

BIC - Bureau International des Containers

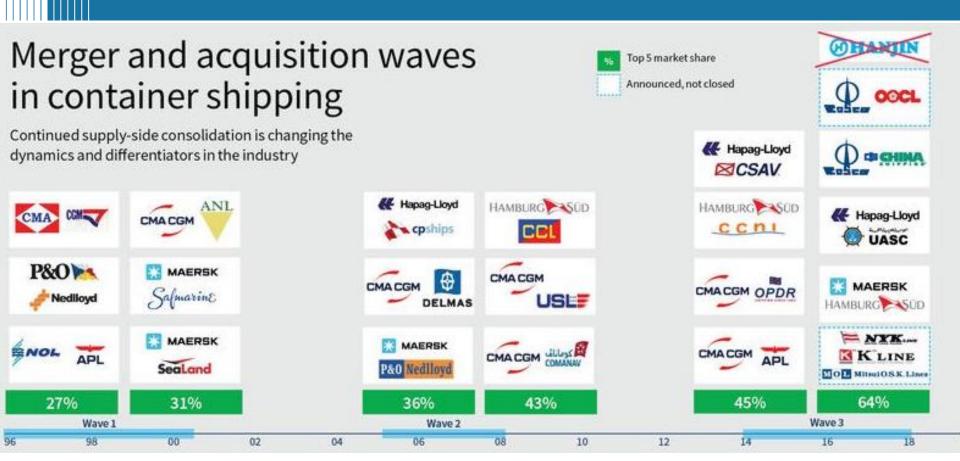
Enabling digital supply chain:

Opportunities and challenges of Smart Containers

WCO IT FORUM - 13 June 2019



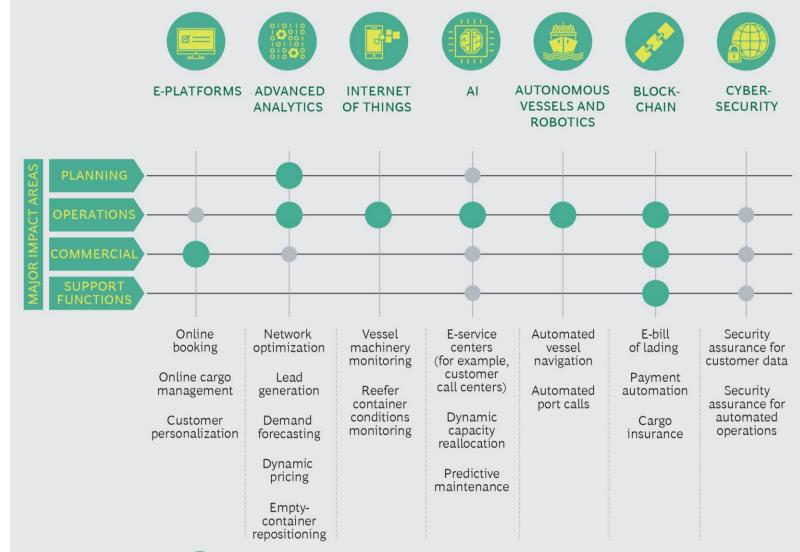
Where are we?



- Cost crushing moment
- Environmental efficiency



7 Digital trends transforming Container Shipping











Disruptive impact

Source: BCG analysis.

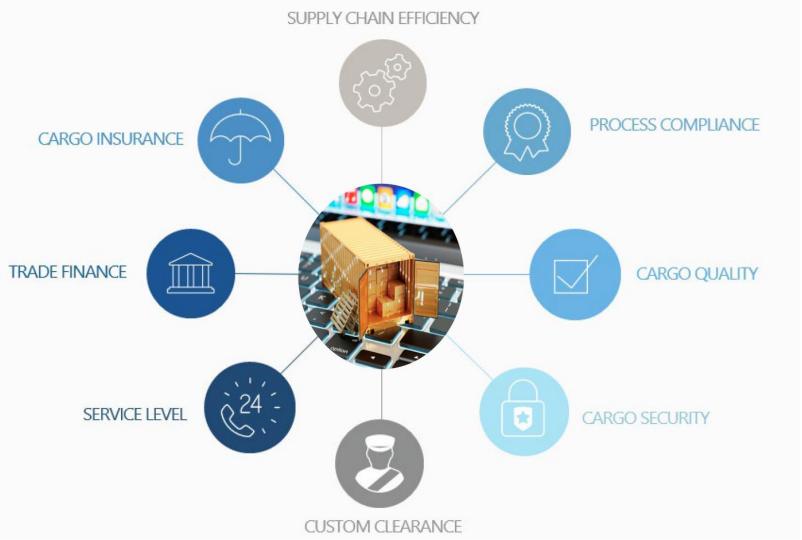
Global systems for enhanced decision-making

- Flexibility, Transparency & Predictability
- Economic, Social and Environmental Competitiveness

Digital platforms
Smarter Containers
Integrity of Goods



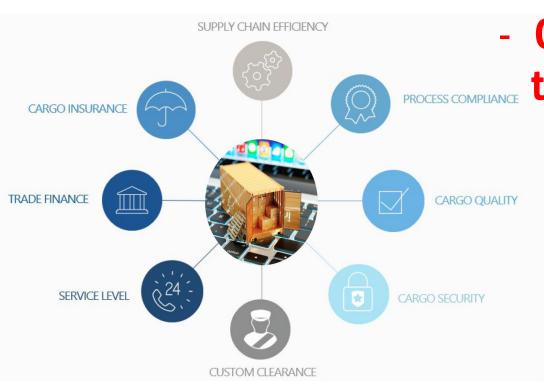
Benefits of Smart Containers solutions







Challenges faced by Smart Containers solutions



Operational impediments to large scale deployment

 Absence of standards on data sharing





Challenges faced by Smart Containers solutions



Installation



Return logistics









Transit



Port of Loading



Vessel



Transshipment Port



Port of Discharge



Transit



Final Unloading Warehouse

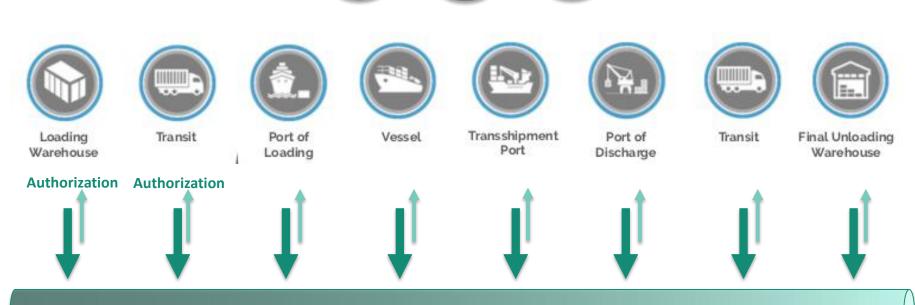




Enabling Smart Containers

Mechanisms for interoperability



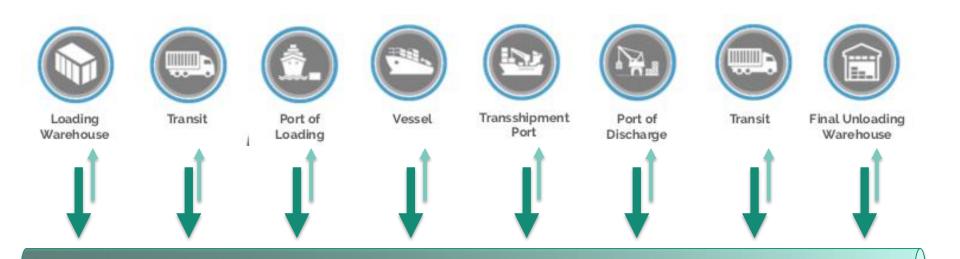


Global Data Pipelines





Enabling Smart Containers



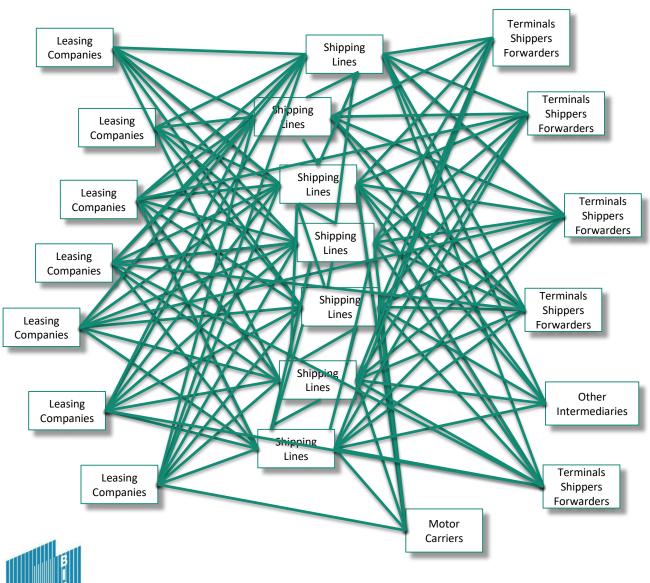
Global Data Pipelines







What is this container?



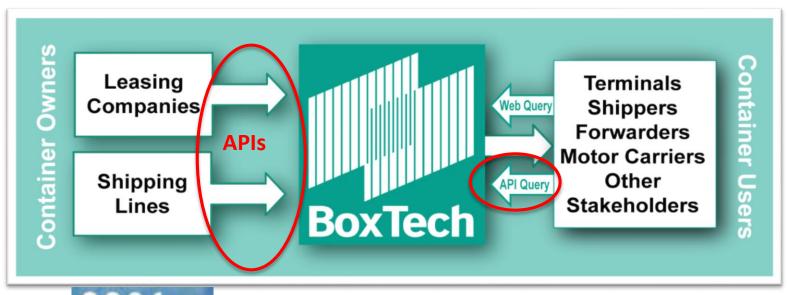
Container Owners

- Receive multiple inquiries via phone and email; employees are being used for non-core business
- Processes are not in place for sharing key data
- Building/maintaining an online database is not core business

Container Users and Intermediaries

- Must access multiple sources not always knowing who to contact
- Manual re-keying of data
- New processes needed for non-core business

Centralized, Neutral Database for all parties

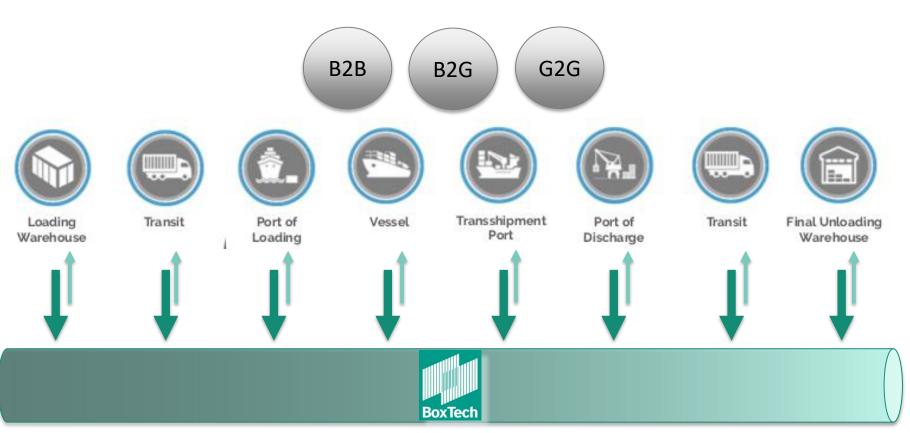


22G1		
MAX.GR.	30.480 67.200	KG LBS
TARE	2.200 4.850	KG LB:
NET	28.280 62.350	KG LB:

- Container characteristics
- Recovery Units / Alerts
- Sold unit flags
- Current operator



Enabling Smart Containers



Global Data Pipelines





Data exchange standards









High potential for mutual benefits:

- Security
- Interoperability
- Facilitation of legitimate trade

Key to green lanes & AEO





BIC

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bic-code.org



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