Background on Plastic Reduction Project

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Intro







Alternative Serviceware Guide

Marine Debris Projects

Shrink Wrap Recycling



What is plastic?

- Lightweight
- Flexible
- Inexpensive
- Convenient





So, what's the problem?





Toxicity

- Contaminates air, water, and land
- Harmful to workers and nearby residents
- Produces greenhouse gases





Plastic production contributes more to global greenhouse gas emissions than Brazil.

- Toxicity
- Management
 - An estimated 8 million metric tons/year of mismanaged plastic waste goes into the ocean





8 million metric tons is equivalent to the weight of 1,333 Great Pyramids combined.

- Toxicity
- Disposal
- Mass
 - Production has increased exponentially and so has the waste the US produces 42 million metric tons/year of plastic waste





42 million metric tons is equivalent to 7.5 million adult African elephants.

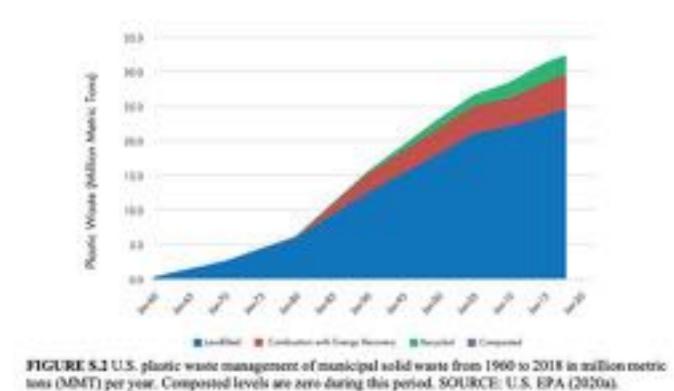
- Toxicity
- Disposal
- Pervasiveness
- Disposal
 - Total landfill capacity in Massachusetts is expected to decline to 90 percent below current levels by 2030.





By 2030, all but one of the state's seven landfills are projected to close.

We recycle. Isn't that good enough?



Differences in what can be recycled and where.



Recycling is a business and relies on market demand.



Plastic is a global problem.







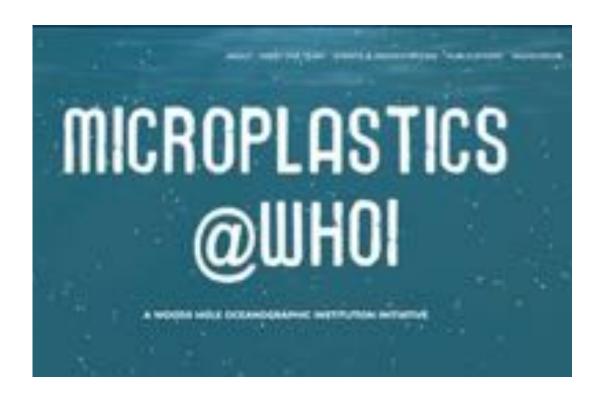
Policy solutions







Scientific solutions









Individual solutions









Thank you!

Questions?

You can email me at samurphy@whoi.edu

