




In smart partnership with  **Barloworld**
Logistics

Supply chain complexities

Holistic solution to address
constraints faced by shippers

9th Indian Ocean Ports & Logistics

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Typical Constraints

INFRASTRUCTURE vs VOLUME	Rail, road & port capacity creates a disconnect invariably due to required investment behind the demand curve.
PRICING EFFICIENCIES	Market pricing vs supply chain design/costing.
NEW ENTRANTS	<ul style="list-style-type: none">• Insufficient infrastructure capacity allocation to new entrants.• Inadequate supply chain know-how; simple lack of experience.
TEDIOUS	Tedious process to arrange and manage the supply chain from inland stockpile to terminal operators.
DISCONNECTED	Road and rail logistics service providers are often disconnected, often due to different return on investment priorities.
COMPLEX	The tally / recon process to finalise shipment actuals can be complex.



Holistic supply chain solution development considerations

So what does the Market need?

Supply chain solutions that are all inclusive, robust, smart, efficient & cost effective.

In essence, the solution needs to deliver:

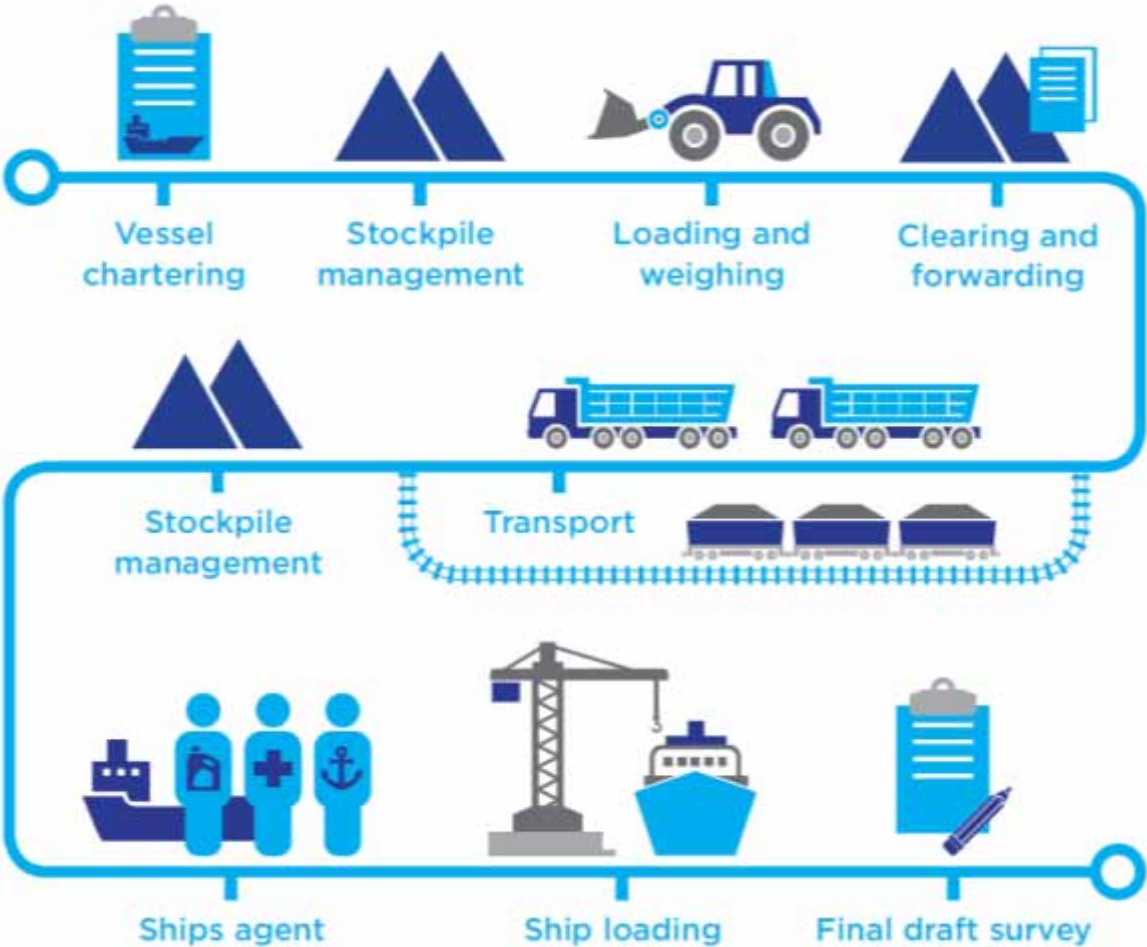
- A complete, transparent supply chain solution from Mine to Port;
- *that is-*
 - All inclusive, multimodal, managed, robust, reliable, smart, transparent & cost effective.
- *and has-*
 - Potential for early financial draw down against holding certificates in a “closed loop” logistics system.



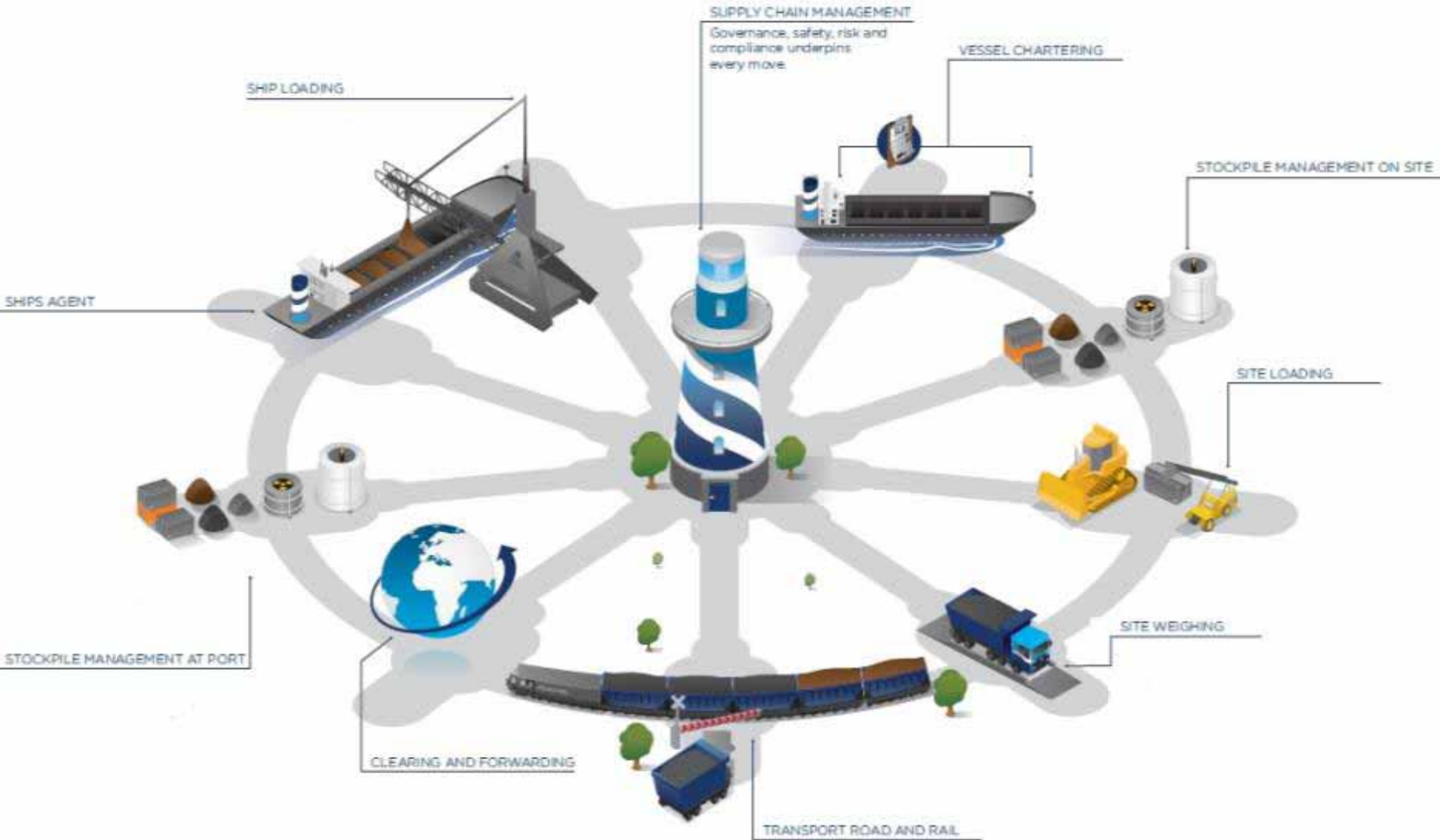
The Bulk - Transport Management System (B-TMS)



Supply chain Management
(Including Governance, Safety, Risk and Compliance)



Holistic approach to the B-TMS



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