MTIS

Sensing the Power of Digitalization

About Us

MTIS is a 100% Greek company and one of the most fastest growing and experienced maritime solutions providers globally. Its development strategy has been to integrate shipping expertise, modern management principles and the latest IoT technology, into an easily adaptable and user-friendly Digital Platform, whilst maintaining Hardware, Vendor and System Software independence. It is our goal to constantly bring to the market we serve, new developments in cutting-edge technologies and advances in such areas as business applications.

Whether you are the shipowner or ship manager, a performance department head focused on the measurements, a Chief Technology Officer or a Chief Security Officer — your stakeholders are counting on you.

So, find your purpose! Perhaps you want to increase vessel efficiency and minimize cost, create measurable business value, or to put the Security at the center of your business model. Regardless of your initiatives, you are heading in a world of continuous change where it is not always easy to do the right thing.

Are you produce enormous results quickly and efficiently or fail to yield the highest return?

Are you optimizing business outcomes with analytical insights or tending to fall victim to the traditional performance measurement pitfalls that have plagued the shipping business for decades?

Are you building a secure, data-driven corporation or creating a tyranny of metrics?

MTIS i-Platform© paves the way for the next generation and show you how to lead with purpose in an ambiguous world!

Favoring abundance over scarcity

MTIS

i-Platform©

- All In One digital platform with 360-degree approach in operation management
- End to End Secured IoT Connectivity & Big data processing in an understandable manner
- Customer-centric Interactive reports & Business intelligence
- Real-time informed decisions and recommendations
- Configurable Alerts & KPIs
- Data driven Predictive analysis and intelligent advices
- Advanced Collaboration
- Low TCO & Fast ROI

01 Fleet Performance Monitoring

02 Remote Electronic Monitoring

03 Vessel Emission Monitoring

04 Integrated communication

05 End to End Security for Maritime 4.0

IMO carbon intensity indicator (CII) regulation due to come into force in 2023

Applying to cruise, cargo and RoPax vessels of 5,000 GT and above, the CII regulation will see ships rated from A to E based on their AER performance

Shipping is facing a race against time to reduce its carbon footprint in line with IMO targets

Environmental compliance is a priority for capital providers, who generally place great importance on the ESG performance of their portfolios

Class societies prioritize support for decarbonization

Vessel Emission Monitoring

Shipping is facing a pressure to overcome vessel performance challenges and reduce emissions

Efficiency drive fueling remote monitoring boom

Shipping benefit from UAV and Real-time ship emissions compliance measuring systems

Monitoring the gas emission is a very challenging task because the fields where the vessels are located are usually inaccessible and the gas dispersion is very susceptible to the surrounding environment

Vessels graded A or B will be offered incentives and while C is enough to achieve compliance, D and E ratings will require corrective action

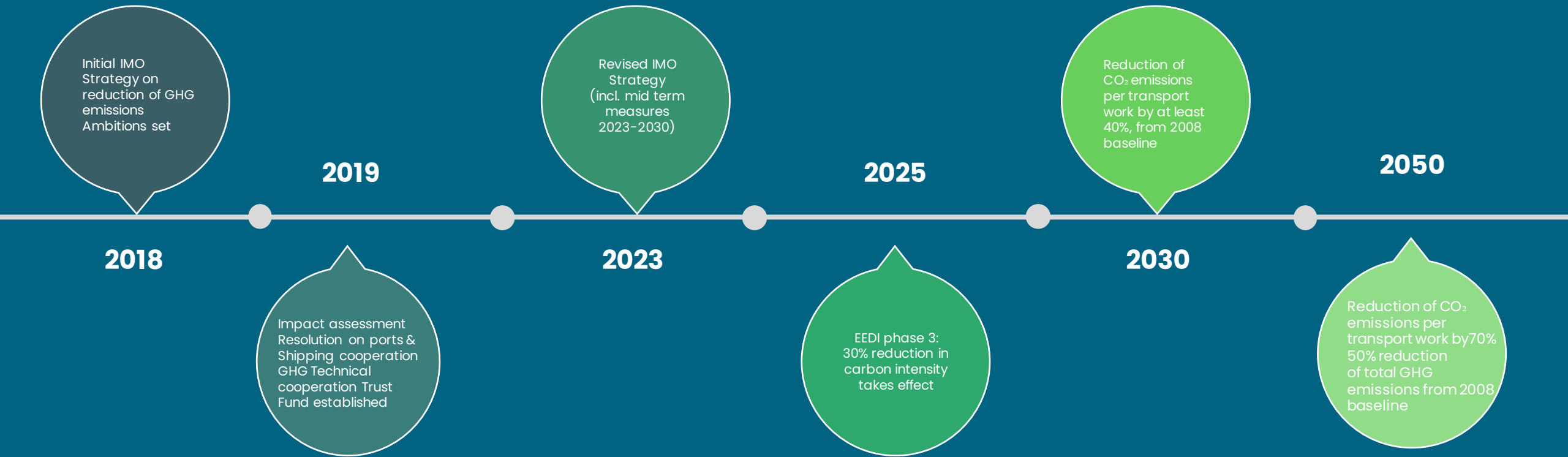MTIS bets big on maritime digitalization and decarbonization

Decarbonization can be achieved wile protecting shipowner's competitiveness

Is undisputable that, as a planet, we need to cut Greenhouse Gas emissions. However, the IMO target of reducing CO_2 emissions by 2050 by at least 50% is a big challenge. There is a plethora of new ideas in the market, but the way forward is not clear yet. That is why we cannot "cherry pick" ideas but need to follow a robust and reliable technology of monitoring and confirming compliance with industry's regulations.

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IMO Timetable to Reduce GHG Emissions

Initial IMO Strategy on reduction of GHG emissions Ambitions set

2018

2019

Impact assessment Resolution on ports & Shipping cooperation GHG Technical cooperation Trust Fund established

Revised IMO Strategy (incl. mid term measures 2023-2030)

2023

2025

EEDI phase 3: 30% reduction in carbon intensity takes effect

Reduction of CO_2 emissions per transport work by at least 40%, from 2008 baseline

2030

2050

Reduction of CO_2 emissions per transport work by 70% 50% reduction of total GHG emissions from 2008 baseline

"2030 is tomorrow, 2050 is one ship lifetime away"

How Can MTIS Help?

THE DRIVE TO DECARBONISE

▪ To support the industry's decarbonization transition, MTIS i-Patform will now enable users to access real-time monitoring of their fleet's CII-related performance and simulate vessel CII ratings. The software allows operators to reduce emissions and improve revenue with an interconnected Carbon Intensity Indicator analysis, ensuring they have the full picture for their fleet's operations.
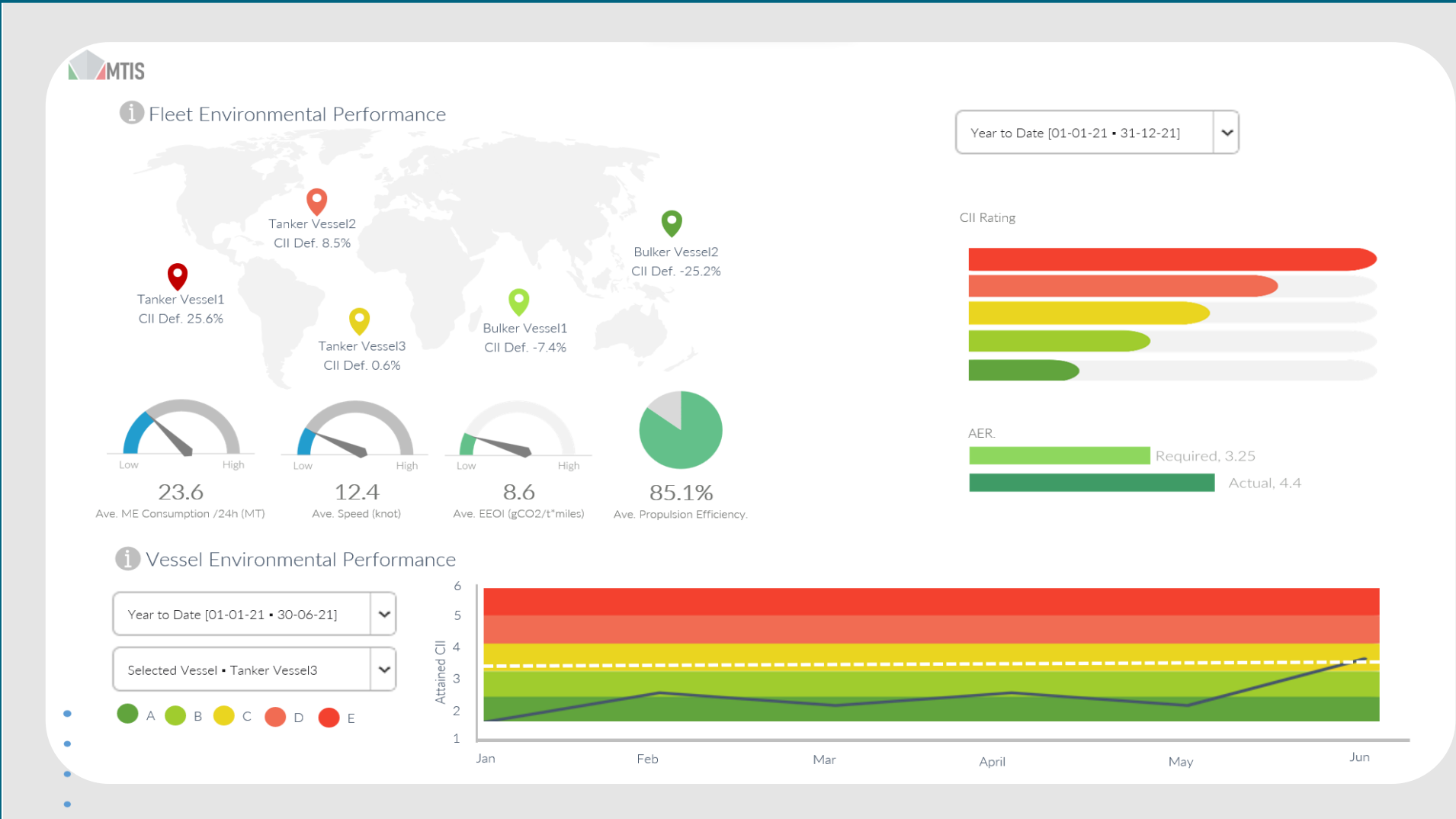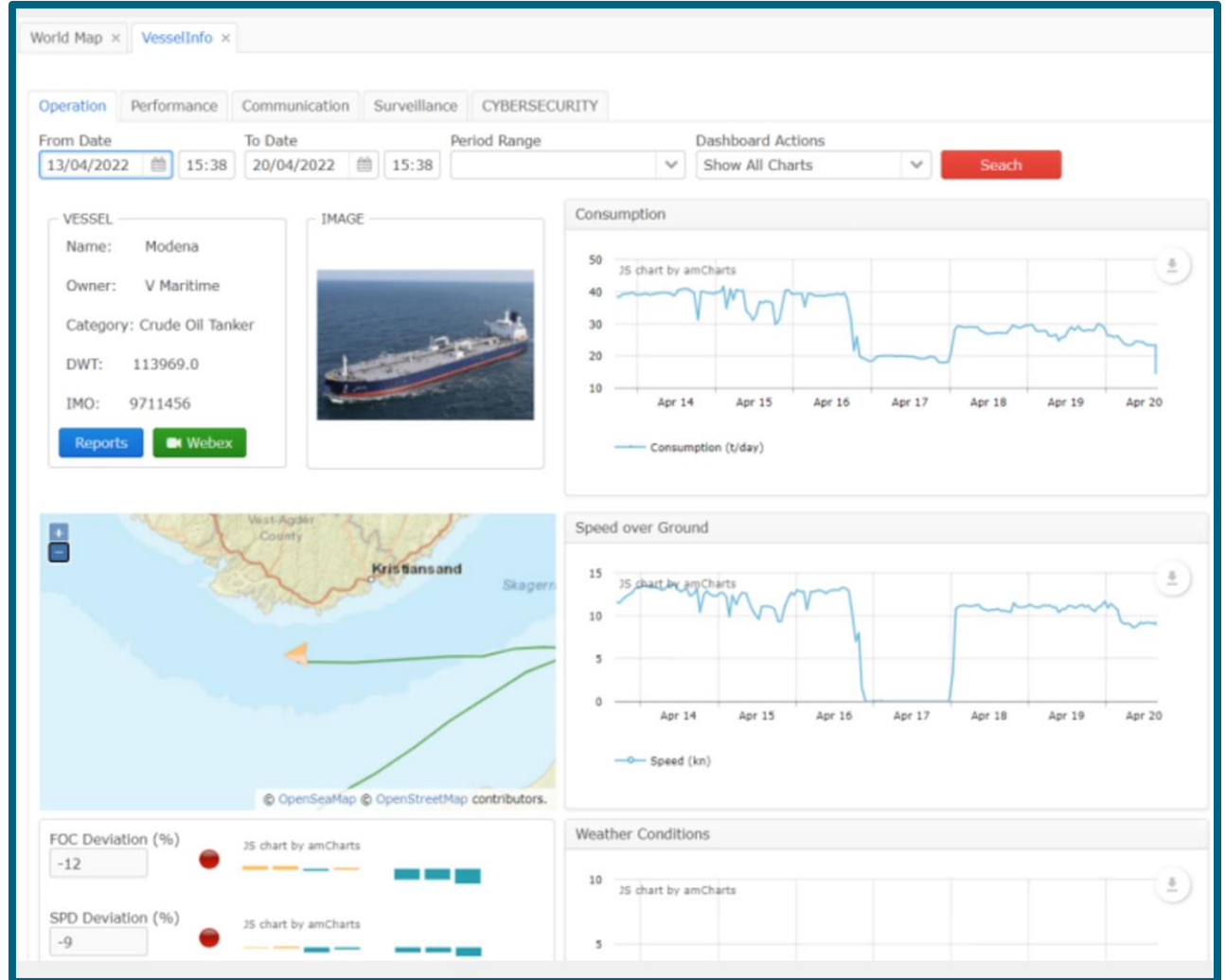
TECHNOLOGY ALIGNMENT

Clarity on calculations and decision making

$$CII = \frac{\text{Annual fuel consumption} \cdot CO_2 \text{ factor}}{\text{Annual distance traveled} \cdot DWT} \cdot \text{Correction factor}$$

$$AER = \frac{\text{Annual } CO_2 \text{ Emission}}{\text{Annual distance traveled} \cdot DWT}$$

What's Next?

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Better together: ALTUS LSA + MTIS

Maritime vessel emission monitoring by an UAV-based gas sensor system
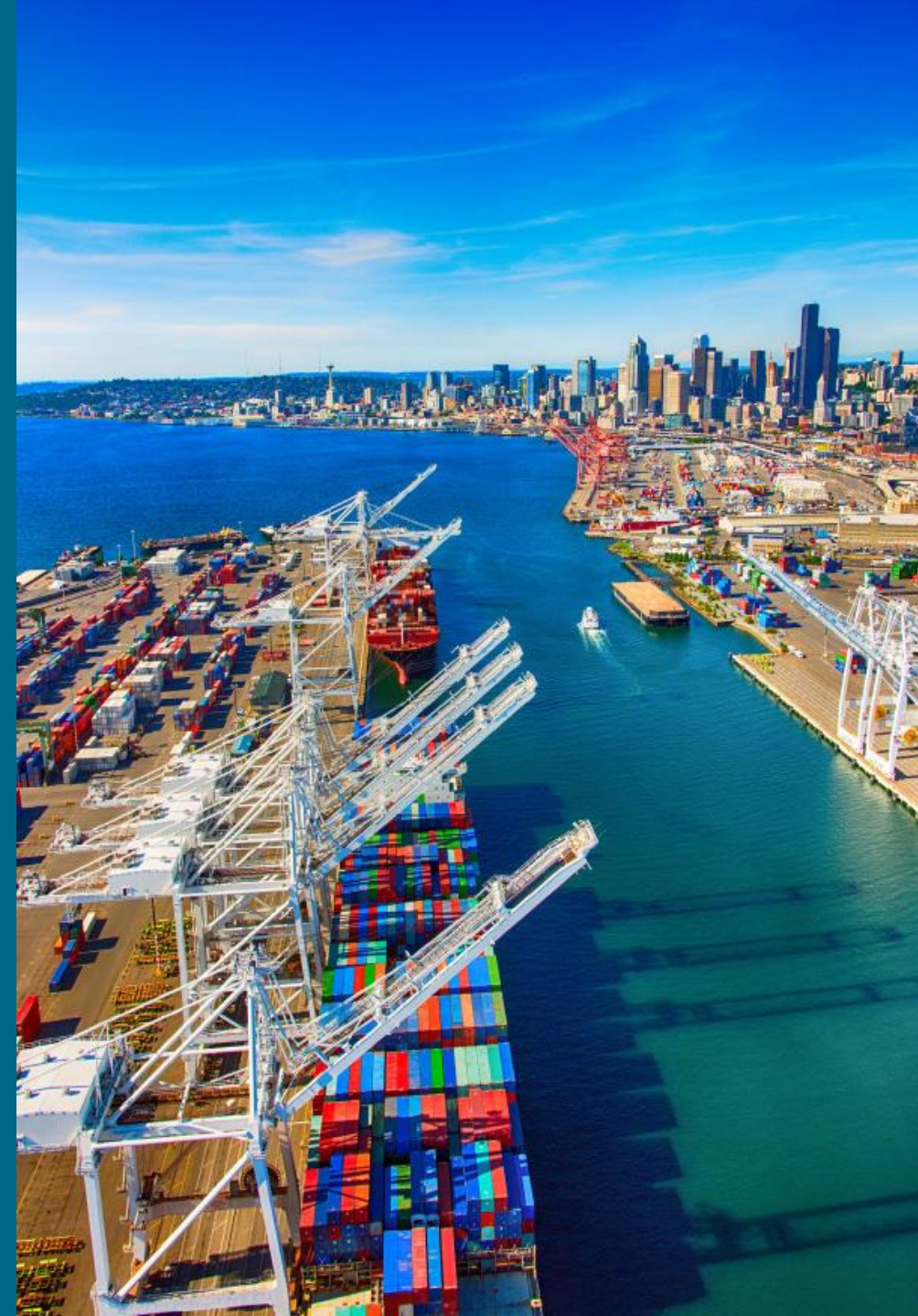
The scale of the challenge to cut carbon emissions in the shipping industry requires urgent action on many fronts. This is the basis for our new project and the designed solution will cover factors such as automatic CII calculation, real-time monitoring, and reporting capability according to the regulatory requirements. The urgency is clear, and we enable the industry we serve to reach its decarbonization objectives through advanced technology and insightful data. The cutting-edge UAV-based sensor sniffing method by ALTUS LSA and MTIS advanced monitoring and analytical tools can play a critical role in underpinning the solutions needed to tackle the most pressing challenges amongst shipping companies – from gas emissions' and ESG performance monitoring and enforcement for conservation, to uncovering useful, data-led insight in an effort to decarbonize energy and transport.
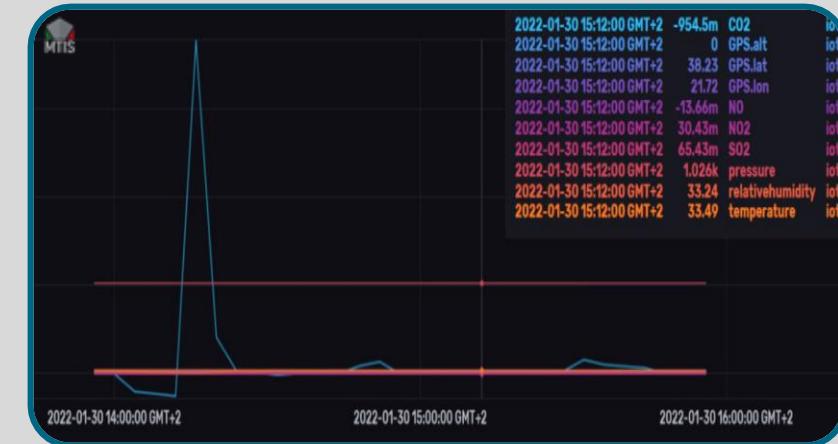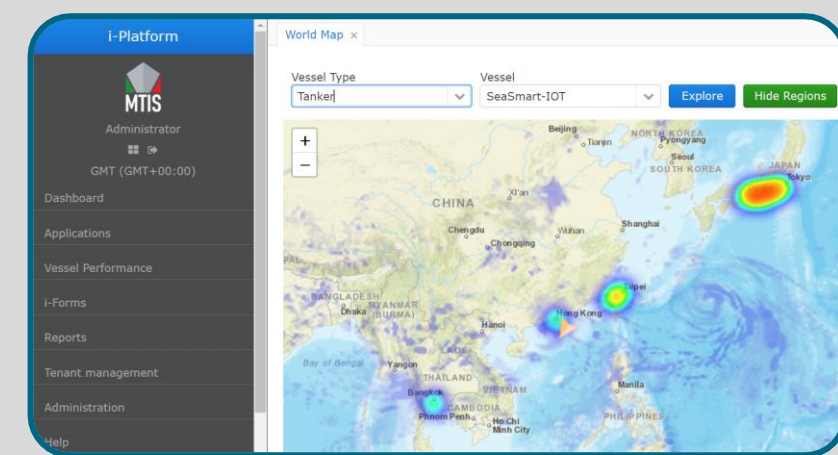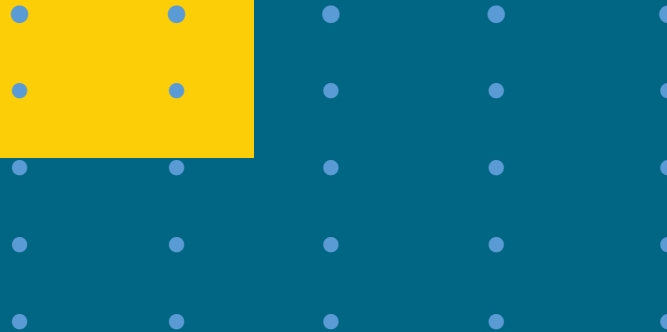
Conclusion

MTIS i-Platform© provides a centralized solution specially designed for the maritime industry based on an efficient, reliable and accurate architecture to the need for a remote and real-time emissions compliance measurement

- Scale up solution backed from non-invasive sensor data collection

- Seamless integration with MTIS i-Platform for advance automation and operational improvements

- Novel tracking algorithms with clarity on computations and decision making

- Real-time monitoring and exact CII calculation

- Ad-hoc reporting capabilities according to the regulatory requirements

- Customizable Integrated Alarm Services

- Enhanced Training and Advanced Customer Support

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