

A photograph of a port terminal. In the foreground, there are stacks of shipping containers in red and blue. A large gantry crane is visible in the middle ground, extending over the water. The background shows more port infrastructure and a body of water under a blue sky with scattered clouds.

MER LION METALS

Shipper's Perspective Improving Efficiency in Ports and Terminals

Feb 12, 2015

Mer Lion Metals in Construction Industry

- STEEL SOLUTION PROVIDER
- PROJECT BASED WITH TAILORED SOLUTIONS
- ASIAN FOCUS
- PORT CONSTRUCTION
- WATERFRONT RELATED SOLUTIONS



Projects in Philippines

- Manila North Harbour Port Inc.
- Crane Rails MSW 2012
- Pier 10 Upgrading in 2012/2013
- Pier 10 Works in 2014



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Projects in Philippines

- DPWH Projects for Flood Control
- Manila, Visayas, Mindanao



Projects in Philippines

- Laguna Lake Project
- Flood Control



Projects in Philippines

- Importation of Steel Material
- In Manila / Davao Regions



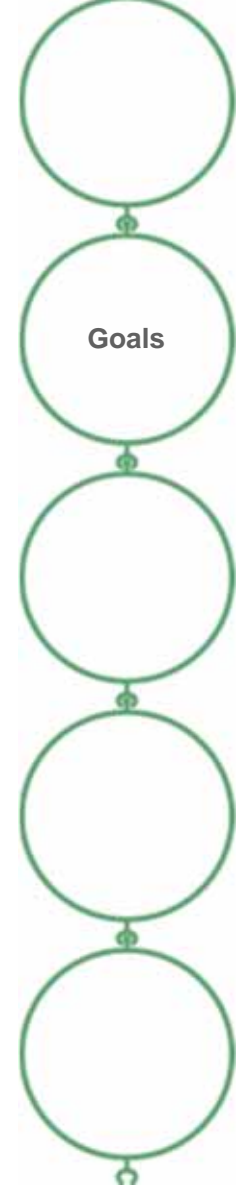
Projects in Singapore and Asia

- Other projects in Asia



Shipper's Perspective of Efficiency

- Fast Berthing
- Efficient Handling of Cargo for Discharging and Storage
- Retrieval of Goods
- Meeting Project Timelines & Schedule



Current Infrastructure We Utilize

- MICT
- ATI
- MNHPI (Domestic Only)
- Harbour Centre



Current Infrastructure We Utilize

- Davao SASA Port



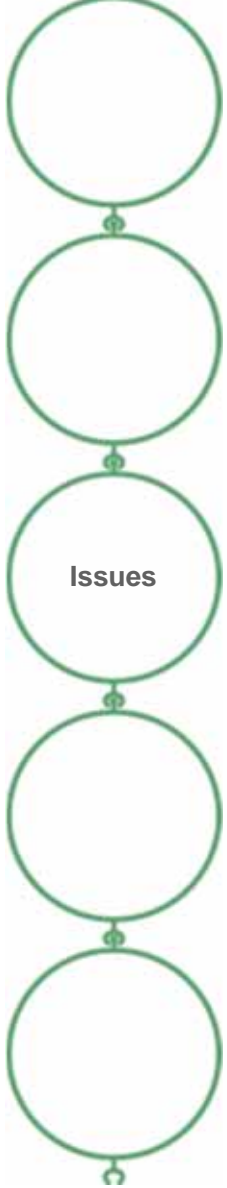
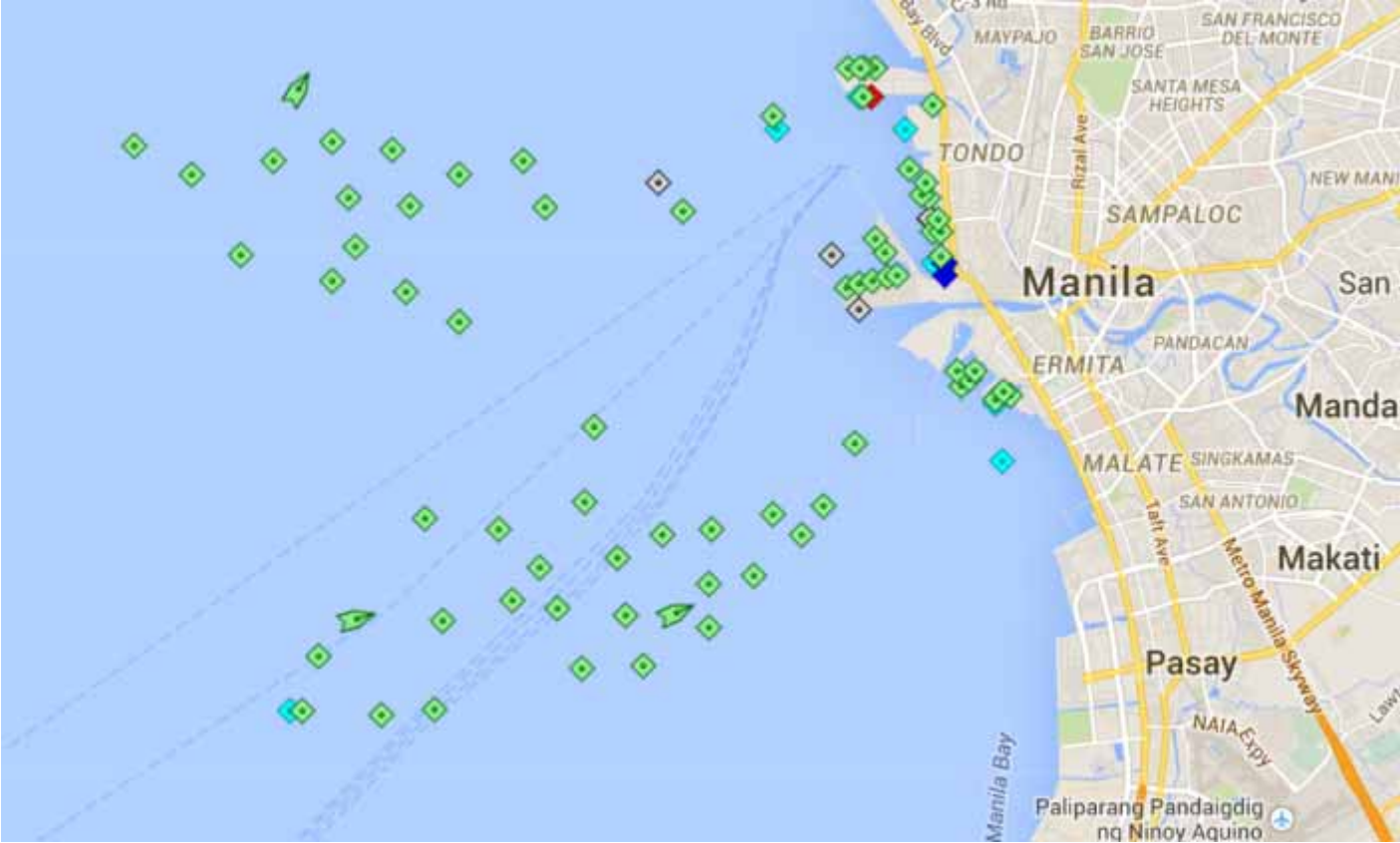
So where are all the cargo going?

- Manila and 150km around Manila
- Transshipment from Manila to Provinces



Shipper's Perspective - Importer

- Berthing Issues (2 weeks to 2 months) for Bulk Vessels



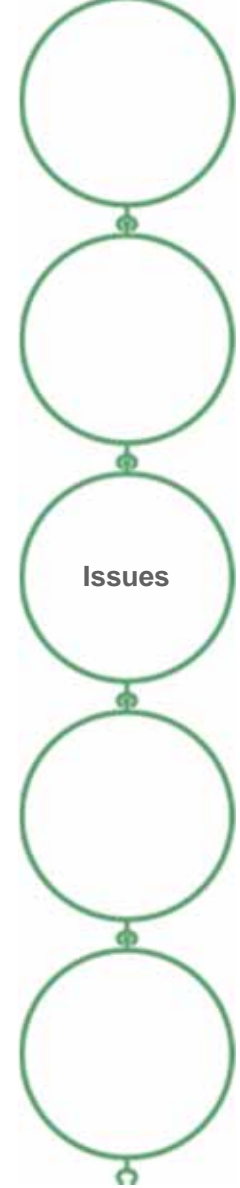
Shipper's Perspective - Importer

- Berthing Issues (2 weeks to 2 months)



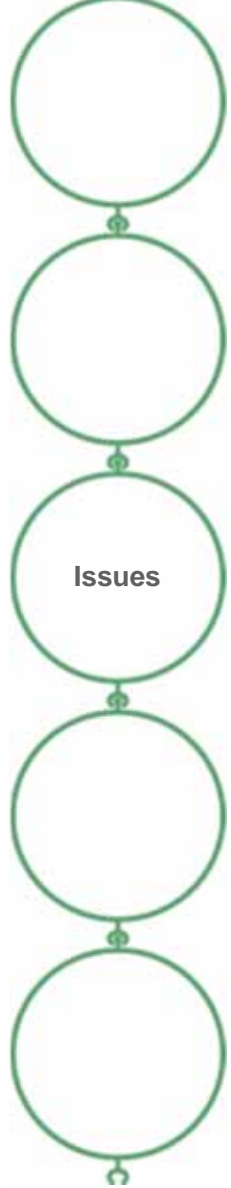
Shipper's Perspective - Importer

- Congestion in Ports up to 5 days



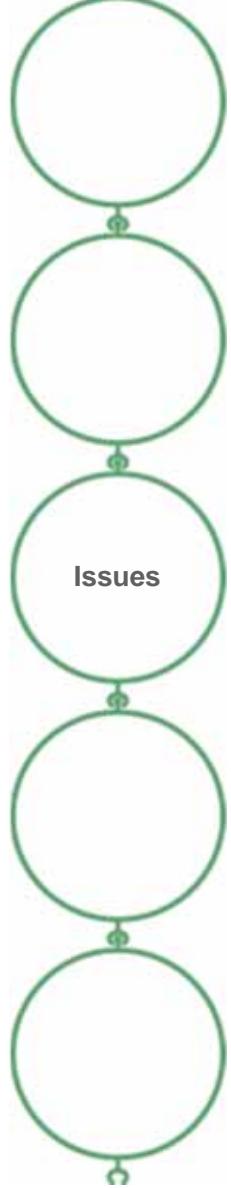
Shipper's Perspective - Importer

- Clearance of Cargo



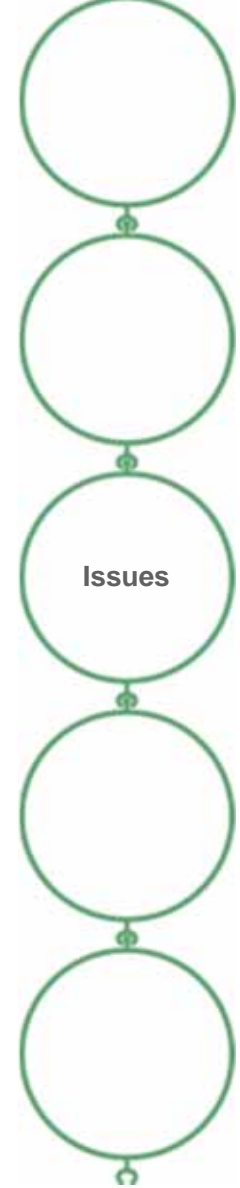
Shipper's Perspective - Importer

- Slow Trucking out of Port for Delivery / Transshipment



Shipper's Perspective - Importer

- Project Cargo, Long Length, Heavy Lift
- Insufficient Lifting Equipment



Improving Efficiency – Manila (Suggestions)

- Suggestions to Solve the issues
 - **Overside Unloading**
 - **Anchorage Unloading with Mooring Dolphins**
 - **Barge Hub / Terminal / Feeder service**
 - Sufficient Warehouse or Storage Area
 - **Efficient Transportation network Suggestions out of the Port in coordination with other government agencies**
 - Port Equipment and IT Infrastructure



Improving Efficiency – Manila (Suggestions)

- Overside Unloading



Improving Efficiency – Manila (Suggestions)

- Anchorage Point for Unloading



Suggestions

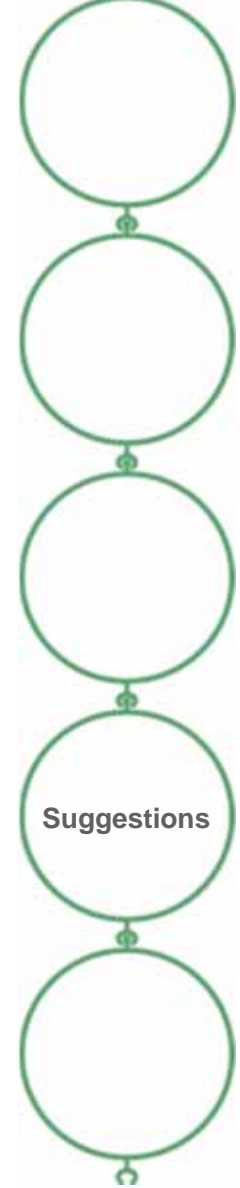
Improving Efficiency – Manila (Suggestions)

- Anchorage Point for Unloading



Improving Efficiency – Manila (Suggestions)

- Barging Network & Barging Terminal
- Linking ICTSI / ATI / MNHPI / Harbour Centre
- Reducing Congestion on Roads
- Feeder Service

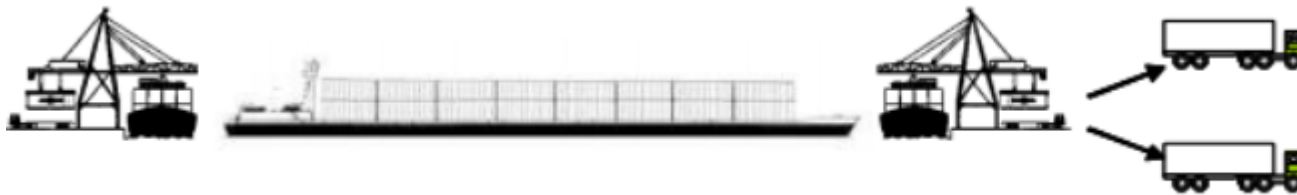


Improving Efficiency – Manila (Suggestions)

- Barging Network & Barging Terminal
- Linking ICTSI / ATI / MNHPI / Harbour Centre
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International Terminal – Trucking – Domestic Terminal

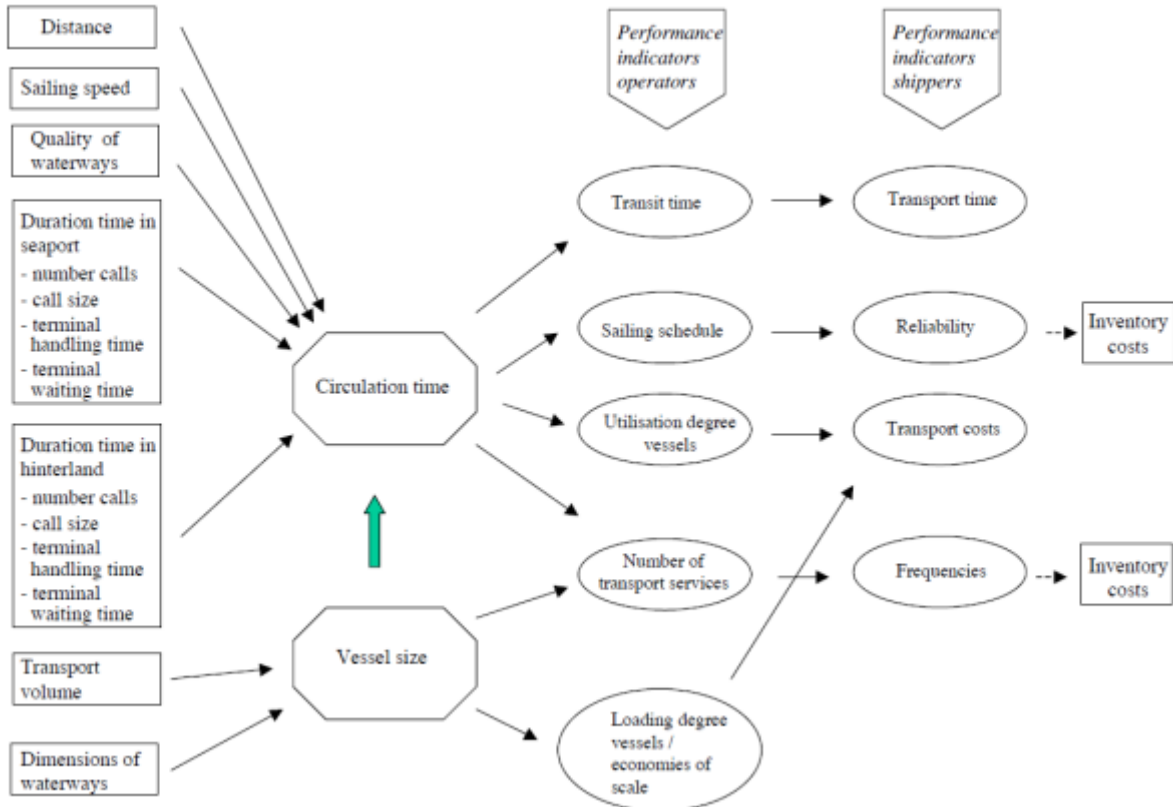


International Terminal – Barge Feeder – Domestic Terminal



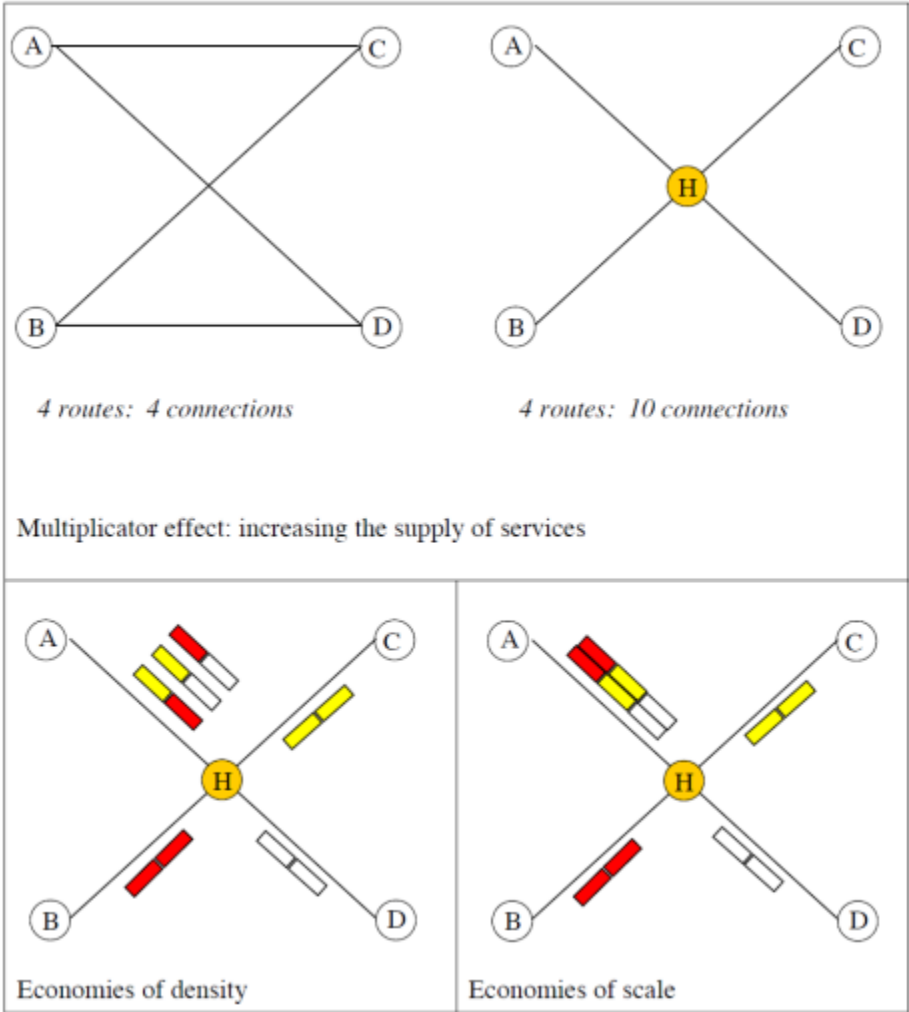
Improving Efficiency – Manila (Suggestions)

- 100-200 TEU Barges depending on scale of operations
- Barge Terminal acting as a Collection and Distribution Point



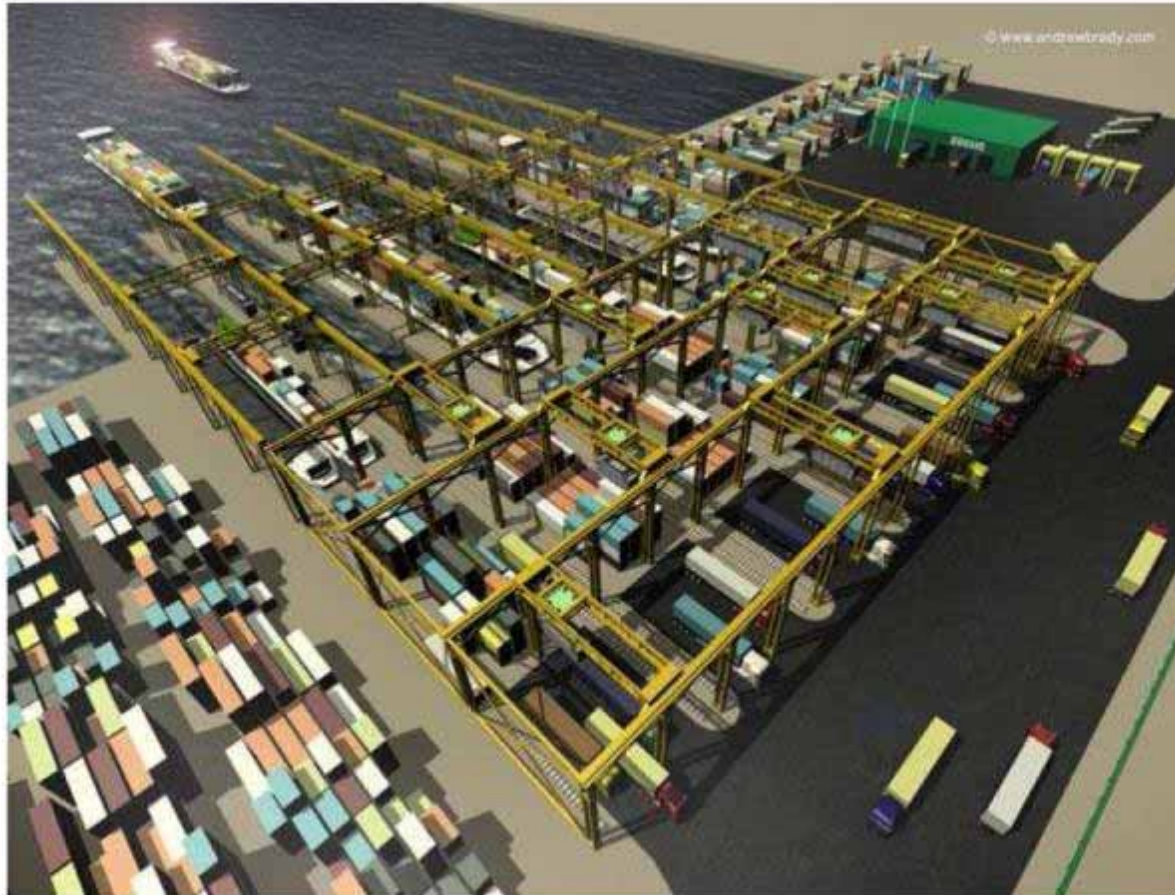
Improving Efficiency – Manila (Suggestions)

- Hub & Spoke Operation



Improving Efficiency – Manila (Suggestions)

- Barge Hub

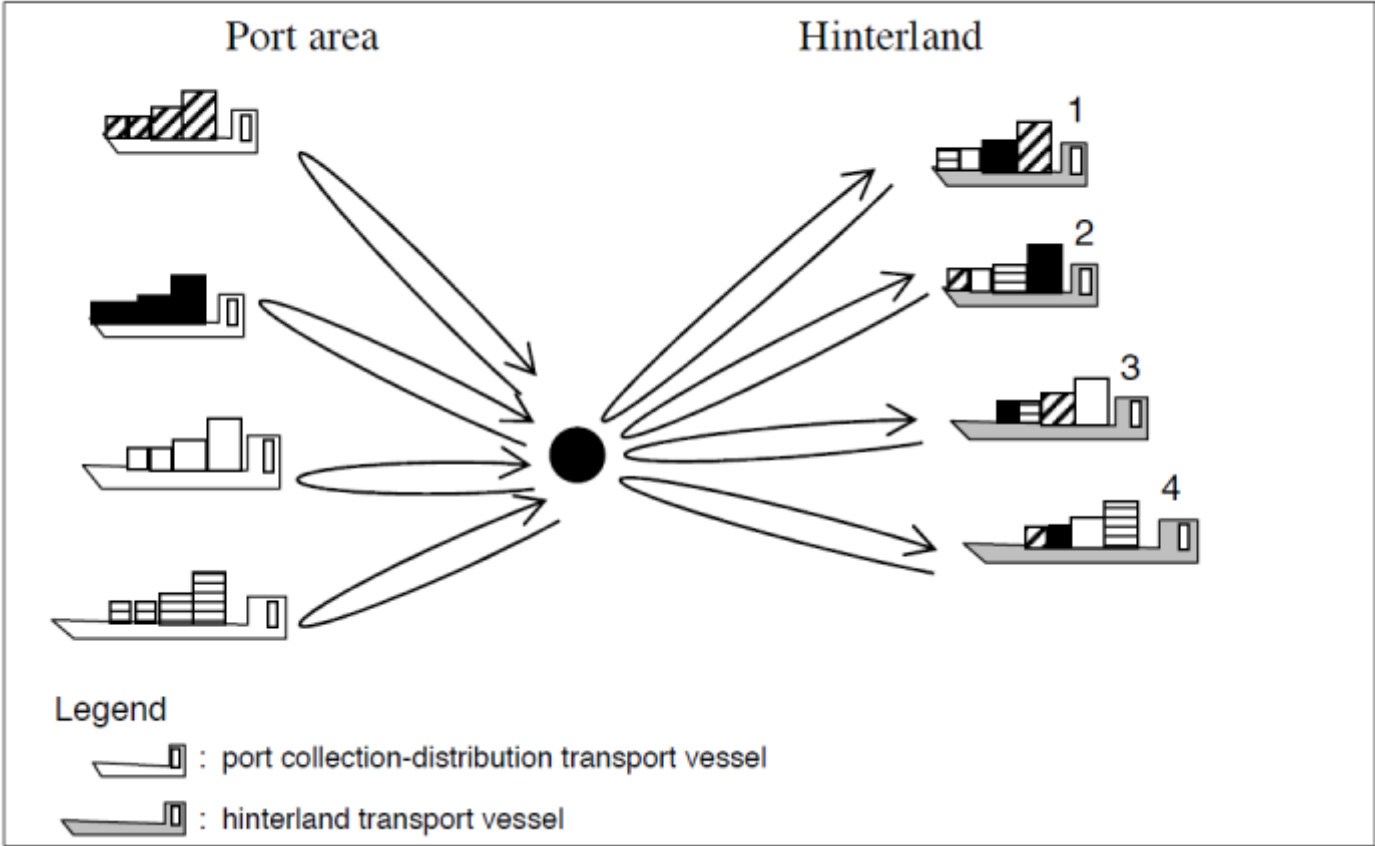


Source: Port Authority Rotterdam



Improving Efficiency – Manila (Suggestions)

- Barge Hub



Improving Efficiency – Manila (Suggestions)

- Barge Hub



Improving Efficiency – Manila (Suggestions)

- Barging Network & Barging Terminal China



A vertical column of five green circles. The middle circle contains the text "Suggestions".

Improving Efficiency - Manila

- Port & Road Infrastructure For Greater Luzon Trade Sept 2014
- Superhighway to link Port Operators creating dedicated road networks

Ship	Port	Road	Warehouse/ Container Yard	Factory
<ul style="list-style-type: none"> • Long berthing waiting time • Bad weather 	<ul style="list-style-type: none"> • Crane downtime/stoppage • Equipment downtime/stoppage • Overstaying Containers • Strikes • Slow clearances • Shortage of manpower 	<ul style="list-style-type: none"> • Traffic • Breakdown • Truck Bans • Strikes • Floods • Security/hi-jacking 	<ul style="list-style-type: none"> • Poor inventory management • Full container yards/no space available • Shortage of manpower 	<ul style="list-style-type: none"> • Congestion of off-track facilities • Lack of space



Improving Efficiency - Manila

- West Coast Highway Singapore



Improving Efficiency - Manila

- West Coast Highway Singapore



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- West Coast Highway Singapore



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Improving Efficiency - Provinces

- Encouraging Operators to call
- Mini 5000-10,000 DWT vessels for Bulk Shipment
- Improvement in Terminal Infrastructure to handle growth



Improving Efficiency - Provinces



Improving Efficiency – Macro Level

- Takes interdisciplinary and inter-government effort
- Operators must work cohesively together
- Investments from both Public and Private Sector must be in line
- Every stakeholder has a part to play



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Thank You

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