



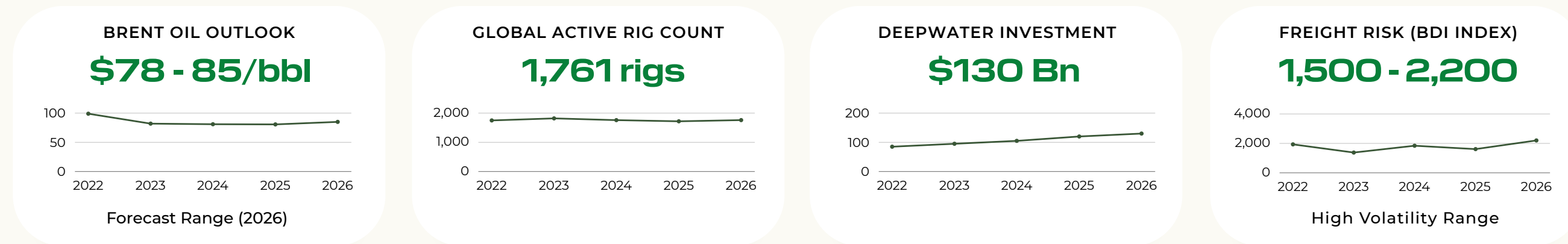
FALCONBRIDGE RESOURCES COMMODITY REPORT

THE MACRO VIEW ENERGY IS BECOMING HARDER TO EXTRACT

MARKET AT A GLANCE



WHAT IS DRIVING THE MARKET



MACRO PRESSURE DRIVERS

| | | |
|--|--|---|
| <p>Higher upstream extraction costs Oilfield maturity is increasing, resulting in more high-cost barrels. Impact Level: High</p> | <p>LNG competition with Asia Structural demand premium for gas Impact Level: Medium High</p> | <p>Slower new discoveries Long-cycle replacement problem intensifies Impact Level: High</p> |
| <p>OPEC + supply discipline Lower spare capacity limits market cushion Impact Level: High</p> | <p>Geopolitical Strait & chokepoint vulnerabilities persist Impact Level: High</p> | <p>Energy transition bottlenecks Mineral & copper intensity rising Impact Level: Medium</p> |

MARKET SIGNAL

Energy production is becoming more complex, not simply larger.

Investment is increasingly shifting toward deepwater, shale, and technically challenging reservoirs that require greater drilling fluid intensity and higher barite consumption per project.

RISK INSIGHT

Supply security is becoming as important as supply availability.

As demand expands across multiple energy basins while production remains concentrated in a limited number of origins, logistics reliability, freight exposure, and sourcing flexibility are becoming critical market factors.

TRADE IMPLICATION

Barite demand may remain resilient even if rig growth slows.

Traditional indicators such as rig count may understate demand as modern wells require greater drilling fluid volumes and more complex drilling programs than conventional developments.

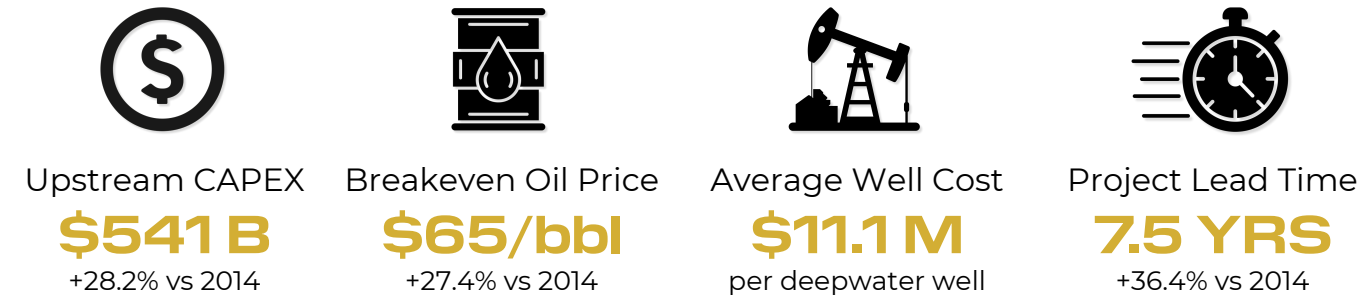
THE SHIFT

THE DRILLING IS BECOMING MORE INTENSIVE

MORE INPUTS, FLATTER OUTPUT

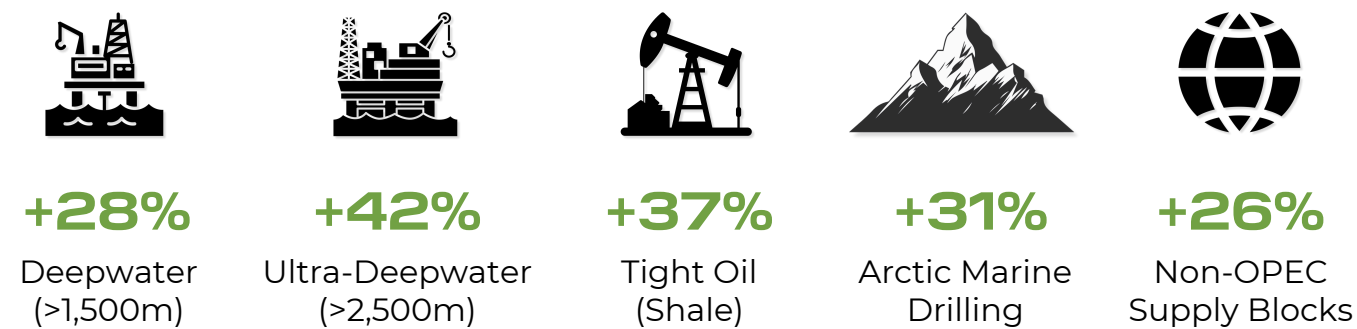
| Year | Global Rig (Active Rigs) | Global Oil Production (Million bpd) | Market Phase |
|------|--------------------------|-------------------------------------|----------------------------------|
| 2022 | 1,346 | 93.8 | Post-Pandemic Energy Shock |
| 2023 | 1,412 | 101.8 | Technological Efficiency Peak |
| 2024 | 2,138 | 103.6 | The High-Intensity Drilling Peak |
| 2025 | 1,815 | 103.9 | Consolidation & M&A Activity |
| 2026 | 1,761 | 104.5 | The Current Discipline Plateau |

CORE STRUCTURAL INDUSTRY METRICS



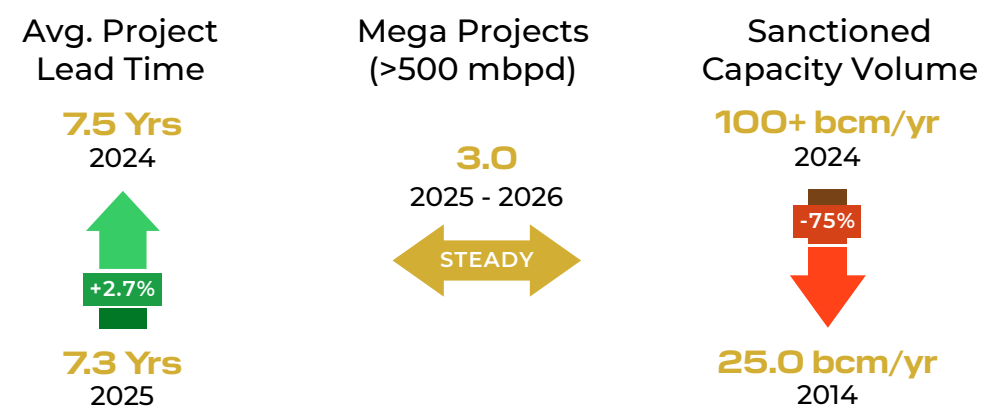
Note: Percentages represent the change from the 2014 baseline to projected 2026 levels..

HARDER TO ACCESS RESOURCES ARE DRIVING THE SHIFT

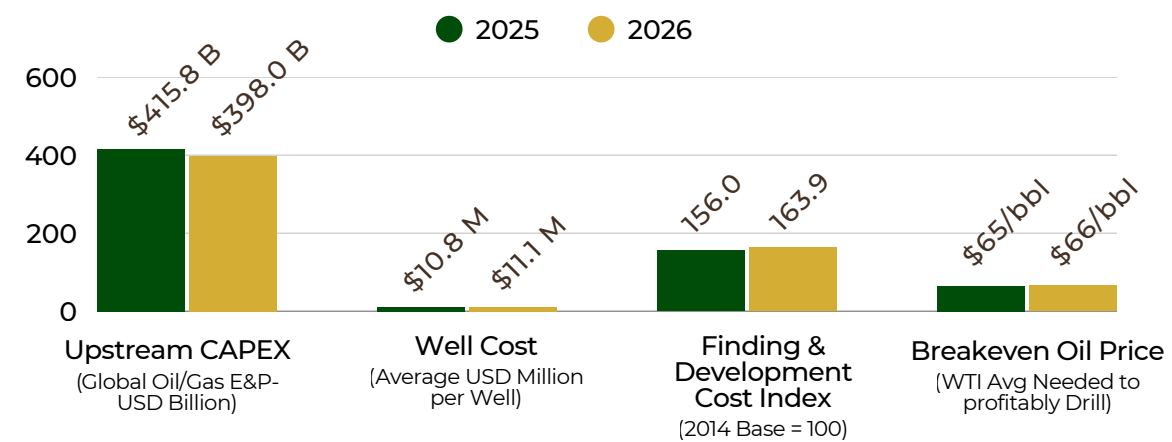


With shallow reservoirs depleted, complex high-risk environments have increased since 2014.

THE NEW ENERGY LANDSCAPE



RISING COST OF DELIVERING SUPPLY



MARKET SIGNAL

Barite demand is increasingly linked to drilling intensity rather than drilling activity.

While rig growth remains moderate, deeper wells, longer laterals, and more complex drilling programs are increasing material requirements per project.

PROCUREMENT RISK

Traditional demand forecasting models may understate future barite requirements.

Relying solely on rig counts may overlook the growing material intensity associated with deepwater, shale, and high-pressure drilling environments.

Tip: Monitor project complexity alongside drilling activity when assessing future demand.

TRADE IMPLICATION

Supply security is becoming more important than spot availability.

As drilling programs become more dependent on specialized inputs, disruptions in sourcing, logistics, or freight networks can have a greater impact on project execution and procurement costs.

Tip: Evaluate sourcing resilience and freight exposure in addition to pricing.

THE TRADE FLOW

THE DISTANCE BETWEEN SUPPLY & DEMAND

SUPPLY HUBS WHERE BARITE COMES FROM

~30%
CHINA

~26%
INDIA

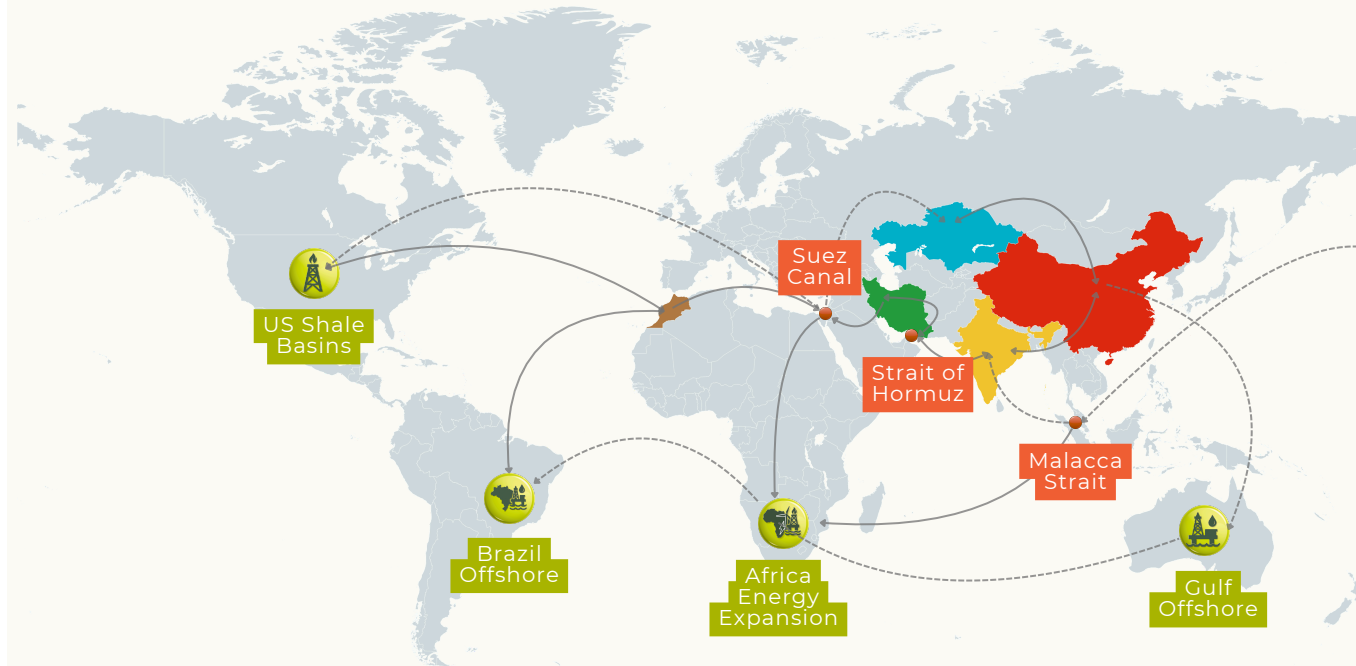
~10%
MOROCCO

~5%
KAZAKHSTAN

~4%
IRAN

GLOBAL BARITE TRADE FLOW MAP

CHINA INDIA KAZAKHSTAN IRAN MOROCCO



EMERGING DEMAND CENTERS

US SHALE BASINS
Driven by horizontal drilling & completions
HIGH & STABLE DEMAND

GULF OFFSHORE
Deepwater & offshore drilling activity
CRITICAL SUPPLY HUB

BRAZIL OFFSHORE
Pre-salt drilling expansion drives rising demand
LONG-HAUL IMPORTS

AFRICA ENERGY EXPANSION
New exploration & drilling projects across Africa
DEMAND SET TO GROW

MARKET SIGNAL

Barite demand is expanding across multiple energy basins while supply remains concentrated in a limited number of origins.

The market is increasingly dependent on long-haul trade routes connecting a small group of producers to geographically diverse drilling regions.

SUPPLY RISK

The greatest threat to supply may be logistics rather than mining output.

As demand expands across offshore and shale markets, disruptions in freight corridors, port operations, or transit routes can impact availability faster than changes in production.

Tip: Monitor Suez, Hormuz, and Asia-Europe freight corridors alongside production trends

CRITICAL CHOKE POINTS



STRAIT OF HORMUZ

~20% of global oil & bulk trade passes through this strait

EXTREME GEOPOLITICAL RISK



SUEZ CANAL

~12% of global trade passes through the Suez Canal

CONGESTION & DIVERSION RISK



MALACCA STRAIT

~60% of global seaborne trade to Asia passes through here

HIGH DEPENDENCY CORRIDOR

FREIGHT EXPOSURE



LONG HAUL DISTANCE

3,000 - 20,000+ nautical miles



FREIGHT COST VOLATILITY

Sensitive to fuel, demand & trade disruptions.



TRANSIT TIME RISK

Delays at ports & chokepoints impact reliability



INSURANCE & RISK PREMIUM

Rising premiums in high-risk corridors

TRADE IMPLICATION

Supply security is becoming a competitive advantage.

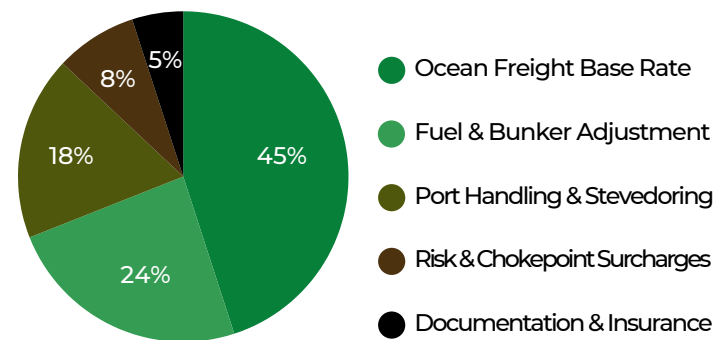
Import-dependent buyers may increasingly benefit from diversified sourcing strategies rather than relying on a single origin or corridor.

Tip: Evaluate origin diversity, freight exposure, and corridor dependency when assessing procurement risk.

THE HIDDEN MARKET DRIVERS

FREIGHT & OPERATIONAL EXPOSURE

FREIGHT COST BUILD-UP BREAKOUT



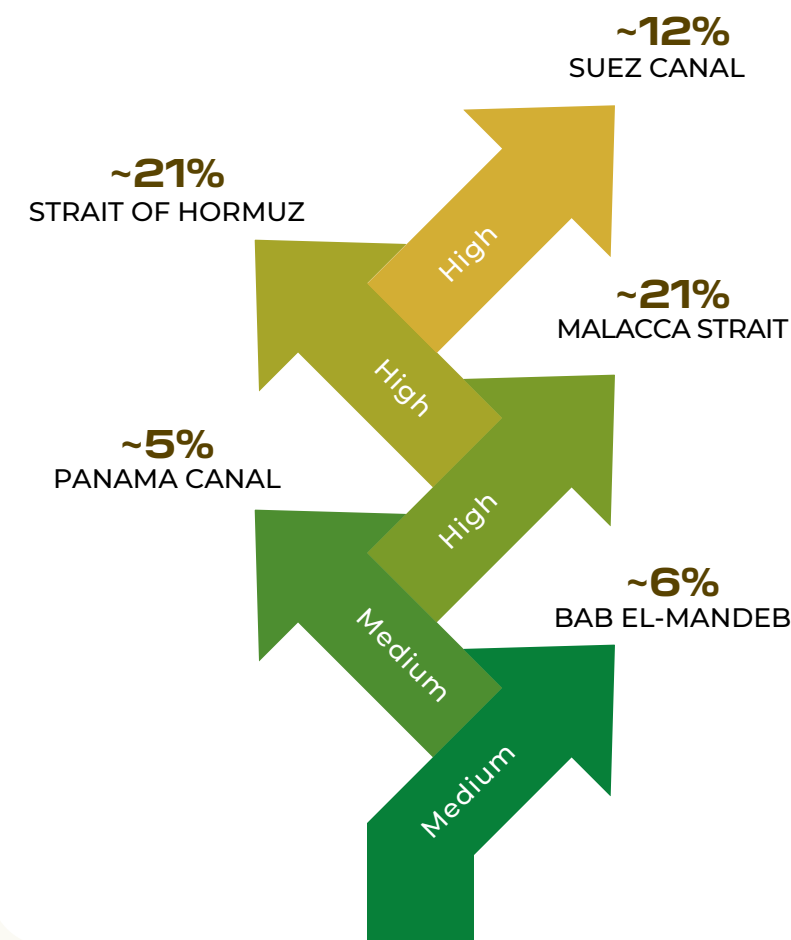
FROM OCEAN FREIGHT TO PORT HANDLING, EVERY OPERATIONAL VARIABLE SHAPES THE TRUE COST OF COMMODITY TRADE (JUNE 2026 VS JUNE 2025)



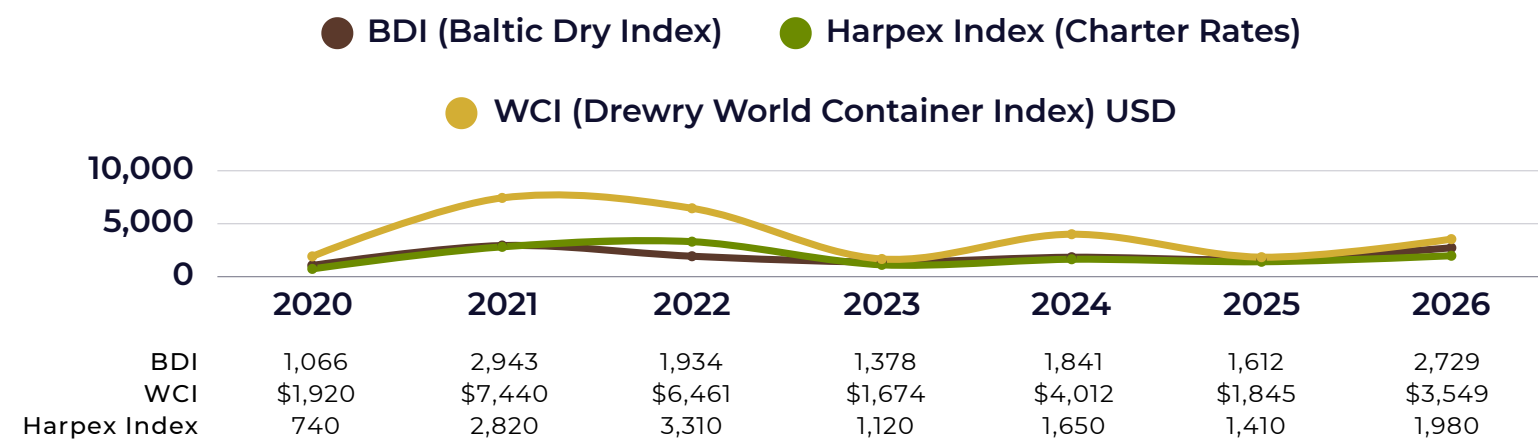
OPERATIONAL EXPOSURES IMPACTING COMMODITY TRADE

| FACTOR | MARINE FUEL COST | PORT CONGESTION | EQUIPMENT AVAILABILITY | WEATHER DISRUPTIONS | GEOPOLITICAL RISK |
|---------------------|------------------|-----------------|------------------------|---------------------|-------------------|
| IMPACT ON COST | High | High | Medium | Medium | High |
| IMPACT ON LEAD TIME | Low | High | Medium | High | High |
| TREND (2024-2025) | Rising | Higher | Improving | Volatile | Elevated |

KEY CHOKPOINTS: RISK SNAPSHOTS (GLOBAL SHARE & RISK LEVEL)



OCEAN FREIGHT TRENDS (2020-2026)



MARKET SIGNAL

Commodity pricing is increasingly influenced by operational variables beyond production.

As supply chains become longer and more exposed to freight, fuel, congestion, and corridor risks, delivered cost is being shaped by how commodities move, not just where they are produced.

RISK INSIGHT

The greatest cost risk may occur after the commodity leaves the mine.

For globally traded minerals such as barite, freight volatility, transit delays, port congestion, and geopolitical disruptions can create cost fluctuations that exceed changes in production economics.

Tip: Monitor logistics indicators alongside commodity fundamentals when evaluating procurement exposure.

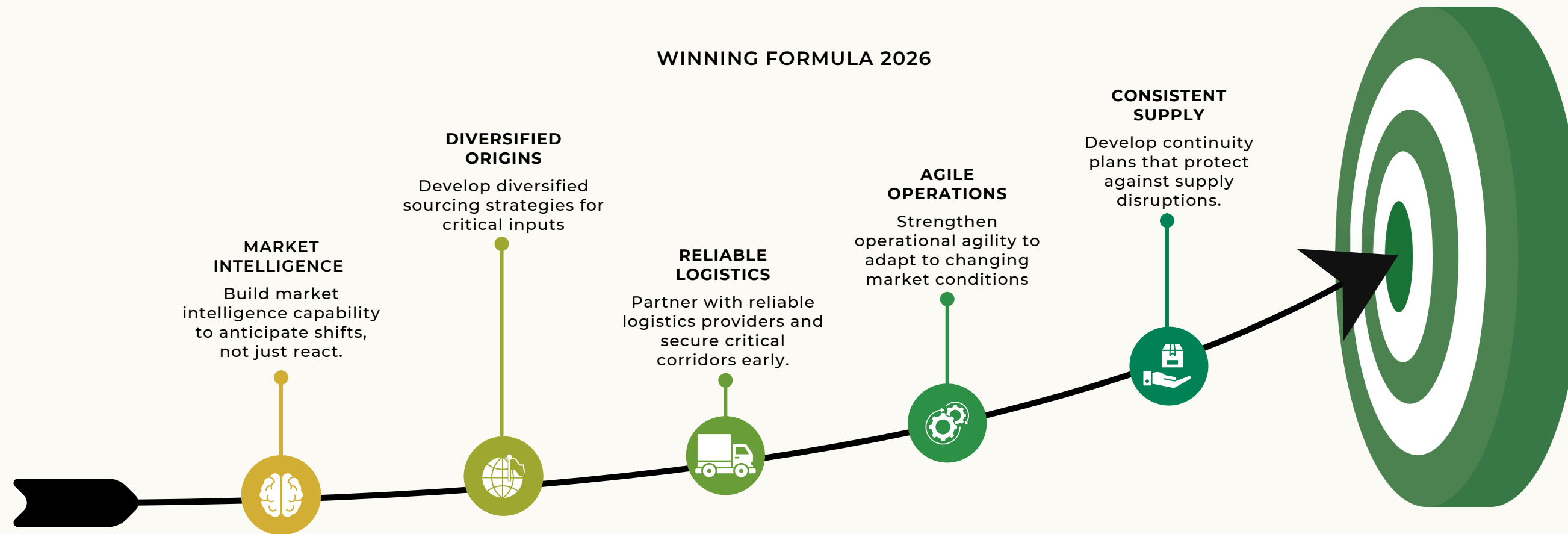
TRADE IMPLICATION

Operational agility is becoming a competitive advantage.

Buyers with diversified origins, flexible routing options, and stronger supply chain visibility are increasingly better positioned to manage landed costs, protect margins, and maintain supply continuity during market disruptions.

Tip: Focus on total delivered cost rather than origin price alone.

WINNING FORMULA 2026



KEY SIGNAL

Global energy demand continues to support drilling activity, while increasingly complex extraction environments reinforce the strategic importance of critical drilling inputs.

DISTANCE DRIVES COST

Greater distance means higher freight costs, more handling, longer transit times, and increased operational risk.

STRATEGIC IMPERATIVE

In the next decade, success will belong to those who control not just what is traded but how, where, when, and at what risk.

INSIGHT

A few countries produce. The world depends. Operational capability turns distance into opportunity,

THE EVOLUTION OF VALUE





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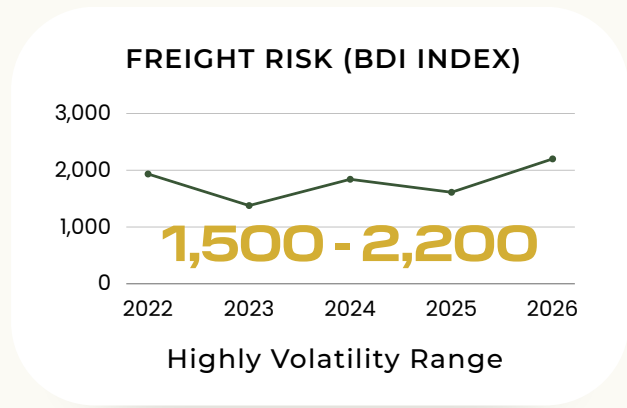
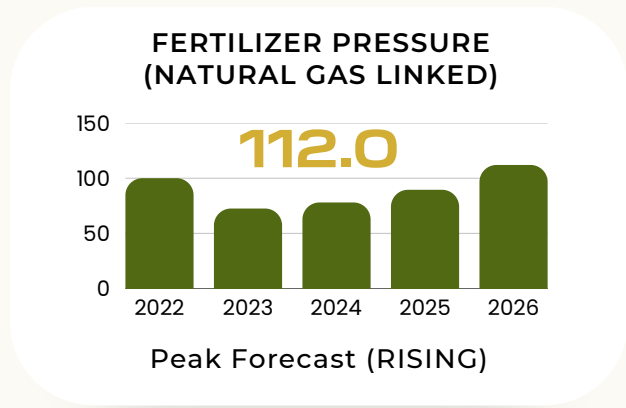
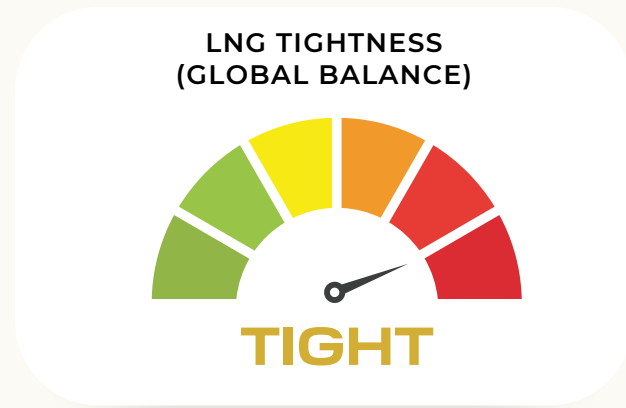
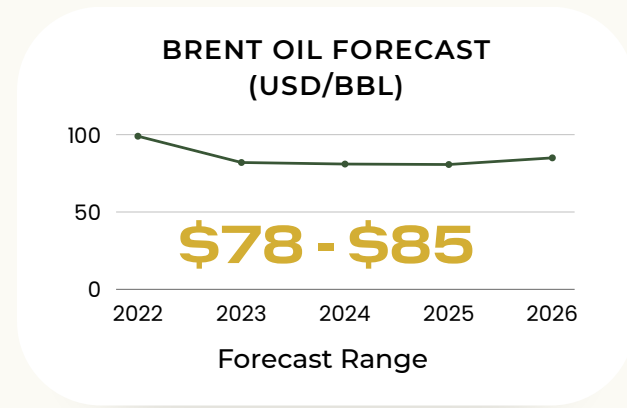
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THE MACRO VIEW ENERGY IS BECOMING HARDER TO EXTRACT



MACRO PRESSURE DRIVERS



Higher upstream extraction costs
Oilified maturity rising, more high-cost barrels

Impact Level: High



LNG competition with Asia
Structural demand premium for gas

Impact Level: Medium High



Slower new discoveries
Long-cycle replacement problem intensifies

Impact Level: High



OPEC + supply discipline
Lower spare capacity limits market cushion

Impact Level: High



Geopolitical
Strait & chokepoint vulnerabilities persist

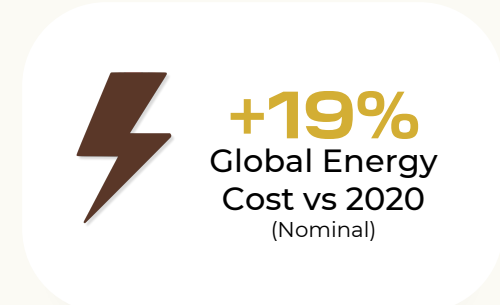
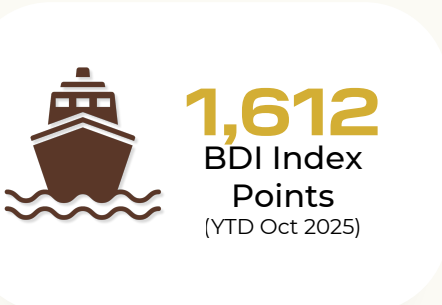
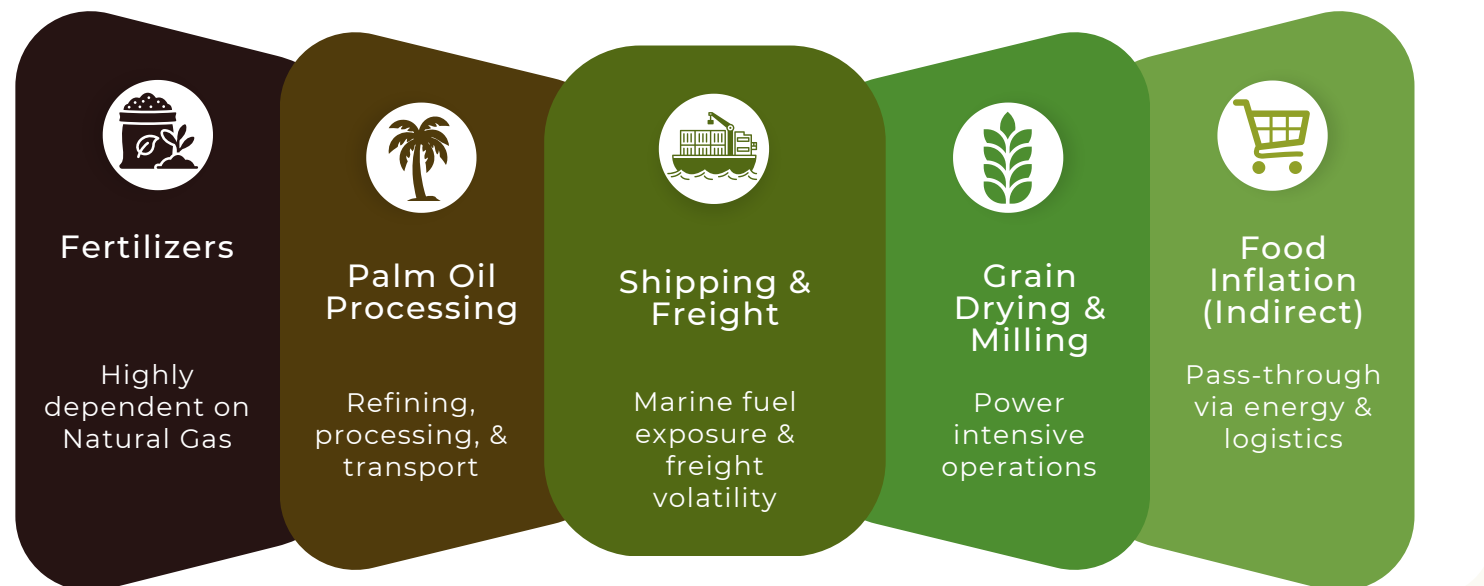
Impact Level: High



Energy transition bottlenecks
Mineral & copper intensity rising

Impact Level: Medium

COMMODITY TRANSMISSION IMPACT




THE MACRO VIEW ENERGY IS BECOMING HARDER TO EXTRACT


93.25
Brent Oil
(USD/bbl)




3,224
BDI Index
(Points)



3.33
Natural Gas
(USD/MMBtu)



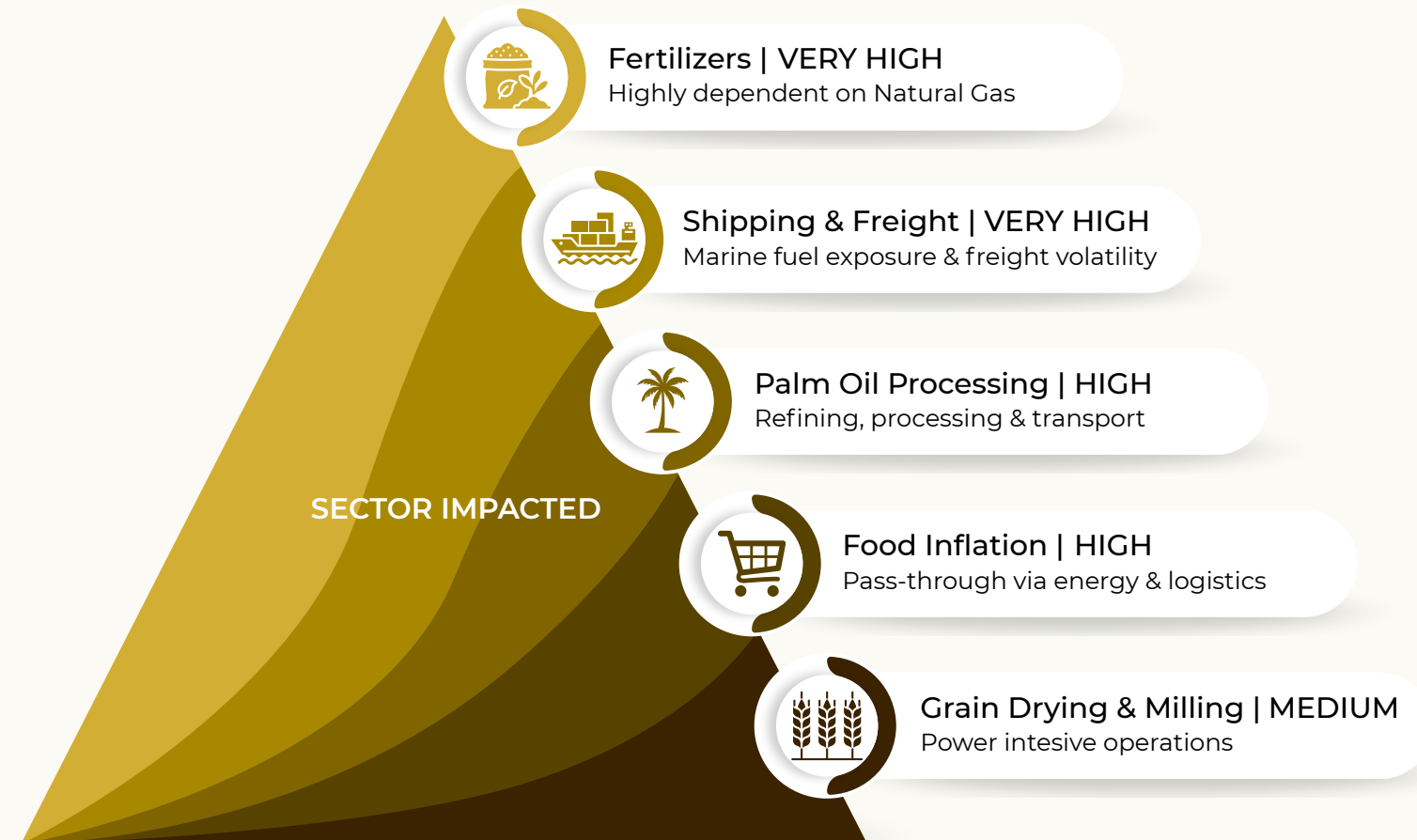
+165%
Global Energy
Cost VS 2020



MARKET SIGNAL

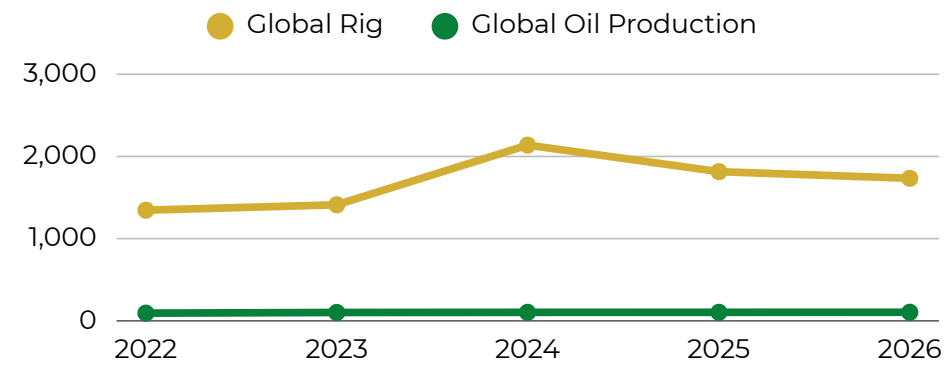
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COMMODITY TRANSMISSION IMPACT

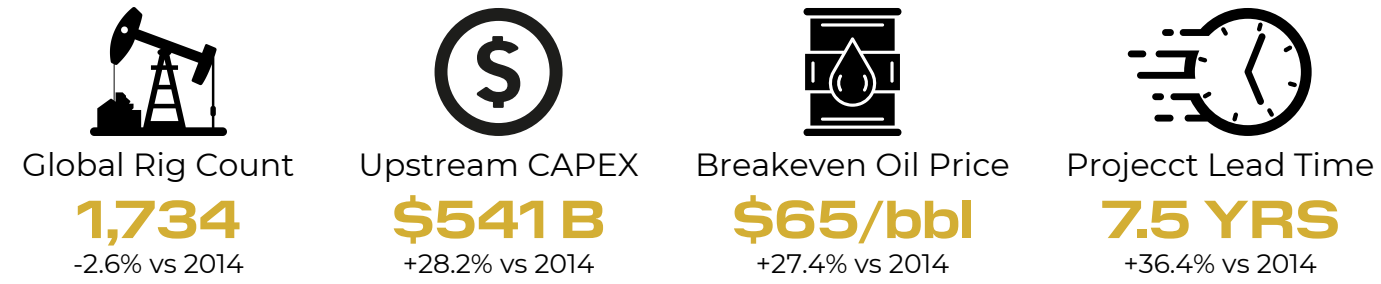


THE SHIFT THE DRILLING IS BECOMING MORE INTENSIVE

MORE INPUTS, FLATTER OUTPUT

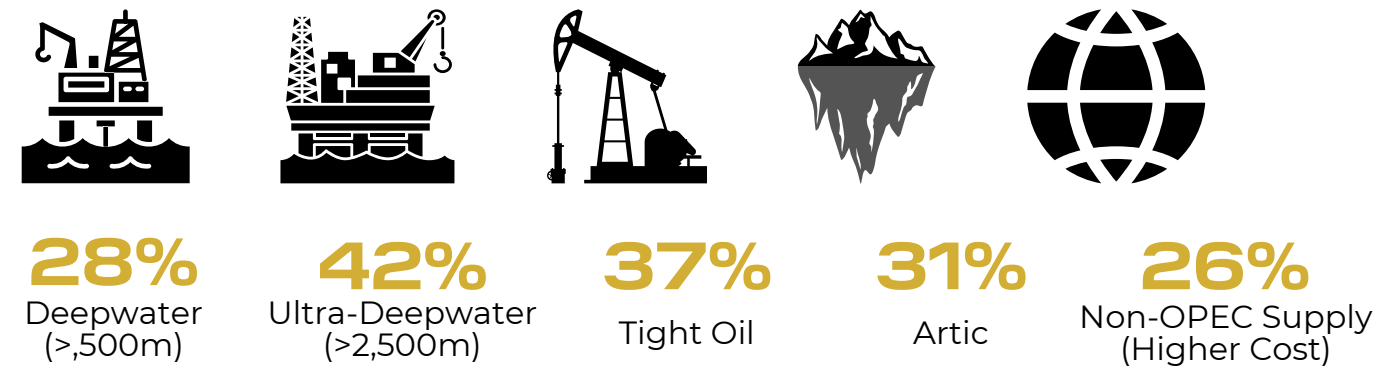


CORE STRUCTURAL INDUSTRY METRICS

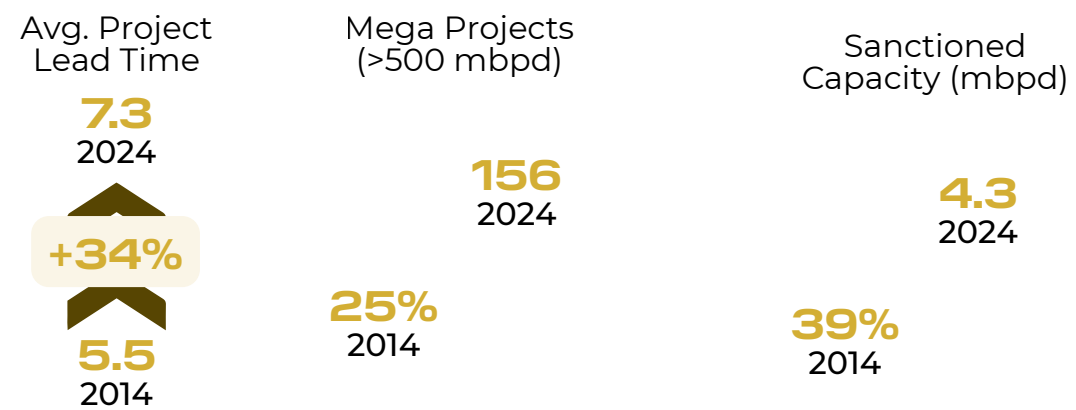


Note: The percentages transition directly from the 2014 baseline to the current 2026 levels.

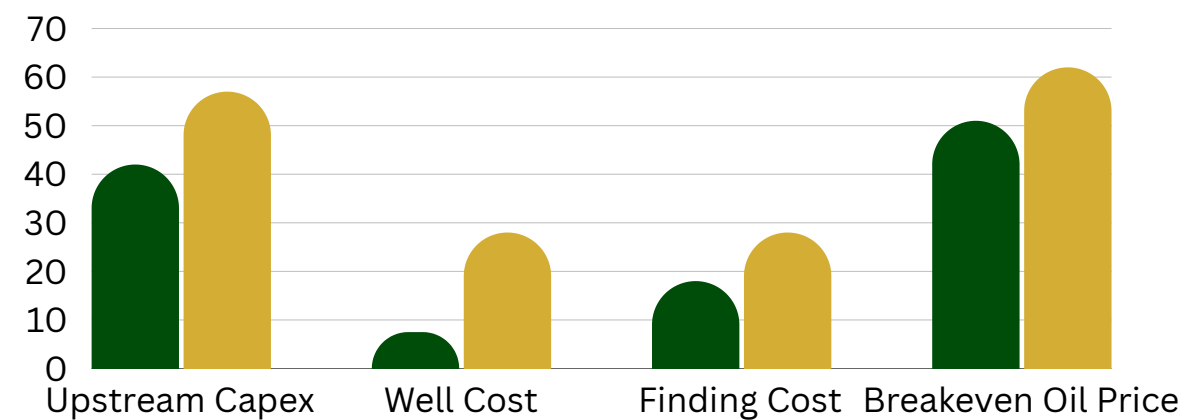
HARDER TO ACCESS RESOURCES ARE DRIVING THE SHIFT



LONGER LEAD TIMES, HIGHER COMPLEXITY



RISING COST TO DELIVERY SUPPLY

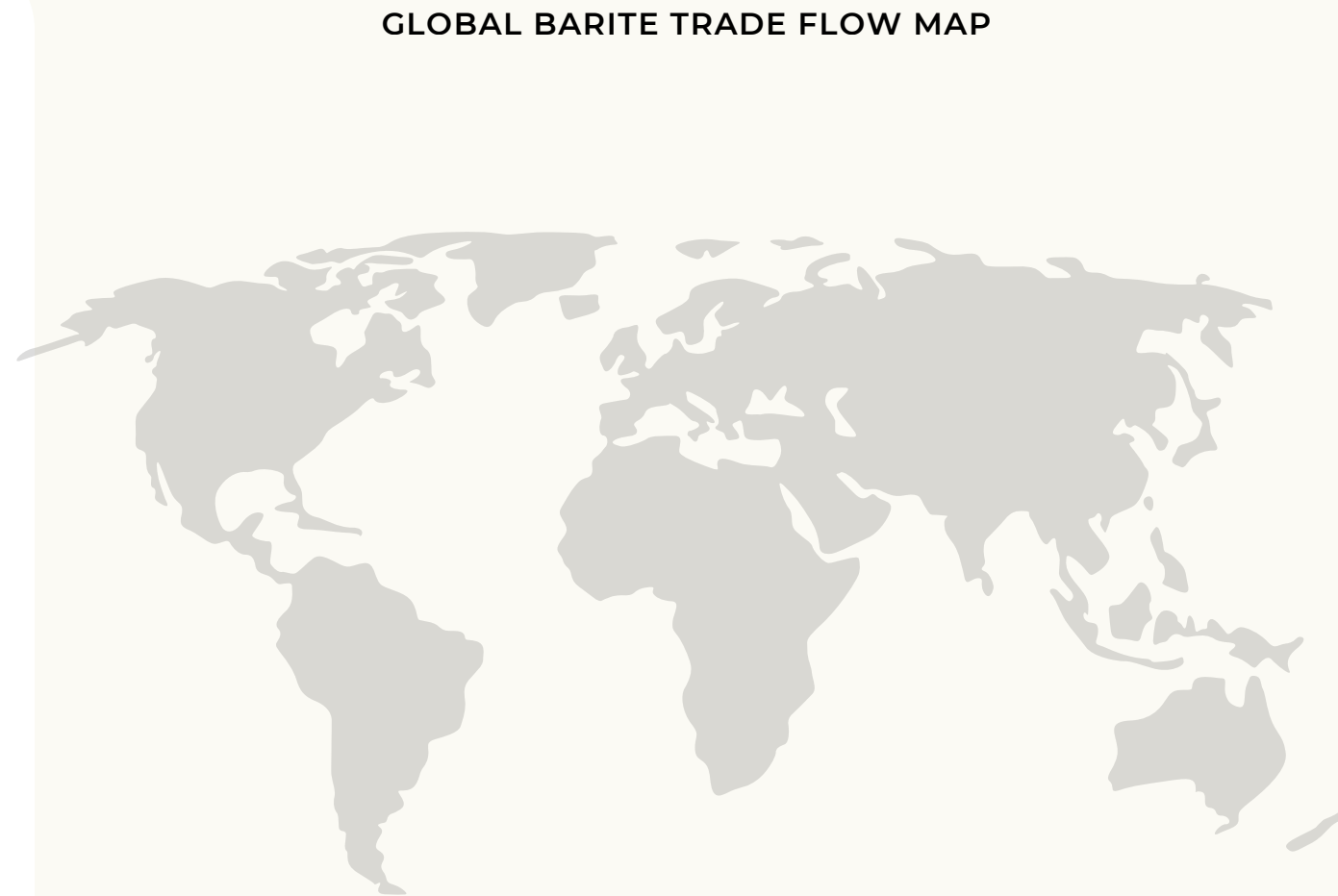


THE TRADE FLOW

THE DISTANCE BETWEEN SUPPLY & DEMAND

SUPPLY HUBS WHERE BARITE COMES FROM

- 27-33%**
CHINA
- ~26%**
INDIA
- ~10%**
MOROCCO
- ~5%**
KAZAKHSTAN
- ~4%**
IRAN



DEMAND PRESSURE ZONES

- US SHALE BASINS**
Driven by horizontal drilling & completions
HIGH & STABLE DEMAND
- GULF OFFSHORE**
Deepwater & offshore drilling activity
CRITICAL SUPPLY HUB
- BRAZIL OFFSHORE**
Pre-salt drilling expansion drives rising demand
LONG-HAUL IMPORTS
- AFRICA ENERGY EXPANSION**
New exploration & drilling projects across Africa
DEMAND SET TO GROW

TRADE INSIGHT

Supply is concentrated, Demand is everywhere. Distance, freight, and corridor access now shape commodity pricing as much as production itself.

CRITICAL CHOKES POINTS

| STRAIT OF HORMUZ | SUEZ CANAL | MALACCA STRAIT |
|--|---|---|
| ~20% of global oil & bulk commodity sea trade passes through this strait | ~12% of global trade transits vi Suez Canal | ~60% of global seaborne trade to Asia passes here |
| Extreme geopolitical risk | Congestion & diversion risk | High dependency corridor |

FREIGHT EXPOSURE

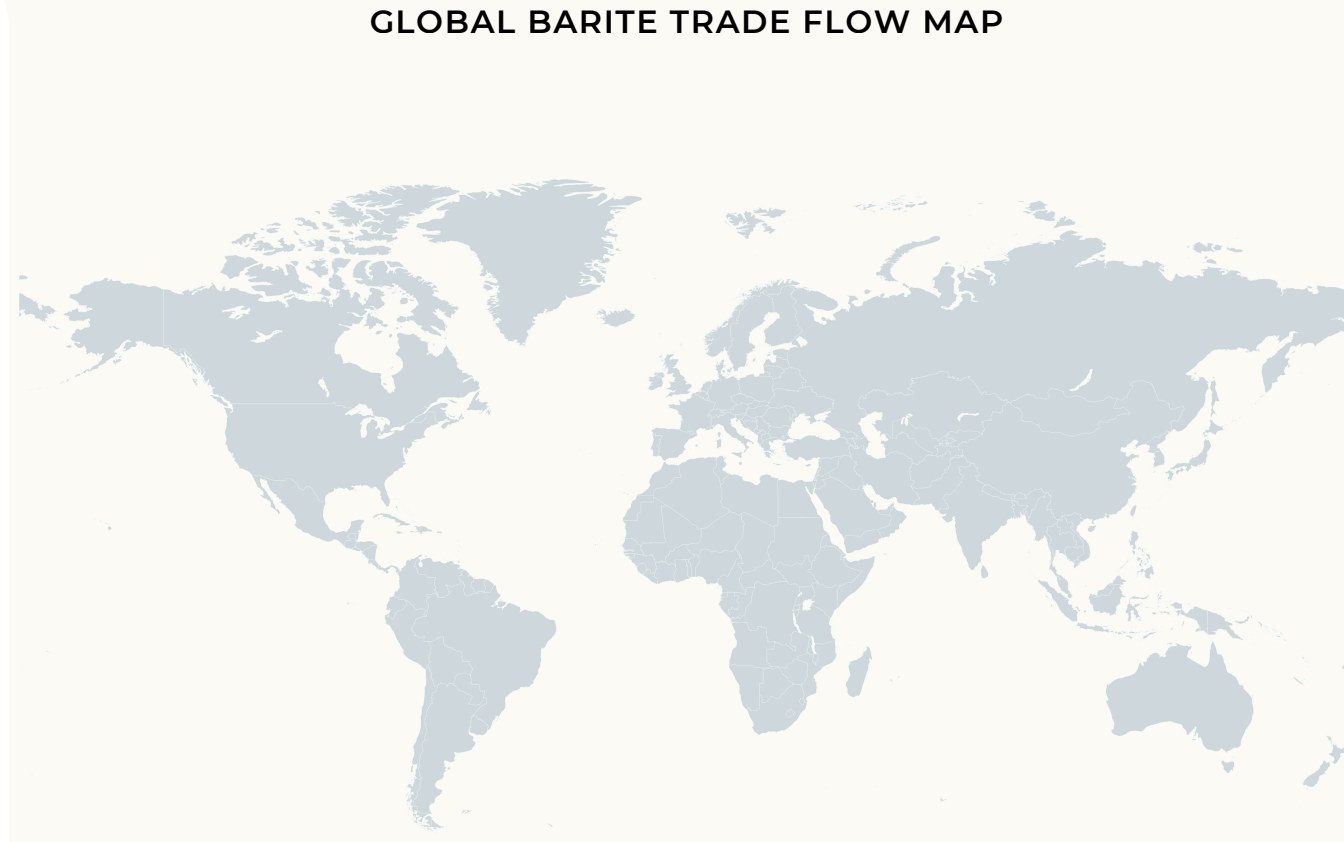
| LONG HAUL DISTANCE | FREIGHT COST VOLATILITY | TRANSIT TIME RISK | INSURANCE & RISK PREMIUM |
|--------------------------------|--|--|--|
| 3,000 - 20,000+ nautical miles | Sensitive to fuel, demand & trade disruptions. | Delays at ports & chokepoints impact reliability | Rising premiums in high-risk corridors |

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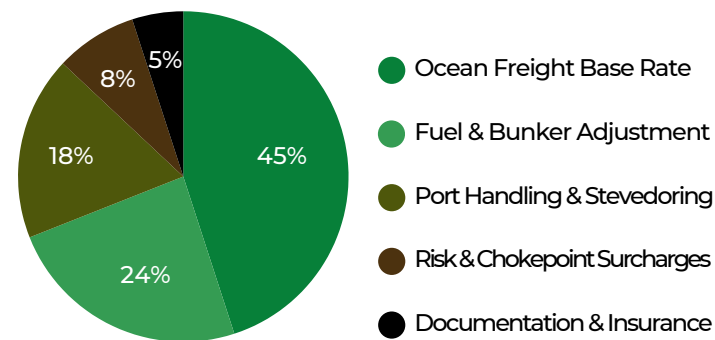
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FREIGHT EXPOSURE

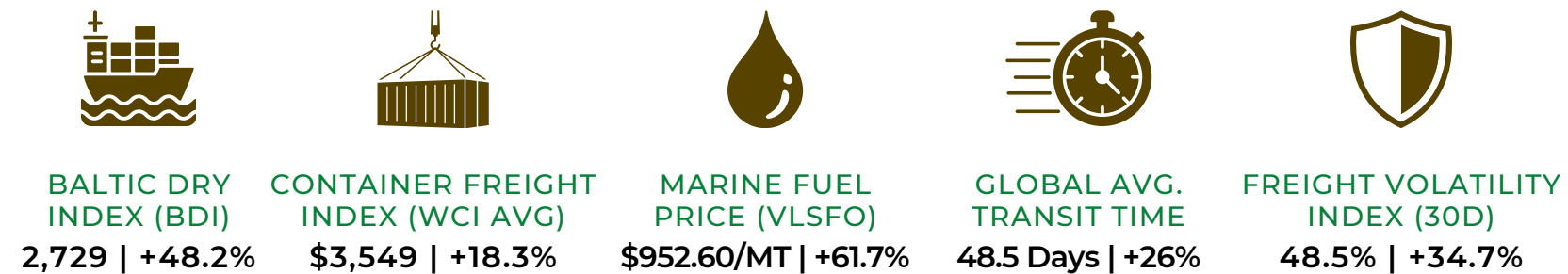
| | | | |
|--|---|---|--|
| <p>LONG HAUL DISTANCE</p> <p>3,000 - 20,000+ nautical miles</p> | <p>FREIGHT COST VOLATILITY</p> <p>Sensitive to fuel, demand & trade disruptions.</p> | <p>TRANSIT TIME RISK</p> <p>Delays at ports & chokepoints impact reliability</p> | <p>INSURANCE & RISK PREMIUM</p> <p>Rising premiums in high-risk corridors</p> |
|--|---|---|--|

THE HIDDEN MARKET DRIVERS FREIGHT & OPERATIONAL EXPOSURE

FREIGHT COST BUILD-UP BREAKOUT



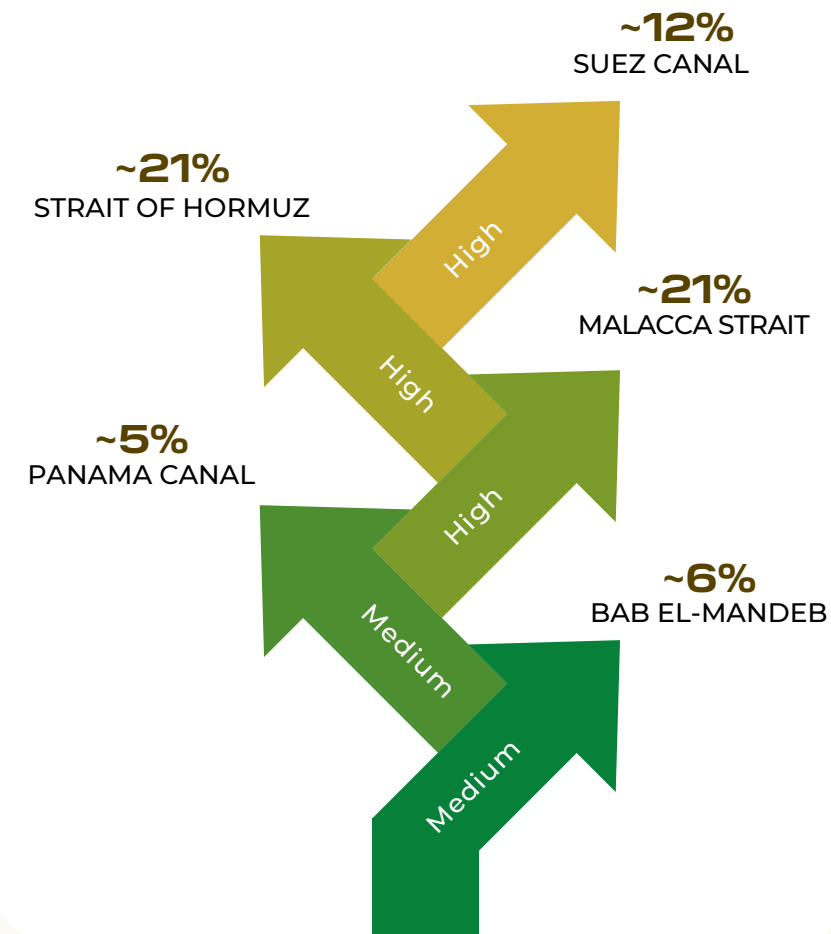
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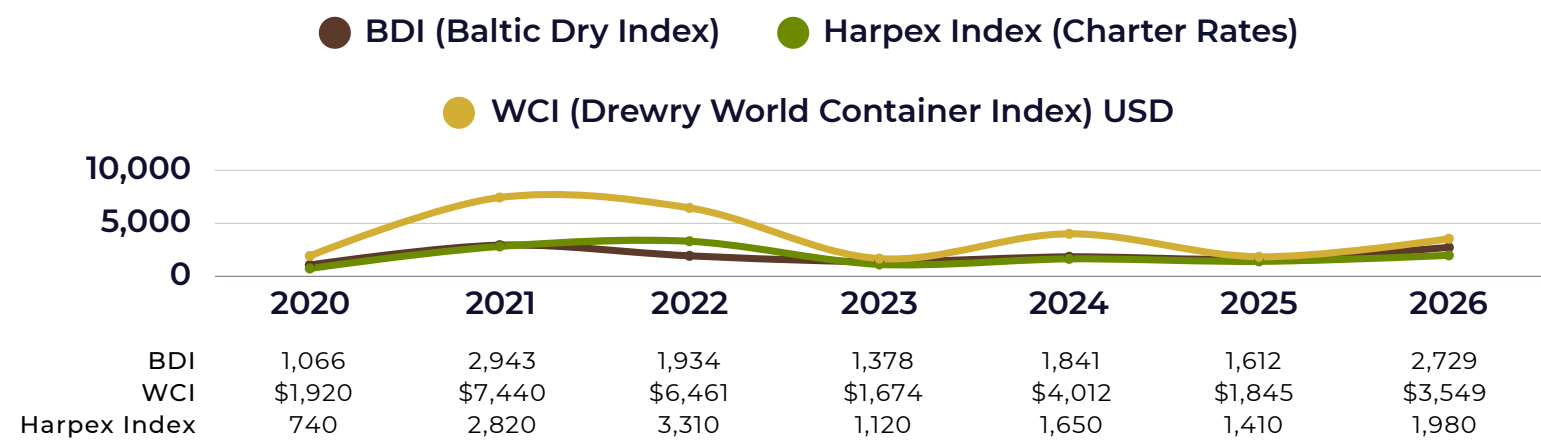
OPERATIONAL EXPOSURES IMPACTING COMMODITY TRADE

| FACTOR | | | | | | |
|---------------------|--------|--------|-----------|----------|----------|--|
| IMPACT ON COST | High | High | Medium | Medium | High | |
| IMPACT ON LEAD TIME | Low | High | Medium | High | High | |
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KEY CHOKPOINTS: RISK SNAPSHOTS (GLOBAL SHARE & RISK LEVEL)



OCEAN FREIGHT TRENDS (2020-2025)



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RISK INSIGHT

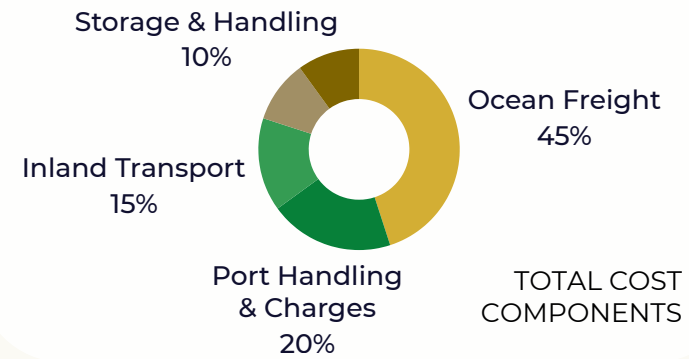
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TRADE IMPLICATION

Operational agility is becoming a competitive advantage. Buyers with diversified origins, flexible routing options, and stronger supply chain visibility are increasingly better positioned to manage landed costs, protect margins, and maintain supply continuity during market disruptions. Tip: Focus on total delivered cost rather than origin price alone.

THE HIDDEN MARKET DRIVERS FREIGHT & OPERATIONAL EXPOSURE

FREIGHT COST BUILD-UP (TYPICAL BULK SHIPMENT)



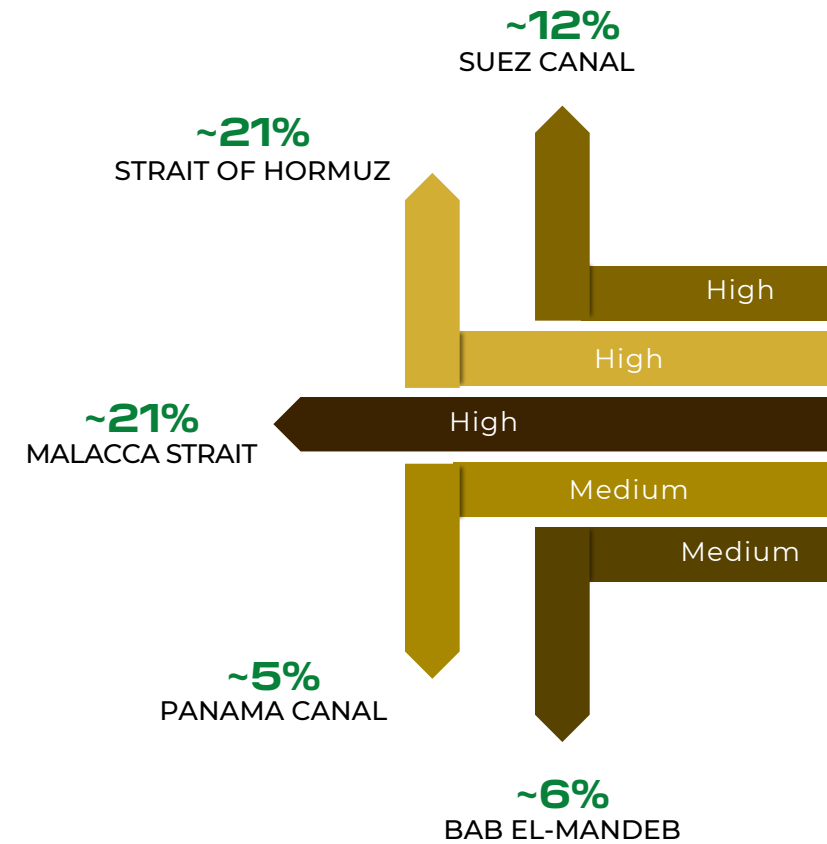
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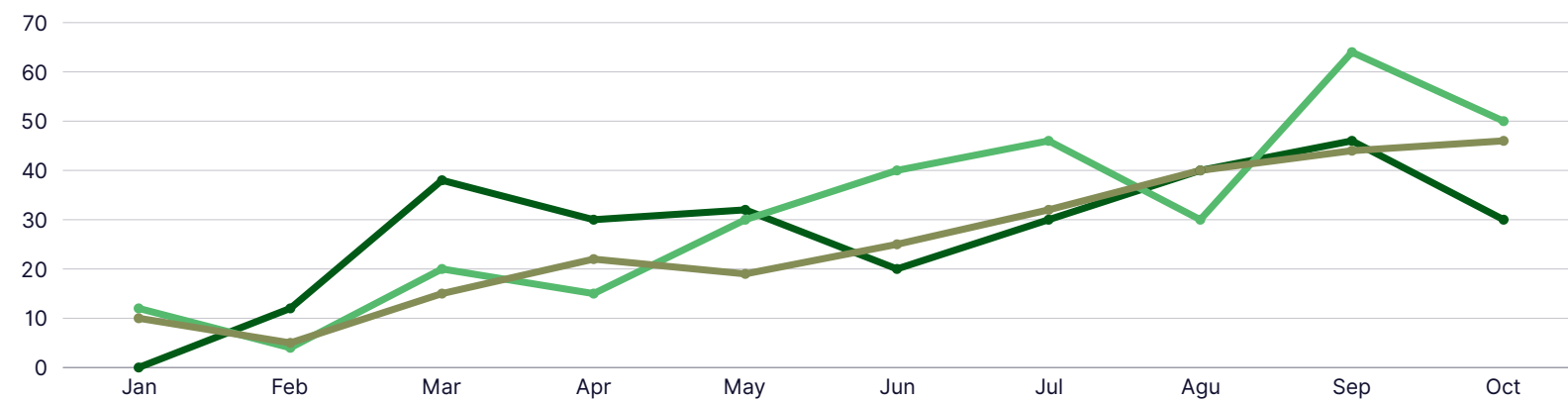
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|---------------------|--------|--------|-----------|----------|----------|
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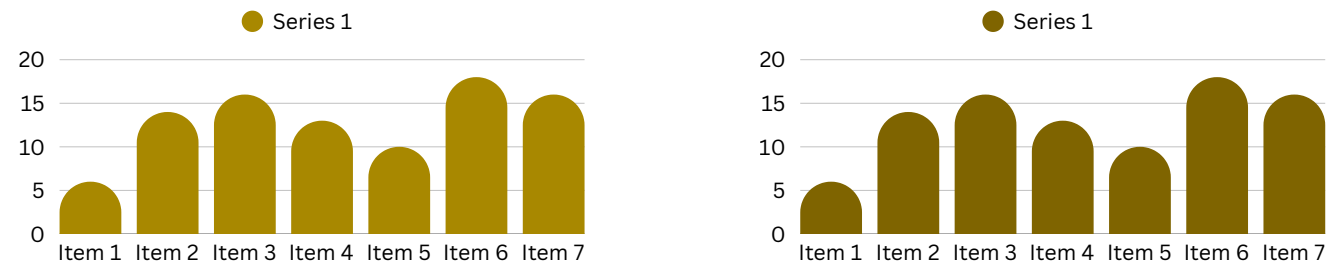


OCEAN FREIGHT TRENDS (2019-2025)

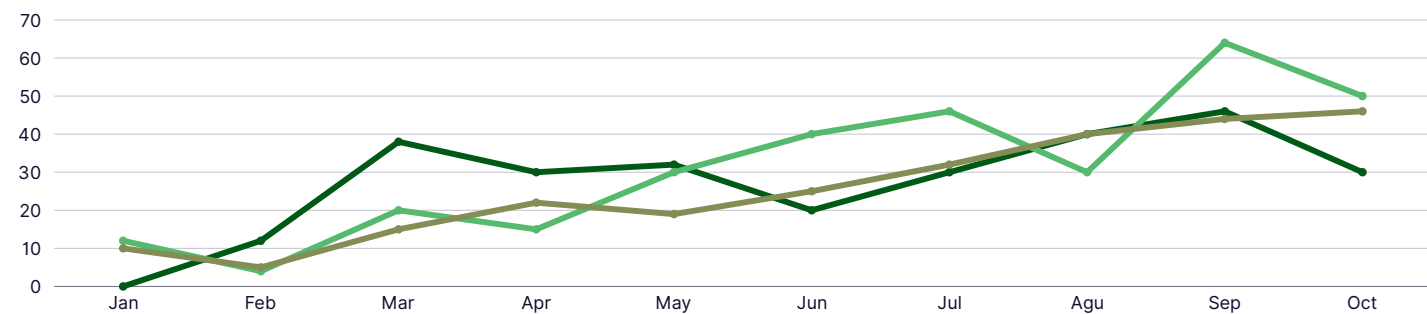


THE OUTLOOK THE RISE OF OPERATIONAL COMMODITIES

SUPPLY CONCENTRATION VS DEMAND DISTRIBUTION

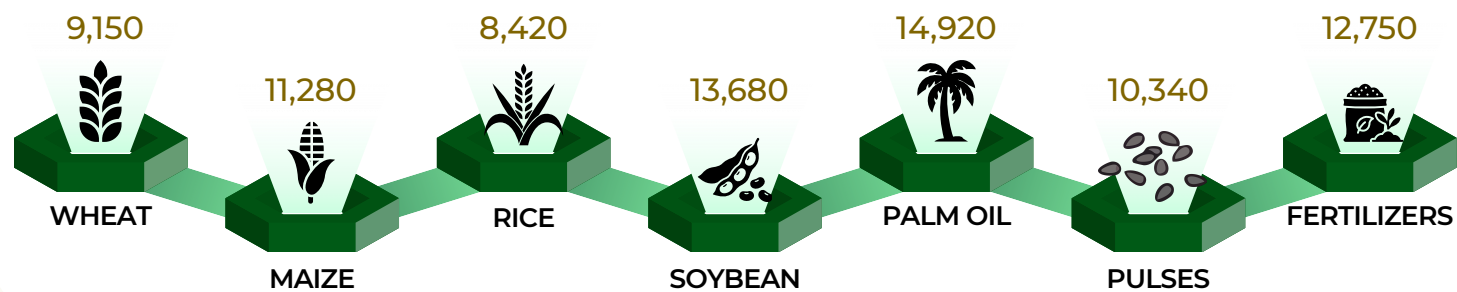


GLOBAL AGRI COMMODITY TRADE OUTLOOK (MMT)

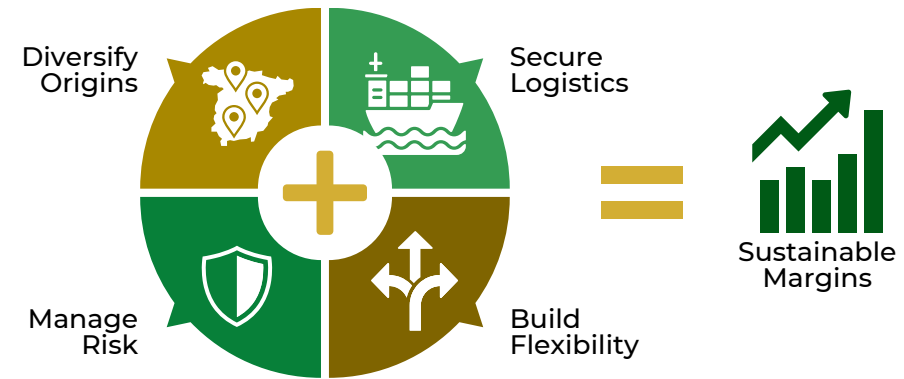


LONGER DISTANCE, HIGHER OPERATIONAL EXPOSURE

Weighted Average Distance in km (From Export Origin to Major Demand Markets)



WINNING FORMULA 2026+



LOOKING AHEAD: 2034 OUTLOOK SNAPSHOT



Global Population 2034 (Est.)
8.6 B
+6% vs 2024

Food Demand 2034 (Projected)
+14%
vs 2024

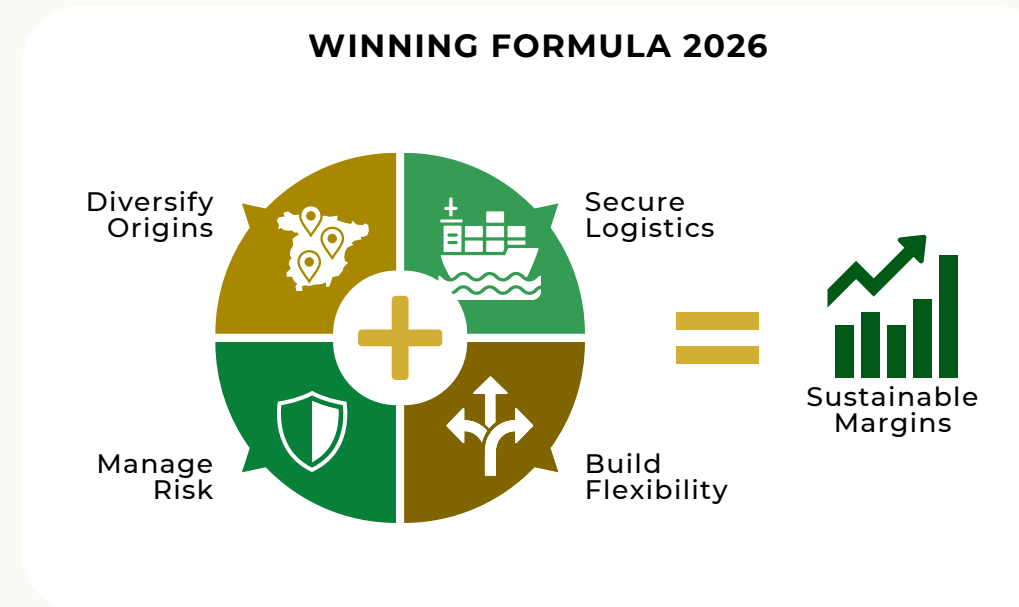
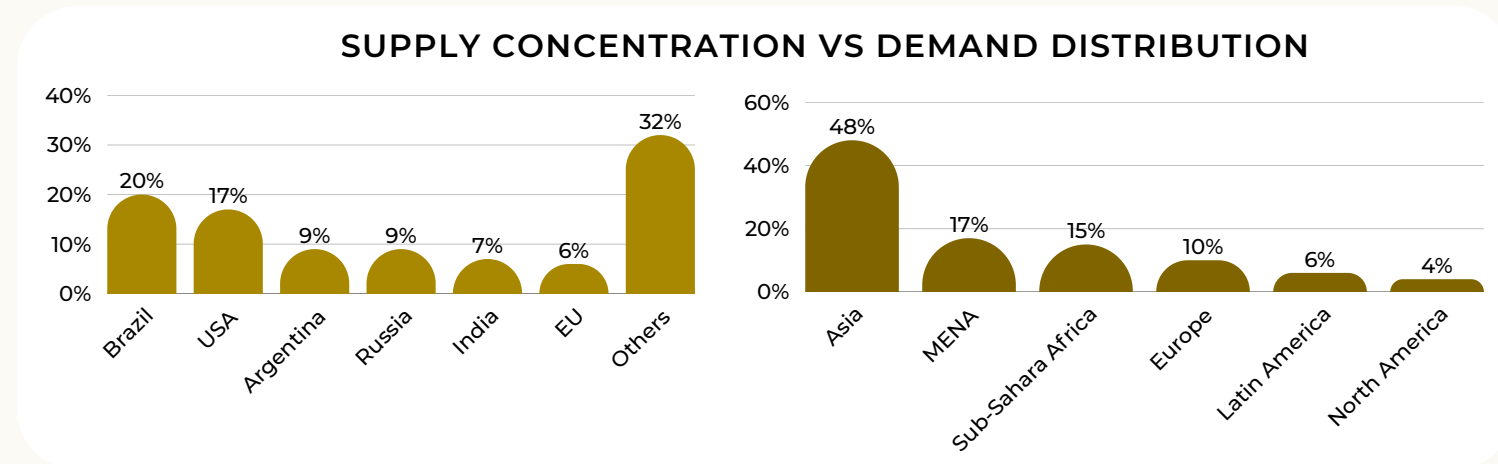
Agri Commodity Trade Value 2034
\$2.1 T
vs 2024

Seaborne Trade Share 2034
~86%
of total trade

Operational Risk premium 2034
HIGHER
vs 2024

Strategic Focus 2026+
**RESILIENCE
FLEXIBILITY
EXECUTION**

THE OUTLOOK THE RISE OF OPERATIONAL COMMODITIES

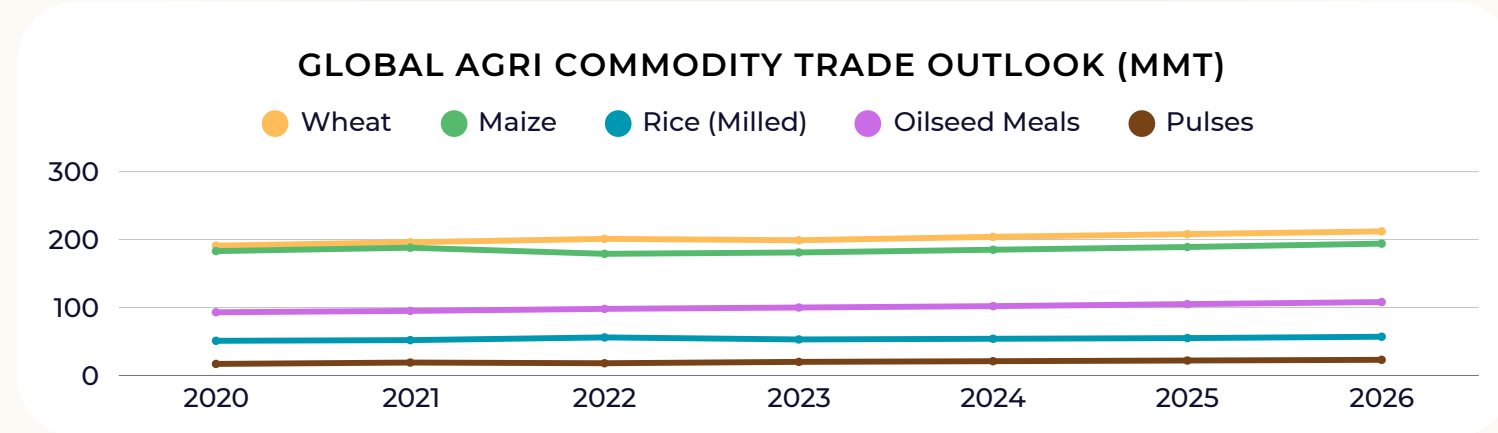


KEY SIGNAL

Trade volumes continue to climb across all commodities through 2034, driven by population growth, dietary shifts, and rising demand for animal protection.

DISTANCE DRIVES COST

Greater distance means higher freight, more handling, longer transit time, and increased risk. All of which impact your final landed cost.



LOOKING AHEAD: 2034 OUTLOOK SNAPSHOT

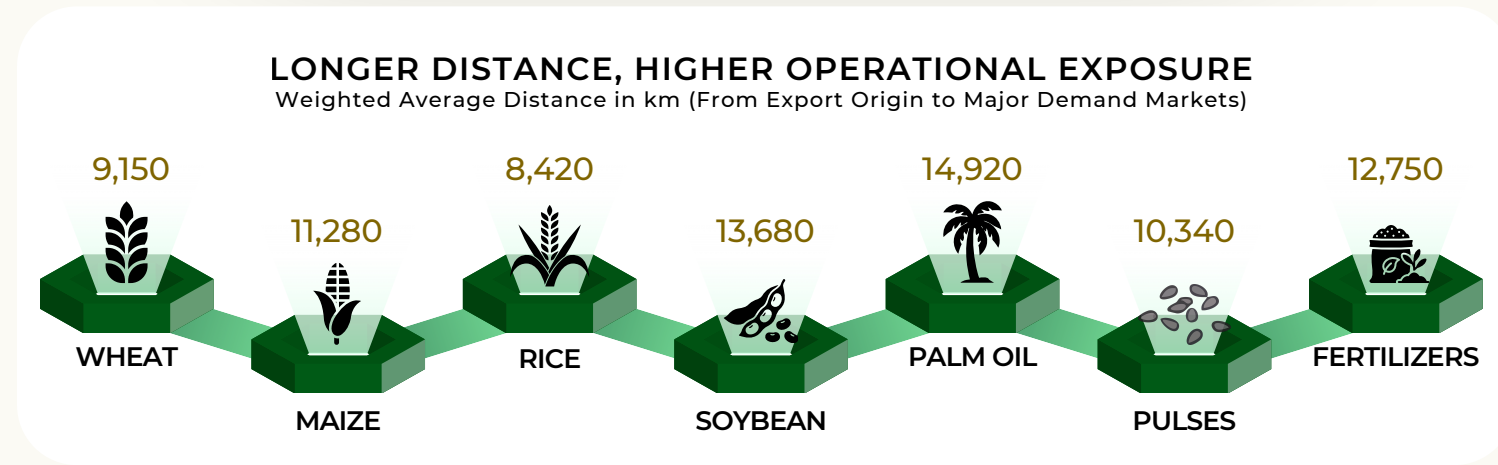
| | | |
|------------------------|---|--------------|
| Global Agri Production | 3,025 MMT | +9% vs 2024 |
| Global Agri Trade | ~2,100 MMT | +23% vs 2024 |
| Seaborne Trade Share | ~86% | Stable High |
| Operational Complexity | Significantly Higher | vs 2024 |
| Value Shift | From "Commodity" to "Operational Commodity" | |

STRATEGIC IMPERATIVE

In the next decade, success will belong to those who control not just what is traded but how, where, when, and at what risk.

INSIGHT

A few countries produce. The world depends. Operational capability turns distance into opportunity,



| | | | | | |
|---|---|--|---|--|--|
| <p>Global Population 2034 (Est.) 8.6 B +6% vs 2024</p> | <p>Food Demand 2034 (Projected) +14% vs 2024</p> | <p>Agri Commodity Trade Value 2034 \$2.1 T +23% vs 2024</p> | <p>Seaborne Trade Share 2034 ~86% of total trade</p> | <p>Operational Risk premium 2034 HIGHER vs 2024</p> | <p>Strategic Focus 2026+ RESILIENCE FLEXIBILITY EXECUTION</p> |
|---|---|--|---|--|--|