

Bureau International des Containers et du Transport intermodal (BIC)

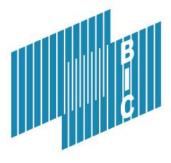


www.bic-boxtech.org

#### About the BIC

- Non-profit NGO, founded in 1933
- 2100+ members in over 120 countries
- Promoting safety, security, standardization, sustainability and efficiency
- Official NGO Observer status at: IMO, World Customs Organization, UNECE
- Based in Paris, France



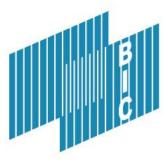




Operator of databases that help make the industry safer, more secure and more efficient.

- BIC Code database since 1970
- Party code (UN/BIC LOCODE of 1982) on database since 2009
- Global ACEP Database, under IMO guidance since 2013
- BoxTech launched in 2016







# Supply chain safety and efficiency through data visibility

#### What is BoxTech?

The BoxTech Technical Characteristics Database is a neutral, non-profit, centralized data repository providing container owners and users a platform to easily exchange container fleet technical details.

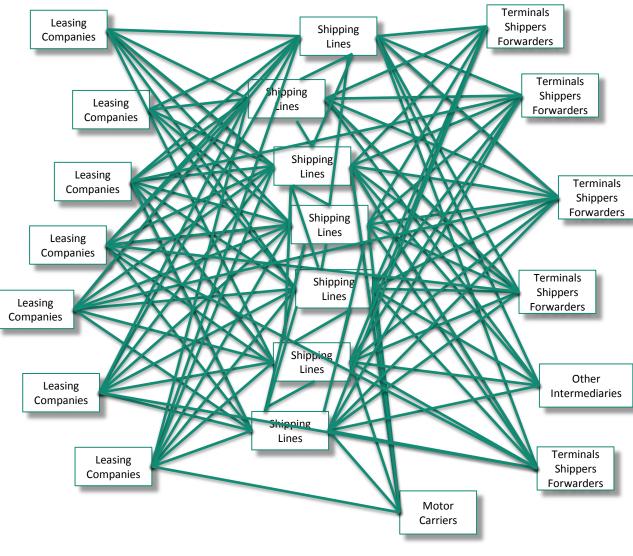




(And much more)



#### Does this make any sense?



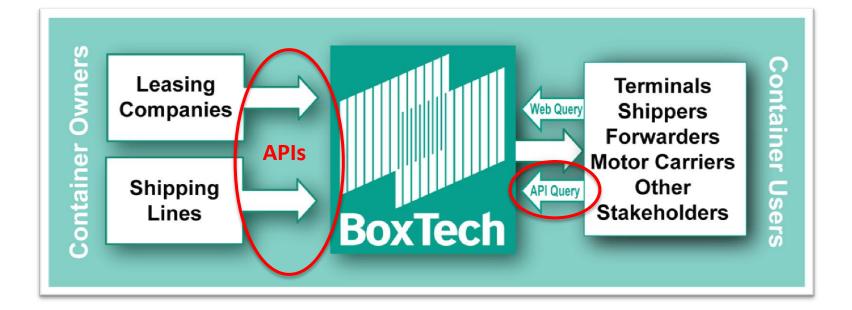
#### **Container Owners**

- 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

#### BoxTech TCD Provides a Centralized, Neutral Database for all parties



Use of the Boxtech TCD means a one-stop-shop for all parties. Everybody wins.



#### Shippers & Intermediaries

- From door of container?
- From 2-3 dozen websites?
- No single-source
- Re-keying of data adds errors

# Owners & Operators

- Heavy admin to exchange data between lessors-carriers, carrierscarriers and carriers-shippers
- E-mail and phone queries

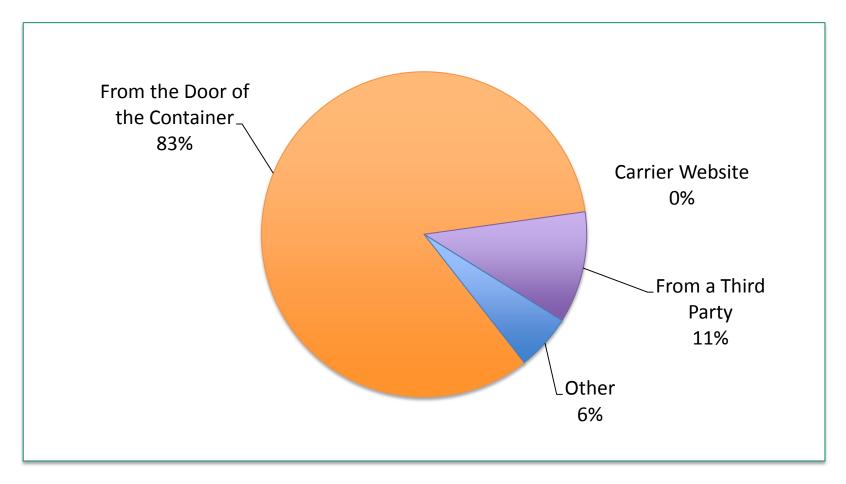
#### **Or**...

- Eliminate manual queries
- Eliminate double-entry of data
- Everyone in the chain becomes more efficient by using a neutral platform



#### **Container tare weight for method 2**

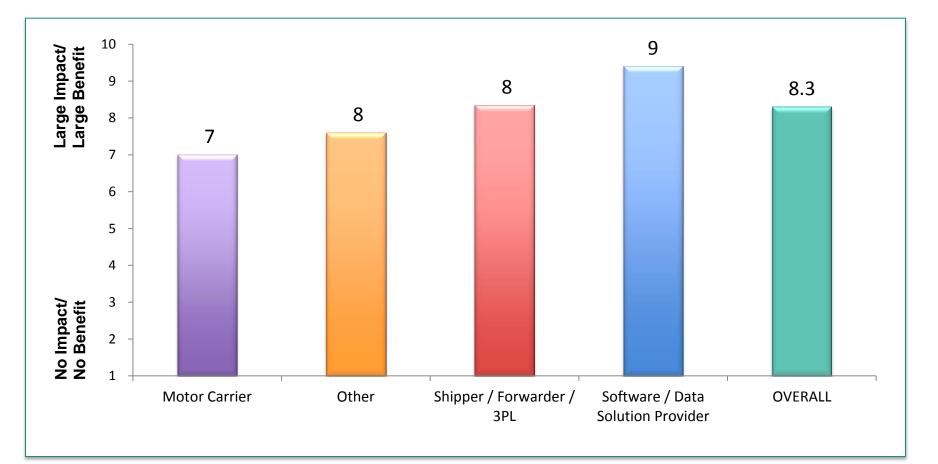
Survey question: When using Method 2 VGM how do you generally obtain the container tare weight needed for the declaration?





#### How beneficial would a central database be?

Survey question: If you were able to obtain/validate characteristics electronically from one source for every container globally how beneficial would it be to your company/operation?





### **Demand for efficiency**

 Already > 650 major shippers, forwarders, terminals, rail and motor carriers have signed-up up to <u>access data</u>.





www.bic-boxtech.org

#### And here is what they have to say

How our users intend to utilize BoxTech data to support their customers and business.

- . "For our exporter client requirements."
- . "To verify the container code and get the full container info."
- . "To Improve OCR data reads."
- . "To provider the container tare weights so our customers may declare an accurate VGM as the shipper."
- . "To search for container specifications."
- . "To use container data as reference data."
- . "To satisfy shipper in my country."
- . "To speed up the weighing of containers to capture the Tare mass of the shipping container into our system in order to make the weighing process faster so that they would only need to weigh out the shipping container once when it is full."
- . "To be able to get the Tare mass of the shipping container without needing to rely on the user's accuracy."



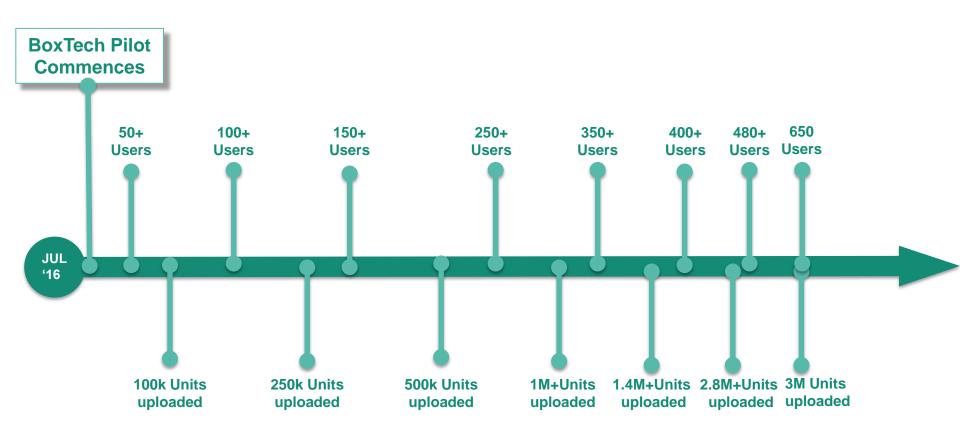
### Win-Win-Win-Win

Container Lessors	<ul> <li>Avoid sending constant file updates to hundreds of lessees.</li> <li>Avoid phone/e-mail customer support to answer basic equipment questions</li> </ul>
Ocean Carriers	<ul> <li>Avoid chasing leasing companies for file updates</li> <li>Avoid the maintenance of online tare weight query tool</li> <li>Avoid phone/e-mail customer support to answer basic equipment ?'s</li> <li>Customer and vendor satisfaction: Make customers and other trading partners more efficient</li> </ul>
Shippers / Forwarders	<ul> <li>Avoid accessing dozens of different websites to obtain tare weight</li> <li>Avoid manual re-keying of characteristics</li> <li>Avoid any manual intervention whatsoever, once automated API in place</li> </ul>
Terminals/Depots	<ul> <li>More efficient planning through better visibility of container size/types and other characteristics</li> <li>Exception management: Non-standard equipment, spot errors, missing data</li> </ul>

And also a win for: Software and service providers, container buyers, insurance providers, surveyors, banks, customs, etc...



#### **Great Interest and Steady Growth**





#### **Onboarding Process: Container Owners**



Upload initial file using CSV template



Subsequently automate fleet updates via API



#### Accessing data in BoxTech

- Users complete an online sign-up form to immediately obtain access
- Query database online by typing container number(s)
- Or set-up automated queries using APIs
- In either case, the container number is required

Technical Characteristics Perfect Database		Logout
4 container(s)	Search : CGMU3019574,CGMU30: Q	Display measurements in Metric Imperial
CONTAINER NUMBER	TARE WEIGHT (KG)	MORE INFO
AMCU 250089 9 🗸	2,200	More info
AMCU 250090 2 🗸	2,200	More info
CGMU 301957 4 🗸	2,960	More info
CGMU 301958 0 🗸	2,960	More info



#### **Detailed Container Data**

• Further details such as Physical Characteristics, Dimensions and Manufacturer are displayed on the detailed view. Most are optional.

CGMU GMU 301958 0 ata containing an asterisk (*) were up	loaded in a different unit of measure		
Physical characteristics <u>Group ST</u> 20RF <u>Tare weight</u> Kgs : 2,960 Lbs : 6,526 * <u>Max payload</u> Kgs : 27,520 Lbs : 60,671 * <u>Stacking</u> Kgs : Lbs :	Detail ST 22R1 Cubic capacity m3 : cu ft : Max gross mass Kgs : 30,480 Lbs : 67,197 * Racking Kgs : Lbs :	Dimensions External length mm : ft : External width mm : ft : External height mm : ft : Door opening width mm :	Internal length mm : ft : Internal width mm : ft : Internal height mm : ft : Door opening height mm :
Manufacturer data, and <u>Manufacturer data</u> Manufacturer :	Newton :	ft : One door off operations <u>Stacking</u> Kgs :	mm : ft : <u>Racking</u> Kgs :
Manufacturer # : Manufacturing date : <u>CSC plate</u> Customs approval :	Customs approval type : <u>Timber treatment plate</u> Timber certificate :	Lbs : End wall strength Kgs : Lbs :	Lbs :



# New: BoxTech Alerts for Recoveries, Sale boxes...

#### **Pop quiz: Whose box is this?**







#### And the answer is...





For Asia (Including Oceania)

Grace Zhang

t e x

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#### Jorge Dias

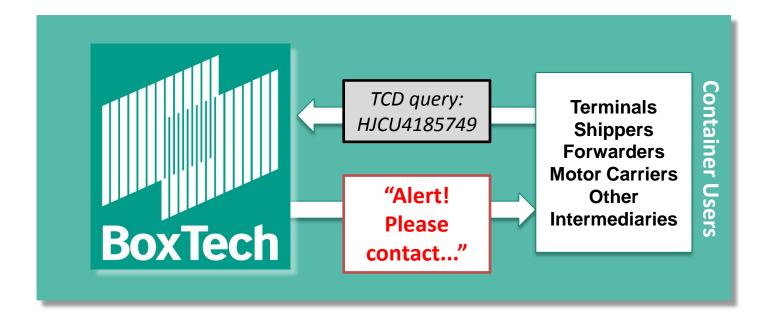
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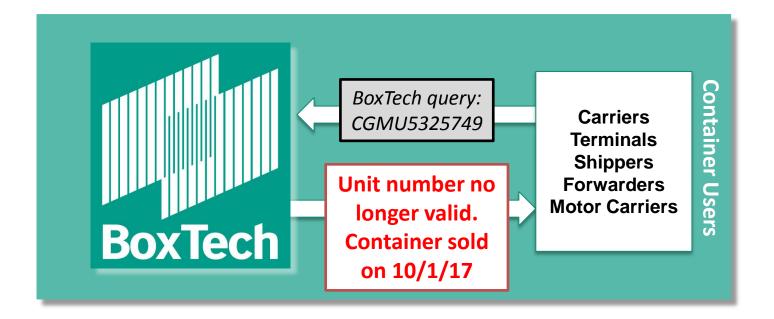
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- Bankruptcy / recoveries
- Stolen/lost units
- Security alerts



## And similarly...a register of sold containers



- Instant visibility / alerts on units that have left fleet
- Increased safety
- Risk reduction
- Better visibility encourages buyers to properly re-mark



- Tare weight for SOLAS VGM
- Max payload for safety
- Reduced capability/stacking alerts
- Size-type and dimensions for terminals, others
- OCR accuracy improvement
- Box recovery alerts
- Sold / scrapped containers
- Insurance & claims investigation
- ?
- ?
- ?









- The trend toward digitalization will only continue.
- Trading partners want more efficient sharing of data.
- 700 shippers, forwarders and terminals can't be wrong.
- Everybody wins.
- BoxTech is <u>your</u> database.
- An advisory committee will be formed to help guide.
- During these early days, some leadership is required of carriers & lessors, because...
- BoxTech truly becomes worthwhile when it holds the entire global fleet.



# Image: Non-Weight SchwarzTechnical<br/>CharacteristicsBoxTechDatabase

## Sign up on: www.bic-code.org

www.bic-boxtech.org