



Pioneers in Sustainable Packaging



Industrial & eCommerce Packaging

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Indonesia, Nov 2018: Over 1,000 plastic items found in dead sperm whale's stomach



Researchers found 6 kg of plastic in the animal's stomach. This included 115 plastic cups, four plastic bottles, 25 plastic bags, two flip-flops, a nylon sack and several other plastic items.

How much plastic waste does India generate, and what % is recycled?



25,000 metric tons a day!

Only 9% on average

Why plastic pollution needs attention?

Global

COP21 /
Paris Climate
Agreement

UN
Environment
Policies

Extended
Producer
Responsibility

India

Central/State
Government
Initiatives

CII / IWMA /
GreenCo

Consumer's
Environment
Awareness

Why Recycling is not the only ANSWER

800 millions tons of plastic generated per year. 60% is single-use plastic!

Only 9% Plastic is recycled

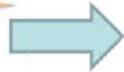
For 1 ton recycled: 16 tons are manufactured

- Not a viable business: Not profitable enough.
- Heavy investment are required to build infrastructure.
- Feedstock suitable for recycling isn't clean since the resins & polymers are mixed.
- Multi-layered packaging is extremely difficult to be recycle.
- Segregation at source isn't working.

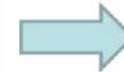
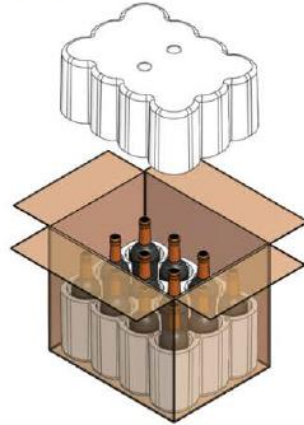
Food for thought: If your home was flooding because you had left the faucet on, your first step wouldn't be to start mopping. You'd first cut the flooding at its source – the faucet. In many ways, our plastics problem is no different.

Transport Packaging - Snapshot

Primary Package



Secondary Package



Tertiary Package



Primary:

The packaging which contains the product. Provides protection and containment, but is not necessarily suitable for transport.

Secondary:

The packaging which contains one or more primary packages. It aids in containment, handling, unitization, and damage prevention.

Tertiary:

The packaging which is used to group secondary packaging together to aid handling, unitization, transportation, and damage prevention.

Transport Packaging – Global discussion

Today “behind the scenes” i.e. transport packaging, B2B packaging, and industrial packaging is changing. Within the packaging industry, sustainability is often focused on the “consumer” side; however, there is now a greater awareness among brand owners and suppliers to deliver more environmentally acceptable packaging.

- Two frameworks making the headlines – Circular Economy & Sustainable Material Management
- End-to-End focus on the entire supply-chain - from raw material sourcing to after consumer consumption.
- Significant investments in - Recycling infrastructure, programmes, and R&D on new materials and solutions.

Reduce, Re-use, Recycle, **Rethink** is the new mantra.



Upcoming Solutions & Trends

SOLUTIONS

- **Renewable resource-based packaging:**
 - (a) PLA (lactic acid) is 90% biodegraded ONLY in an **industrial composting** facility.
 - (b) Mushroom Packaging
 - (c) Seaweed Packaging
- **Packaging optimization:** Packaging reduction, while retaining product protection, is a prime area on which many companies have their focus
- **Recycled materials:** Recycling materials is a familiar concept for us all, and remains a staple process within the green packaging industry.

TRENDS

- Reducing Waste through regulations – Theme is clear: eliminate single-use plastic packaging or face stringent regulations.
- Recyclable, Reusable Materials – Recyclable & biodegradable packaging on the rise
- Clear Labelling – Bio-Plastic vs Biodegradable. How2Recycle.
- Limited Packaging – Amazon's Frustration Free Packaging.

Comparisons

PAPER VERSUS PLASTIC (AND BIO-PLASTIC)

Is plastic truly evil? Is paper more eco-friendly than plastic? Could bio-plastic be the answer to some of this?

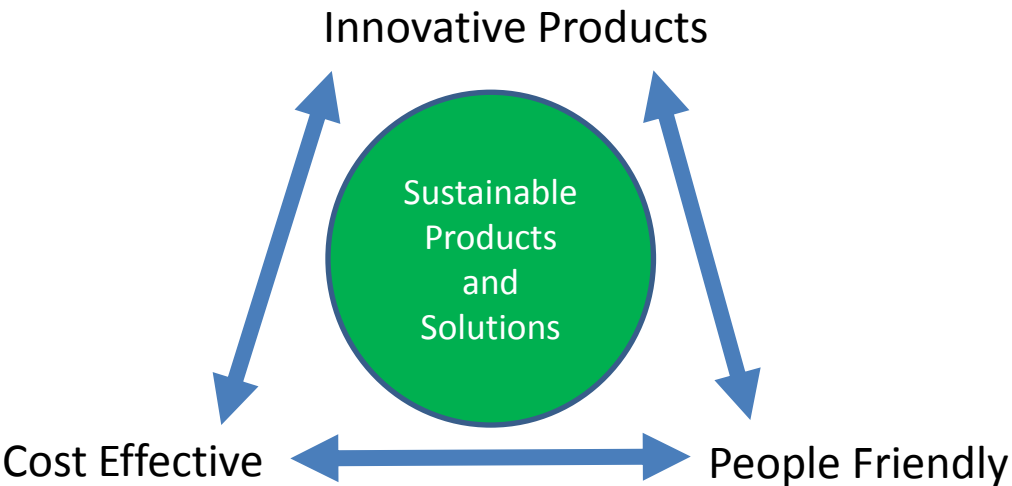
Narrative	Plastic	Paper	Bio-Plastic
Renewable, sustainably grown material	Poor	Good	Moderate
Ability to use recycled content	Moderate	Good	Poor
Energy, resource and pollution from manufacturing	Moderate	Moderate	Moderate
End-of-life, ability and likelihood of being recycled or disposed of properly	Poor	Good	Poor

Bio-based plastics vs biodegradable - there's a big difference.

- (a) It is counter intuitive that if bio-based plastic comes into full force, then it would urge consumer to just litter more, since the perception would be that these would BIODEGRADE.
- (b) Bio-plastic consists of organic material + polymers.
- (c) Bio-plastic can be industrially composted and are not biodegradable.

Packmile – Value Proposition

- In-depth & extensive R&D in supply-chain packaging since 2015. Provide eco-friendly packaging materials & solutions.
- Focused on Green Packaging and Reusable Packaging.
- Upfront savings of **5-30%** on costs and man-hours!



**COMPANIES ARE MOVING TOWARDS
ECO-FRIENDLY PACKAGING
HAVE YOU?
#QuickWinPlastic**

We eliminate the use of single-use plastic, thermocol, styrofoam and replace them with recyclable and bio-degradable materials. Our products are the most cost-effective, and user-friendly solutions with a focus on Green and Reusable Packaging.

	→		
Foam Roll Thermocol		CORM™	
			
Fillers			
	→		
Bubble Wrap		BHive - Paper Bubble Wrap	
	→		
Plastic Tape		Paper Tape	
	→		
PP Strap Stretch Film		Reusable Pallet Strap, Wrap	

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Pioneers in Sustainable Packaging

CORM™

Convert waste boxes into
useful filler packing
material.

BHive

Paper Bubble Wrap.

Wrapping has never been
more easier & secure.





PAPER TAPE

A paper tape that uses water activated adhesive to seal the boxes.

PAPER TAPE - DISPENSER

Easy to apply water and dispense the desired length of tape.





REUSABLE – PALLET STRAP

Reuse multiple number of times
and avoid single use PP strapping.
No equipment required.

REUSABLE – PALLET COVER

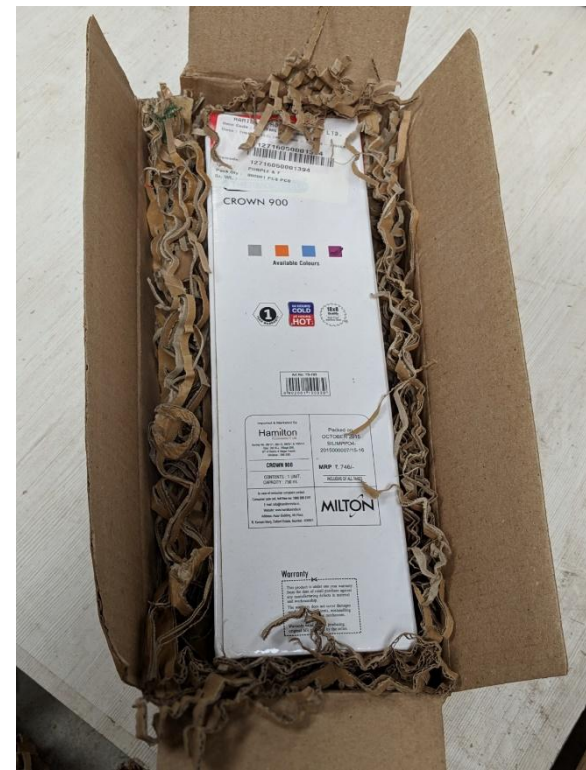
Eco-friendly, reusable pallet wrap
is 10x stronger alternate to
stretch film.



CORM™



Parts, Products Packaging



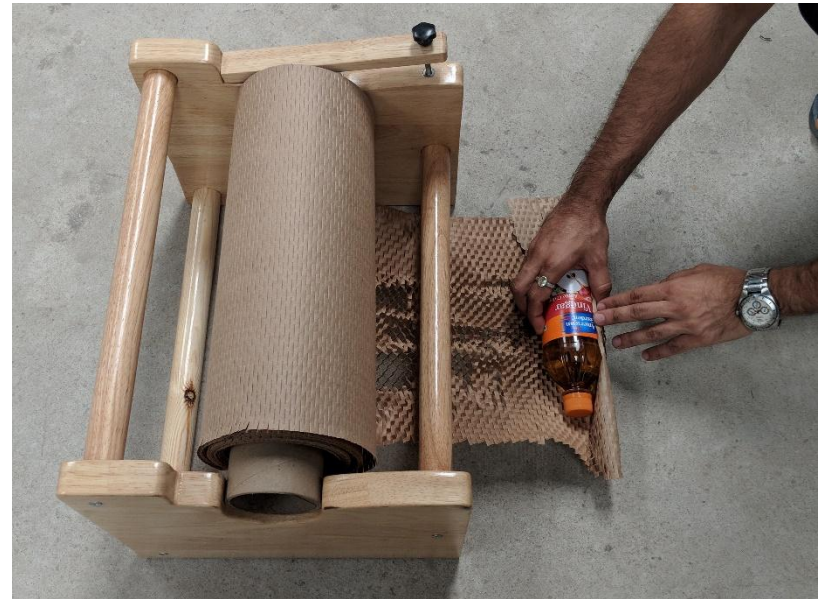
eCommerce Packaging



BHive – Paper Bubble Wrap



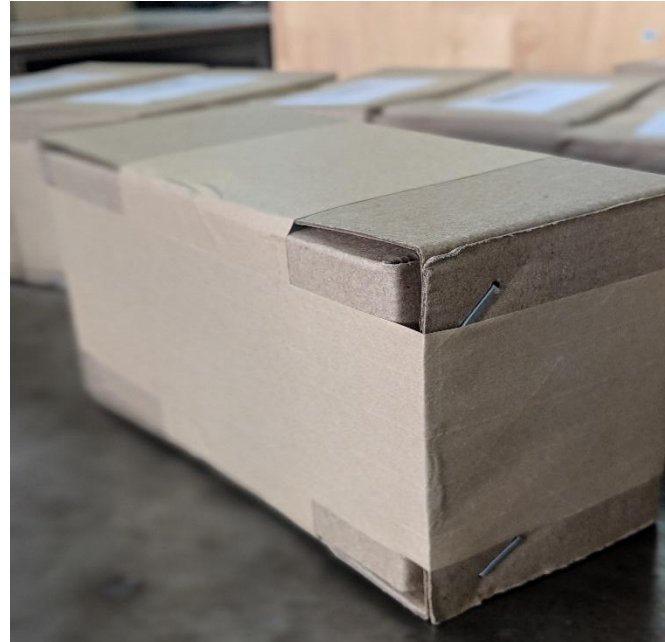
Industrial Packaging



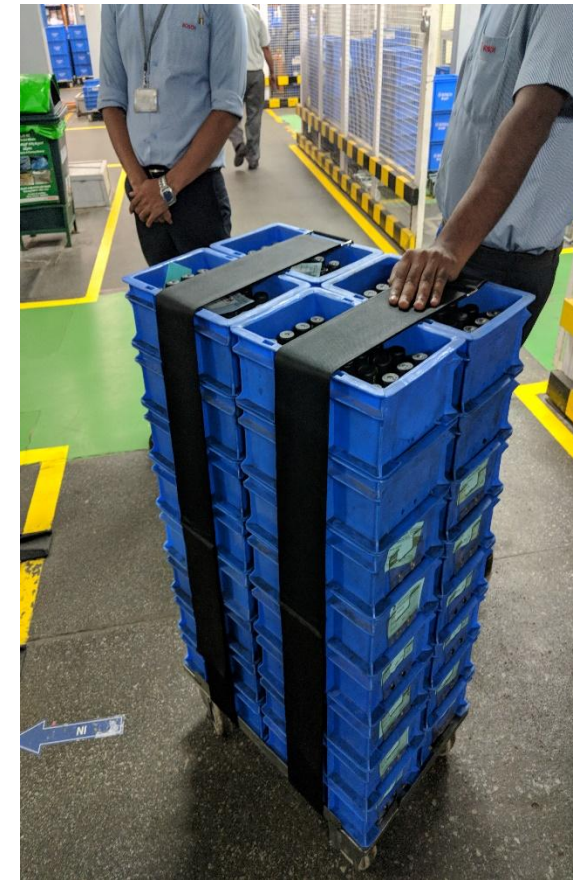
eCommerce Packaging



Paper Tape – Water Activated Tapes



Reusable Packaging – Pallet Straps



Reusable Packaging – Pallet Straps - Auto client

Old method of auto parts movement



New cost-saving & eco-friendly adoption



Reusable Packaging – Pallet Wraps



Conclusion

Paradigm shift – future is NOW

- With recent regulations, reducing single-use plastic packaging should be part of KPIs at organizations, and their suppliers, too
- In this ‘viral’ world, perception matters a lot. Addressing plastic pollution increases brand loyalty.
- Transport packaging can be the first and quickest step to adopt in the move towards Green Packaging.

#QuickWinPlastic

What's Your move?





Thank you

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