# From the "brig"\* to the autonomous ship

# Infocentric Operations of Ships

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Prisma Electronics

LAROS - Marine Operations





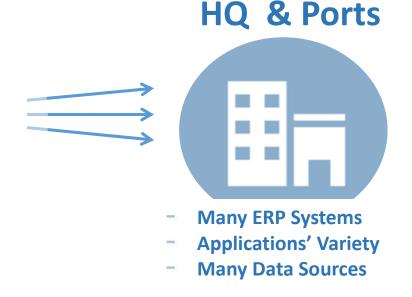


#### Through Information Intelligence.

# Ships at Sea

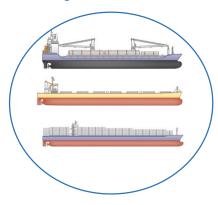
#### **Unreliable Ship Data**

Because of Multiple
System/Sensor Suppliers
Application Providers
Solution Integrators

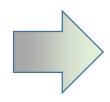




#### **Ships at Sea**



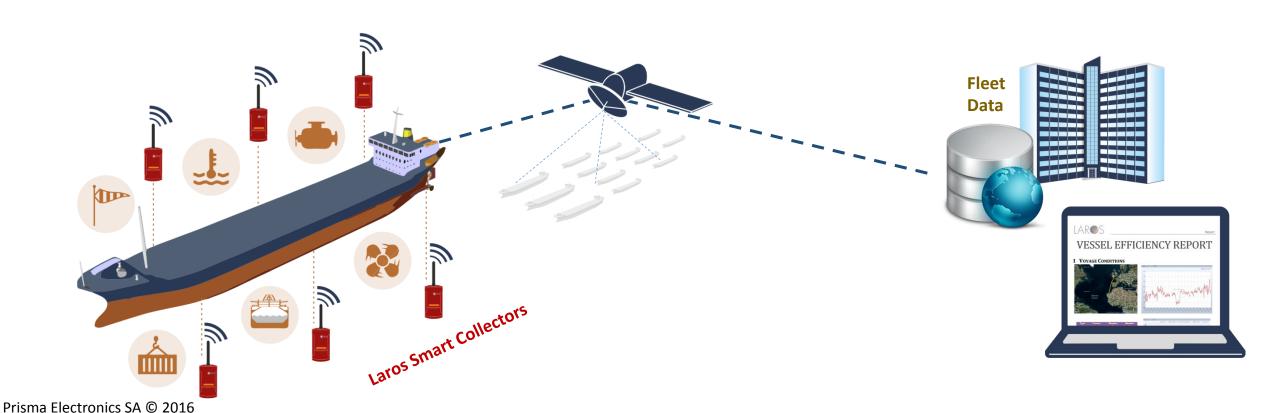
No longer viable to manage ships through disconnected platforms driven by unreliable data from ship legacy systems



New approach is needed for managing ships and operations based on <u>one</u> interconnected system driven by *reliable data* 



LAROS includes all the actions a maritime enterprise should take, to establish an effective information driven decision management model.

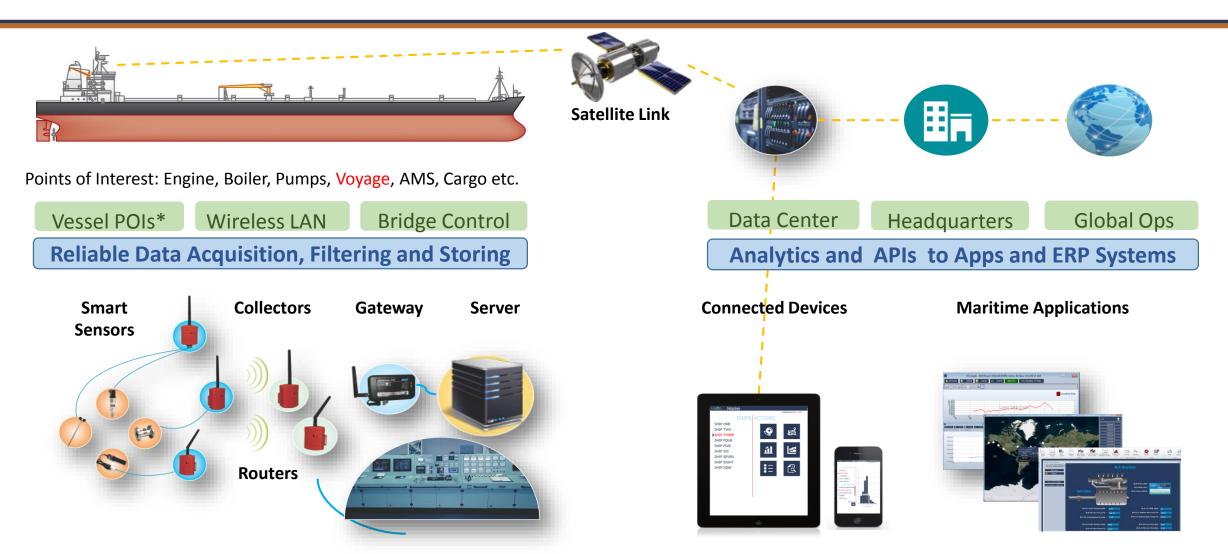




✓ The ability to utilize data to obtain actionable knowledge, predictions and insights allows for continuous process improvements and optimal performance throughout the lifetime of assets.





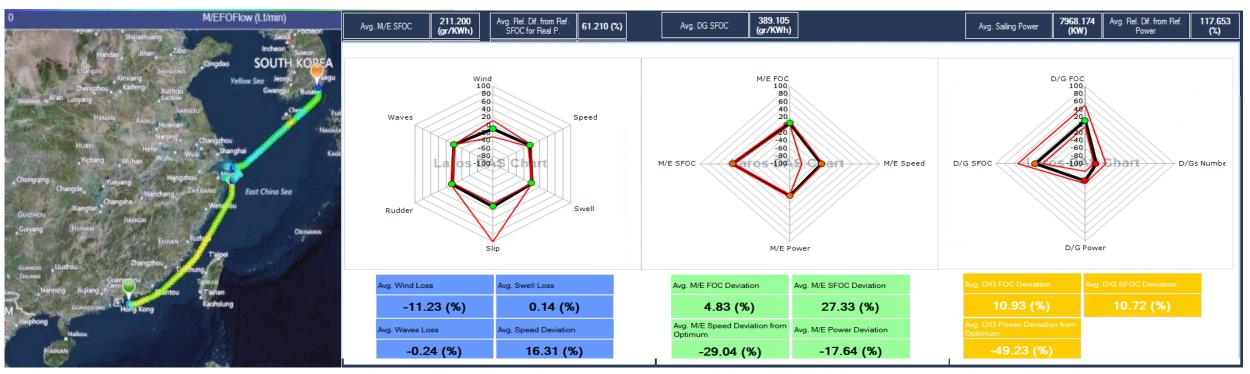


✓ Improving Monitoring – collaboration– Performance - Compliance

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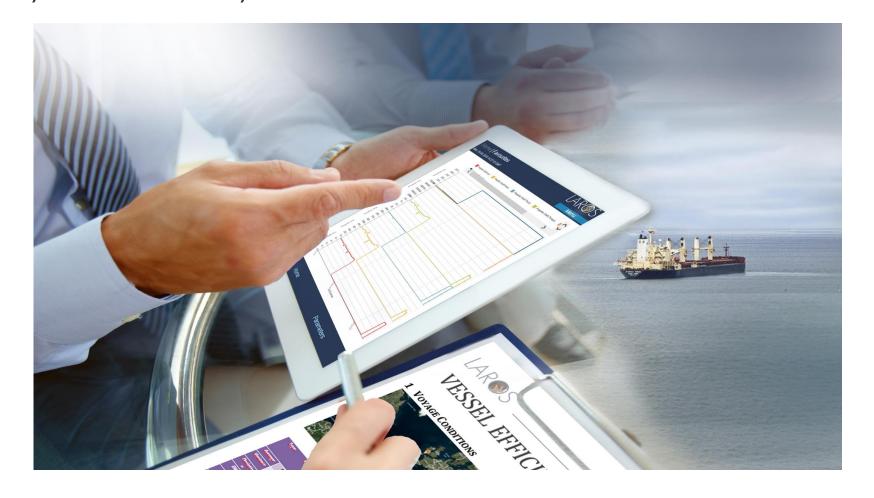


A new level of possibility to analyze and monitor situations, critical operations, adverse conditions and to increase performance awareness.





# Access Anywhere Anytime





10



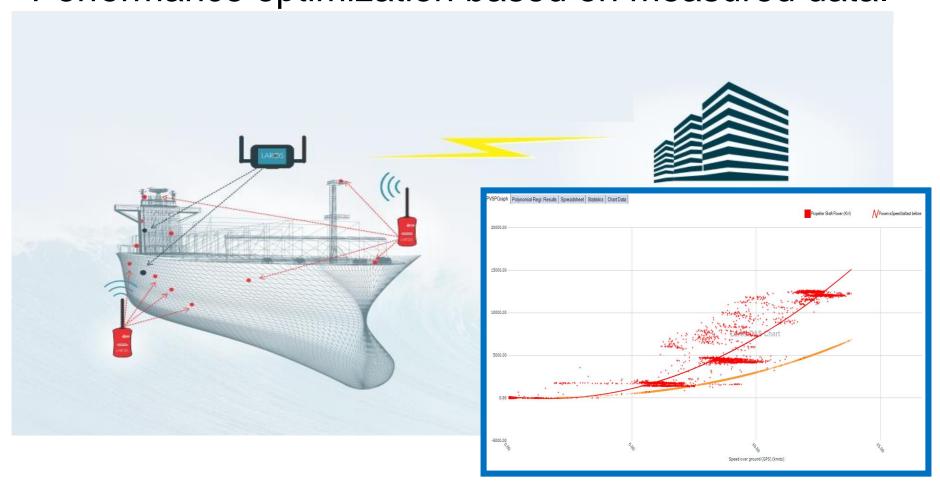
## Why is LAROS Innovative

- ✓ The only platform in the Industry, based on wireless network onboard
- ✓ The only one offering Open Data directly from the source.
- ✓ The first end to end Data Analysis System created to meet specifically the Industry's needs
- ✓ The only platform that works on any type of vessel, new or old
- ✓ Compatibility with any interface inside vessels.
- ✓ Easy to install configure expand.

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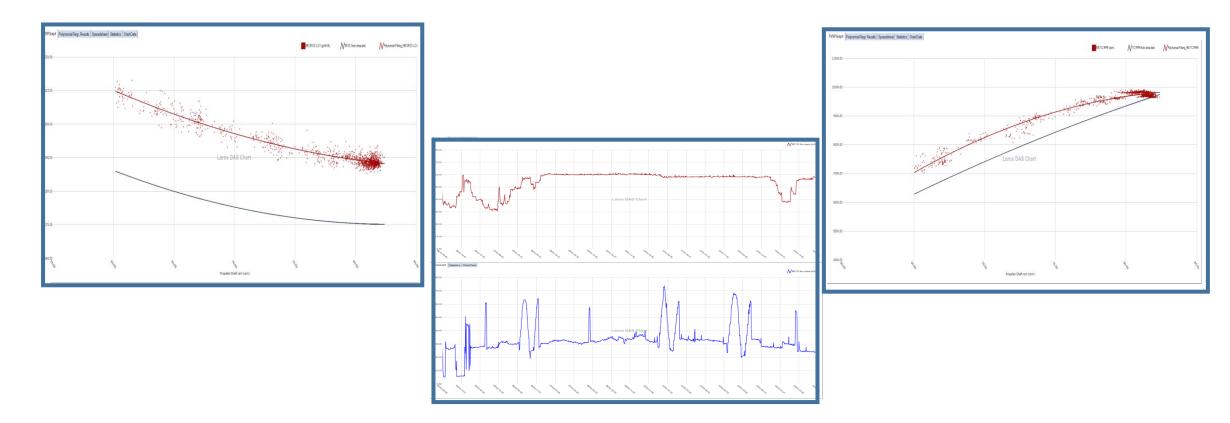


Performance optimization based on measured data.



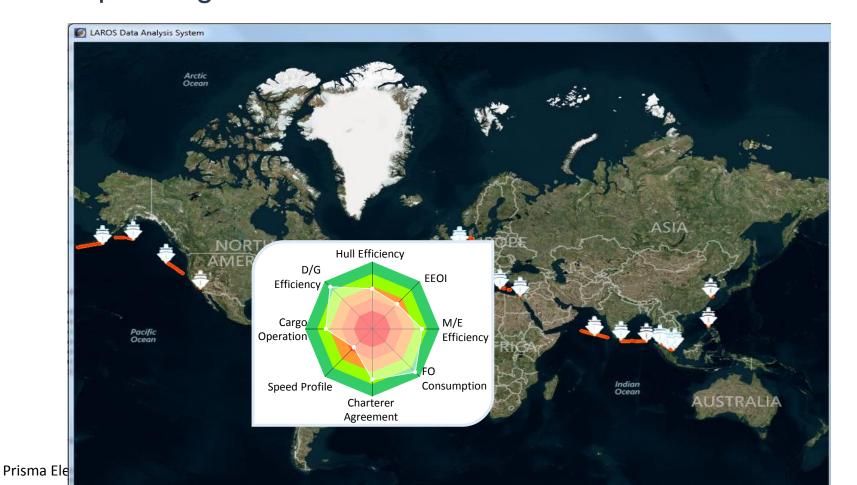


Real operation is a cornerstone for optimizing the **fuel efficiency** and **technical maintenance** of the vessel and its systems.



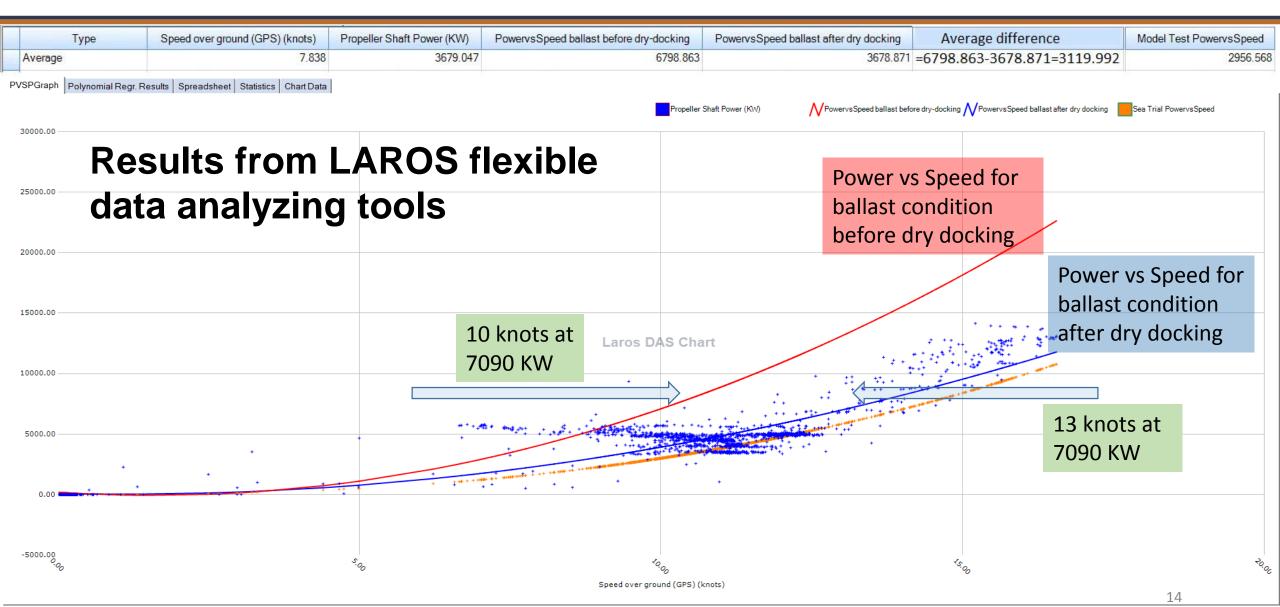


LAROS system provides full knowledge of how the complete fleet, down to vessel, down to system down to single parameter really performs in actual operating conditions.



The simplest and most efficient way to perform your daily control.



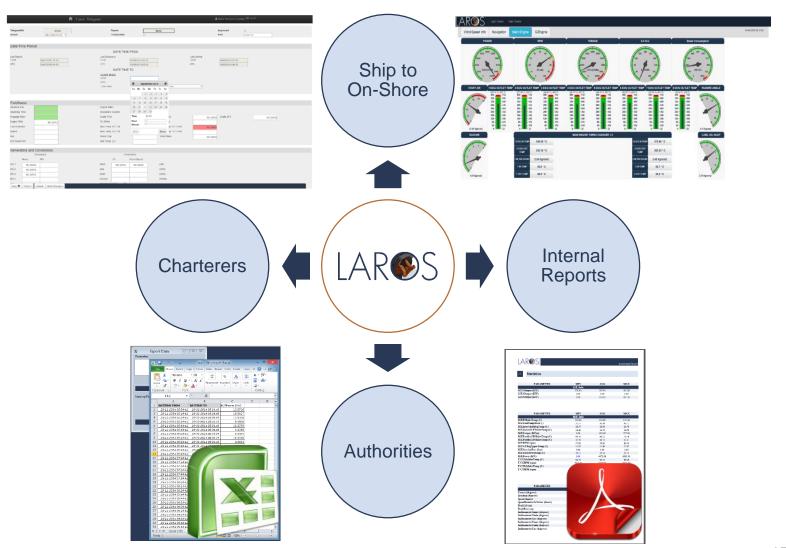




## Data Sharing

LAROS enable you define the

- ✓ type and
- ✓ format of the collecting and sharing information, internally and externally (charterers, authorities, etc.)



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#### **266.547 TEU Containers**



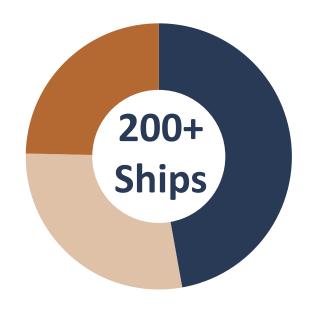
**6.239.487 DWT Tankers** 



3.772.836 DWT Dry Bulk



Proven and Mature Solution



Bulk Carriers

■ Tankers

■ Container Ships





Saving **96.360** man-hours annually of data analysis

Providing Information every 1h, instead of 24h





### The System that works Today for Forthcoming Needs

- MRV (Monitoring & Reporting)
- Environmental Challenges (SEEMP, EEDI, EEOI, CO<sub>2</sub>...)
- Compliance (IMO, EU, Ports...)
- Better Performance
- Better Efficiency
- Increased Safety
- Improved Planning
- Building a Unique Fleet Ecosystem

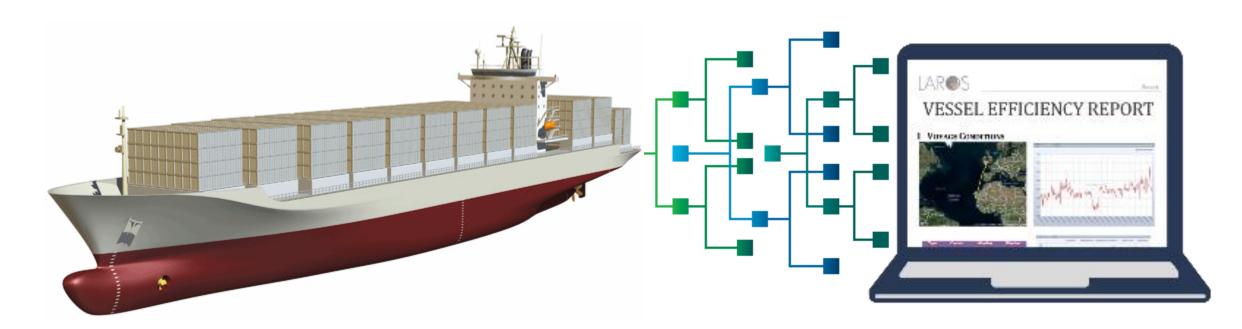
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MRV dictates "monitoring plans" to be issued and reported by shipping companies

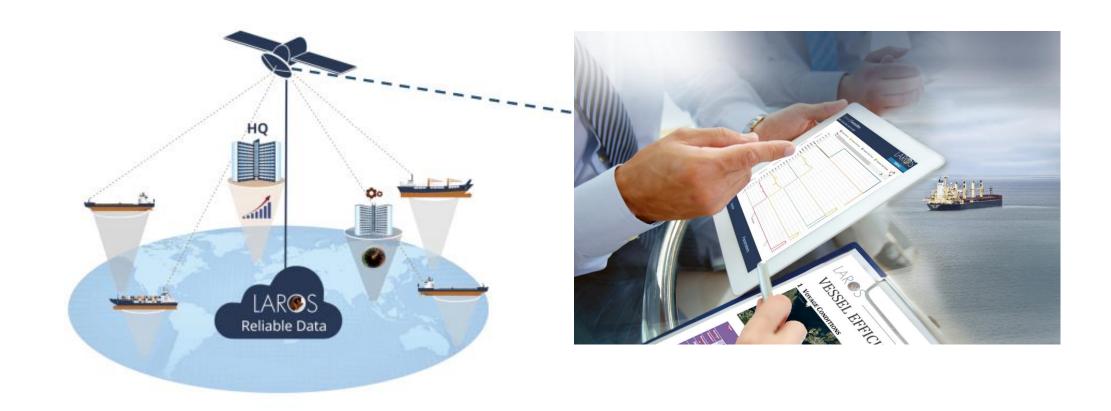
**SEEMP** will become a demanding document and more accountable on improving vessel performance





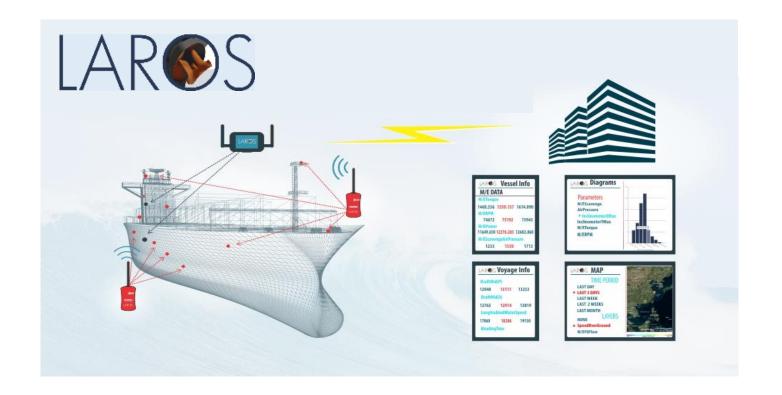


#### LAROS system today answer future demands





LAROS system provides now the future of the "Infocentric Operation of Ships", and boosts all other means of fleet management





# Proven Technology and Benefits

#### Prisma Electronics

- 25 years of R&D experience
- Technology-based Corporate Products and Services
- Technical Achievement 2015 Lloyd's List Shipping Awards
- Gold Award from CERN
- Certified by TUV HELLAS with ISO EN 9001:2008
- Certified by Hellenic Ministry of Defence





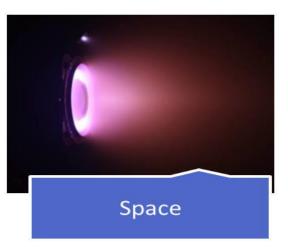


**LLOYDS 2015** 



CERN CMS GOLD AWARD





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# Infocentric Ship Operations

Thank You



