

NAPA's leading digital solutions for the maritime industry help shipowners and operators maximize the benefits of wind-assisted propulsion through:



#### **SIMULATION**

Estimate benefits when considering the installation



#### **OPTIMIZATION**

Find the most efficient route and speed when operating the vessel



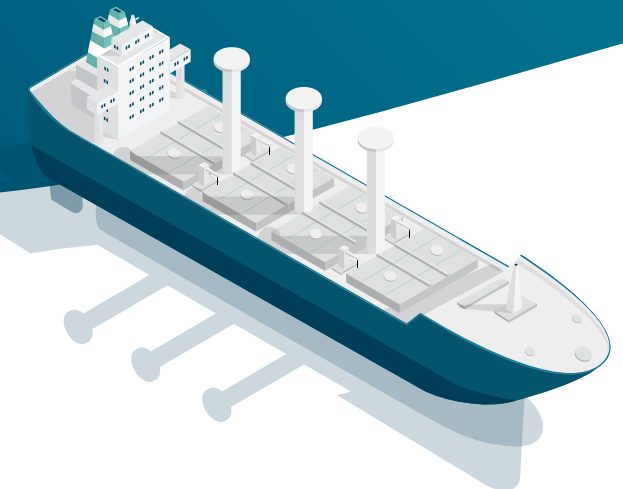
#### **VALIDATION**

Measure the impact of realized installations

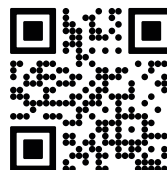


UNLOCK THE FULL POTENTIAL OF

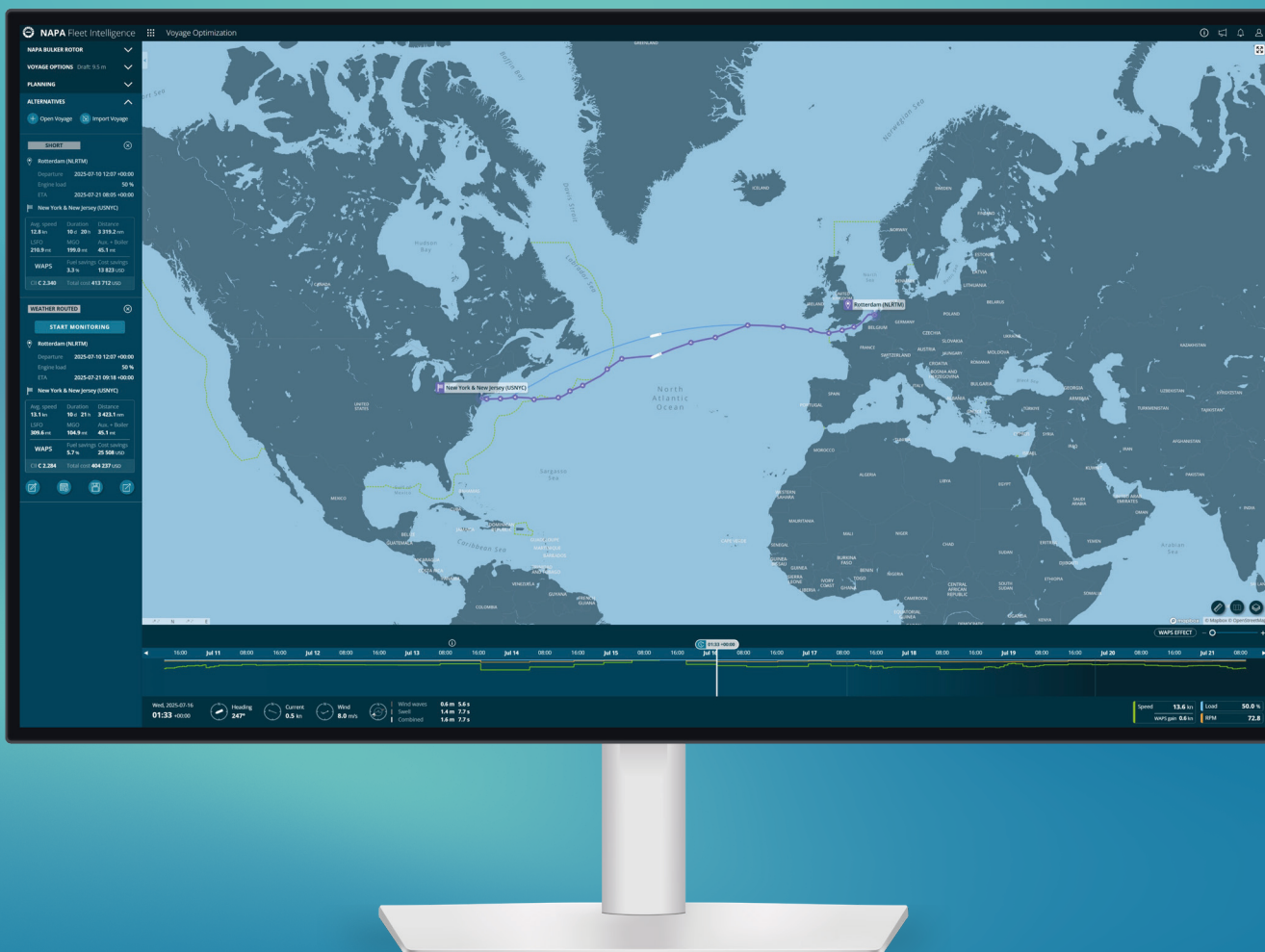
## Wind-Assisted Propulsion with NAPA



EXPLORE MORE



Data-driven insights.  
Proven results.  
Smarter voyages.



## NAPA's Solutions for Wind-Assisted Ships



### PRE-INSTALLATION SIMULATION:

Estimate the potential fuel savings from wind-assisted propulsion before installation based on real operational conditions (weather, draft, routes).



### OPERATIONAL ROUTE OPTIMIZATION:

Optimize voyage planning and execution with NAPA Voyage Optimization by determining the optimal route and speed for every voyage, maximizing fuel savings.



### POST-INSTALLATION PERFORMANCE VALIDATION:

Evaluate the real-world performance of installed sails by comparing actual fuel consumption with simulated fuel consumption (without sails).