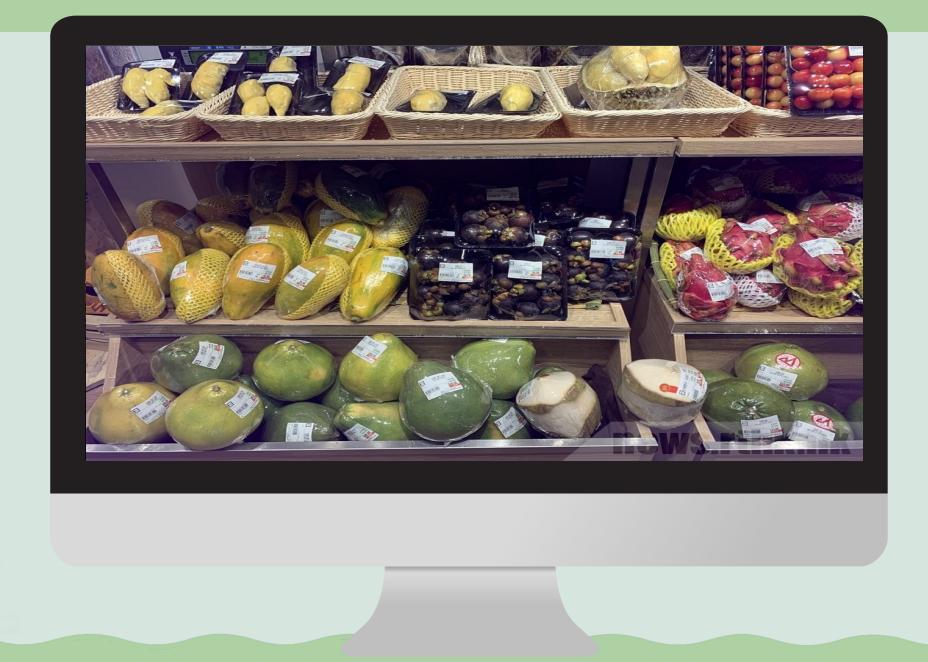


Alternatives for polystyrene Fruit packaging in Hong Kong

• Team 4 •

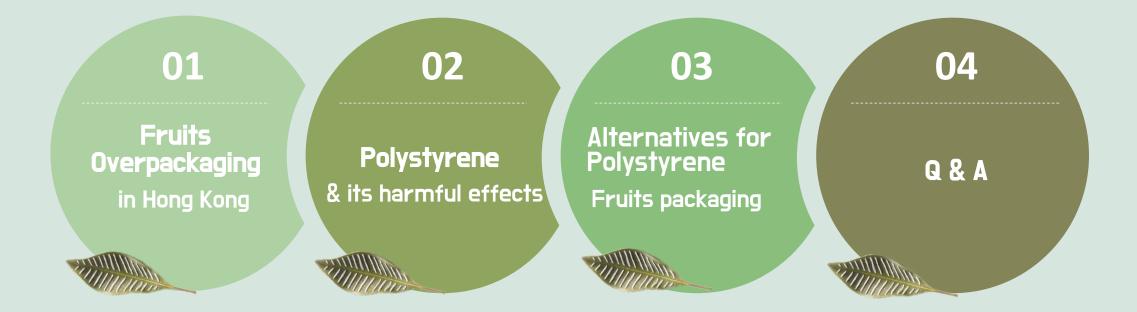
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Advantages of Plastic Fruit Packaging in Hong Kong



Convenience for storage

Packaging provide convenience for stacking and storing food under limited spaces.



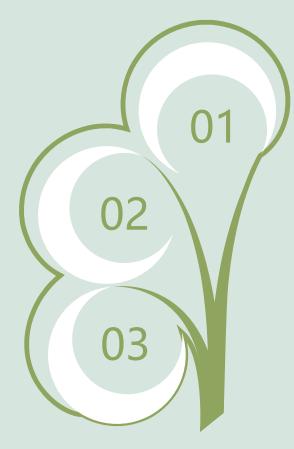
Illustrates social prestige

The more finely the fruit is packaged, the more "face" is shown to the recipients.



Protection during transportation

Most of the fruits in Hong Kong are imported from other countries



In Hong Kong



2,000 tons of plastic are generated each year

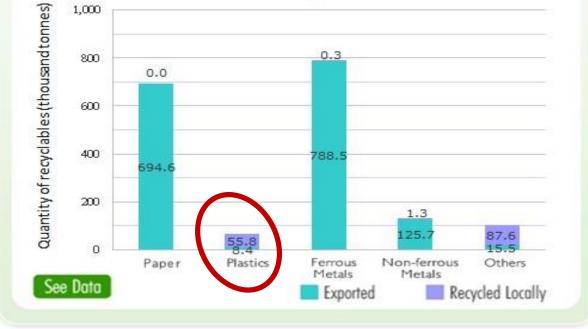
90 double-decker bus



IIII

In Hong Kong





Low rate of recycling plastics

Sent to landfill





Polystyrene

Synthetic aromatic hydrocarbon polymer

Made from the monomer styrene

Good fluidity

Excellent heat resistance

Light yet strong

Why is polystyrene dangerous?



Exposure of toxins in the manufacturing process of Polystyrene



Polystyrene Endangers the Marine Environment.

Absorbs other molecules



Polystyrene attracts and adsorbs other hydrophobic molecules. This is important because it means that micro polystyrene particles transport toxins into the marine environment.

Endanger marine environment



If polystyrene microparticles are ingested by animals, the toxins might be stripped from the PS and absorbed into the animal's system. This makes Polystyrene as highly toxic chemicals.

Threat our health



These microplastics have turned the world's oceans into "plastic soup" thus threatening marine life's health and our health.

Time to Break Down?





Competition - VitaPack



Downside

- Deforestation
- an annual cut down of 7 billion trees
- Non-durable under high humidity paper is not water-proof

The Ultimate Alternative - Leaves Packaging



Eco-friendly way to keep your fruits and vegetables protected without any chemicals added to replace polystyrene.

Advantages

100% ECO-FRIENDLY



Organic

- Chemical free
- 100% Biodegradable
- No Landfill and waste production
- Causes no deforestation
- Prevents destructive environmental issues

Obstacles in Hong Kong



Limited Land

Short Lifespan





Under-developed Green Waste Management



Overcome the obstacle



technology

• Banana leaves were dried up in three days.



- Can maintain a product for one year without adding any chemicals.
- No environmental pollution.



Overcome the obstacle





Less than the environmental pollution caused by plastic.



Applicable to other plants.



Exports and imports may not be necessary.



Impact of this new packaging on a community



General public

• Grow social awareness on using leaves packaging which is biodegradable



Company management

- Many companies will ocus on ecofriendly packaging
- Will produce leaves packaging that is as good as plastic packaging

Recycling company

- Banana leaves can also be used as a good compost after disposal
- Sell them to create new sources of income



THANK YOU