



COMPASSIONATE CITIZENSHIP PROGRAM

LECTURE ON Environment: Plastic Usage

Framework provided by:
Sreecharan & Sumeet , Mahbubnagar Municipality

Pilot Project By

COVA
Peace Network

In Collaboration With SCERT (Telangana State)

Environment: Plastic Usage

What is an Ecosystem?



- ❖ An ecosystem is a self-contained unit of living things (plants, animals and decomposers), and their non living environment (soil, air and water).
- ❖ The examples of ecosystems are grassland (meadow), a forest, a desert, a mountain, a pond, a lake, a river and a sea.
- ❖ Most of the ecosystem in the world are natural ecosystems but some of them are also man-made ecosystems or artificial ecosystems.
- ❖ Artificial ecosystem includes crop fields (agriculture lands), parks and aquarium.

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Properties Of Plastics



- ❖ Plastics are strong, light weight, flexible and durable.
- ❖ Plastics shows superior optical properties (clarity, gloss and color).
- ❖ Plastics can be easily molded into a variety of shapes and sizes.
- ❖ Plastics have excellent mechanical strength (tensile properties, tear resistance impact resistance).

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Types Of Plastic Products:

- ❖ Plastic Water Pot
- ❖ Plastic Containers
- ❖ Plastic Tiffin Box
- ❖ Plastic Bags
- ❖ Plastic Furniture
- ❖ Plastic Sheets
- ❖ Plastic Fittings
- ❖ Plastic Toys
- ❖ Plastic Buckets
- ❖ Plastic Sanitaryware
- ❖ Plastic Stationery



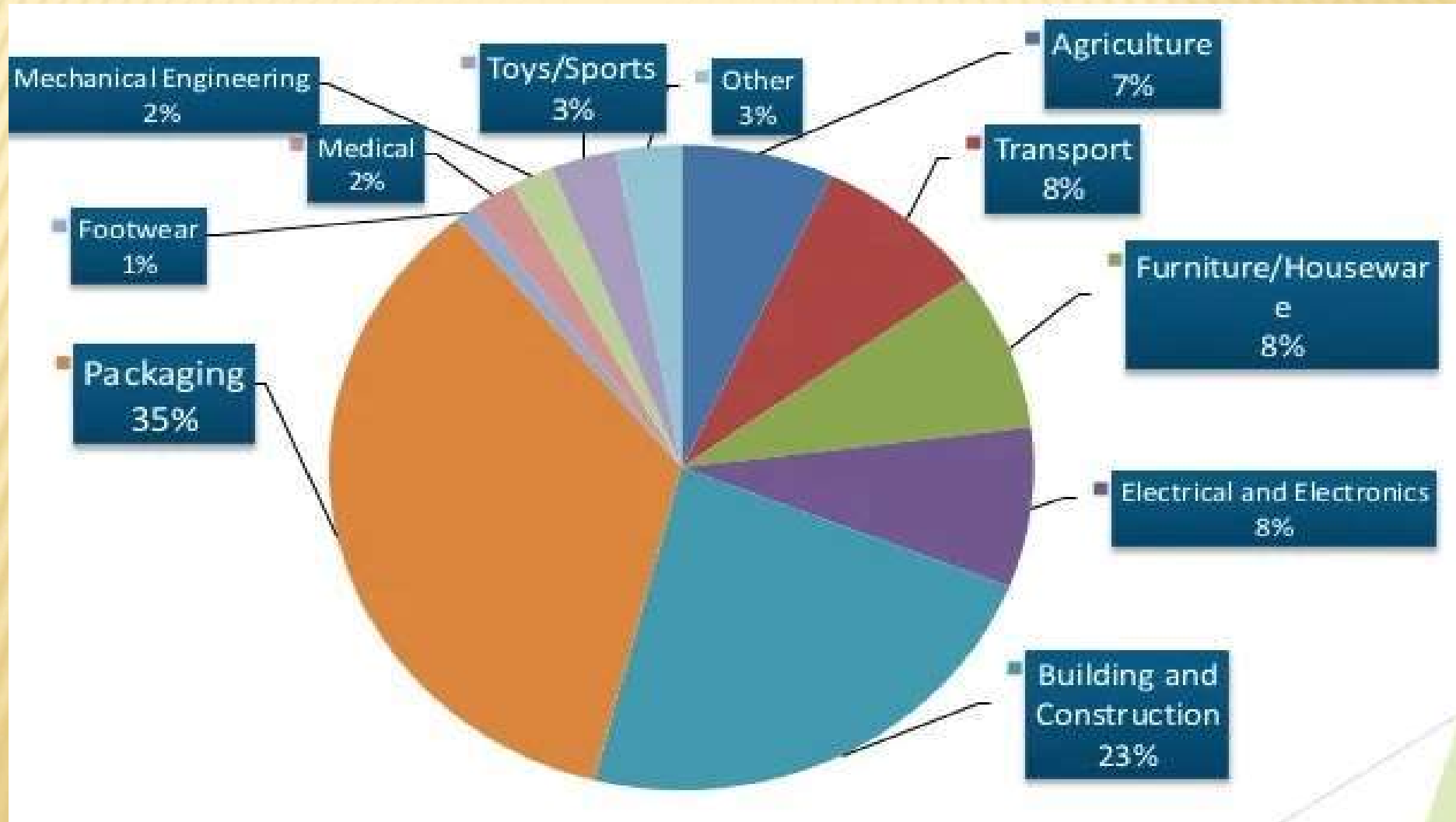
Pollutants From Plastic:



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Plastic Statistics:

Percentage of Plastic used in different fields



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Impact On Environment

- ❖ Plastic is ever-present in our lives because it is convenient and relatively inexpensive.
- ❖ Its convenience comes from being lightweight and its ability to absorb impact shock without breaking.
- ❖ Plastics are so versatile in use that their impacts on environment are extremely wide ranging, posing serious challenge for disposal.
- ❖ Careless disposal of plastic bags chokes drains, blocks the porosity of the soil, and causes problems for groundwater recharge. Due to its non-biodegradable nature, littering of plastics causes irreversible damage to the environment.



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Disadvantages Of Plastic Products

- ❖ As many as 100,000 whales, turtles and birds are reported to die every year, because of plastic in environment.
- ❖ Plastic not only have adverse effects on our natural habitats, but have also been found to be responsible for the death of many animals, mainly on account of the suffocation encountered on eating them.



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Plastic When Burns in Air

❖ When plastic is burned in air it releases a host of poisonous chemicals into the air, including dioxin, the most toxic substance known to science.



*PVC when burned result in emissions of the deadly poisons named **dioxin**. Dioxins are highly persistent compounds, with the potential to become increasingly concentrated in living tissues as they move up the food chain. It is often considered to be the man-made compound most toxic to animals.*

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Some Recommendation for Using Plastics

- ❖ Don't microwave in plastic containers.
- ❖ Cover food in the microwave with a paper towel instead of plastic wrap.
- ❖ Don't reuse single-plastic (the number one _ PET plastic). They can break down and release plastic chemicals when used repeatedly.
- ❖ Do not use old, scratched plastic containers. Exposures to plastic chemicals may be greater when the surface is worn down.
- ❖ Choose glass or BPA – free baby bottles with a clear silicone nipple.
- ❖ Avoid plastic to mouth contact, especially for babies and kids.

[A Green Way to burn Plastic Waste – an article in **The Hindu**](#)

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Use of Plastic Bags Banned in:

Maharashtra,- Dehli – Punjab - Rajasthan

Himanchal Pradesh- Goa and West Bengal.

Ban in Hyderabad

- ❖ The GHMC's issued a Circular No. 839/AC (H&S)/GHMC /2011 dated 11 July 2011 banning some types of plastic bags
- ❖ With effect from 1st July 2011
- ❖ The ban applies to manufacture, sale, storage and use of plastic bags of less than 40 Micron

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Project Works

Possible Issues- Subjects for interviews - Questions.

Issue: Use of Plastic

Subjects for Interviews: Citizens, Students, Shopkeepers

Possible Questions: Do you know the Harms of Plastic

Why do you use Plastics

Will you stop using plastic

What could be substitutes for Plastics

Issue: Ban on Plastics

Subjects: Shopkeepers, Officers and
Environment Experts

Possible Questions for Shopkeepers

Do you know of Ban on Plastics

Were you fined for using plastic

Do you know anyone who was fined

Why do you still use plastic



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Project Works

Issue: Ban on Plastics.

To Officials

What action do you take against those using plastics

How can ban on plastics become effective

Any suggestions for the Government

To Experts:

What will happen 25 years from now if we continue to use plastic

Is there any substitute for plastic

Do you take any actions to prevent use of plastics

What difficulties you face in spreading awareness

Any suggestions for the Officials and Government

Start thinking of Issue you will select, Subjects you will interview, Questions you will ask and one action you will take to address the Problem.

Experts will help you with your Project Work.

Time to Act

Think of one thing you can and will do to spread awareness about harms of using plastic or to prevent use of plastic



THANK YOU