

LNG Route Optimization Platform

Advanced Maritime Risk & Economic Modeling

Alto Commodities presents a revolutionary platform designed specifically for LNG shipping executives facing critical route decisions that impact profitability across global markets. Our AI-powered solution transforms reactive route planning into strategic advantage.

www.altocommodities.com



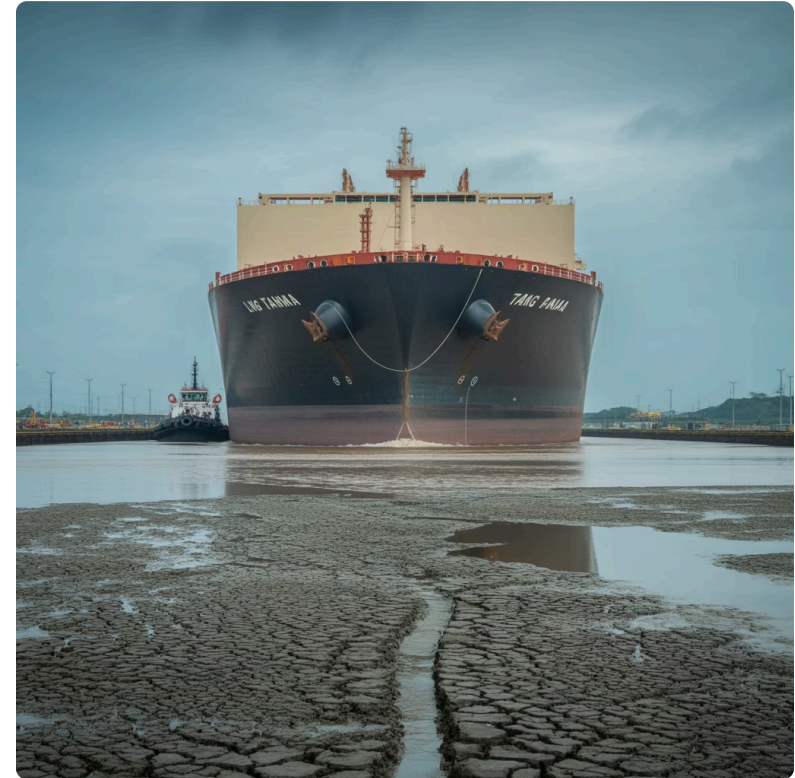
The LNG Shipping Challenge: Million-Dollar Decisions

Current Market Reality

LNG shipping executives face unprecedented disruptions impacting profitability:

- Panama Canal drought creating \$4M premium fees per transit (2024)
- Suez Canal security threats forcing 15% traffic diversion
- Route selection directly affects \$0.30-0.80/MMBtu profit margins
- Wrong route decisions cost up to \$1.4M per cargo in excess voyage costs

With 700+ LNG vessels transiting annually, optimizing these decisions represents significant enterprise value.



Panama Canal drought creating costly transit delays

Alto Commodities Solution: AI-Powered Route Intelligence



Multi-Route Optimization

Sophisticated algorithms compare Panama, Suez, and Cape routes with real-time economic normalization. Executives gain immediate clarity on optimal route selection based on current market conditions.



Dynamic Fee Modeling

User-configurable inputs adjust Panama fees (\$300K-\$4M), Suez fees (\$350K+), and vessel-specific parameters. Platform calculates precise economic impact per cargo in \$/MMBtu metrics familiar to executives.



Risk Scenario Planning

Model geopolitical disruptions, canal closures, and congestion events before they occur. Quantify financial exposure and enable proactive decision-making rather than reactive responses.

Our platform integrates real-time market data, vessel specifications, and proprietary algorithms to transform complex route decisions into clear economic choices for executive decision-makers.

Revolutionary Asia Route Selection Economics

Route Option	Distance/Time	Canal Fee Impact	Key Executive Considerations
Panama Canal	9,000 nm / 20 days	\$0.114-1.143/MMBtu	Fastest but highest fee volatility
Suez Canal	14,000 nm / 31 days	\$0.100/MMBtu	Balanced option with security risk
Cape of Good Hope	15,300 nm / 34 days	\$0.00 + \$0.377/MMBtu voyage	No canal fees but highest time cost

Alto Commodities platform provides executives with normalized economics across all route options, enabling strategic decisions that directly impact the bottom line.

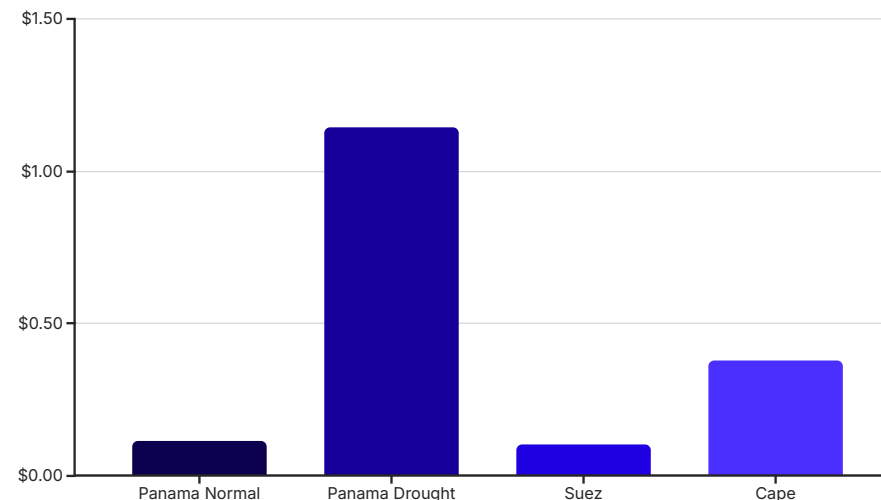
Dynamic Canal Fee Modeling: Executive Decision Support

Real-Time Economic Calculations

Our platform enables executives to make informed decisions by calculating the precise economic impact of route selection:

- Panama Canal (Normal): \$400K fee = \$0.114/MMBtu impact
- Panama Canal (Drought): \$4M fee = \$1.143/MMBtu impact
- Suez Canal (Current): \$350K fee = \$0.100/MMBtu impact
- Cape Alternative: \$0 fee + \$1.4M voyage = \$0.377/MMBtu impact

Executive teams can instantly determine profitability thresholds for route switching, optimizing decisions across entire fleets.



Integrated Risk Scenario Planning for Executive Teams



Real-Time Disruption Assessment

Monitor canal conditions, geopolitical threats, and market shifts as they emerge. Our platform ingests multiple data streams to provide early warning of potential disruptions.



Economic Impact Quantification

Instantly calculate financial implications of each scenario. Executives see precise costs for Panama drought premiums, Suez security risks, or complete canal closures in familiar \$/MMBtu metrics.



Strategic Response Options

Evaluate alternative routes, schedule adjustments, and contract optimizations. The platform recommends specific actions to mitigate disruptions while preserving profitability.



Executive Decision Support

Provide senior leadership with comprehensive analysis for strategic decisions. The platform generates executive-ready reports showing financial implications of each option.

Alto Commodities transforms complex maritime disruptions into structured economic decisions, enabling executive teams to respond confidently to market volatility.

Professional Cost Architecture: Executive Transparency

Complete Cost Breakdown Analysis (\$/MMBtu)

Component	TTF Europe	JKM via Panama	JKM via Suez	JKM via Cape
Tolling Fee	\$2.00	\$2.00	\$2.00	\$2.00
Fuel Cost	\$0.067	\$0.067	\$0.067	\$0.067
Charter (days)	\$4.286 (25d)	\$5.000 (35d)	\$7.429 (52d)	\$7.714 (54d)
Canal Fee	\$0.000	\$0.114	\$0.100	\$0.000
Regasification	\$0.400	\$0.500	\$0.500	\$0.500
Total Fixed	\$6.753	\$7.681	\$10.096	\$10.281

Plus variable Henry Hub exposure (×1.15 multiplier)

The Alto Commodities platform provides executives with comprehensive cost visibility using industry-standard metrics, enabling precise route economics and cargo profitability analysis.

Quantified Executive Value & Next Steps

\$3.65M

Per Cargo Savings

Avoid \$4M Panama premium by utilizing Suez at \$350K during drought conditions

\$182M

Annual Impact

Potential optimization value across 50 cargoes annually with strategic route selection

75%

Time Reduction

Decrease analysis time from 4 hours to 15 minutes per cargo decision

Immediate Implementation Options:

- Executive Demo: Personalized platform tour with your specific route scenarios
- 30-Day Trial: Full platform access with your proprietary vessel and contract data
- Custom Integration: Connect to existing trading and operations systems



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