

Reduce or Eliminate Single-use Plastic in **Burgmann Packings** 



#### **Facts**

The ocean covers more than 70% of our planet

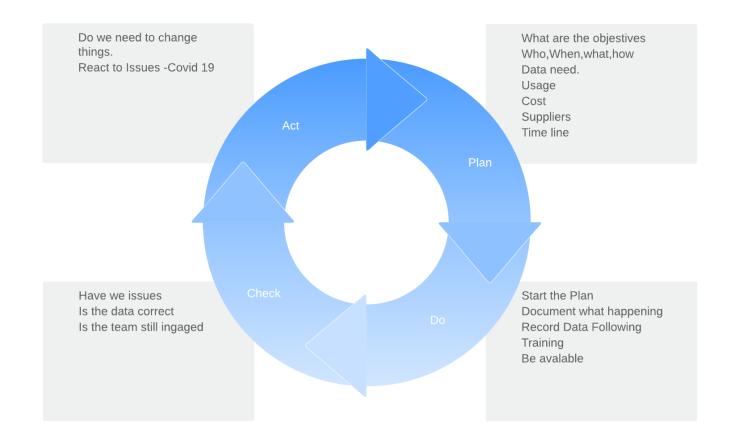
It's our most valuable resource: helping to feed the world, create jobs, govern weather and keep our air clean.

The oceans are also home to microscopic algae, the gigantic blue whale and hundreds of other species we have yet to discover.

Each year eight million metric tons of <u>plastic</u> <u>pollution</u> ends up in the ocean. Essentially, humans are emptying a garbage truck of plastic into the ocean every minute



## P.D.C.A



### S.M.A.R.T

## Plastic awareness day" 2/3 Day Kaizen event

Specific	<ul> <li>To reduce and eliminate plastic and single plastic use effectively</li> <li>To locate recycling activities for the reduction of plastic use</li> <li>To use cardboard boxes for packaging</li> </ul>
Measurable	<ul> <li>To phase out single use plastic across all of their manufacturing sites</li> <li>To find ways in the measurement of the effectiveness of reducing plastic usage for the packing process</li> </ul>
Achievable	<ul> <li>To work with potential member to effectively mitigate the effects of plastic hereby improving the environment effectively</li> <li>To work in close partnership with the partners of the packing company effectively</li> </ul>
Relevance	<ul> <li>To check usage of plastic in all processes</li> <li>Collecting purchases of plastic products</li> </ul>
Timeframe	<ul> <li>To change plastic organizer to metal</li> <li>To organize training for zero plastic use applicable to all staff</li> </ul>



#### <u>Awareness</u>

- Announce the change to employees well ahead of time.
- Explain your reasoning behind the change, including current pain points and potential ROI of the new solution.
- Give employees an opportunity to ask questions and make suggestions.

#### <u>Desire</u>

- Gauge employees' reactions to the change.
   Identify champions.
  - If employees are resistant or indifferent, address their concerns or show them how the change
- on. benefits them personally. an ik ake

#### **Knowledge**

- Provide training or coaching to show what employees need to do after the change takes place.
- Address any skill gaps.
- Offer resources, such as process flowcharts, that employees can reference later on.

#### **Ability**

- Schedule practice runs before the change is fully implemented.
- Monitor performance immediately following the change and provide constructive feedback.
- Set reasonable goals and metrics at the start.
- Adjust processes as necessary.

#### Reinforcement

- Monitor the change over time to ensure it fulfills your desired outcome.
- Use positive feedback, rewards, and recognition to encourage employees to keep following the new process.

Enablement zone

Engagement zone

#### **Plastic Packaging Task Force**

3 Teams Ireland/China/Turkey

<u>BPI</u>	BPT	<u>BPC</u>		
Ivan	Muhammed Semih Turköne	Mr. Harvey Li		
Miriam	Tuğrul Pador	Ms.Dora Fong		
Denise	Mağruf Çolakoğlu	Ms. Jenny Xu		
	Umit Bilen	Mr. Luo Jianli		

**Phase 1**- Internal Audit was done on All Plastic used on the 3 sites.

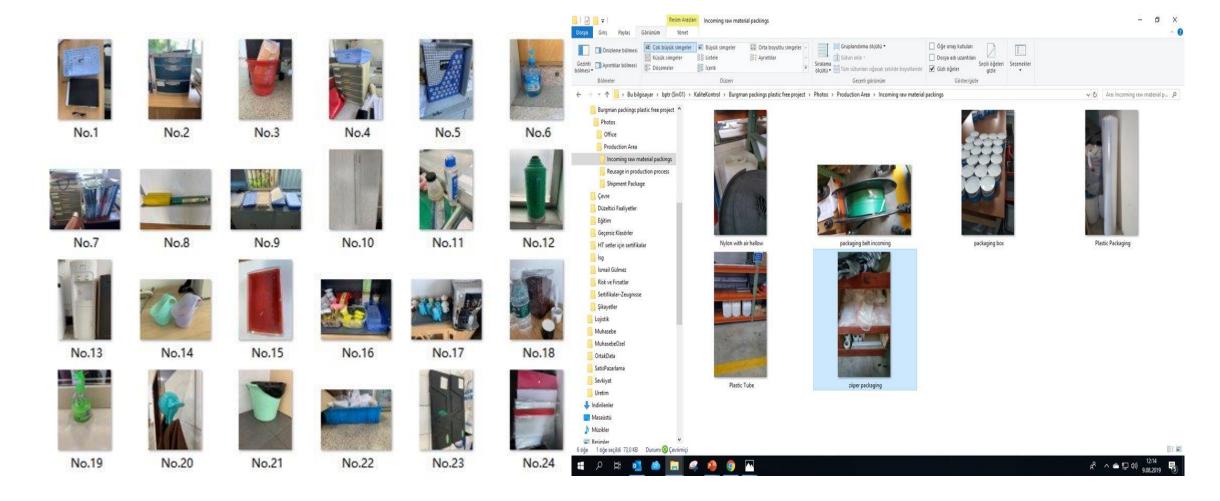
A,B,C analysis was Done

A=Easy to replace

B= Can be done but will take a little longer

C= Will take some time and there a cost.

#### **Action:**



Group A Plastic

Easy to Replace



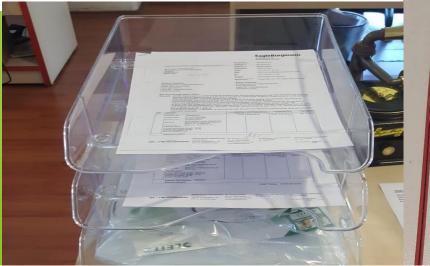
Easy to replace



Standard OPP adhesive tape



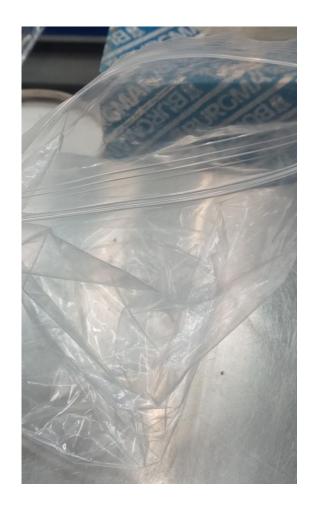
Biodegradable adhesive packing tape







## **GROUP B PLASTICS**





# **GROUP C PLASTICS**



Packaging film and clips







# Pallet Wrap

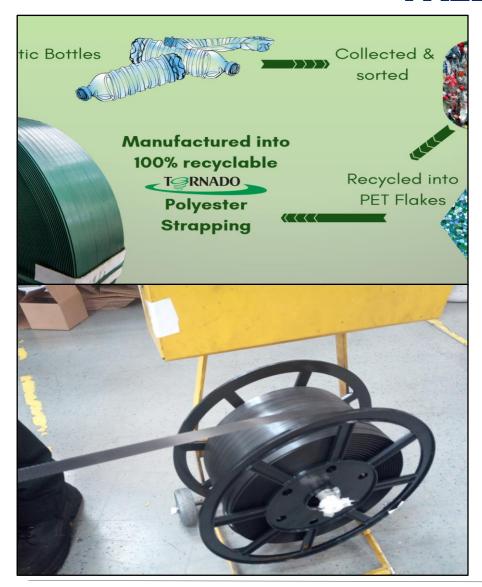


**Biggest issue in the factories** 

Usage 3500kgs per year

**Cost varies across the group** 

## PALLET STRAPPING



1600kgs used across the Group

All site are already Using Recycling material

Supplier's do not recommend the use of Biodegradable due to tensile strength



## **ACTION PLAN**



ORGANIZING TRAINING ON ZERO PLASTIC FOR ALL STAFF



CREATING A PLATFORM FOR EVERY STAFF TO PROVIDE SUGGESTIONS



MAKING IT A PRACTICE TO SUBSTITUTE ALTERNATIVE MATERIALS FOR PLASTIC

# Phase 2



Do we need plastic bags in the bins? 15,000 bags used each year

Replace drinking fountains with Purifier

Replace Air Bubble packing with Paper

ISO14001 Environment Certification

How many offices in the Burgmann Group has bins under their Tables with a plastic bag in it??? Ever ask yourself why do we use a Bag in the Bin??

**Ban the Bags** 



We don't need plastic bags or biodegradable bags in our bins

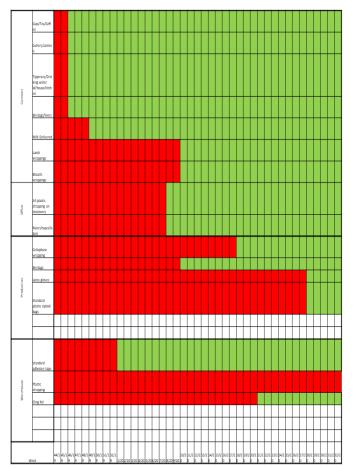
By the end of July

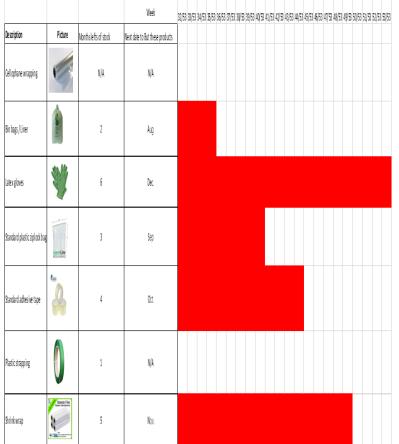
**Ban the Bags** 

Be part of the solution, not part of the pollution.



# **Phase 3 Action Plan**





				Single Use	Bio Degrable	Re Cycleable	
		Description	Picture	Qty			
	Production	Cellophane wrapping		1000kgs	500kgs		Use Paper packing were possible
		Bin bags / Liner	A STATE OF THE STA	375kgs			Gone
		Latex gloves	*	400kgs	400kgs		
		Standard plastic ziplock bag	Greeoline and Fall	82kgs	82kgs		
	Warehouse	Standard adhesive tape	Con	555kgs			PAPER Tape
		Plastic strapping	0	1600kgs		1600kgs	
		Shrink wrap	Strotch Film thorn conditions	3500kgs	3500kgs		
				7512kgs	4482kgs	1600kgs	

# **Conclusion**Re: The Employees within the Company

They have firsthand knowledge of Lean tools, better awareness on how to bring about improvements

Participated as part of a Lean project Team

**Understanding of the Principles and Benefits that Lean offers** 

Had a Lean Mentor to Guide them through the project

By making mistakes, review the process they followed up with the solutions

# **Reinvent**



# **Mcdonald's Plastic Straw to No Straw**























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