



Shipping and Freight Solution Brief

Shipping Market Data Analytics with ZEMA



ABOUT ZEMA

ZEMA™, by ZE in the maritime transport and trade industry, is an award-winning data integration and analytics platform for data-driven organizations. ZEMA allows companies to foresee and understand business-centric data effectively. With its revolutionary capabilities for the collection and validation of data, its analysis, process automation, and effective integration of downstream systems, ZEMA is committed to helping organizations simplify the otherwise complicated, fragile business practices. The implementation of ZEMA also helps in reducing the overall risks, enhancing corporate efficiency, and increasing the overall bottom line.

Challenges

In the maritime transport and trade industry, ZEMA aims at providing solutions to a wide range of potential challenges that are posed to the business players. Some of the core business problems that ZEMA aims at resolving are:

- Fragmented and opaque market intelligence requiring an inordinate amount of time to validate and corroborate with authoritative supply and demand data, leading to potential sub-optimal business decisions.
- Reliance on spreadsheets for analysis and assessment of market data increasing the risk of data entry error and poor governance.
- Lack of proper automation workflows and well-defined business logic exposing the business to human errors, inaccurate market assessment, unreliable data and transparency loss.
- Incomplete and untimely market intelligence sources resulting in opportunity loss and reduced revenue generation.
- Siloed data potentially causing poor business decisions, unjustifiable risk and poor governance.
- Poor compliance with the respective governance and compliance policies due to lack of transparency, auditability, and limited data processes across the business.
- Data received in non-aligned formats requiring repetitive manual processes increasing the risk of errors and omissions.



Some of the basic requirements to alleviate the risk of the challenges and improve business efficiency are:

- Support for multi-level data inputs, fusing data from multiple sources to improve market awareness.
- Rapid implementation of innovative data feeds for multi-faceted market analysis, enabling improved decision basis.
- Implementation of advanced integration methods with effective downstream systems.
- A robust data acquisition pipeline spanning a wide array of micro and macro data on aspects impacting on maritime trade and operations.

Solutions

Servicing some of the world's largest commodity merchants and financial institutions, ZEMA is now extending its comprehensive data and analytics capabilities to the global logistics sectors at a time when supply chains are under unprecedented pressure. The ZEMA Enterprise solution provides the essential scalability, versatility, hosting options, and open architecture needed to support logistics operations.

Creating unparalleled visibility of critical market risks and opportunities by fusing data-feeds from multiple authoritative sources, ZEMA enables maritime users to enhance their pre-fixture market analysis.

Some of the essential benefits earned out of solutions offered by ZEMA include:

- Corroboration and validation of multi-sourced market intelligence.
- Extension of the data sources in the pre-fixture analysis process, including macro-economics, weather, position, congestion, physical and futures market data, and more.
- Automation of the process of data collection as well as validation from its source to the centralized data repository – decreasing the overall time and resources needed for ensuring manual data entry and validation.
- Improved scalability, transparency, effectiveness, and auditability of the internal validation and analysis processes.
- No interruption of the regular business processes with the help of expert ZE user training for the global users of ZEMA.

Conclusion

As a result, clients were able to enrich the market analysis process improving the basis for chartering decisions as well as improving the risk management strategies.

Maritime Data Includes

- Time Charter Forward Curves (Spot and Futures)
- TCE Assessments
- Freight (Spot Prices)
- Marine Fuels (Spot and Futures)
- The Baltic Exchange Crude Tanker Freight Index
- The Baltic Exchange Dirty Tanker Index
- The Baltic Exchange Daily Closing Prices (Indices and Futures)
- The Baltic Exchange Implied Volatility (Options)
- The Baltic Exchange Forward Assessment BLNG
- The Baltic Exchange Forward Freight Assessment (LPG Prices)
- The Baltic Exchange Forward Assessment (Futures)
- The Baltic Exchange Forward Assessment (Spot)
- The Baltic Exchange Monthly Settlement
- The Baltic Exchange Weighted Averages
- Daily Bunker Price
- Daily Bunker Price by Country
- CSL Derivatives Report Indices
- CSL Derivatives Report Routes
- CSL Derivatives Report Spreads
- Daily VLGC Report
- Spot Market – TCE Rates
- Spot Market – Weekly Freight Assessment
- Container Availability Index
- Capesize & Panamax FFA Daily Report (Spot)
- Capesize & Panamax FFA Daily Report (Future)
- Wet Freight Forwards



Maritime Data Includes

- Wet Freight Put/Call/ATM Straddle
- Wet Freight Volatility
- Harpex Index
- EOD Global Oil, Freight, and Iron Ore (Futures)
- EOD Global Oil, Freight, and Iron Ore (Options)
- US Waterborne LPG Exports
- US Waterborne LPG Imports
- LNG Waterborne Trade - Import By Source
- LNG Waterborne Trade - Import Volumes
- LNG Waterborne Trade - Supply Matrix
- FFA Closing Prices
- Liquid Fleet Metrics
- Forward Freight Agreement - Open Interest
- Forward Freight Agreement - Volumes
- Morning Tanker - Fixtures
- Morning Tanker - WS Rates (Daily)
- Evening Aframax - Bunkers
- Evening Aframax - Fixtures
- Evening Aframax - Market Call
- Current Condition in Ports - Details (UTC)
- Current Condition in Ports - Expected Arrivals (LT)
- Current Condition in Ports – Summary
- API Spot Rates
- Tankers Daily Fixtures
- Aframax Panamax Forecast
- Dry FFA Report (Futures)
- Dry FFA Report (Indices)
- Dry FFA Report (Spot)
- Latest Positions
- Port Calls
- Commodity import/ export data (historical)
- Commodity import/ export data (forecast)
- Commodity prices
- Commodity prices (futures)
- Energy import/ export data (historical)
- Energy import/ export data (forecast)
- Energy prices
- Energy prices (futures)
- Weather data (historical)
- Weather data (forecast)