

Cargo in the Dawn of Global Carbon Taxes



FUELTRUST.IO

Jonathan Arneault
Chief Geek




Industry Recognition



2 Patent Issued and
2 Patents Pending





Carbon Management
and Carbon Financing
are the greatest
opportunities and risks in
Shipping since the
invention
of the container.

Energy Transition Urgency Drivers



Carbon Regulations and
Taxes

Emissions Based
Contract Terms

Low/Zero Carbon Fuel
Demands

TODAY'S CO_{2e} TAX RATE
€64.30 per Metric Tonne

€ 43.50 per TEU
N.America to Europe

Source – CMA CGM Estimated Charges Table

More Taxes Coming

LCV Carbon
Carbon Import

CARB (US-CA)
Canada
Japan
Oceania

LifeCycle Carbon Assessment

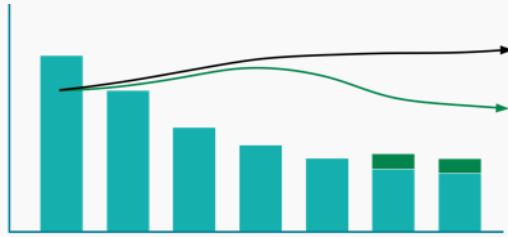
Essentially, it's a Carbon VAT

- Every product
- Every additive
- Every movement
- Every time....

The next great Accounting driver globally



Lifecycle Carbon Assessment OPPORTUNITY



The carbon price of PROCURING your product materials,
the added carbon burden of PRODUCING your products,
the increasing carbon embedding of SHIPPING them...

MEAN THAT YOU CAN **DIFFERENTIATE** YOUR PRODUCT
BY IT'S ENVIRONMENTAL LIFECYCLE,
not just its cost and availability.



Financial Impact

with FuelTrust

8-12% savings Source to Production

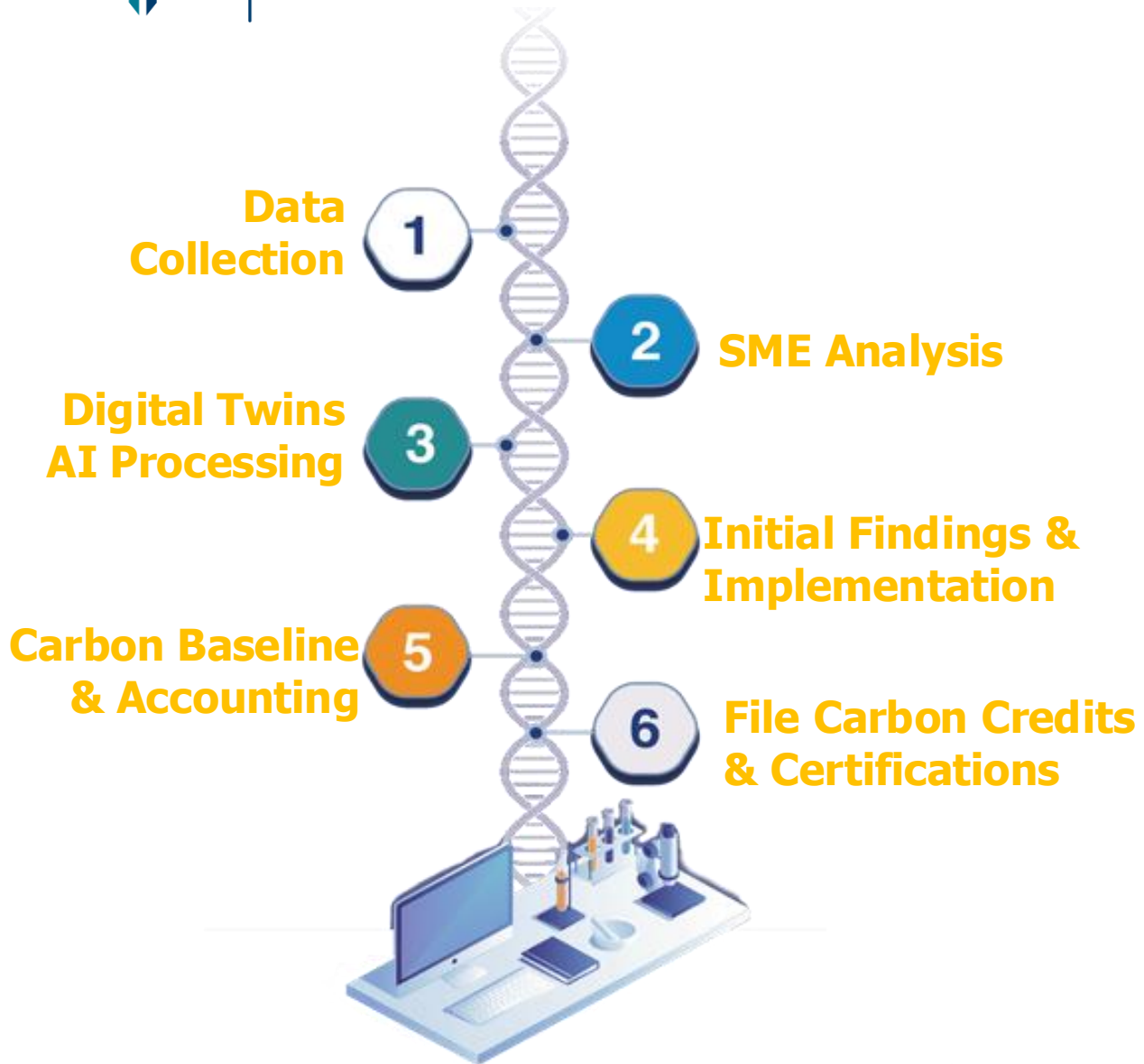
4-6% savings in Shipping

6-9% Recovery Credit Opportunity

50% Reduction in Accounting and Management

conservative values





partnered with



Carbon Optimization & Management
ESG Services
Finance & Operations Optimization

FuelTrust

our name is what we do



Jonathan Arneault

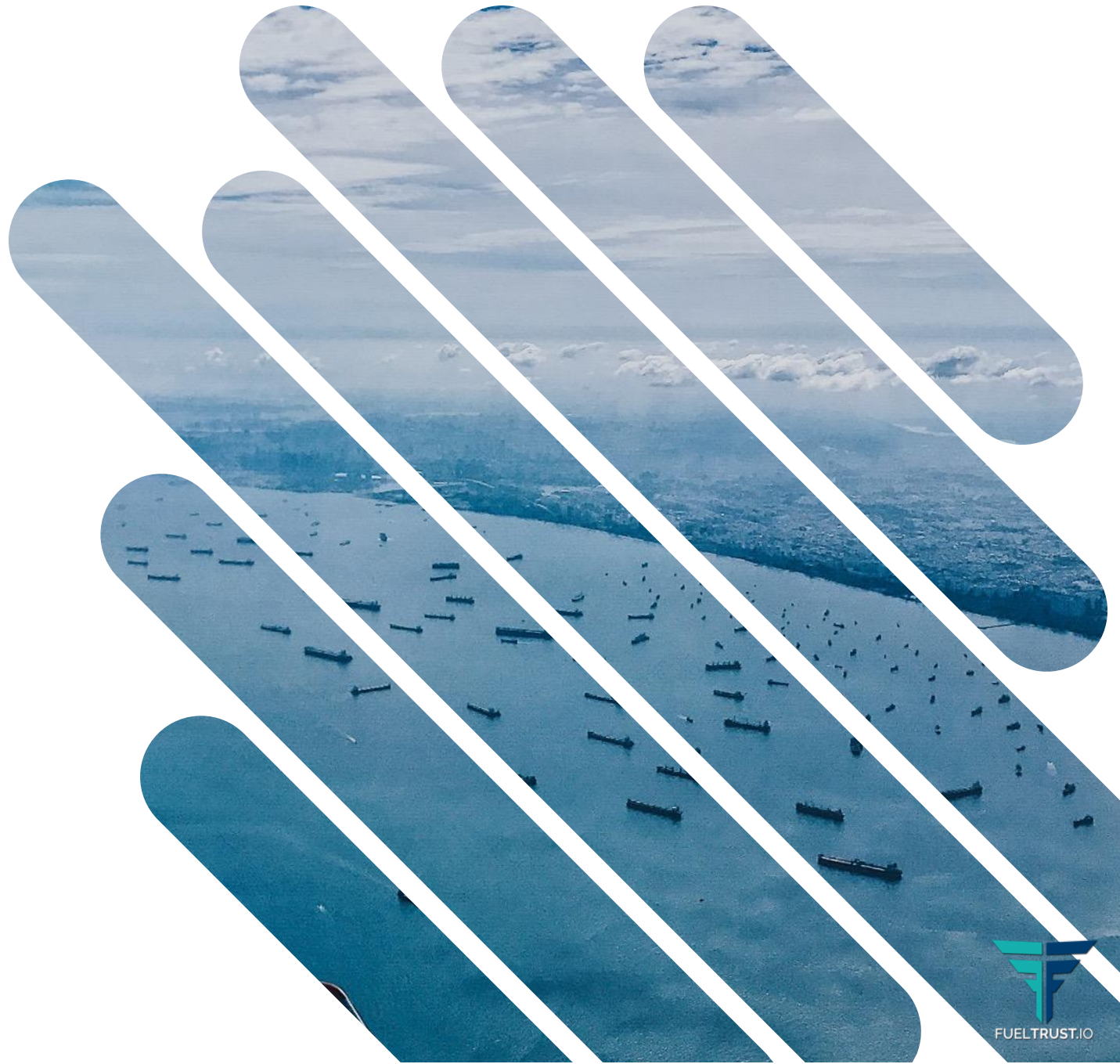
Chief Executive Officer
+1.850.619.6194



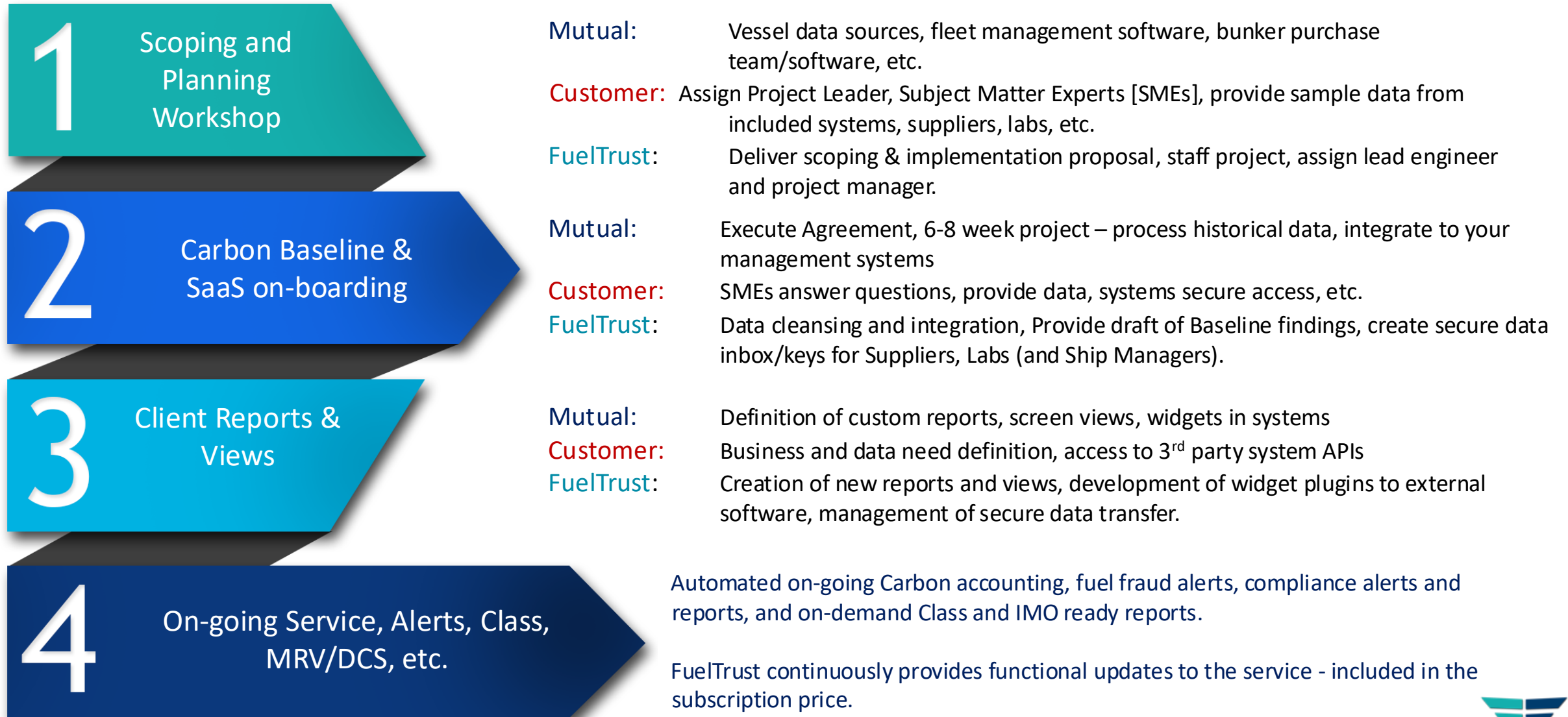
fueltrust.io

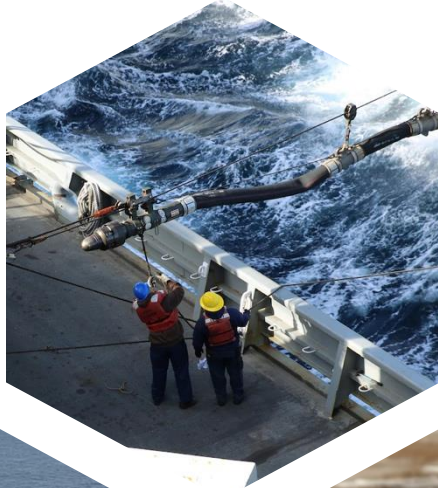
investors@fueltrust.io

How do we get started?



Steps to capture the value:





BACKUP / MOVEUP SLIDES

Value and Getting Started

FuelTrust creates **Transparency and Truth**

enabling value from
emission reductions
up and down the
entire supply chain.

Bunker Insights creates visibility

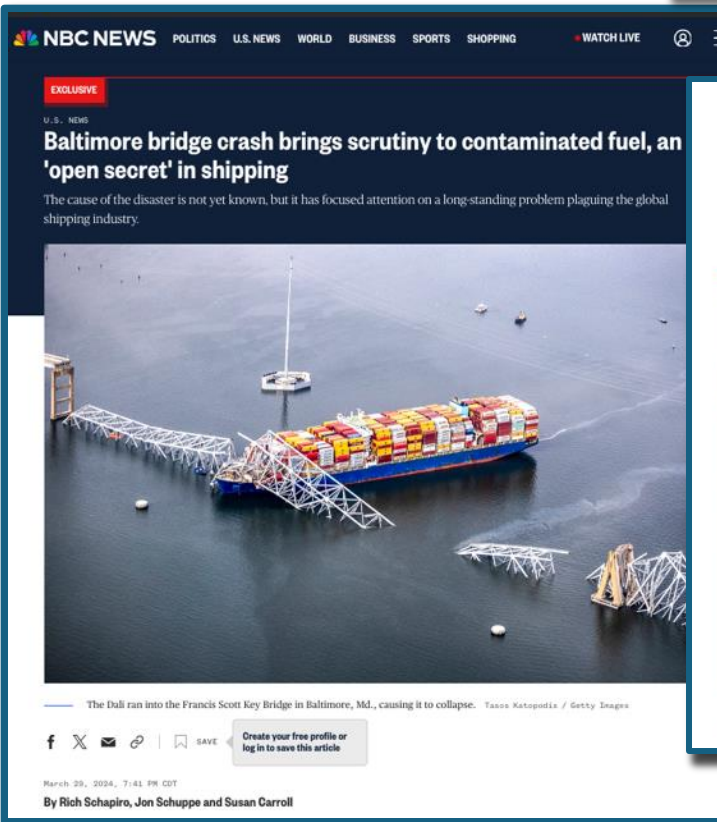
FuelTrust provided Suppliers and Storage Providers with desperately needed clarity in time of crisis.

FuelTrust in the news: MV **Dali**

April 2, 2024

Dali fuel from NYC appears clean says FuelTrust

Early speculation that the fuels on Dali may be the cause of the accident are in question.. FuelTrust, an energy supply chain AI company says that its assessment of the fuel's content and custody from the supplier to the tanks of the ship all met industry required specifications.



Report: Fuel Loaded on Dali in New York Before Accident Met Specs



Report suggests fuel might have not caused the Dali's power problems (NTSB)
PUBLISHED APR 5, 2024 7:32 PM BY THE MARITIME EXECUTIVE



1,214 followers
2w •

We are pleased to have the official report from the NTSB verify our prior analysis of the Dali fuel potential. As we wrote earlier, early indications were that the fuel taken on in NYC was fully within spec (later confirmed by received fuel lab tests).

Our Bunker Insights product provides back-to-back analysis of fuels as they move through the supply chain, even to their emissions output. This real-world test of "looking into the dark" and coming out 100% is a strong confirmation of what we do for suppliers, shipowners, customers, and we hope soon... for regulators as well.



NTSB All But Rules Out Bad Bunker Fuel as Cause of Dali Collision with Baltimore Bridge

shipandbunker.com



FUELTRUST

Soft-Sensor emissions measurement

Patented: **Fuels and Emission AI**

Patented: **Carbon Measurements**

Patented: **Supply Chain Detective**

Leverages existing onboard PLCs,
sensors, SCADA, data capture, etc.



FUELTRUST.IO

An aerial photograph of a container ship's deck, showing rows of colorful shipping containers in shades of red, blue, and yellow. A white superstructure is visible, with a smokestack emitting a thick plume of white smoke that drifts across the upper right portion of the image. The ship is on a dark blue sea.

“Current hardware sensor technology alone is ill suited for the heavy marine environment. Software-Sensors, Digital Twins, and validation are needed to provide direct measurements across our industry.”

Earth to Emissions Platform



We Automate, Validate, and Accelerate the market for energy products and emission reductions

Lowering Barriers of Entry for New Fuels and Producers

Marketplace for each stage of the Energy Lifecycle

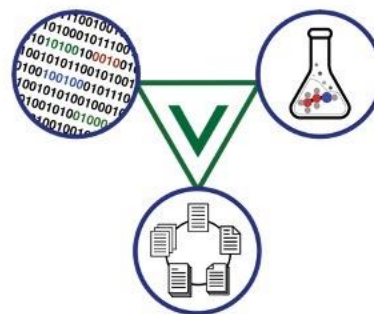
Emissions measurement and verification at each step

Commoditizing Emission Reductions and Green Financing

How we do it? We:

- MEASURE THE MOLECULES of fuels & their use
- Use existing customer industry data and systems
- Automate data collection, process, and verification

Through SaaS products built on our technologies and Risk Provenance® Platform



Issued and Pending Patents

- AI Digital Chemist
- Supply Chain Detective
- Hybrid Blockchain Integration
- Fuel-Emissions Digital Twins
- ...and several more in process

Forecasts:



Reduce ETS EAU Costs

Lower emission outcomes through direct measurements, fuel alternatives, and validation of operational and vessel improvements.

Increased Hull Value

Improved CII and Scope 1-3 outcomes increase "green chartering" and resale value, extending Vessel Marketability.

4-8 BPs

Lower Financing Costs

Gain access to green financing rates and Poseidon Principle Financing and Insurance through FuelTrust's Validated Green Vessel programme.

4%+

3-5%

€ 50K+
annually

Fuel Fraud Reduction

FuelTrust identifies volume loss, fuel swaps, short fills, and compliance risks – within the claims window. Alerts are sent to Shipowners, Suppliers, and authorized Charterers in real time
Average annual fuel fraud per vessel is €72K