

Maritime & Trade Solutions Guide

Enabling Global Supply Chains



About Market Intelligence

We harness the deepest sources of information, analytics and expertise to forge solutions for the industries and markets that drive economies worldwide. Leaders in business, finance and government rely on us to help them see the big picture and interconnected factors that impact their organizations. This knowledge allows them to understand why things happen and focus on what really matters.

Vision

To be the leading source for critical information, analytics and insight that powers growth, efficiency and value for our customers.

Mission

Delight our customers daily by delivering a powerful combination of world-class expertise, knowledge and solutions so they can make more informed decisions to enable their long-term, sustainable growth.

Values

To help create a sense of common beliefs and behaviours, our colleagues focus on six fundamental shared values:

Innovation, Accountability, Customer Focus, Inclusiveness, Integrity and Partnership

The foundation for these six values is a singular focus on customer, representing a core value of Customers First.

Businesses and governments in more than 140 countries use our unrivalled depth of industry and market information, expertise and analytical capability to make educated and informed decisions.

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Customers First

Our ongoing Customers First surveys are an important communication tool in achieving this goal. We are committed to keeping you FIRST in everything we do, so please continue to be part of our feedback process so we can be your valued partner each and every day.

As a direct result of YOUR feedback from the Customers First surveys, we are making daily improvements to our solutions and rolling out new offerings to meet your evolving requirements. We want to earn your business each and every day.

Client Feedback

“Provide better interconnectivity between various tools to be able to pool data for trending between cross-functional processes.”

Product developments continue in – integrating legacy and acquired assets more closely.

“What would be helpful is that there is someone that understands how we use data when working with us.”

Continued sales & customer-facing colleague training on new/acquired capabilities, product certification program in EMEA sales to be expanded across global sales teams.

“Features webinars would be nice. There is so much in there.”

Continuation and expansion of customer communications around products and capabilities – webinars, customer newsletter, training opportunities.

We all win by listening to our customers, responding to our customers and helping them be ever more successful

About Our Maritime and Trade Solutions

We are the leading source of critical maritime and trade insight, enabling organisations, policy makers and security experts to navigate today's complex trading environment. Successfully managing inter-connected global supply chains requires a detailed understanding of continually evolving patterns of international trade flows, and with over 90% of international trade being transported by ship, success requires an in-depth understanding of the shipping industry.

Governments, traders, cargo owners and the global shipping industry use our maritime and trade intelligence every day to manage complex global supply chains, find sources of competitive advantage, identify new business opportunities, and secure our oceans and borders from potential security risks.

- Heritage dating back to 1764
- We are the sole appointed authority for assigning and validating the IMO number (International Maritime Organisation) – A division of the UN
- 250+ year track record in global shipping and commodity sectors
- World's most comprehensive maritime and trade databases
- We are the only provider of 100% of U.S. seaborne imports and exports data
- Largest editorial and analytical team covering maritime and trade in the industry
- 20 year history of industry leading events. 2000+ annual attendees at TPM Long Beach

We help you identify growth opportunities, reduce global supply chain risk, improve efficiency and enable risk mitigation.

Maritime Solutions



Maritime Portal

The only source you need for comprehensive ship and ownership information integrated with terrestrial and satellite ship movement intelligence. Interrogate and export data to identify new business, conduct market research and increase operational efficiency. Stay one step ahead of your competitors by accessing unparalleled market intelligence verified by our experts.

The Maritime Portal enables deeper analysis of the global fleet and answers the industry's needs by utilising all of our maritime and trade capabilities.

Sea-web's online search provides extensive information on ships, owners, ports and terminal facilities, port callings, shipbuilders, fixtures, casualty events, maritime companies and latest industry news. AISLive displays real-time AIS ship positions of the global fleet through an online mapping application. This award-winning service provides coverage of over 145,000+ live vessels every day. Track and monitor ships/fleets of interest using the Ship Watch and alerts services.

Access industry trusted maritime intelligence in one place

- Actionable, reliable and verified maritime intelligence
- Build a global picture of the world fleet
- Understand levels of ship ownership and management
- Streamline your operational workflows
- Integrated products and business intelligence tools

Comprehensive ship and ownership intelligence

Unrivalled ship characteristics with seven levels of ownership powered by the world's largest maritime databases.

Live & historical ship tracking & port traffic intelligence

Providing real-time and historical voyage information to trace ship movements, monitor changes and identify trading patterns.

The most reliable and accurate source of maritime information available

Customers have confidence when using our maritime data which is updated daily and verified by our team of in-house experts.

A powerful market-leading solution that combines maritime information and ship tracking intelligence from our two flagship products Sea-web™ and AISLive.

ihsmarkit.com/maritimeportal

Maritime Portal Desktop

Quickly locate all relevant data on a ship you are about to board or assist using Maritime Portal Desktop, the single most authoritative ship database on global merchant and military ships. An intuitive and user-friendly search engine promptly provides world ship registry information and imagery – simply type in the identification number or ships name.

Ships

- Access the shipping industries most trusted and comprehensive data to view details on the world's fleet
- Understand the complex 7 levels of ownership for ships including owners, operators and managers with links to shipbuilder information
- Detailed information on ships:
 - Current and Historical Ownership & Registration
 - Safety and Certification
 - Inspections and Detentions
 - Construction
 - Dimensions
 - Cargo and Capacities
 - Machinery
 - Timeline of significant events

Owners

- A comprehensive resource for all shipping professionals
- Including 12 lines of contact details
- Details on Owners:
 - Unique IMO Company Number
 - Addresses
 - Personnel
 - Fleet Size

Builders

- Detailed ship builder information including fleet listings
- Keep up to date with the latest builder news
- Details on Builders:
 - Builder details
 - Shipyard information
 - Addresses
 - Built fleet
 - Orderbook

Non-Core and Naval Vessels

- Access the shipping industries most trusted and comprehensive data to view details on the world's fleet
- A database of vessels below 100GT which sits alongside our Core maritime vessel data
- Detailed information on ships:
 - Vessel below and above 100GT
 - A selection of non-ship units such as barges which are above 100GT
 - Non-merchant, non-propelled units
 - Other ship types: Fishing, Yacht, Pleasure Craft, Passenger, Sailing, Barges and Tugs
 - Naval/Military vessels

Access the world's most comprehensive shipping directory.

ihsmarkit.com/mpd

Sanctions and Compliance

- Access to comprehensive maritime data sources helps effective risk assessment and strategic planning to minimize cost implications to your business
- The Sanctions & Compliance data view provides data visualization of search results that can be exported for further analysis and assist in developing risk rating models.

Note: The data is a snapshot in-time, as this is an offline solution

Casualty and Events

Use multiple criteria to search and find comprehensive information on the incident itself, exact location, casualty group, severity, number of human casualties, types of piracy attack and much more.

- Serious Casualties
A vessel incurring significant damage and/or withdrawn from service.
 - All sea going vessels over 100 GT
 - Comprehensive event detail including:
 - Date/time and exact location
 - Categorization of incident – collision, fire, sinking, mechanical failure etc.
 - Extent of damage to vessel
 - Human casualties and/or pollution
 - Voyage details and cargo carried
 - Salvage operation if applicable
 - Subsequent repairs if applicable
- Non-Serious Casualties
Defined as vessel incurring minor damage with no significant out of service time.
 - Covering all vessel types
 - Same level of event detail as Serious Casualties
- Piracy & Security Events
Security Related Events:
 - Hijacking
 - Boarding
 - Robbery (Including cargo theft)
 - Counter-Piracy
 - Kidnapping
 - Piracy Attack
 - Suspicious Approach

- Pollution Events
Detailing type and extent of pollution, and subsequent clean-up operations, specifically covering incidents not resulting as a direct consequence of a ship casualty:
 - Accidental discharge by crew
 - Failure of bunkering/loading hoses
 - Overfilling of bunker tanks
 - Damage to jetties/shore installation

Note: We have recorded serious and non-serious casualties for tankers since 1 January 1976. In addition, serious incidents have been recorded for other vessel types since 1978.

Ports and Terminals

The Ports and Terminals data combines comprehensive information with a powerful database offering first-rate functionality.

Electronic distance tables, Google Earth positioning visualization of terminals and berths, detailed berths database, photographs and plans make this unrivalled source of information for use both in the vessel operations department and onboard ship.

- Features include
 - Details on Ports, Terminals and Berths
 - Berths Module
 - Country Information
 - Pre arrival Information
 - Port Plans
 - Geo-referenced Berths - 100% Coverage

Ports & Terminals Guide

The Ports & Terminals Guide includes ports and terminals in one place for your convenience. This one-stop guide saves time and money compared to having to purchase multiple products at higher prices.

The product includes: A set of books and a complimentary MPD – Ports USB

Features include:

- Details on ports and terminals
- Separate berths database
- Country information
- Pre-arrival information
- Detailed tanker and dry cargo berth information
- Plans, mooring diagrams, photographs, and maps
- Geo-referenced berths – 100% coverage

Register of Ships

First published in 1764, the Register of Ships continues to be the authoritative source of information on the world fleet, providing comprehensive information on all self-propelled, seagoing merchant ships of 100GT and above. The information that is included in these reference works is drawn from our extensive database – the world's most complete source of maritime data.

Features:

Information on the world fleet including:

- Current and Former Names
- Ship Identification Numbers
- Tonnages
- Dimensions
- Machinery Details
- Registration and Classification

Each entry includes:

- LR/IMO Number
- Name and Former Names
- Ship Type
- Cargo Facilities and Capacities
- Builder and Date of Build
- Owner and Manager
- Registration, Flag and Classification
- Tonnage and Dimensions
- Main and Auxiliary Machinery Details
- Call Sign and Official Number

Bespoke Data Solutions

Timely, accurate and reliable information is crucial for business activities across the maritime industry. Our diverse data services provide tailored solutions to fit your organization's exact requirements.

With information requirements becoming more sophisticated, demand is high for bespoke data solutions where customers can integrate a tailored data supply into their own business solutions. Customized extracts from the databases can be supplied and updated in a variety of formats to enable you to build or use existing in-house business applications, linking your own information with ours.

Our maritime and trade solutions provide the most comprehensive, highly structured and fully relational set of databases in the market, from which we can produce flexible, customized extracts that can be tailored to meet specific needs. Bespoke data services utilise a collection of the industry's largest databases of ship positions, characteristics and ownership, casualties, ports, and more.

We operate the world's largest network of land-based receivers, supplemented with satellite surveillance of midocean positions giving unrivalled global coverage of on-line AIS ship positions. We hold more than 10 years of historical positions data.

Typical uses of bespoke data

- Insight to understand market trends and identify growth opportunities
 - Ships data enables fleet and sector sizing, market share analysis, and operational efficiency through reference to accurate data.
- Reliable maritime intelligence to help identify, assess and mitigate risk
 - Ships, owners, casualty and inspections data enables monitoring of events and accurate evaluation of the owners track record.
- Gather data from a variety of sources for accurate forecasting and analysis
 - We have strong relationships with key industry organisations and receive regular data feeds from our partners that enhance our data.

Bespoke Data: simple steps to view and sample the datasets

- Ascertain what you want to achieve and the area of interest – eg. Use ship inspections and casualties data to build risk profiles associated with a type of ship or fleet.
- For AIS orientated areas, we work hand in hand with the client to determine the extra details required such as expected latency or time period, which will help us to customize the search and offer a focused and optimized data solution.
- Refer to our Data Catalogue to determine the scope of our data including datasets, required selection criteria, field selection and format.
- Our account managers can guide you through your choices and work towards providing sample/test data to help you evaluate how our data matches your business requirements.

Trade Analytics



Global Trade Analytics Suite (GTAS)

The GTAS platform combines three longstanding and established trade products: Global Trade Atlas macro trade statistics; PIERS Bill of Lading data, and GTAS Forecasting. Our clients can easily crosswalk between trade data sets to derive deep insights into trade activity. Users of all types and sophistication levels can decide to use our analytics, interrogate data within our UI, or extract data into .csv or excel.

Our Country/Region coverage includes:

- 105 monthly countries/regions with historical macro trade statistics
- 200+ countries/regions reporting annual historical trade figures
- 69 countries/regions with “Extra Data Fields” (EDF) including transportation mode, port, state, district, and regime, etc.
- 248 countries/regions for quarterly and annual bilateral trade forecasts by mode of transportation and cargo type
- 13 markets with transactional trade data

Key Features:

- Best in Class Data Update Frequency
 - Daily updates of Macro Trade Statistics (5 times per week, Monday to Friday)
 - Daily updates of U.S. Bill of Lading Data (6 times per week, Monday to Friday and Sunday)
 - Monthly updates of Non-U.S. Transactional Trade Data
 - Quarterly updates of Trade Forecasting Data
- Easy Products / Commodities Search
 - Key word searching facilitates identification of products within bill of lading shipments of interest
 - HS Commodities Description searching enable products search of Bilateral Trade
- Multiple Data Extract and Reporting Tools
 - Shared reporting services across your organization
 - Refreshable excel workbooks
 - Extract U.S. bill of lading (BOL) data on multiple levels including entire BOL, commodity, or container-centric views
- Expert Trade Insights & Additional Data Points
 - Experts Written Analytics Reports providing readily available headline analysis of global trade phenomena
 - Extra Data Field (EDF) data available including transportation mode, district, regime, state, port, etc.
- Advanced Analytics Visualizations
 - Dashboards providing actionable trade intelligence
 - Custom Tableau reporting available upon request

Global Trade Analytics Suite (GTAS) is the most comprehensive, intuitive, and powerful trade research tool on the market. Our suite of trade products delivers decision ready intelligence through analytics that have been built to evaluate global trade, commodity values, and identify companies involved in trade activity.

PIERS Trade Data

PIERS has been at the forefront of delivering business intelligence on international trade activity for more than 40 years. In 2020 PIERS processed over 25,837,360 bills of lading filed with U.S. Customs using our proprietary 6-step process to convert this raw data into solutions that deliver decision ready intelligence. Complementing our unrivalled U.S. trade intelligence, our international trade data provides import and export transactions in 13 international markets.

PIERS trade data is the leading provider for comprehensive U.S. waterborne trade data with 100% coverage of U.S. imports and exports. PIERS data is cleansed, standardized, and enhanced to facilitate quick and easy analysis of large sets of data.

Key Features:

- Data processed within hours and loaded into all of our products on a daily basis
- Paramount data quality with standardized company name and address information

PIERS enables you to:

- Strengthen your market expertise and be the first to spot emerging trends
- Identify and pre-qualify prospective carriers, clients, and suppliers

Global Trade Atlas (GTA)

A web-based search and analysis tool provides users with on-demand access. This market-leading solution provides a global view of trade in every commodity at the most detailed level of harmonized code.

Monthly data is available for more than 105 of the world's largest economies, and more than 200 Countries/Regions in the world have annual coverage. Features including currency conversions, user-defined groups, and saved reporting make repeatable, in-depth research across disparate data sources simple and quick. Additional data points including transportation mode, ports, and regions, and many more (vary by source and are available for most reporting countries/regions). This powerful database provides insight into trade and the movement of goods worldwide, putting the interests of governments and businesses into full global context

The Industry's Trusted Supplier of Trade Data

- Integrate GTA data into internal systems with scheduled data file delivery
- Analyze the global supply chain of commodities and diversification of trade flow, unit value, and transport data
- Discover market trends and validate
- Gain insight into trade balances at a glance - Detailed monthly reporting covering more than 96% of reported global trade

Detailed Market Volume and Unit Value Analysis

Identify your strengths and weaknesses through comprehensive statistics, with data points including port and mode of transportation for many countries/regions.

Uncover the Competitive Landscape

Make known international trade to compare your known import/export trade with the rest of the market and understand your business in its global context.

The Global Trade Atlas (GTA) compiles official import and export statistics from sources around the world into a comprehensive database of merchandise trade.

ihsmarkit.com/gta

Global Trade Analytics Suite Forecasting

(Formerly known as GTA Forecasting and World Trade Service)

GTAS Forecasting provides market and business planners with in-depth trade analysis and forward looking of bilateral trade between 248 countries and countries/regions across 270 commodities and 16 key indicators (Trade Concepts). It is a data-driven trade forecast model including quarterly and annual frequency trade forecast, refreshed every quarter.

GTAS Forecasting Features:

- Extensive trade forecast modeling and forecasts
 - Trade forecast modeling sits on historical trade data sourced from Global Trade Atlas (GTA)
 - Quarterly forecasting for the upcoming eight quarters
 - Annual trade forecast up to year 2035 (soon to be extended to year 2040)
 - The simultaneous modeling of all time-series using three different statistical methods to select the best-suited model results
 - Bilateral trade forecast between 248 countries/regions (including intraEU), across 270 commodities and 16 key forecasts (by seaborne/air /overland)
 - Data is carefully processed and standardised to consistently cover all countries/regions across all commodity categories and indicators
 - Forecast is produced by commodity-specific and country-specific export and import global trade models, upgraded to include COVID-19 impact
 - Macroeconomic indicators from Market Intelligence are inputted into the forecasting model
- Easy access to forecast, analysis and visualizations
 - New GTAS Forecasting Analytics with forecast data by transportation modes displayed on interactive maps, charts and rankings of top exporters/importers and trade routes
 - Access GTAS Forecasting data via Data Browser on Connect platform, our user-friendly, web-based interface
 - Select countries/regions, commodities and forecast indicators; create your own customized regional and commodity aggregates
- Use our GTAS Forecasting dashboard with trade visualizations, methodology documents, service bulletins and macroeconomic drivers
- Analysis and commentary
 - Trends in the World Economy and Trade - a quarterly report outlining trade outlooks by export and import regions and by transportation mode, with a focus on seaborne and containerized trade this quarterly report also provides economic background of recent trade development and commodity prices overview
 - Exclusive Insights and Headline Analysis on global trade focusing on international trade relations, along with trade regulatory issues
- GTAS Forecasting enables you to:
 - Plan competitive strategies by identifying when specific country and commodity trade will rebound
 - Make confident trade and transportation investment decisions
 - Identify business risks and opportunities by analysing and comparing target markets
 - Understand market trends and the economic factors driving them
 - Conduct product line forecasting and benchmark performance

The world's most comprehensive database of international trade and commercial freight traffic providing long-term annual forecasts up to year 2035, and quarterly forecasts for eight quarters ahead, including data broken

ihsmarkit.com/gtasforecasting

Commodity Analytics



Commodities at Sea

Elevate your market analysis with Commodities at Sea, our industry-leading service that helps traders and analysts, investors and portfolio managers, charterers and fleet operators to make winning decisions through our actionable insight into the physical, financial and freight markets that drive the global economy.

Commodities at Sea gives you superior transparency into market movements with near real-time visibility into supply and demand through the waterborne flows of major traded liquid and dry bulk commodities and through sophisticated fleet metrics.

Enjoy the best insight in the market – backed by advanced analytics, with access to our leading researchers, APIs and query tools, analytics dashboards and live vessel tracking.

Crude Oil & Refined Products

- We cover all the major liquid bulk commodities traded globally – from crude oils and condensates to diesel and gasoil, fuel oil, gasoline, jet fuel, naphtha and LPG – and pride ourselves on providing visibility into more unique grades of shipped crude oil and condensates than any other information provider can offer.
- We even cover hard to see corners of the market from Iran and Venezuela to Floating Storage and Ship-to-Ship (STS) Transfers.
- Refiners, traders, oil and gas producers, distributors and investors use Commodities at Sea's Liquid Bulk service to truly understand supply and demand dynamics in these markets – and better support netback calculations, competitive intelligence, procurement and sales, investment planning and more.

Coal, Iron Ore, Agri Bulk & Other Bulk

- We cover the most important dry bulk commodities in the world – from thermal and metallurgical coal, iron ore and bauxite to copper concentrates, corn, soybeans, wheat and many others – and pride ourselves on providing more complete, more accurate commodity flows than any other information provider can offer, thanks to our expert team of researchers who are drawn from the ranks of commodity traders and analysts at some of the world's most successful companies.
- We also provide visibility into port stockpiles for coal and iron ore at major hubs around the world.
- Miners, traders, utilities, refiners, mill operators and investors use Commodities at Sea's Dry Bulk service to truly understand supply and demand dynamics in these markets – and better support netback calculations, competitive intelligence, procurement and sales, investment planning and more.

Data driven intelligence into commodity movements to deliver actionable insights and informed trading decisions.

Tanker Metrics

- We offer the most sophisticated tanker fleet metrics in the industry – through Tankers at Sea. This analytics module is part of our Commodities at Sea service and provides our subscribers with unparalleled insight into a wide range of fleet metrics – from route capacity deployments and laden-ballast trends to congestion, ton day, fleet age, speed, scrubber analysis and more.
- Charterers, fleet operators, FFA traders and investors around the world can now understand key metrics of fleet performance in a way that is unmatched anywhere in the market.
- Tankers at Sea covers:
 - Dirty tankers: Panamax, Aframax, Suezmax, VLCC
 - Clean tankers: MR, L1 and L2
 - Gas carriers: Small, Handysize, Medium, Large and Very Large Gas Carriers (VLGCs)

Bulker Metrics

- We offer the most sophisticated bulker fleet metrics in the industry – through Bulkers at Sea. This analytics module is part of our Commodities at Sea service and provides our subscribers with unparalleled insight into a wide range of fleet metrics – from route capacity deployments and laden-ballast trends to congestion, ton day, fleet age, speed, scrubber analysis and more.
- Charterers, fleet operators, FFA traders and investors around the world can now understand key metrics of fleet performance in a way that is unmatched anywhere in the market.
- Bulkers at Sea covers:
 - Handysize including Small and Large Handy
 - Supramax including Handymax, Supramax, Ultramax
 - Panamax including Kamsarmax, Post Panamax
 - Capesize including Mini Cape, Newcastlemax, Very Large Ore Carriers (VLOCs)

Market Intelligence Network (MINT)

MINT gives a unique advantage by illustrating and quantifying commodity movements in real-time. Traders, analysts and charterers can immediately identify opportunities and monitor competitor/customer activities to improve trading results. MINT enables you to:

- Unlock market intelligence using unique terminal/berth-level reporting
- Monitor competitor and customer operations in real-time
- Optimize voyage economics to improve trading results

Key Features

- Access comprehensive coverage of commodity carrying fleets: crude oil, refined petroleum products, coal, LNG, LPG, chemicals and agri/softs
- View detailed vessel history including laden/ballast status and terminal-level activity
- Build customized fleets and monitoring zones with real-time reporting and push alerts
- Monitor ship-to-ship (STS) activities – both cargo and bunkering; identify possible bunker callings
- Analyze utilization statistics (time spent ballast, laden, anchored) for individual vessels or entire fleets

What's included:

- Analyze vessel activity by terminal and berth
 - MINT tracks vessels to terminal and berth level, revealing specific company involvement in commodity movements. Easily see how much product moved in and out of specific terminals or leased storage facilities in a given port.
- Ship-to-Ship (STS) cargo transfer and bunker activity
 - MINT detects STS operations in real-time and keeps detailed history, allowing traders to fully trace movements from load to discharge even when cargo is exchanged at sea. Bunkering operations are also detected at berth, inside port zones and in open water allowing bunker suppliers and traders to track and analyze their own and competitors operations. Identify lightering / reverse lightering operations. Identify possible bunker calls on a vessel's current journey

- Reporting by port, region and country level
 - MINT has extensive real-time and historical reporting capabilities for gaining insight into vessel activity at port, region and country level. Quickly view a vessel's port calling history. Select a port and view reports for arrivals, departures, currently at and port fixtures. Easily sort report results, filter by date, vessel type and private vessel lists with export to excel option for you to carry out further analysis or integrate into your own systems.
- Custom zones
 - Create comprehensive and detailed zones for monitoring of vessel entry and departure, for example in anchorage areas around ports of interest or across much larger geographies of up to 500,000 square kilometres. Apply fleet filters to monitor only the vessels you are interested in.
- Comprehensive fleet monitoring and analysis
 - Instantly build vessel lists by owner, operator, manager and recent charterer, customize ship records and share with colleagues across desks and offices. Analyze fleets or individual vessel's utilization statistics, ton miles delivered and speed over time. Visualize fleets on the map and quickly view vessel tracks for multiple vessels concurrently.
- Comprehensive alerting
 - Be notified of changes in vessel status, destination, ETA and draught. Receive alerts when vessels enter or exit Custom Zones, begin STS activity or are involved in bunkering operations. Setup alerts at the port level to be notified when any vessel changes its destination to that port.

Gain a competitive edge in commodity market intelligence

ihsmarkit.com/mint

Dry Bulk Freight Rate Forecast

Freight Rate Forecast provides clients with an analytics-driven and unbiased view of the freight market, helping clients to find clarity in a volatile environment. Built in agreement with the Baltic Exchange, our model uses over 3,000 drivers from across S&P Global, utilizing our unique breadth and depth of knowledge to draw links between macroeconomic factors and the freight rates. With the use of machine learning and advanced analytics, the forecast is able to provide an unbiased market view that enables clients to unravel the complexities of the shipping market with ease. Our forecast provides weekly and monthly freight rate updates for up to three years, providing clients with the analytical rationale they need to make timely and efficient decisions.

The Freight Rate Forecast offers a valuable solution that helps you:

- Capitalize on arbitrage opportunities by identifying trade signals
- Gain valuable insights on the capesize, panamax and supramax market dynamics
- Make smarter decisions based on an analytical rationale
- Optimize operational efficiency with data-driven insights
- Understand market conditions to mitigate risk to price exposure
- Gain a granular understanding of market behavior and trends

Key Features:

- Access to a web-based interface with dynamic dashboards displaying models' results
- In-depth exploratory data analysis of main drivers per route/model, including model parameters
- Weekly Freight Insights highlighting relevant market events and trends
- Comprehensive monthly reports with in-depth analysis of future freight rate
- Ad hoc analysis on industry related matters (ex: COVID-19 impact, Trade war, IMO2020)
- Global monthly economic reports containing critical intelligence on key economies
- Access to Dry Bulk Trade Flows & Forecast (+50 commodities)
- Dedicated analyst team for continual qualitative support

Optimize operational, financial and freight strategies through an analytics-driven forecast.

Port Performance Program

For organizations that want to measure and improve performance at container ports, our Port Performance Program enables granular benchmarking with objective, empirical data. This supports programs to optimize operations for fewer delays, cost savings and reduced emissions, as well as data-based insights for superior marketing and elevated analysis around port and terminal asset use and investment.

This unique dataset combines monthly port call data from operators of 80% of global container fleet capacity with our world class maritime datasets for richer insights and more meaningful analysis.

- Objectively measure and compare container port and terminal performance with empirical data
- Compare performance at specific facilities with competitor; comparator and best-in-class ports, for operational KPIs and elevated analysis around port and terminal asset use and investment
- Leverage data for maritime industry decarbonization programs such as Port Call Optimization and better ESG scoring for port and terminal operations
- Present data-based evidence of performance in marketing to drive sales and support contract negotiation
- Spot opportunities to improve efficiency, optimize asset use, improve schedule reliability, and save costs

Benchmark global container port and terminal performance with empirical data for competitive insights, fewer delays, cost savings and lower emissions.

ihsmarkit.com/portperformance

Metrics include

Minutes Per Container Move;
Average Waiting Times;
Berth Productivity;
Call Size Development;
Gross Crane Moves Per Hour;
Crane Intensity,
and many more

Fully validated against our
geo-data sets and matched
with proprietary historical AIS
port timestamps and vessel
characteristics data

Definitions and timestamps
fully standardized and
aligned with industry Port Call
Optimization standards

Highly developed
data quality processing

Highly developed
analysis concepts include
possibility to compare
performance on multiple metrics
with multiple filters

Unique dataset is updated
monthly and covers

180,000

port calls and

240 million

moves per year

Four full years of data available
for unrivalled benchmarking
covering more than

1000

container terminals in

500

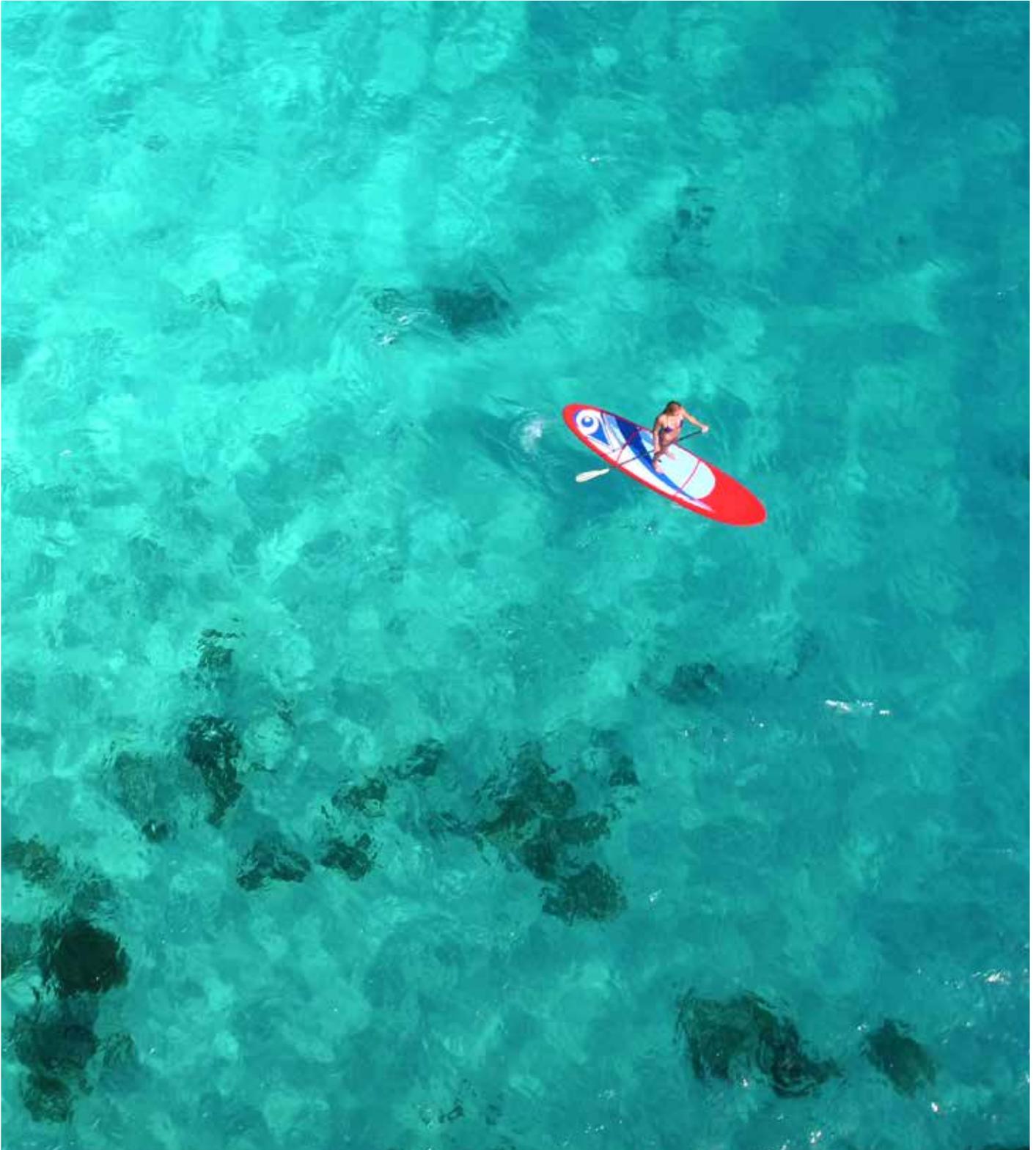
container ports around the world

Source data covers complete global
networks of operators of nearly

80%

of global container fleet capacity

Risk & Compliance



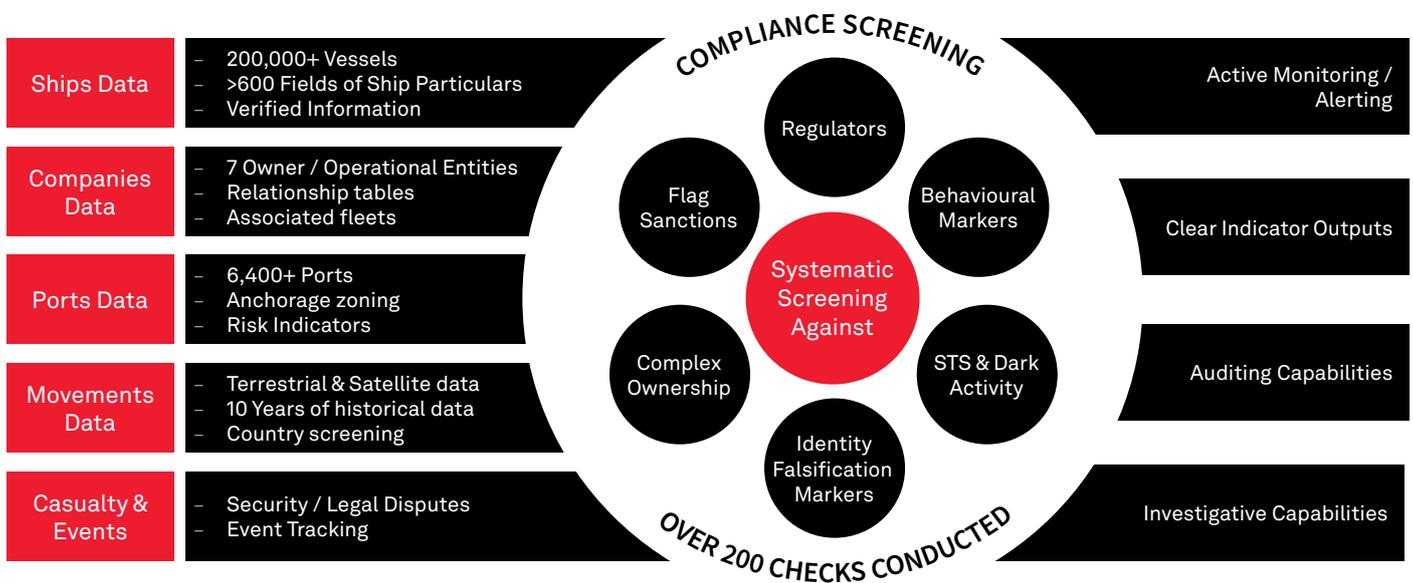
Maritime Intelligence Risk Suite (MIRS)

These risks pose a huge challenge to marine insurers, finance institutions, banks, governments and any business with global supply chains. To minimize your risk exposure and maximize operational efficiency, you need data and insight you can trust.

MIRS integrates the world's largest maritime database, real-time ship movement tracking software, and a newly developed risk events database to provide a one-stop maritime risk mitigation solution. MIRS delivers the tools you need to:

- Reduce maritime exposures
- Make informed underwriting decisions
- Carry out compliance checks on ships and their seven levels of ownership
- Comply with anti-money laundering laws
- Establish strong domain awareness

Integrated intelligence powered by the world's largest maritime databases. A one-stop shop for compliance/sanctioned screening.



Threats at sea are pervasive, from geopolitical crises and global money laundering to cargo theft, piracy and crew kidnappings.

OFAC 7 Illicit Shipping Practices

MIRS can provide transparency into the convoluted space that is Maritime Sanctions Screening by facilitating and enhancing vessels and related ownership.

OFAC 7 Illicit Shipping Practices

- AIS Dark Activity
- STS Activity
- Identity Alteration
- Complex Ownership
- Voyage Irregularity
- Flag Hopping
- Document Falsification

Trade Compliance Secure

Regulation is the single biggest obstacle for the trade finance industry. Financial institutions, insurers, freight and cargo operators are under increasing pressure to ensure they manage and mitigate associated risks. Risk is further compounded due to the complexity of the trade finance process. An industry that relies heavily on paper-based documents for key terms, agreements, and details of trade transactions within an ecosystem of importers, exporters, shippers, agents and others requires a compliance management tool that can streamline the day-to-day functions and tasks of the trade operations team.

Trade Compliance

Secure enables:

- A risk-based approach to elements within the trade transaction
- Access to comprehensive datasets across the shipping and trading world to ensure that your decisions are based on the richest and most accurate content sets
- Automated processing to improve customer turnaround time for new and existing trade applications
- Ability to maintain all screening services within a single, consolidated workflow configurable to individual risk appetites and processes

Advanced trade compliance capabilities for speed and precision

Trade Compliance - Understand the Bigger Picture

Entity Screening:

“Xiamen Wellzion Electronics Technology”

“IC Manufacturing Company”

Shipper Screening: OK

Consignee Screening: OK

Ship Screening:

“APL GULF EXPRESS”

Suspicious Activity - Severe

Dark Activity - Warning

Sanction List Check - OK

Company List Check - OK

Flag Status - OK

Goods Screening:

“208 Packages Said To Contain Gross Weight
23036kgs Measurement 13234 Packed On
Wooden Pallets High Current Pulse Generator HS
Code 85011020 Country Of Origin CN Incoterms
2020”

Dual-Use Goods Detected - Severe

‘High Current Pulse Generator’ - 3A001 European
Union,
US Commerce Control, Japan METI, China Export
Control Law

Container Screening:

“CCLU480873”

Vessel Check - Severe

Location & Route Check - OK

Transshipment Check - OK

Bill of Lading Screening:

“6306309100”

Vessel Check - Severe

Bill of Lading Validity Check - OK

Location & Route Check - OK

Transshipment Check - OK

Location Screening:

“Xiamen, China”

“Los Angeles, U.S.”

Port of Load: Xiamen, China - OK

Port of Discharge: Los Angeles, U.S. - OK

Price Screening:

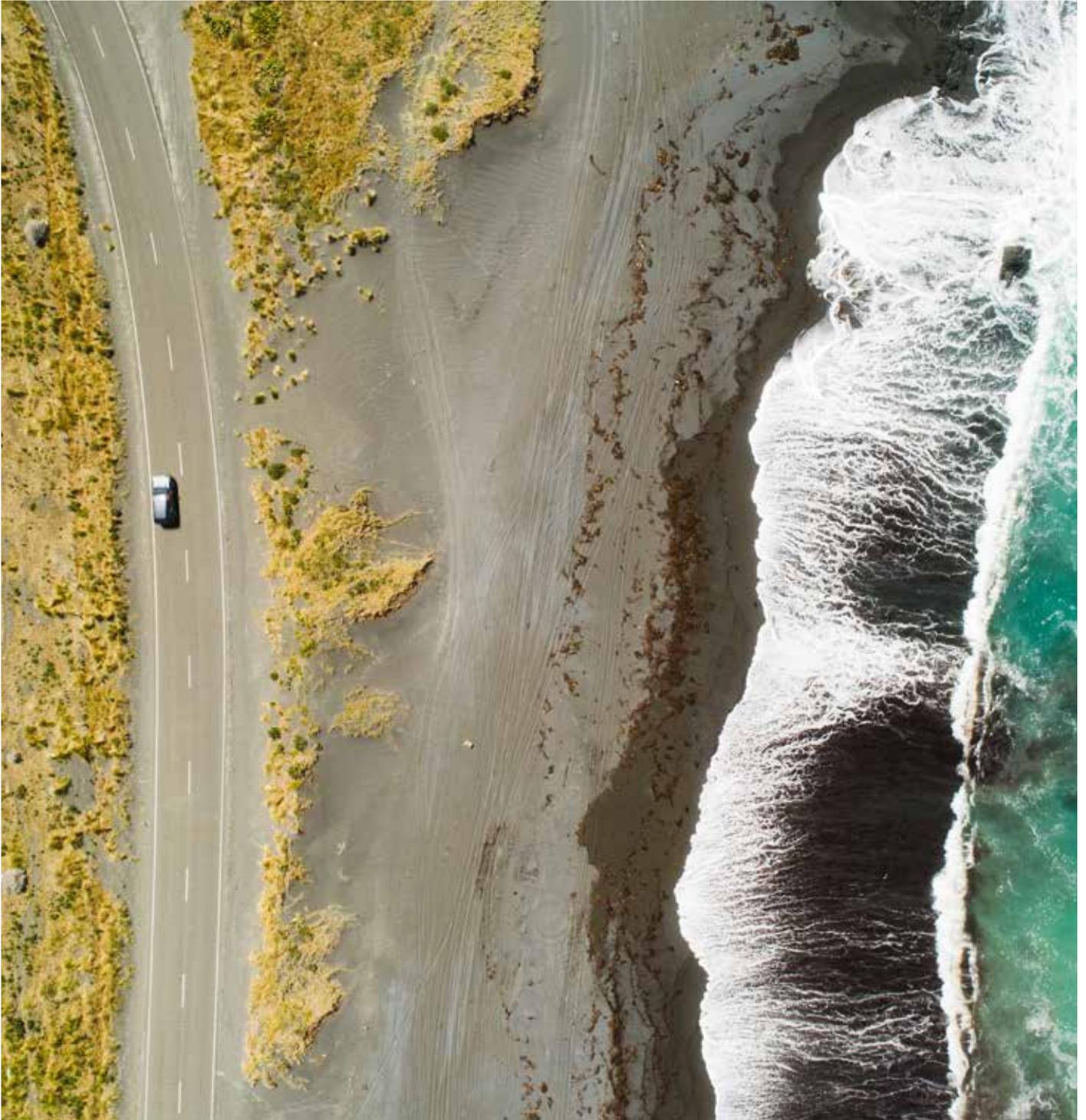
“Unit Price - \$505.50”

Within 20% Under/

Over-Invoicing Threshold - OK

**An all-in-one encompassing solution designed to enable the efficient
and comprehensive screening of sanctions and financial crime risk.**

Environmental Compliance



Sea Cargo Charter Managed Reporting Service

Signatories of the Sea Cargo Charter, a global framework for responsible shipping, must assess and disclose the climate alignment of their shipping activities. In order to do so, they face a number of operational challenges, including accessing, centralizing and validating disparate data from a variety of sources.

Our Sea Cargo Charter Managed Reporting Service supports signatories by automating the collection, validation and estimation of all required data, and by providing an independently calculated vessel category and overall climate alignment report ready for annual disclosure.

The reporting service is built upon our extensive maritime and trade data expertise, and the data quality, integration and workflow automation capabilities of our Enterprise Data Management (EDM) platform, which is used by more than 250 companies in multiple industries, including financial services and oil and gas.

Partnering with Market Intelligence as a managed service for data collection, validation & independent calculation to fulfil the Sea Cargo Charter reporting requirements



Information Flow Step

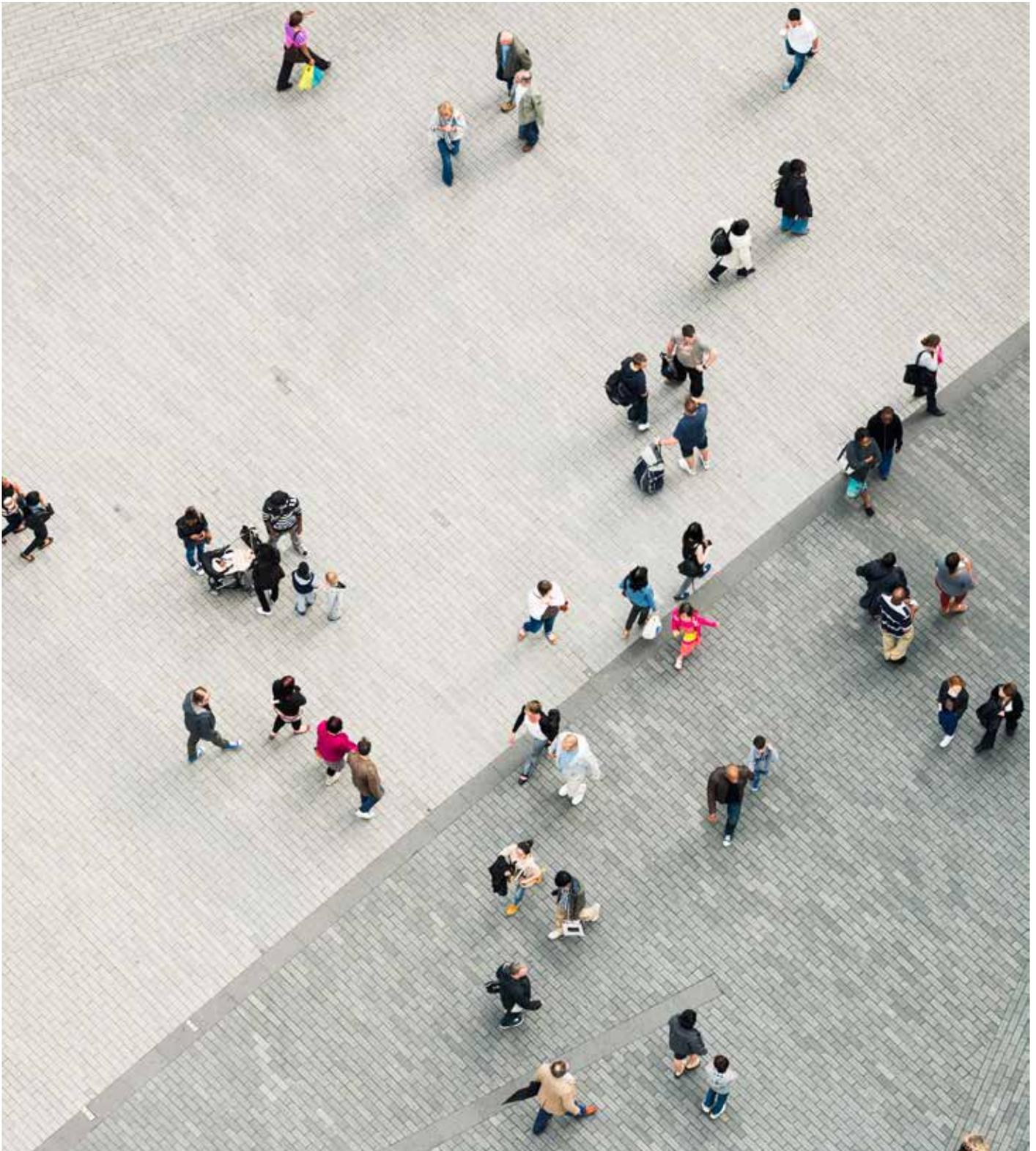


Options at each information flow step

Information Flow Step	Description	Options at each information flow step	
		Preferred Pathways Track	Allowed Pathways Track
1 Sourcing data	With the permission of signatories and owners, we collect and validate owner, signatory and estimated data required for the Sea Cargo Charter	(Disponent) Owner	(Disponent) Owner
2 Calculating voyage level carbon intensity and climate alignment	We independently calculate voyage level carbon intensity and climate alignment	8 Signatory (Internal)	8 Signatory (Internal)
3 Calculating vessel category and total annual activity climate alignments	We independently calculate vessel category and total annual activity climate alignments	Signatory (Internal) 3rd Party	Signatory (Internal)
4 Disclosure	We deliver fully transparent reports ready for disclosure	Signatory (Internal) & 3rd Party verification	Signatory (Internal)

Streamline Sea Cargo Charter reporting including the collection, validation and estimation of all required data.

Media & Events



JOC Events

JOC Events are the must-attend conferences for container shipping and international logistics professionals in North America, Europe and Asia. Events include annual conferences such as the TPM Conference held each year in Long Beach, California; intimate round-table gatherings and seminars; and award presentations.

JOC Events strives to provide business intelligence and data covering the global container shipping and logistics market and utilizes the editorial expertise and data-rich resources of The Journal of Commerce and GTAS (PIERS) — the world’s most comprehensive database of U.S. waterborne trade — to create programs that give attendees the unique intelligence needed to inform critical business decisions in an ever-changing global marketplace.

Leading industry events include

- TPM
- TPM Asia
- JOC Container Trade Europe
- JOC Inland Distribution
- Shipper Round Tables

Why Attend TPM?

TPM is the must-attend conference for the Trans-Pacific and global container shipping and logistics community.

Why Attend TPM Asia?

TPM Asia is the must-attend conference for container shipping and logistics professionals who need to understand the issues facing the Asia-Europe, trans-Pacific and intra-Asia container markets.

JOC Events enable you to become informed, stay on top of the market, do business, network with industry peers and let your voice be heard. We look forward to welcoming you to our events.

The Journal of Commerce (JOC)

The Journal of Commerce, founded in 1827, is the leading provider of editorial content, unique insight and expertise that enables international logistics professionals to make better business decisions. Each magazine includes special reports (change to: Our bi-weekly magazine and website JOC.com serve as authoritative sources of news and analysis) on key topics of capacity, freight rates, compliance, container shipping, intermodal, technology and more — covering all modes of transportation including truck, rail, air and ocean.

Topic areas include:

- Ports
- Sailings
- Maritime
- Breakbulk
- Trucking
- Logistics
- Rail & Intermodal
- Government
- Economy
- Air Cargo
- Trade

Audience

Largest and most influential community of logistics and supply chain professionals.

Marketing Solutions Available

Leverage the power of the JOC reputation and utilize trusted resources in a variety of marketing opportunities.

“Every morning I review the ‘Maritime,’ ‘Ports,’ and ‘Rail & Intermodal’ sections of JOC.com for items that are of interest to our firm’s practice and clients”

The Lambos Firm, LLP

Ports & Harbors and World Ports Conference

We are proud to publish Ports & Harbors, the official membership publication of the International Association of Ports and Harbors (IAPH) – the only worldwide organisation of port authorities.

Topic areas include:

A people-focused bi-monthly magazine providing thought leadership on the role of ports in a connected world. With room for opinion, debate, analysis, and data-led journalism, provided by our editorial team.

Audience:

Ports & Harbors has a clearly defined and highly-engaged readership of senior professionals and decision-makers from the global ports and terminals sector.

Apart from port authority leaders, the magazine is being read by global IMO ambassadors in Japan and the UK, officers within the IMO and the United Nations Conference on Trade and Development, the World Customs Organization, as well as by engineering companies.

Marketing Solutions Available:

In addition to print advertising, employ the resources of our marketing services team to create a unique publication or advertorial that promotes your latest launch, success, or company anniversary.

“I trust you will find Ports & Harbors of great value to your business and a reliable and effective way to disseminate your message throughout the world port community.”

Patrick Verhoeven, managing director, IAPH

www.worldportsconference.com



Enterprise Data Management (EDM) for Maritime

As the focus on digitization increases, access to actionable, trusted data is more critical than ever when looking for new ways to drive growth, mitigate risk and adapt to ever-changing supply chain environments.

The increasing volume, variety and complexity of data (including bill of lading, ports, AIS, vessel, container and cargo data), and the use of manually-maintained spreadsheets, databases and siloed systems, make it difficult for companies to truly leverage their data as an asset. As a workaround, many rely heavily on manual processes to merge and manage data sets across spreadsheets, vendor sources and home-grown databases. This increases operational risk and decreases response times.

EDM, a workflow automation platform with data management at its core, addresses these challenges by automatically synchronizing data across disparate data sources, applications and users within the organization. EDM delivers five key capabilities:

- **Rapid integration:** transforming data for use in downstream systems and by users
- **Data quality:** applying robust, customizable business rules to ensure data quality and accuracy
- **Aggregation and master data management:** producing a centralized, single version of the truth across multiple disparate sources
- **Workflow automation:** automating the collection, normalization and uploading of data, combined with an intuitive UI layer for enhanced business user workflows and interaction
- **Data storage and reporting:** storing historical data and making it available for reporting

The EDM platform integrates with any internal or external data source, application or file structure, and pulls disparate data types from multiple sources which are then matched and aggregated in a central hub. It creates a consistent, single version of the truth in a traceable, audited environment.

Key Benefits:

- Cross-team collaboration
 - Break down functional and technical silos by using EDM to synchronize the distribution of validated, mastered data across multiple applications in a consistent, audited environment.
- Critical decision support
 - Gain a more comprehensive view of your operations and the market to support your decision-making, by centralizing, linking and amalgamating your data.
- Efficiency and timeliness
 - Maximize the time available to analyze data by eliminating the need to manually manage and transform it.
- Deployment options
 - Reduce implementation times, mitigate the burden of technology maintenance, cut costs and increase flexibility by leveraging EDM as a managed service on the Amazon Web Services (AWS) cloud.

A workflow automation platform for participants in the maritime, shipping and logistics sectors, including terminal operators, port authorities, beneficial cargo owners, vessel owners and operators, carriers, insurers and corporates.

Data Lake for Maritime & Trade

Data volumes are growing at an exponential rate and unprecedented low storage costs are allowing firms to collect huge amounts of data in a viable way. The potential for uncovering insight and predicting trade has never been greater.

Yet, the process of data to insight is fraught with challenges. Custom data types and formats, combined with complex structures, mean that data needs to be interpreted in order to be used effectively. Specialists are required to extract meaningful insight and the so-called 'time-to-value challenge' sees firms grappling for months with datasets before any actionable intelligence is extracted.

Market Intelligence Data Lake empowers you to uncover business insights more quickly by exploring, accessing and coalescing our data, your data and third-party data on a single, cloud-based platform. Populated with over 1,500 of our datasets from multiple industries, including financial services, automotive, maritime, energy & natural resources, they have been curated into more than 350 data packages to expedite time-to-value.

Maritime & Trade Use Cases

By transforming the way in which you find and access data, the Data Lake supports advanced analytics and data science at scale. It opens up the opportunity to derive new insights that can drive innovation and new product creation.

Companies are accessing a wide variety of our Maritime & Trade datasets, including our Global Trade datasets for bilateral import and export trade data and transactional bill-of-lading cargo information, our Ship Movements for monitoring vessel activity and our new Risk & Compliance datasets to better understand a variety of risk factors affecting international shipping, defense and global trade.

Use the Data Lake to:

- **Conduct supply chain analysis and accelerate your decision-making:**
Gain access to key market and operational insights to evaluate the global supply chain, identify suppliers and buyers, reduce compliance risk and identify which vessels to charter.
- **Take advantage of price differences by better identifying arbitrage opportunities:** Understand market fundamentals and predict near-term supply and demand shifts across the global commodity market value chain.
- **Tackle the rise of illicit trade in goods:**
Our data and analytics address strategic challenges by linking maritime operations and commodity movements to ensure commercial and government customers make well-informed decisions.
- **Minimize exposure to sanctions and financing risk within trade finance and supply chain networks:**
Integrate ship and ship movement data with a risk-based events dataset, simplifying the task of analyzing multiple datasets from multiple sources and enabling faster decision-making.
- **Support the decarbonization of international shipping through ESG insight and reporting:**
Access accurate vessel data that support ESG issues for the shipping sector, enabling more informed decision-making. This is complemented by our ESG Reporting Repository which revolutionizes ESG data storage and dissemination by centralizing access and improving transparency.

About S&P Global Market Intelligence

S&P Global Market Intelligence integrates financial and industry data, research, and news into tools that help track performance, generate alpha, identify investment ideas, understand competitive and industry dynamics, perform valuation, and assess risk.

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