<b>Ø</b>
		23005	18-07-2023	BOTTLING	q	0
		22024	10.07.0000	DOTD NO		
		0	٢	<b>A</b>	Ψo	

## **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.

		1 20110	ne					Id	21AUG
ne	BOTTLING							Description	test batch
der	21AUG	1						Date	
oduct	PRODUCT B	0%	25%	50%	75%	100%	1	Batch	014110
ite	21-01-2023 00:08:00						- 1		21AUG
itch scarded	21AUG 16	11						Qta	1000000
rget Speed	36000	Plann	ed producti	on	Schee	dule Loss		Speed	36000
me remaining	ND	ume						Bottles per	
me Elapsed	00:00:31			1				Boxes	6
ew Machines	<b>≎</b> ₀			-				Boxes per	2
		0%	25%	50%	75%	100%		Pallet	
oduced Bottle	314/ 1000000							Product	PRODUCT B 🔻 🧻
		Run T	ime		Availab	ility Loss		Customer	CUSTOMER RED -
								Line	BOTTLING -
Current speed	Average speep	0%	25%	50%	75%	100%		Line	BOT TLING *
6 4600	4400		20.0		,				
	35.985								D 🔋 🖬
Current speet	verage speer	0%	25%	50%	75%	100%		Line	

## **ENERGY PERFORMANCE**

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

		٩		
	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** 

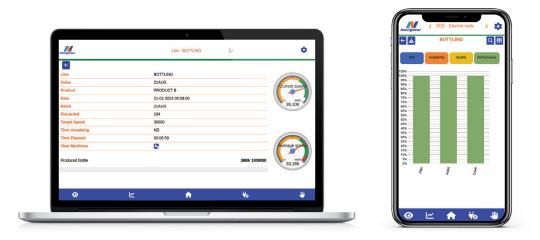




# **OVERALL EQUIPMENT EFFECTIVENESS (OEE)**

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.

	₽.	
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!

Navig	<b>V</b> <			Detail Table		> 🌣
	· 🕹					Q
	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	
	0		<u>۲</u>	<b>A</b>	Ψo	



-				
				Ν.
	< 1	Detail Table	> 🏚	M
vigator				li –
1			Q	
Machir	ne Count	Duration	Category	
Caser	1610	18:28:59.929	ND	
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	



2226 Northpoint Parkway

Santa Rosa CA 95407

(707) 757-7734

sales@navigatorscada.com

navigatorscada.com