

# Distillery, Apps and Turtle Research

The Past 2 Years with DomSeTCO



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## Welcome to Dominica



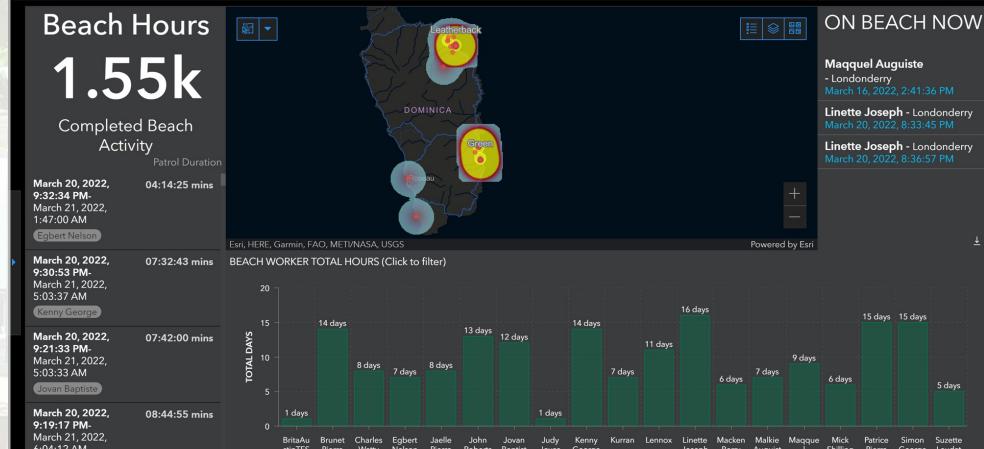


### How Time Flies - Where We Were in 2022



Our distillery had taken shape and our first trials at distilling rum completed

We had just started using our custom-built ArcGIS app

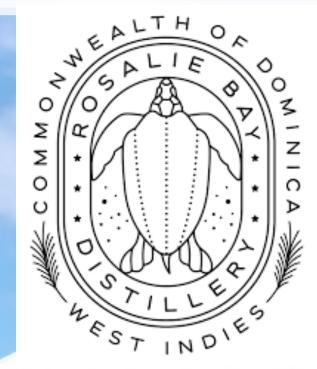


# A World's First - Rosalie Bay Rum



We aim to be selling in the USA market by the end of 2024.

- Over 50 local sugar cane farmers boosting agricultural community
- More than 30 Dominican workers encouraging employment



#### Our sustainability journey so far:

- 11 kWh of solar power online, with another
   50 kWh by the end of the year
- On track to be NET Zero by 2025
- Our biological wastewater treatment building; operational within the next couple of weeks







# A Digital Dominica





To date, we have logged over 4,500 man-hours and several hundred sightings. However, we have not been without our challenges.



It became clear that a 'cold turkey' switch to the app would not work for our team, so this season we are working hard to:

- Ensure all patrollers feel fully trained and supported in the use of the app
- Monitor the usage of the app daily, so issues can be caught and resolved quickly
- Offer a compromise dedicated notebooks to act as a 'backup' for the app



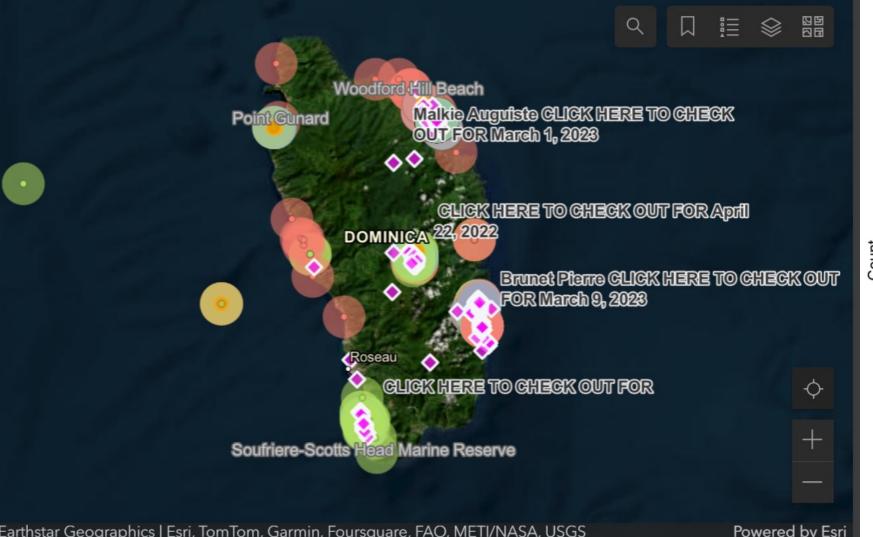
# A Digital Dominica

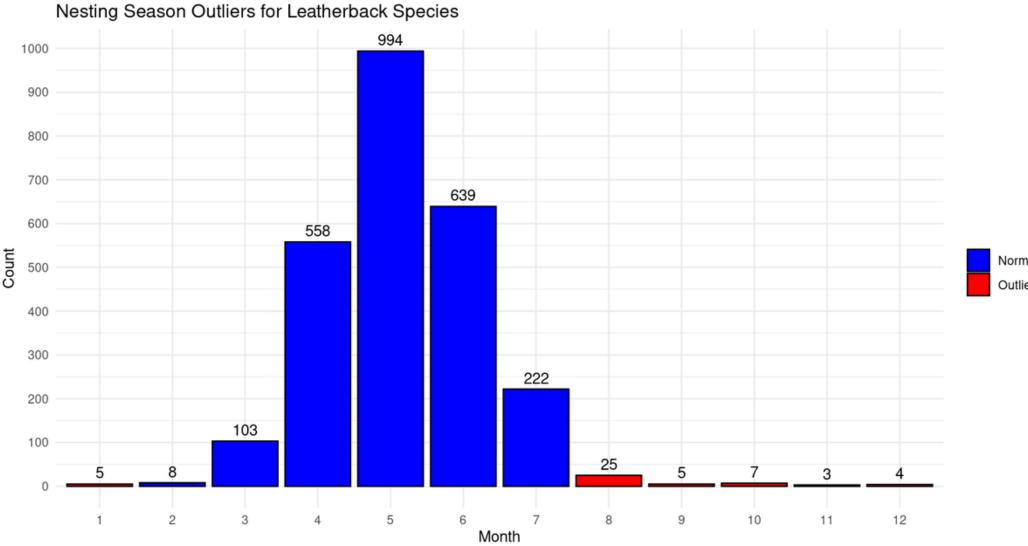


#### Digital data entry has many benefits including:

- · easy access to all records, making checking much more efficient
- mass quality control using programmes such as Python and R

 quick analyses of data - making the scientific process much easier (including automatic GPS data from the app)

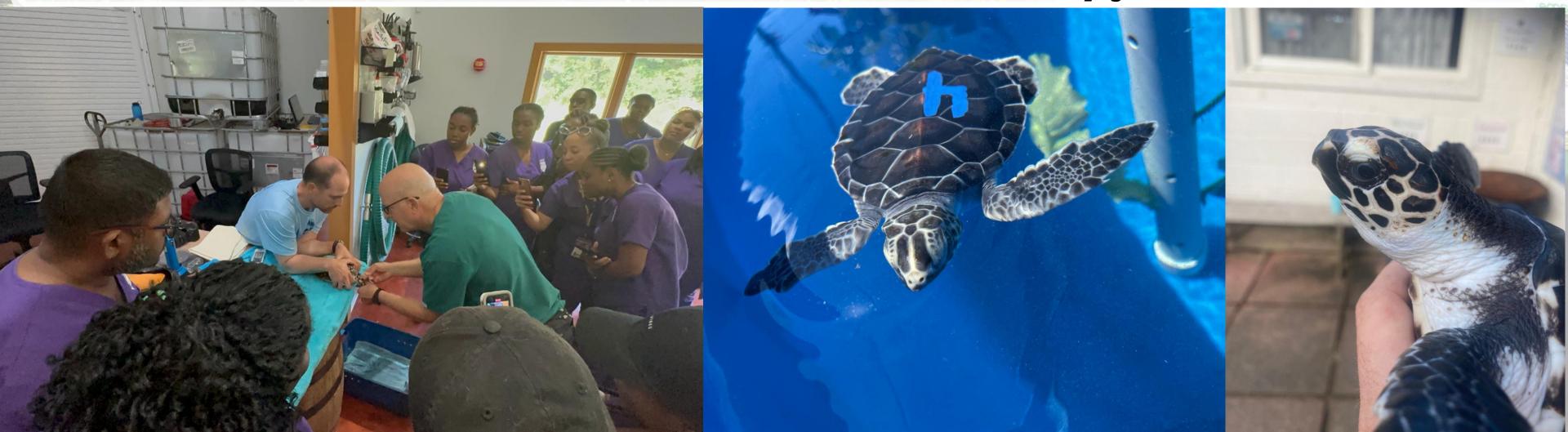




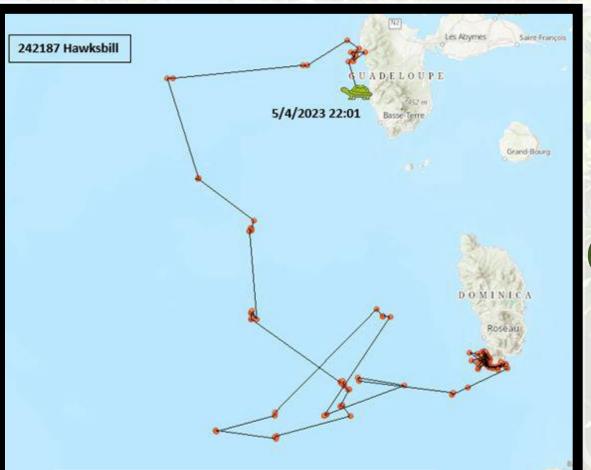
#### The Rosalie Conservation Centre in Action

# A New Hub for Scientific Research Example: Turtle Hearing Study

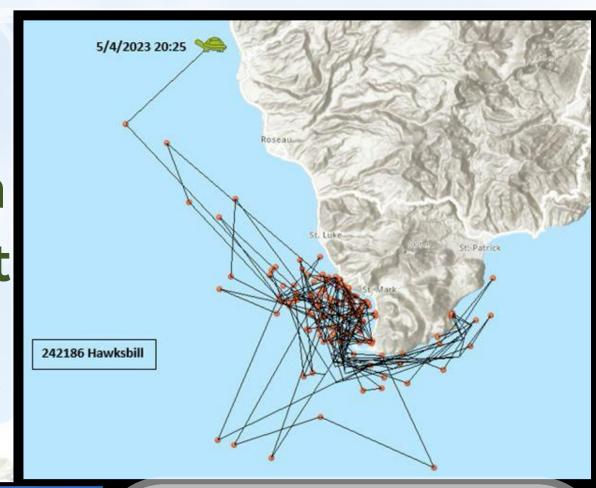
- Auditory Evoked Potentials (AEPs) tests to understand sea turtle hearing in hawksbill sea turtles.
- Greens were released in the North of Dominica to study juvenile movements.



#### Research: Past and Present



Complete: Tracking Nest-Rescued Green Sea Turtles In Oceanic Currents Sheds Light on Eastern Caribbean "Lost Years"".



Deploying more satellite tags to understand sea turtle movement ecology in the Lesser Antilles





Social surveys to understand the perceptions of sea turtle conservation and legislative protection in Dominica.



#### What's Next?





Initiating a PIT Tagging Programme as Part of Patrols We currently have 48 PIT Tags ready to deploy this upcoming season.

Installation of Beach Interpretation
We are in the final stage of manufacturing
custom beach signage, informing the public
on appropriate behaviour around sea turtles
and their nests.



