

## **SWANA's Plastic Waste Reduction Initiative: A Sustainable Path Forward for a Decade**

The SWANA International Solid Waste Design Competition (SWDC) 2024



process

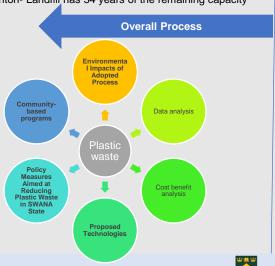
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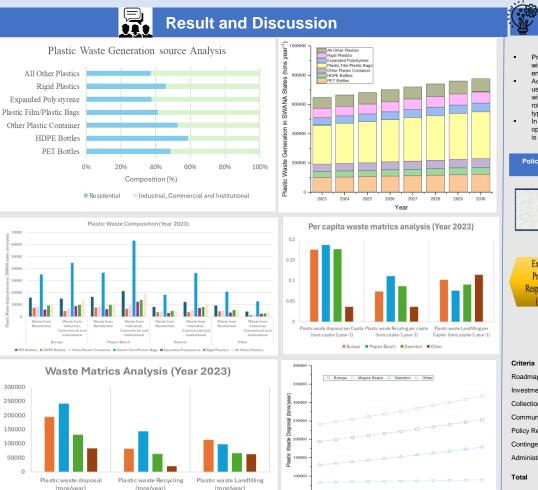
## **Background**

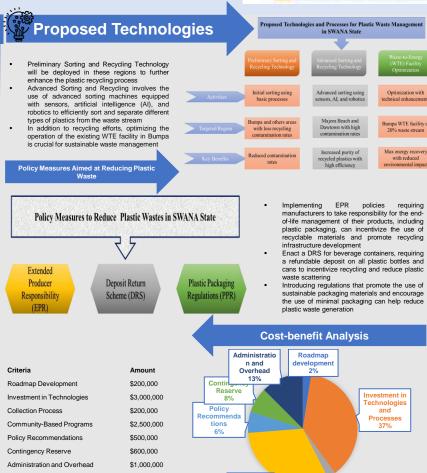
Plastic waste generation in the United States is alarming, with approximately 35,680,000 tons produced annually, constituting 12.2% of the total waste stream. Despite long-standing advocacy for recycling, the efficacy of such programs has been questioned, particularly in the aftermath of China's Operation National Sword in 2017, which imposed strict restrictions on imported recyclables. Economic factors, notably the Producer Price Index (PPI) for recycled plastics, significantly influence recycling programs' viability, with fluctuations in PPI impacting the economic feasibility of recycling initiatives.

## Study Area

- Bumpa- Landfill has not close next 34 years
- Majora Beach-Landfill has 12 years of the remaining capacity
- Dawnton- Landfill has 34 years of the remaining capacity







\$8,000,000

Design Team: University of Regina
(Anika Tahsin Abha, Rumpa Chowdhury, Sagar Ray, Sharmin Jahan Mim)

■ Bumpa ■ Majora Beach ■ Dawnton ■ Other