

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



Facts

The ocean covers more than 70% of our planet

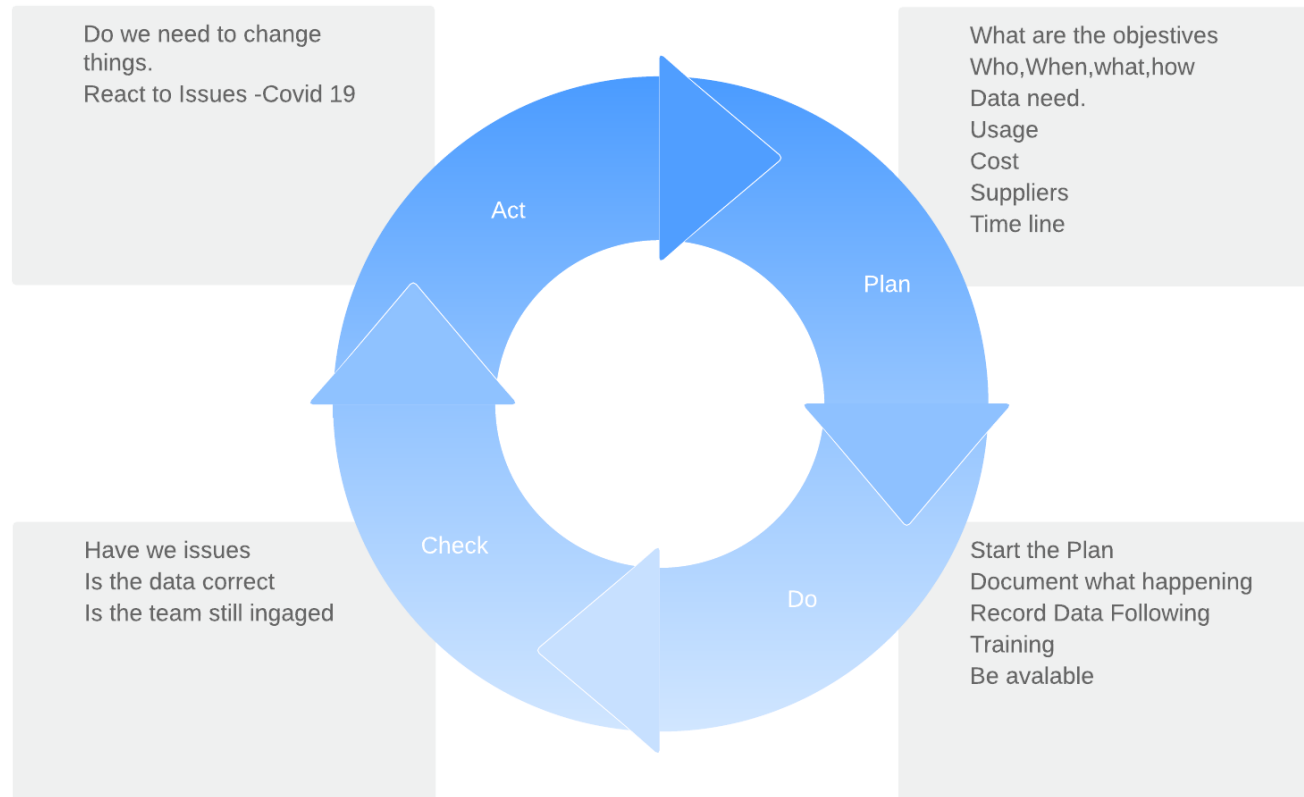
It's our most valuable resource: helping to feed the world, create jobs, govern weather and keep our air clean.

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 [plastic pollution](#) ends up in the ocean. Essentially, humans are emptying a garbage truck of plastic into the ocean every minute



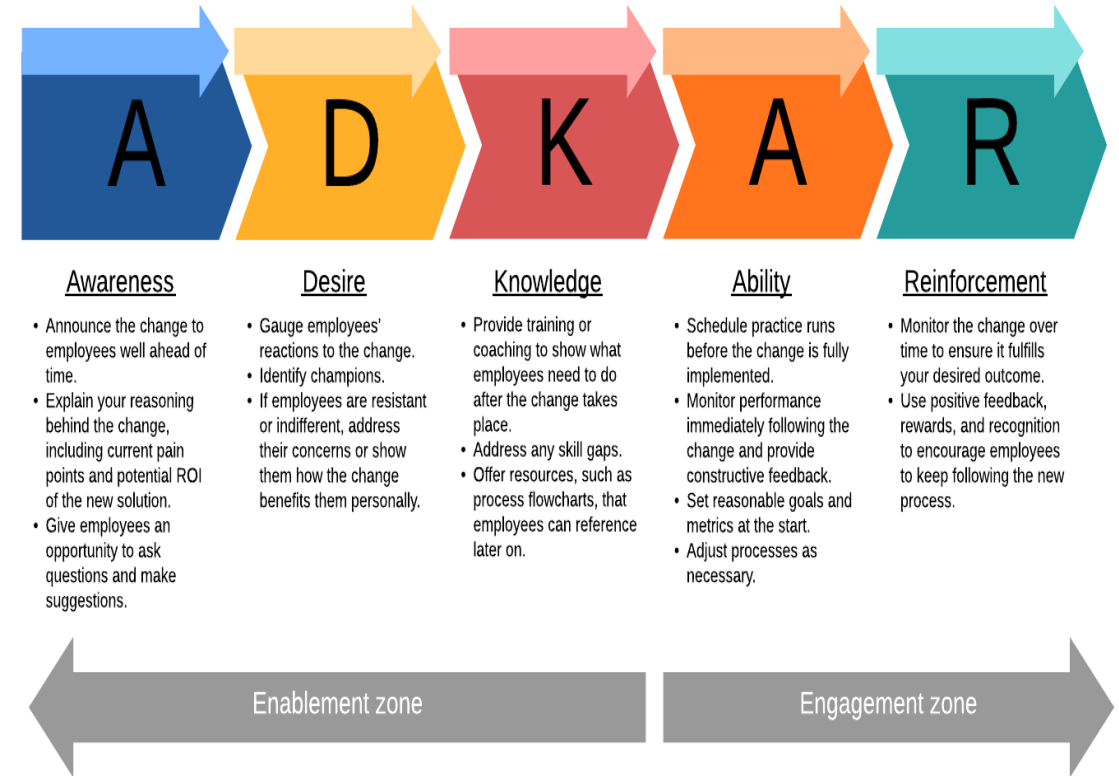
P.D.C.A



S.M.A.R.T

Specific	<ul style="list-style-type: none"> To reduce and eliminate plastic and single plastic use effectively To locate recycling activities for the reduction of plastic use To use cardboard boxes for packaging
Measurable	<ul style="list-style-type: none"> To phase out single use plastic across all of their manufacturing sites To find ways in the measurement of the effectiveness of reducing plastic usage for the packing process
Achievable	<ul style="list-style-type: none"> To work with potential member to effectively mitigate the effects of plastic hereby improving the environment effectively To work in close partnership with the partners of the packing company effectively
Relevance	<ul style="list-style-type: none"> To check usage of plastic in all processes Collecting purchases of plastic products
Timeframe	<ul style="list-style-type: none"> To change plastic organizer to metal To organize training for zero plastic use applicable to all staff

Plastic awareness day” 2/3 Day Kaizen event



Plastic Packaging Task Force

- 3 Teams Ireland/China/Turkey

<u>BPI</u>	<u>BPT</u>	<u>BPC</u>
Ivan	Muhammed Semih Türköne	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.

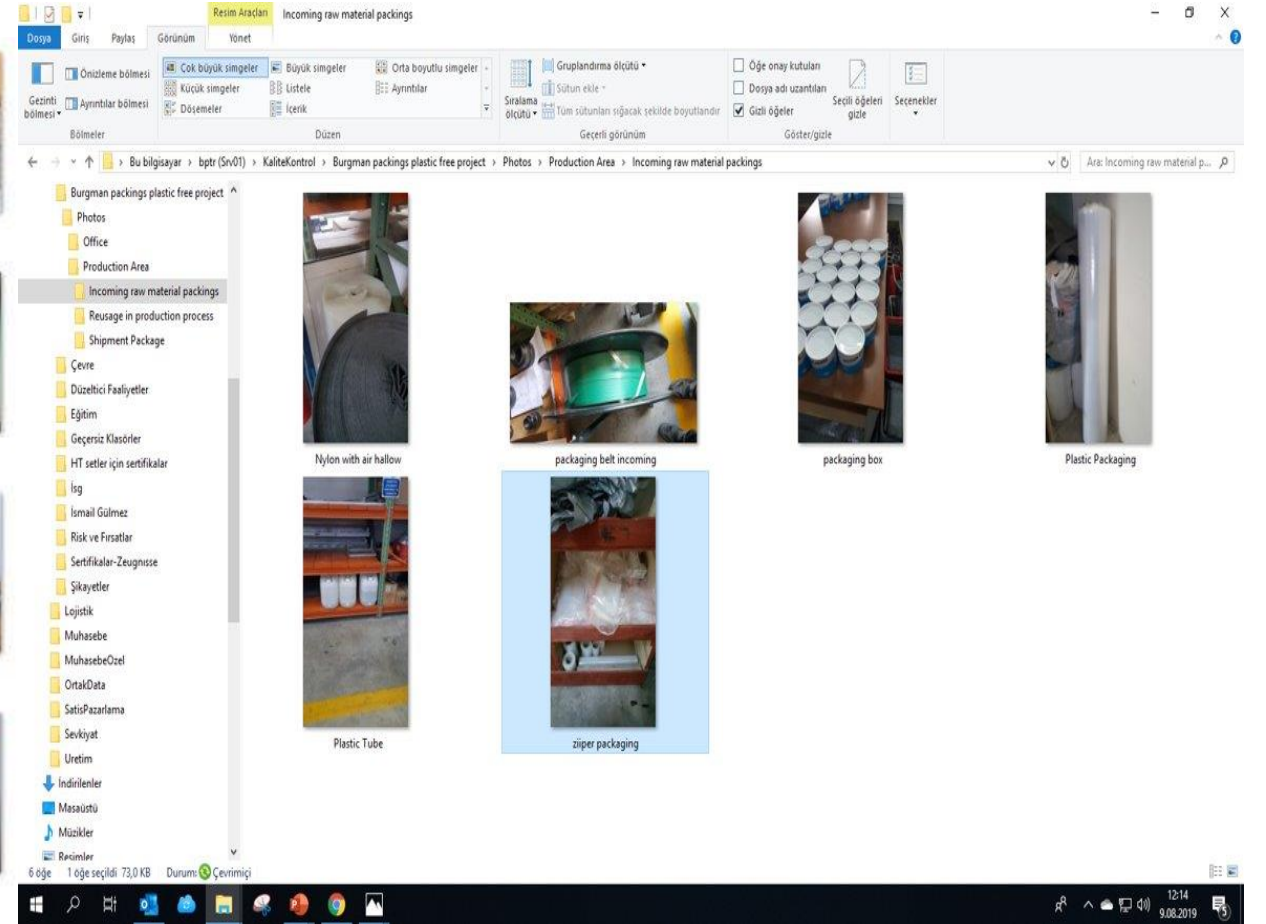
A,B,C analysis was Done

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

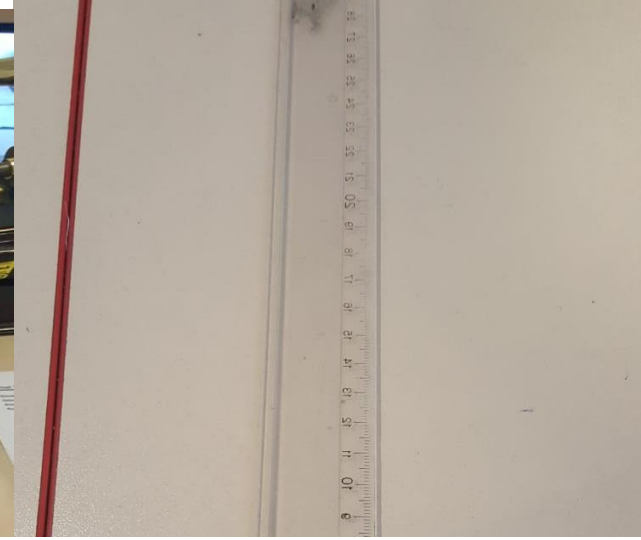
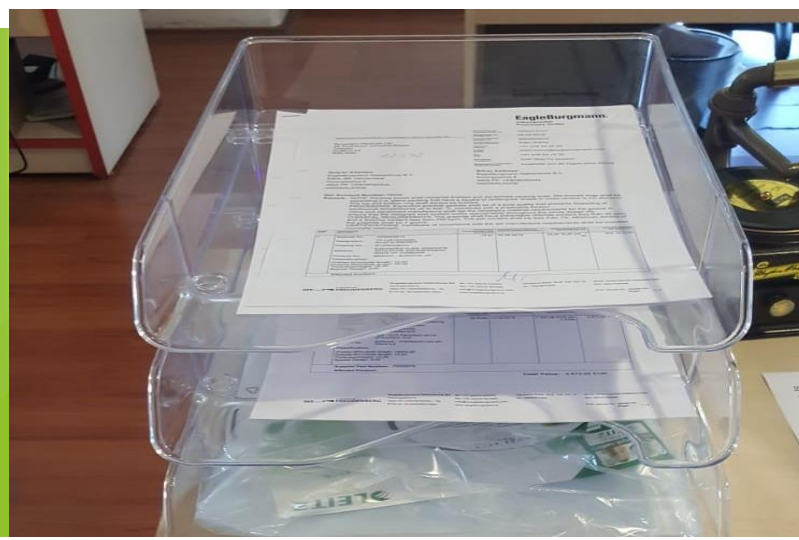


Standard OPP
adhesive tape



Biodegradable
adhesive packing tape

4



GROUP B PLASTICS



Can be replaced, but will take a little longer

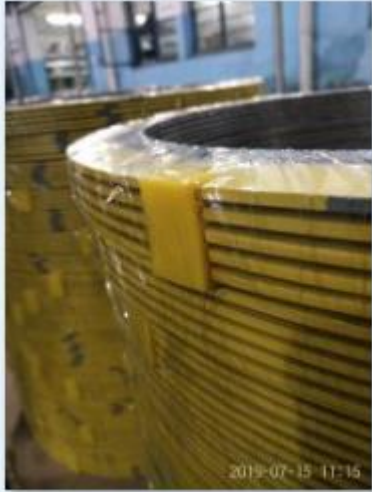


Disposable latex gloves



Multiple reusable work gloves, use different pairs to handle different packing

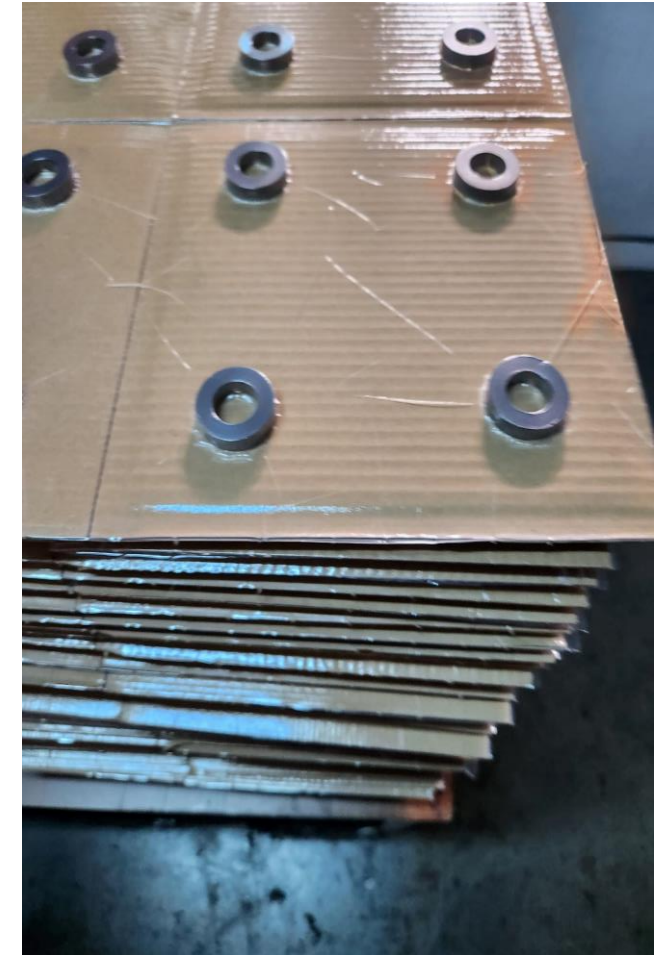
GROUP C PLASTICS



Packaging film and clips



Packaging film and shell-shipment



Pallet Wrap

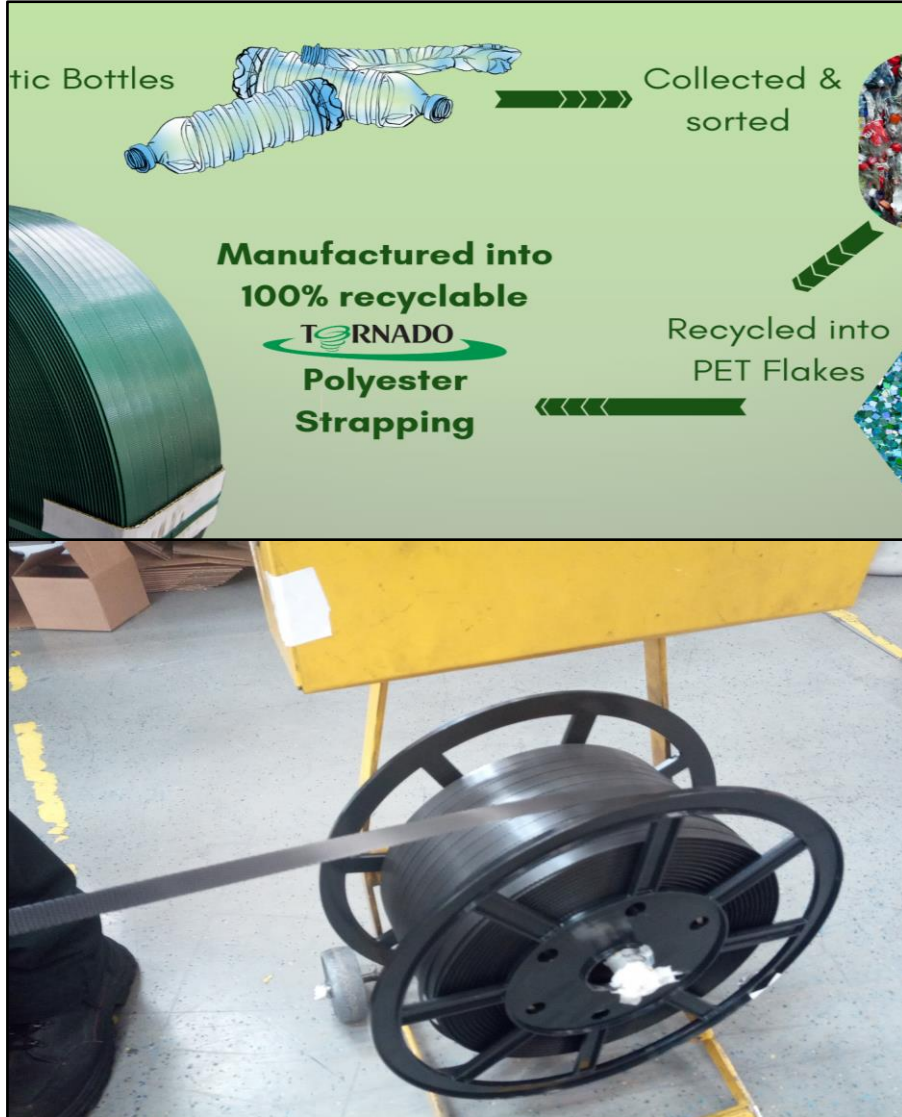


Biggest issue in the factories

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 Bio-degradable due to tensile strength



ACTION PLAN



ORGANIZING TRAINING ON ZERO PLASTIC FOR ALL STAFF

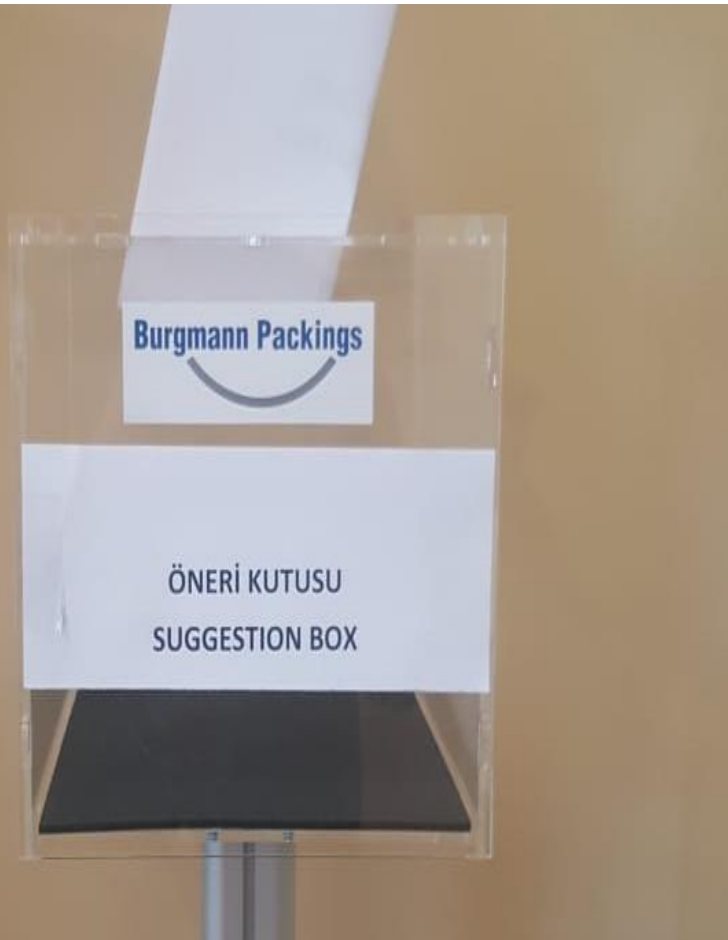


CREATING A PLATFORM FOR EVERY STAFF TO PROVIDE SUGGESTIONS



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

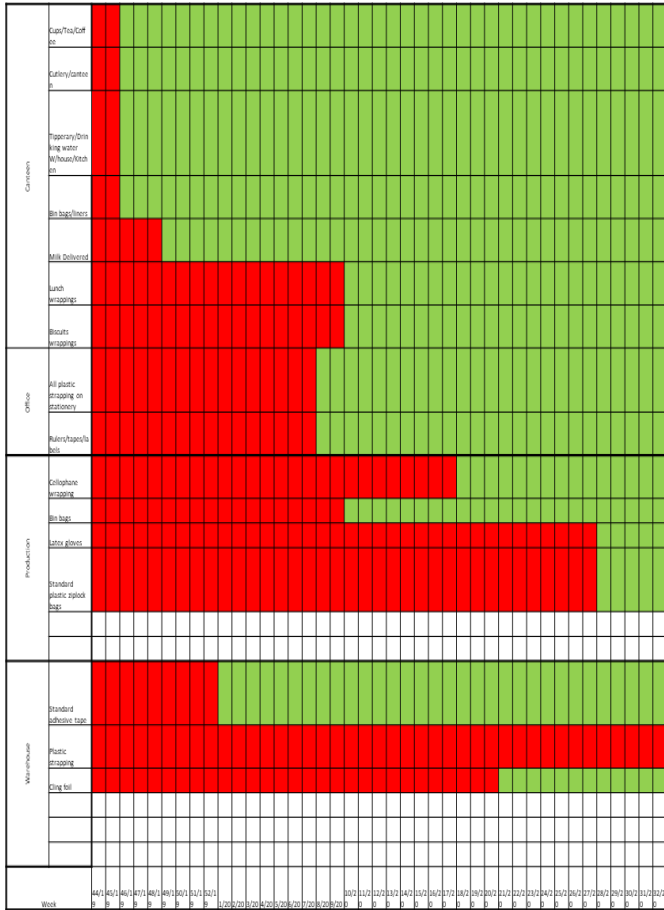
By the end of July








Ban the Bags

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



Phase 3 Action Plan

[illegible]

				Single Use	Bio Degradable	Re Cycleable	
		Description	Picture	Qty			
	Production	Cellophane wrapping		1000kgs	500kgs		Use Paper packing were possible
		Bin bags / Liner		375kgs			Gone
		Latex gloves		400kgs	400kgs		
		Standard plastic ziplock bag		82kgs	82kgs		
	Warehouse	Standard adhesive tape		555kgs			PAPER Tape
		Plastic strapping		1600kgs		1600kgs	
		Shrink wrap		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









