



SEDGE

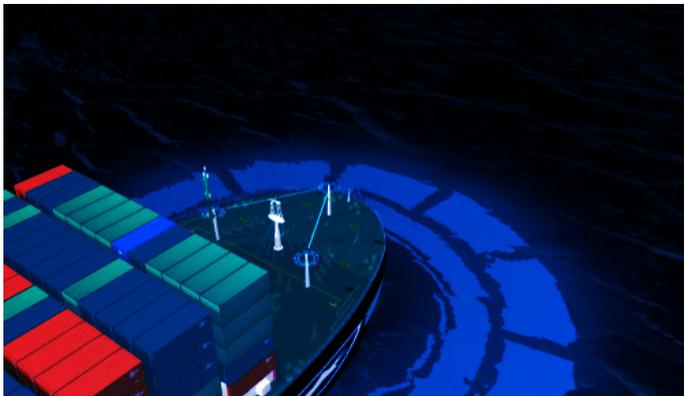
DELIVERS AI SOLUTIONS
FOR LINER SHIPPING

Container shipping is a highly complex, regulated, and fast-moving industry involving multiple-party transactions across international borders. Outdated legacy IT systems and manual tasks now leave many carriers unable to effectively manage rapid changes in charter schedules, bunker procurement, container leasing, and even fluctuations in port service charges.

Demand is now growing for AI and Machine Learning to understand patterns and perform advanced statistical analysis to predict outcomes, optimize decision-making and powerfully visualize data.

SEDGE allows carriers to quickly extract, transform and load data from multiple sources or integrate the solution to their own platforms.

SEDGE is a cloud-based AI analytics online platform that brings amazing clarity and insights from your data. Now, data-led decisions can be made with confidence for vessel and port operations, sales and marketing, product development, fleet and service deployment, finance and accounting, and procurement of inland logistics.



AI delivers constant vigilance and action as shipping accidents on the rise

In a labor-intensive industry like shipping, with many repetitive processes, AI technology performs many of the tasks the average person does at work. As shipping operates 24 hours a day, 365 days a year, using AI-driven machines, one can operate around the clock without breaks, weekends or holidays. AI does not get distracted, tired or negligent but keeps processing, learning and executing. Tasks are carried out as per instructions that get enhanced in specificity and detail as the process ages.

The real benefit is reducing avoidable human errors that can lead to costly delays. Repetitive digital processes are constantly analyzed by AI and anomalies are flagged to enable corrections to be made before mistakes are made.

This constant analysis will not only allow processes and functions to be executed safely, but will provide both a cost-competitive and operational advantage, enhance service reliability and boost customer satisfaction.



AI 'trained' to streamline the complexities of shipping

SEDGE is an AI platform that is 'trained' to learn what is relevant to businesses and what is not and can scour vast amounts of data 24 hours a day. AI is incredibly adept at finding the right information quickly and efficiently, so that business leaders have the information they need to make better decisions for greater competitive advantage.

This analytical data provides liner operators with the information to make time-critical decisions to improve services across a range of operational activities and also negotiate better deals with suppliers. Ultimately, SEDGE provides tangible cost reductions across a broad range of operations.

SEDGE DELIVERS OPTIMIZATION and COST SAVINGS across a broad range of operations



Port Cost Reduction

SEDGE analyzes data not only to reduce costs but actually optimize operational execution. This is a powerful tool from which liner operators can optimize port costs by evaluating historical data and avoiding busy or congested periods at each port or terminal and enable timely decisions to be made and action to be taken on alternative data-backed options.

Bunker Hedging

As the price of bunker fuel continues to fluctuate, making optimal future purchases more complex, SEDGE analyzes crude and petroleum future contracts traded at NYMEX and IPE as well as spot bunker prices in Rotterdam and Singapore. SEDGE can also analyze regional supply and demand data allowing for informed decisions to be made on bunker purchasing.

SEDGE Benefits

- Avoid expensive weekend overtime labor charges
- Avoid additional anchorage charges due to vessel delays
- Compare port costs with those of competitors

SEDGE Benefits

- Constant updates on future and spot rates
- Enables flexible informed response to bunker price changes
- Make considerable cost savings through agile decision making on bunker purchases

Asset Deployment

SEDGE ensures that optimal assets, in terms of vessels and equipment, are deployed for each specific service by analyzing historical data and using predictive algorithms. SEDGE analyzes seasonal port constraints, weather and tidal patterns, optimal stowage and vessel speeds, surplus and deficient scenarios, etc.

Box Repair Costs

Container repair costs vary from port to port and also between supplier depots. Liner operators estimating the price manually have to consider factors such as the type of container to be repaired, cost of labor and hours utilized, repair location, currency, type of repair, and material used for repair.

All of these variable costs take time to evaluate and compare. SEDGE analyzes historical data to compare the repair estimate from previous months and years to the current estimate. Using this regression model, the data provides a strong negotiating platform to reduce costs.

SEDGE Benefits

- Enables informed decisions about vessel deployment within services
- Delivers real-time data for equipment planning and repositioning
- Ensures optimized vessel performance

SEDGE Benefits

- Save considerable time in research to evaluate multiple historical cost factors for each depot
- Data provides strong bargaining 'chip' to negotiate lower repair costs

Cargo Demand and Forecasting

Ensuring the best possible match between cargo demand and capacity supply has a myriad of variable factors that requires demand forecasting using deep learning. SEDGE processes sample data from a multitude of port pair combinations. Each port pair is grouped on a weekly basis and the data analyzed.

Through SEDGE's Long Short-Term Memory deep learning program, patterns are analyzed, defined, and predictions for future cargo demand are estimated.

Intermodal Operations

Once in port it is essential that the right transportation modes are deployed to service the inland movement of containers. SEDGE would analyze data from ports, railways, storage facilities, and transportation companies to identify potential congestion issues on the landside and also analyze fluctuations in costs based on historical data for such movements.

SEdge enables liner shipping companies with valuable data analytics and visibility that would allow them to plan shoreside transportation, special equipment deployment, reefer plugs, reefer monitoring, and negotiating advance contracts with trucking companies and freight train operators.

SEdge Benefits

- Leverage deep learning to optimize future vessel planning and deployment
- Save costs by leveraging best possible match between cargo demand and capacity

SEdge Benefits

- Save time by knowing best mode of inland transportation
- Procure landside transportation service contracts basis informed decision making
- Save costs on equipment detention and demurrage and expediting timely transportation

SHIPPING NEEDS TO EMBRACE AI

Shipping lines that fail to embrace AI could miss out on opportunities and streamlined operations, while their competitors realize the benefits. Carriers that integrate AI technologies into their organizations in 2021 will enjoy the increased efficiency and exponential value that come with Artificial Intelligence, such as that provided by SEDGE.



About Solverminds



Established in 2003, Solverminds is a leading next-gen global technology company with a vision to empower businesses with innovations reimagined. It's exceptional domain expertise and **cutting-edge technology solutions** offer a complete range of best-in-class products for **liner operations management, ship management, agency management, and advanced analytics**.



While Solverminds' technological focus is on delivering reliable, resilient, and robust solutions that embrace Artificial Intelligence (**AI**), Machine Learning (**ML**), Predictive Analytics, and Big Data, it's strategic focus remains on **quality & customer-centric approach**, research & developments, and thought leadership.



Solverminds is a smart and sophisticated technology provider of a wide range of solutions & services that enfold integrated and bespoke **ERP, global consulting, cloud system, and advanced analytics**. They help their customers ascend the ridges of an extremely competitive current world, by automating their business processes together with an offering of actionable insights, predictive outcomes, and **optimized solutions to make informed decisions**.

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