

Welcome to August's BIC Breakfast -Towards a Greener Book Industry

#BICBreakfast

Kindly sponsored by





What is a BIC Breakfast?





BI

THE BOOK INDUSTRY'S SUPPLY CHAIN ORGANISATION



BIC Committees

Digital Supply Chain Libraries Metadata Physical Supply Chain



Regular BIC Events

BIC Breakfasts (monthly)

Networking Events including our annual BIC Bash (12th November 2019)

Building a <u>Greener</u> Business Seminar at London Book Fair (12th March 2020)

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Engagement

Extensive Training Programme

Social Media: @BIC1UK @KarinaLuke @BIC_LCF

Connect with us on Twitter, Facebook and LinkedIn.

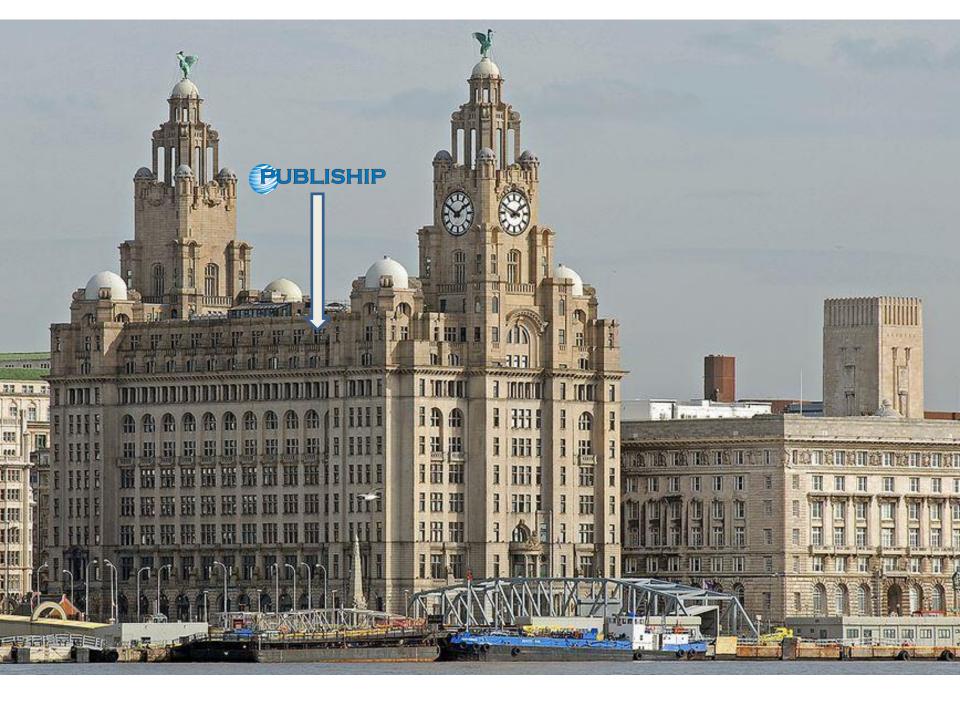
BIC BOOK INDUSTRY COMMUNICATION LTD

Over to Dave...

Towards A Greener Book Industry

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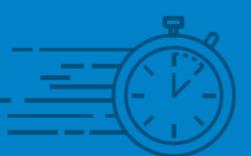
WE

SHIP

BOOKS









OUNTRIES -52







CONTINENTS



Enjoy the presentations!

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Over to Carly & Nick...



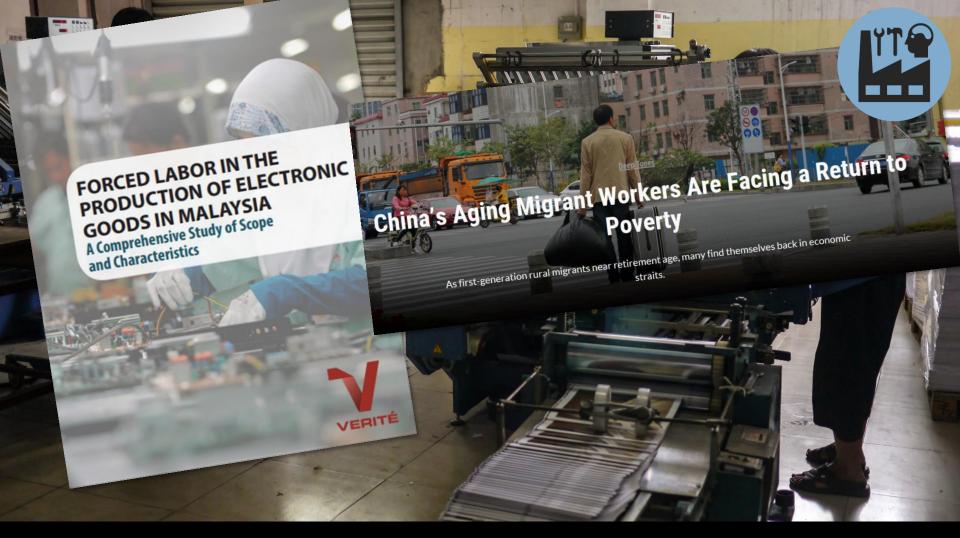
partners Itd



BOOK CHAIN PROJECT Building better supply chains for books

15th August 2019

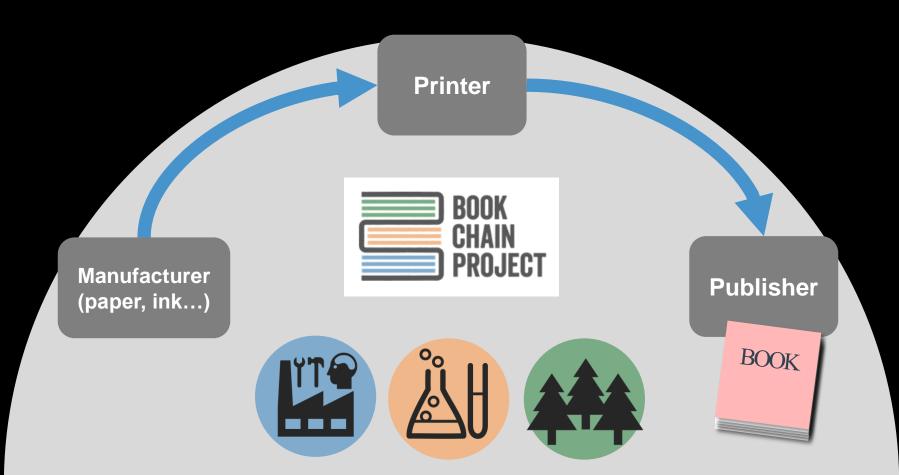
The issues







Working together

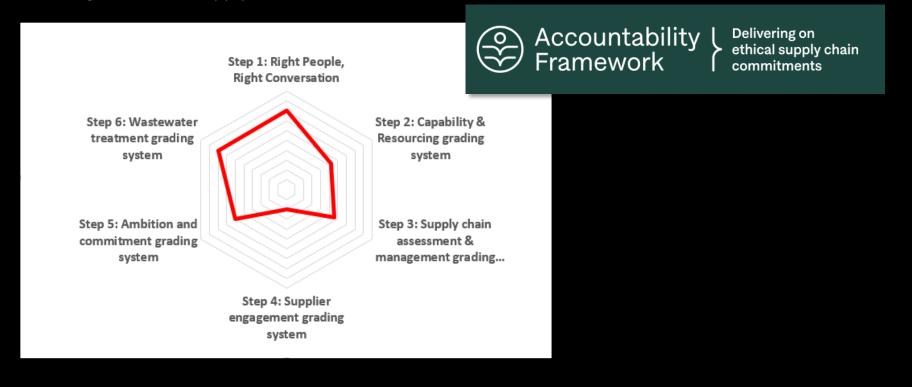




MILL ASSESSMENTS



Understanding how mills are mitigating illegal logging and forest clearing risk in their supply chains



ENVIRONMENTAL QUESTIONNAIRE



- Understanding how suppliers are managing key environmental issues
- Gather key data for publisher reporting

Management Systems					
	Energy Use				
> Does the factory have all permits required by the a authorities (e.g. water extraction and emissions perm	ls the amount of the following energy types, used on-site, mea			Solid Waste	
> Does the factory have an environmental plan or polyces and the provident of the provid				Does the factory produce the following waste?	
	> Electricity	Yes		Paper (printed sheets, books, office paper)	Yes
> Does the factory have a nominated environmental	Amount used		kWh	Produced	tonnes 🕜
Does the factory have an Environmental Managem			KWII	Recycled	tonnes 🕜
> Does the factory have any third party environment	> Gas	Yes		> Board	Yes
	Amount used		m³	Produced	tonnes 🚱
Please list these certifications. (e.g. ISO14001)	> Oil	Yes		Recycled	tonnes 🕜
				> Plastic	Yes
	Amount used		litres	Produced	tonnes 📀
	> Transportation Fuel	Yes	Yes	Recycled	tonnes Ø
					Connes U

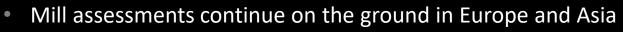
PLASTICS GUIDE



Understanding plastic – properties, challenges, busting some myths and recommendations



PLANS FOR THE YEAR AHEAD



Workshop convening suppliers and manufacturers in China



• Re-vamped environmental questionnaire extended to mills

- Developing a 'design guide' for environmentally-conscious
- Special project: A collective response to shrink wrap

GET IN TOUCH



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Over to Neil...



THE BIC BREAKFAST Towards a Greener Book Industry

August 2019

Just a thought.





Over 40% of all global plastic usage is in packaging.

"Plastic will be the main ingredient of all our grandchildren's recipes." Anthony T Hincks "The greatest threat to our planet is the belief that someone else will save it." Robert Swan



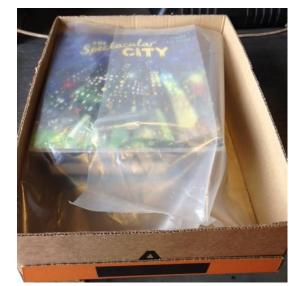


We studied our total plastic usage figures within our operation in 2018.

Our most considerable usage was in plastic shrink wrap and carton filling.

Our target was to try and achieve a minimum of a 75% reduction throughout 2019.







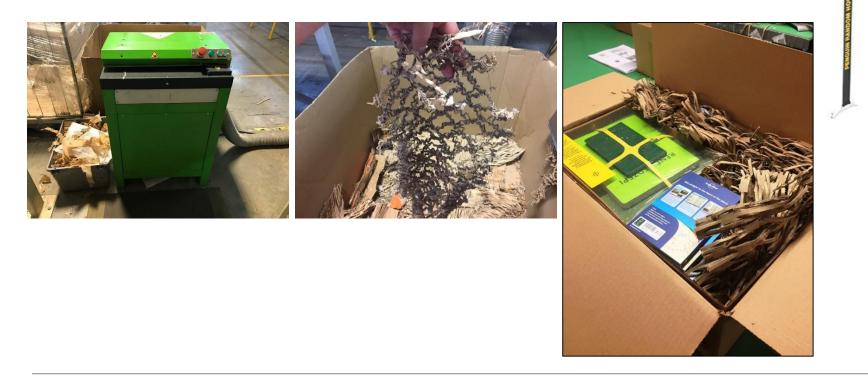
So far..... We have achieved a **47%** reduction.

So how have we achieved it?



Investment in multi use pallet lids.

& site shredding equipment to recycle our transit cardboard packaging





- Internally:
- a. Office areas, replacing plastic cup water dispensers and straws.
- b. On-site canteen, single use plastic food cartons and plastic KFS.
- c. Power reduction initiatives, LED lights, light sensors, car park timer switches.
- Externally:
- a. Printers, pallet lids rather than shrink wrap, binders pack wrapping.
- b. Container handlers, pallet lids rather than shrink wrap.
- c. Transportation companies, planning loads to reduce excess mileage.
- d. 3PL off site locations.

A green partnership to help reduce plastic usage and wastage.



We are seriously investing to make a difference.



And want our suppliers and customers to join us on our journey.

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Over to Dave...

Greener Book Industry

Sponsored by PUBLISH The introduction of the shipping container in the late 1950's and widespread adoption from the 1950's sthe single largest contributor to globalisation

What is the Shipping Industry doing towards improving it's environmental impact?





Emissions



Ballast





13th Tee

Par 4 457 Yards











OOCL Hong Kong

400 metres long, 58.5 metres wide





Containers stowed 8 high above deck, 11 high below – making the ship around the height of a 20 storey building

Carries equivalent of 21,430 20' containers – placed end to end they would stretch 81 miles



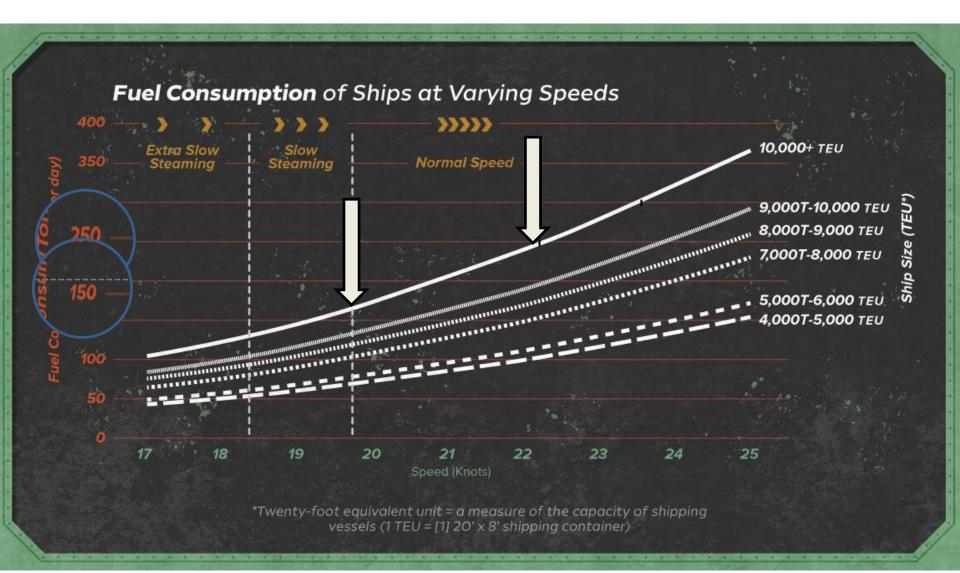


40% more fuel efficient than ships of 10 years ago



'Slow Steaming' Reduce speed by 10% - save 35% of fuel









Emissions from Containerships

Carbon Dioxide (CO₂) Sulphur Oxide (SO_x) Nitrogen Oxide (NO_x)



If International Shipping was a country, it would sit 7th in the world table of emissions based on 2017 figures

Rank	Country	2017
		kton
1	China	10877218
2	United States	5107393
3	India	2454774
4	Russia	1764866
5	Japan	1320776
6	Germany	796528.9
7	International Shipping	677247.8

Emissions from Containerships

International shipping accounts for 2.1% of all CO₂ emissions



International Maritime Organisation (IMO) has a target to reduce CO2 Emissions 50% by 2050 and for 'emission reduction to begin as soon as possible' Some have criticized this as

'unambitious' but these measures

were not unanimously approved, with

9 member-states voting against



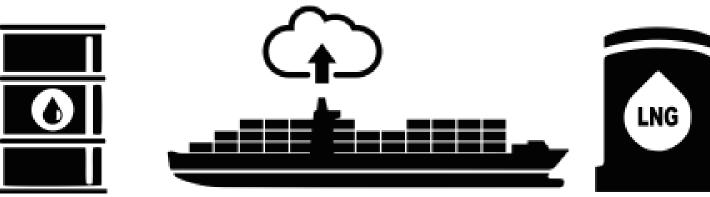
However, stronger measures are in place to reduce Sulphur Oxide (SO_x)

The 15 largest container ships emit more SO_x than all of the cars in the world.

From January 1st 2020, the IMO2020 initiative requires all ships to reduce output of SO_x from a maximum of 3.5% to 0.5%



Low Sulphur Options





Exhaust Gas Cleaning System (Scrubbers)

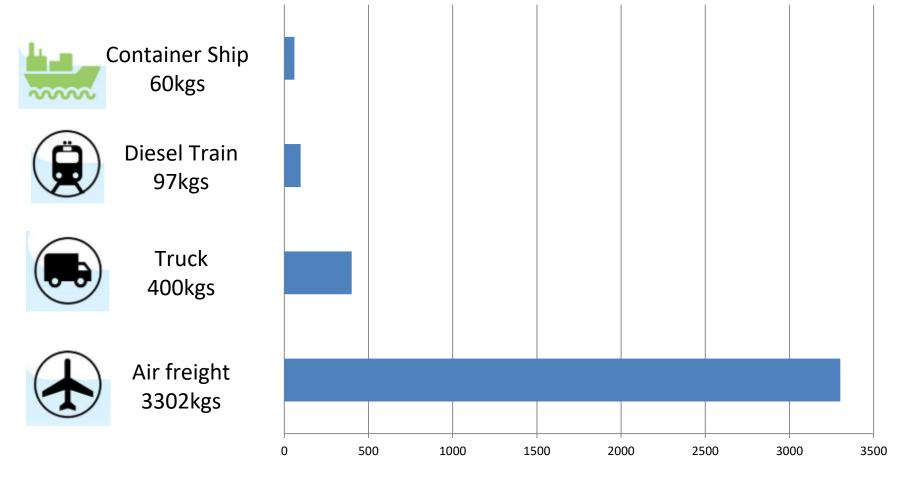
Somewhat unproven in maritime conditions. Only 1% of maritime fleet has fitted them Liquified Natural Gas

Cheaper, but produces emissions landside during production. Not widely available

All options are likely to increase freight costs

Other Modes of Transport

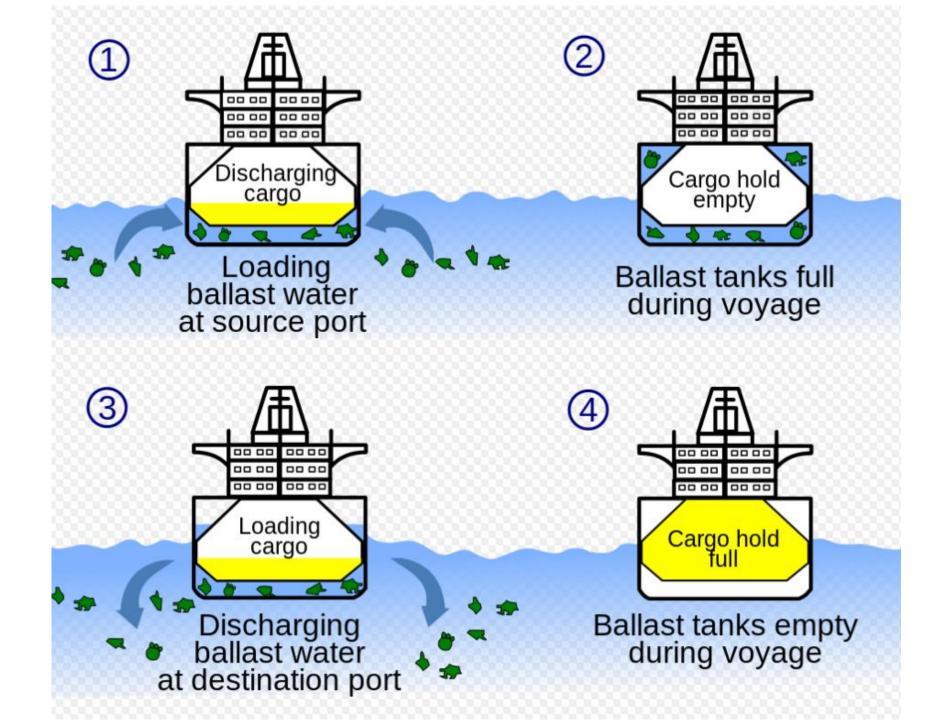
CO2 emissions produced moving one tonne of cargo over 5000 kilometres distance



Ballast

Ships have tanks which they fill with sea water to trim the ship Provides stability in rough conditions Balances the ship during loading and unloading **Compensates for fuel usage**







Discharge of Ballast water could transfer polluted water to another port

Could also transfer predatory sea creatures to a new environment

Estimates suggest 10 billion tonnes of water are discharged elsewhere per year

Ballast Water Management Convention

Came into effect in 2017

D1 Standard: Requirement to discharge ballast at least 200 miles from land, in seas at least 200 metres deep

D2 Standard: Performance standard specifying type and amount of viable organisms allowed to be discharged. All new ships must comply with this standard



The world's first electric cargo ship is now operating on the Pearl River in China....

It can sail 50 miles on one charge, and can re-charge in 2 hours....

It is used to carry coal to a power station!





If you have any further questions, please email me:

dave@publiship.com

Thanks for listening



For more information about our Company and services, go to

www.publiship.com

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Any questions?

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Thank you for attending August 2019's BIC Breakfast: Towards a Greener Book Industry

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