

# WE HEARD YOU!

During the last meeting with our communities in Swana, concerns raised include:



The impact of tourism on:

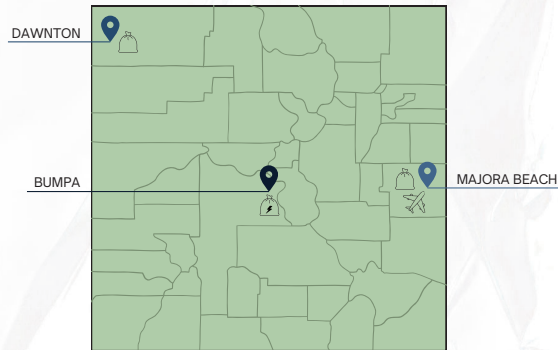
- Waste generation
- Recycling contamination
- Littering



Increasing cost of curbside recycling for the cities of Majora Beach, Bumpa and Dawnton.



Impacts of the Waste to Energy plant on air quality.



## WHERE DO MY RECYCLED PLASTICS GO?

Check that plastics have a resin code! These numbers tell the type of plastic the container is made of. Plastics without a number are a blend of various plastics and make recycling more difficult.



### PRESENT



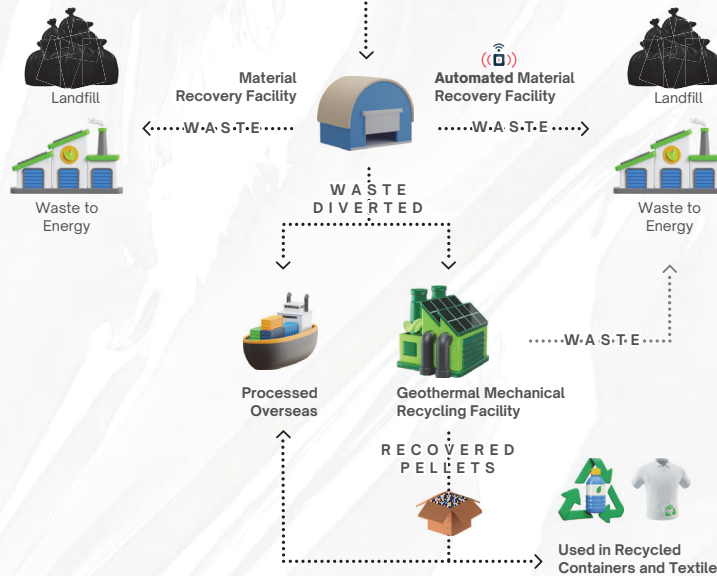
Plastic bags cannot be recycled with the current infrastructure.



### FUTURE



Plastic bags must be delivered to your nearest recycling depot and have a 25c tax upon purchase.



# KEY TARGETS

## INCREASE PARTICIPATION

2025 

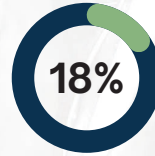
2030 

2035 

### How can you help?

Talk about recycling with your friends and family! Encourage them to learn, understand the process, and invite them to participate in community programs.

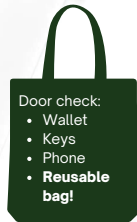
## REDUCE CONTAMINATION BY



### Best practices include:

- Do not recycle anything smaller than a credit card; they jam equipment.
- Ensure it is clean, empty and dry.
- Check the resin code on plastics.
- Shop consciously! Avoid non-recyclable materials when possible.

## ZERO-WASTE HABITS



## WHAT CHANGES CAN YOU EXPECT?

The State of Swana is working to improve our environmental footprint and reduce waste while:

- Making zero-waste, zero-effort for our communities!
- Engaging the new generation in educational programs.
- Communicating with industries and policy-makers to drive forward the circularity of materials.

## A NEW LOOK!



Stay tuned to participate in the re-design of recycling bins! The displayed art will showcase the aftermath of plastic in the oceans, human health, and ecosystem.

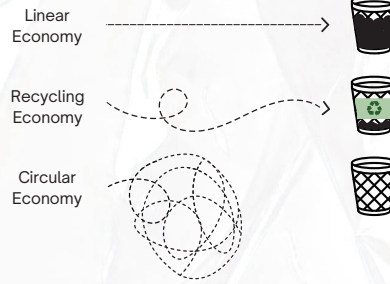
# WHY IS WASTE DISPOSAL IMPORTANT?

## CIRCULAR ECONOMY

- R<sup>0</sup> Refuse
- R<sup>1</sup> Rethink
- R<sup>2</sup> Reduce
- R<sup>3</sup> Reuse
- R<sup>4</sup> Repair
- R<sup>5</sup> Refurbish
- R<sup>6</sup> Remanufacture
- R<sup>7</sup> Repurpose
- R<sup>8</sup> Recycle
- R<sup>9</sup> Recover

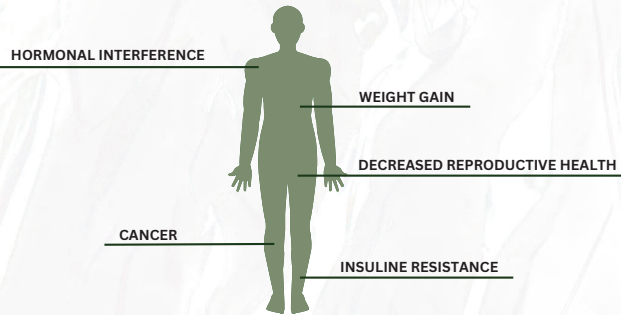
In the **Circular Economy**, things follow the **9R Framework**. Ensuring products have multiple chances to be useful helps save resources and protects our planet [4].

The **9R Framework** is an approach to waste management that emphasizes the importance of consumer habits, industry design, and policies to minimize environmental impact [4].



## IMPACTS TO HUMAN HEALTH

Plastic litter in the environment breaks into smaller pieces called **microplastics**. Research on their long-term effect on human health is limited, but the chemicals accompanying these plastics cause health issues such as [5]:



## DEBUNKING MYTHS <sup>[6]</sup>

MYTH	FACT
The Waste to Energy facilities have a negative impact in our health.	Emissions from these facilities are constantly monitored to remain at acceptable levels during operation. All Waste-to-Energy facilities meet EPA regulatory standards to be able to operate.
Recycling is not worth the effort.	Although the market may vary, recycling has major benefits, including extending landfill life, reducing emissions, saving energy and water, protecting the environment, and creating jobs.

### REFERENCES

- [1] "Phasing out hard-to-recycle and single-use plastics." Ministry for the Environment, 03-Jul-2023. [Online]. Available: <https://environment.govt.nz/what-government-is-doing/areas-of-work/waste/plastic-phase-out/>. [Accessed: 20-Mar-2024]
- [2] B. Recycling, "Understanding Plastic Recycling Codes," Plastic Recycling Codes - Article & Infographic, 16-May-2022. [Online]. Available: <https://www.brownrecycling.co.uk/news-advice/plastic-recycling-codes-article-infographic/>. [Accessed: 20-Mar-2024]
- [3] "Arizaro PC attractive design recycle waste bins in powder coated metal." Binsignia Recycle in Style, 20-Oct-2020. [Online]. Available: <https://www.binsignia.com/product/arizaro-pc-attractive-design-recycling-bins-sheet-metal/>. [Accessed: 20-Mar-2024]
- [4] J. Graham-Nyjs, "Why we need a true circular economy for a waste-free world," World Economic Forum, 17-May-2022. [Online]. Available: <https://www.weforum.org/agenda/2022/05/the-circular-economy-how-it-can-be-a-path-to-real-change/>. [Accessed: 20-Mar-2024]
- [5] Z. S. Isenej, "Microplastics on human health: How much do they harm us?," UNDP, 05-Jun-2023. [Online]. Available: <https://www.undp.org/kosovo/blog/microplastics-human-health-how-much-do-they-harm-us/#:~:text=Different%20chemicals%20can%20each%20from,decreased%20reproductive%20health%20and%20cancer.> [Accessed: 20-Mar-2024]
- [6] "Recycling Myths versus Facts (Canada Edition)." SWANA Solid Waste Association of North America, Apr-2023. [Online]. Available: [https://www.swna.org/docs/default-source/resources-documents/recycling-library/recycling-fact\\_or\\_myth-can.pdf?sfvrsn=2667b7d1\\_4](https://www.swna.org/docs/default-source/resources-documents/recycling-library/recycling-fact_or_myth-can.pdf?sfvrsn=2667b7d1_4). [Accessed: 20-Mar-2024]

