



 An Taisce

Community actions and local guardianship

# Telling a Nature Restoration Story

Go to [cleancoasts.org](https://cleancoasts.org) to learn more

Follow @CleanCoasts

# Liane Costello

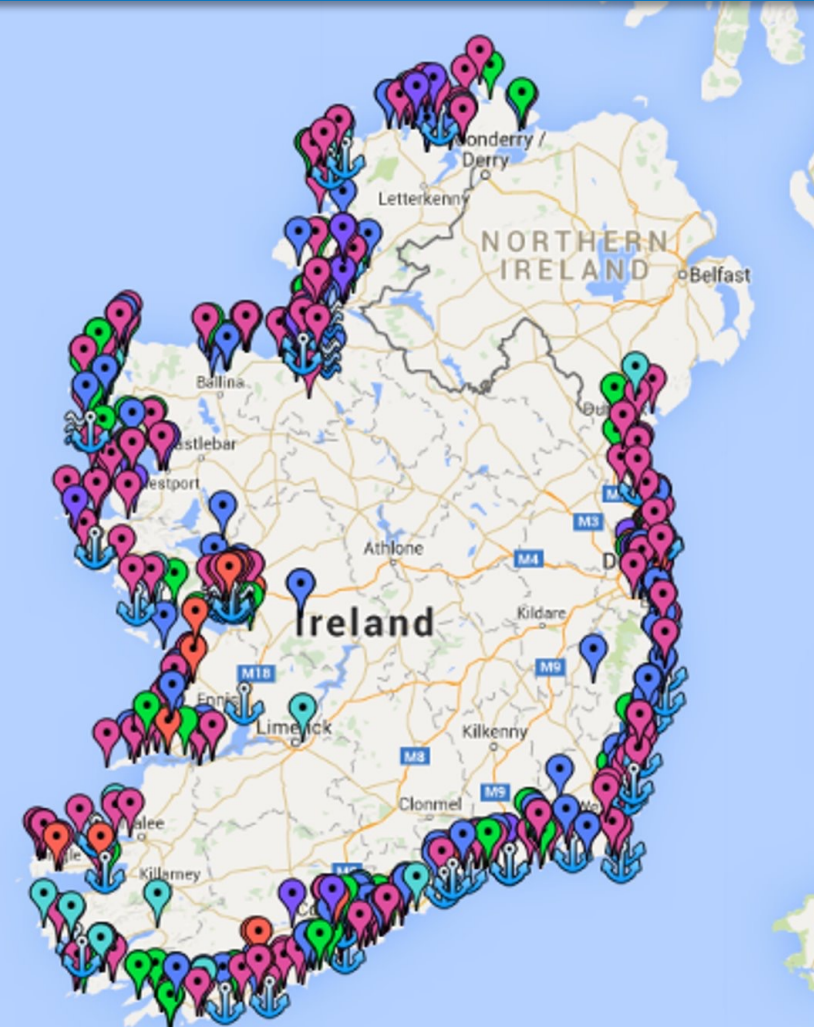
Clean Coasts Biodiversity Officer

- Advocate for marine and coastal environments
- Assist community groups with their biodiversity actions
- Beach workshops, online webinars, etc.
- Research and report writing
- **Communications**



# What is Clean Coasts?

2000 registered Clean  
Coasts groups run 100s  
of clean-ups every year



# Community Actions



## Clean Coasts community actions to promote biodiversity

- Coastal clean-ups
- Green Coasts awards
- Dune restoration
- Access management
- Invasive species removal
- Community action funds



**ROADSHOW**



**PHOTOGRAPHY  
COMPETITION**



**Clean Coasts  
Observer**



**WORLD  
OCEAN  
DAY**



**CORPORATE  
VOLUNTEERING**



**Think  
before  
you  
flush**

**Think  
before  
you  
pour**



**#BreakUpWithPlastic**

# Video links

1. Clean Coasts 2019 – What we got up to  
<https://www.youtube.com/watch?v=Su5Z17BuOiA>
2. Clean Coasts and Portmarnock Community Association marram grass planting workshop  
<https://www.youtube.com/watch?v=bltMLQ5-fJ0&t=1s>
3. #2MinuteBeachClean (an example of how a bit of humour can help messaging sometimes)  
<https://www.youtube.com/watch?v=7ZJgtillbmM&t=12s>
4. **Suggested watching for marine and coastal inspiration:** North Atlantic, Ken O’Sullivan (available of RTE Player); An Cuan (available on TG4 player); Fathaigh na Farraigne (available on TG4 player);



# Build Your Restoration Story

## A potential approach

Try out this approach for constructing your video report:

1. Set the scene
2. Our hero and the conflict
3. The action
4. What to do next?



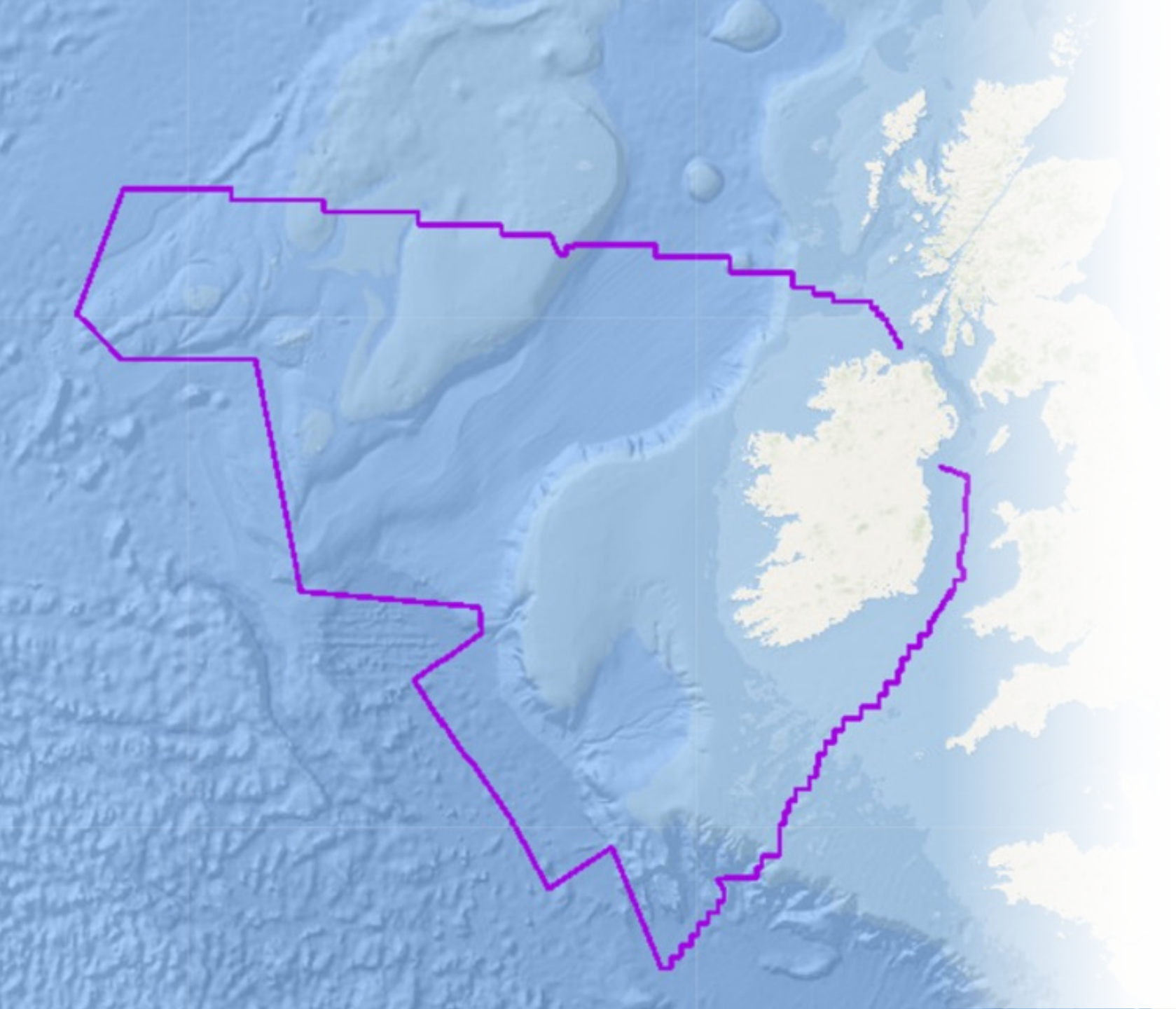
# Set the Scene

Go to [cleancoasts.org](https://cleancoasts.org) to learn more

Follow @CleanCoasts



# The Real Map of Ireland



# Habitats

In ecology, a habitat can refer to two things:

## 1. The habitat of a species

E.g. Atlantic puffin nest on rocky islands,  
safe from mammalian predators and easy  
access to foraging sites

Image by Sean Paterson



# Habitats

In ecology, a habitat can refer to two things:

## **2. An assemblage of animals, plants, and their non-living environment**

E.g. *Zostera* beds habitat include fish, and crustaceans, along with the water, sunlight, and minerals in the ocean that support them. Together, they form an ecosystem.



Image by Ben Shanafelt

# Name that habitat

**In the chat box, list all the marine and coastal habitats that you know!**



# Marine Environment

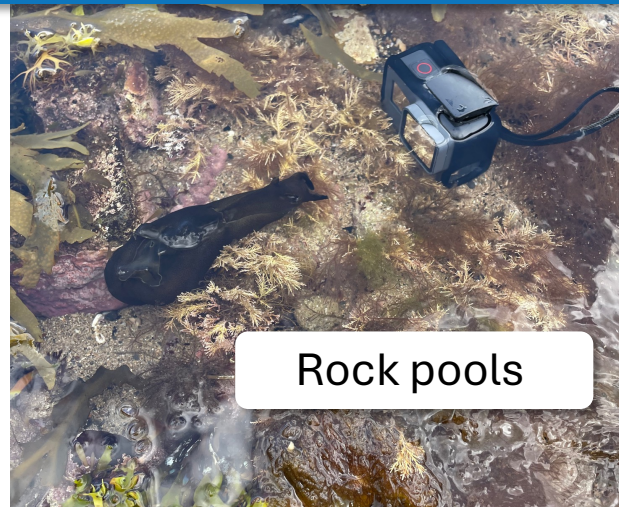
Coastal waters



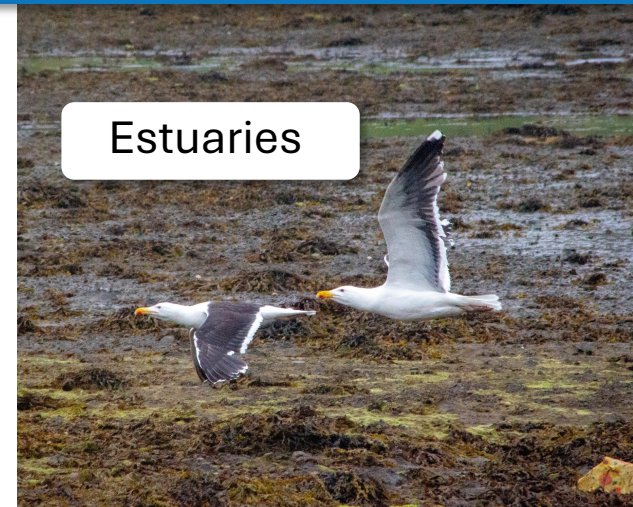
Intertidal zones



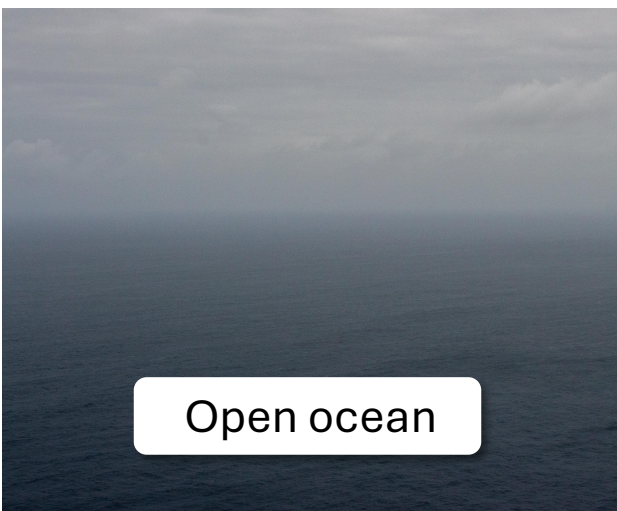
Rock pools



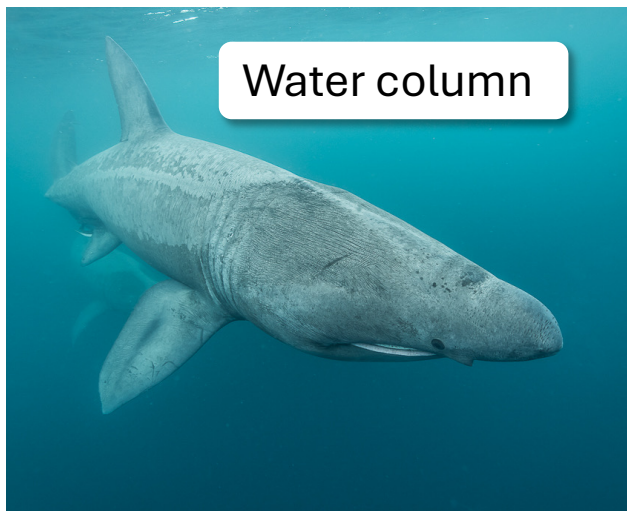
Estuaries



Open ocean



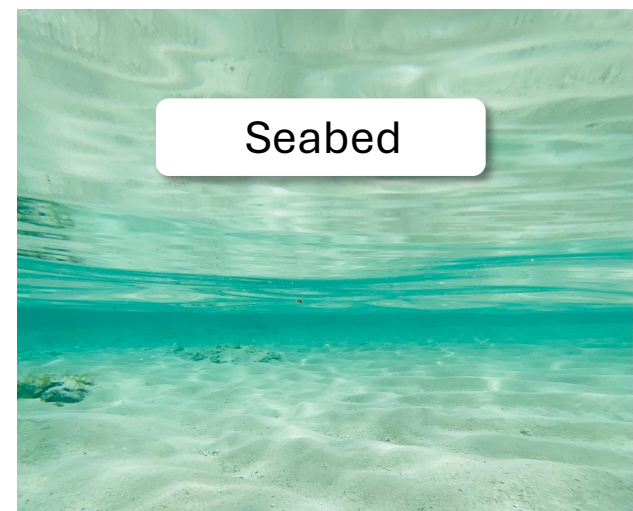
Water column



Reefs and seagrass



Seabed



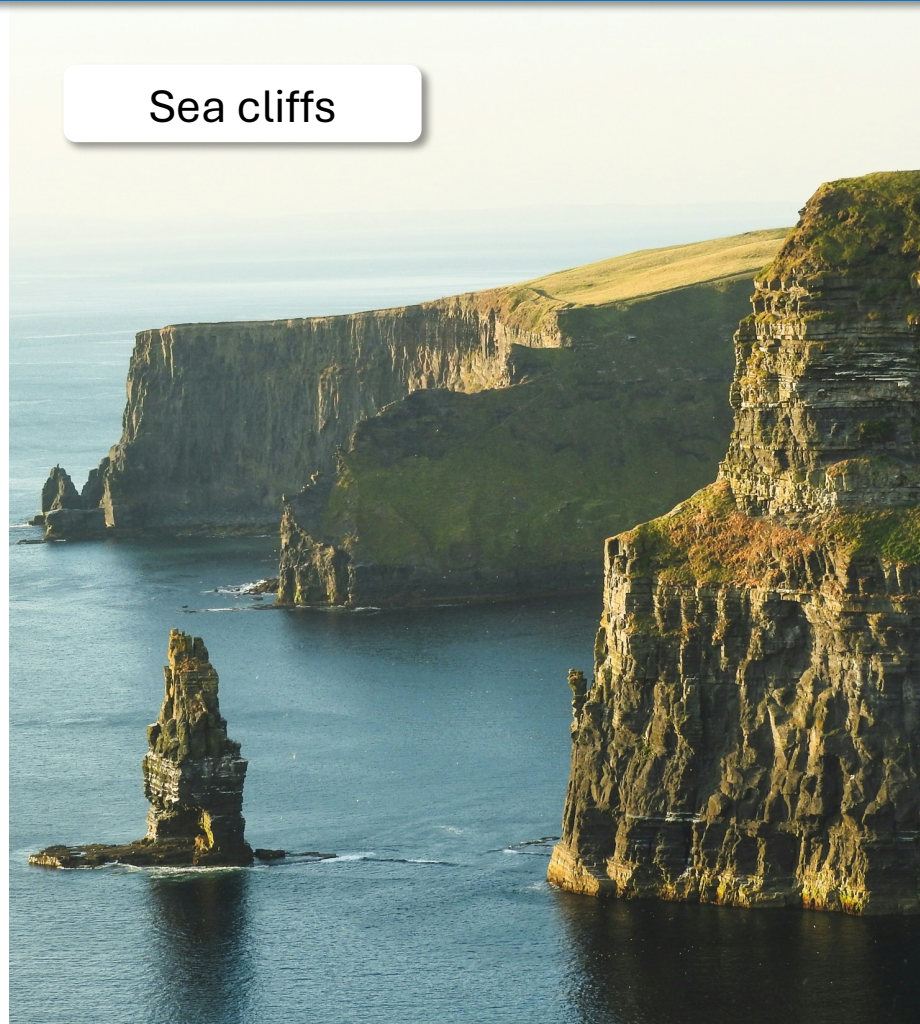
# Coastal Environment



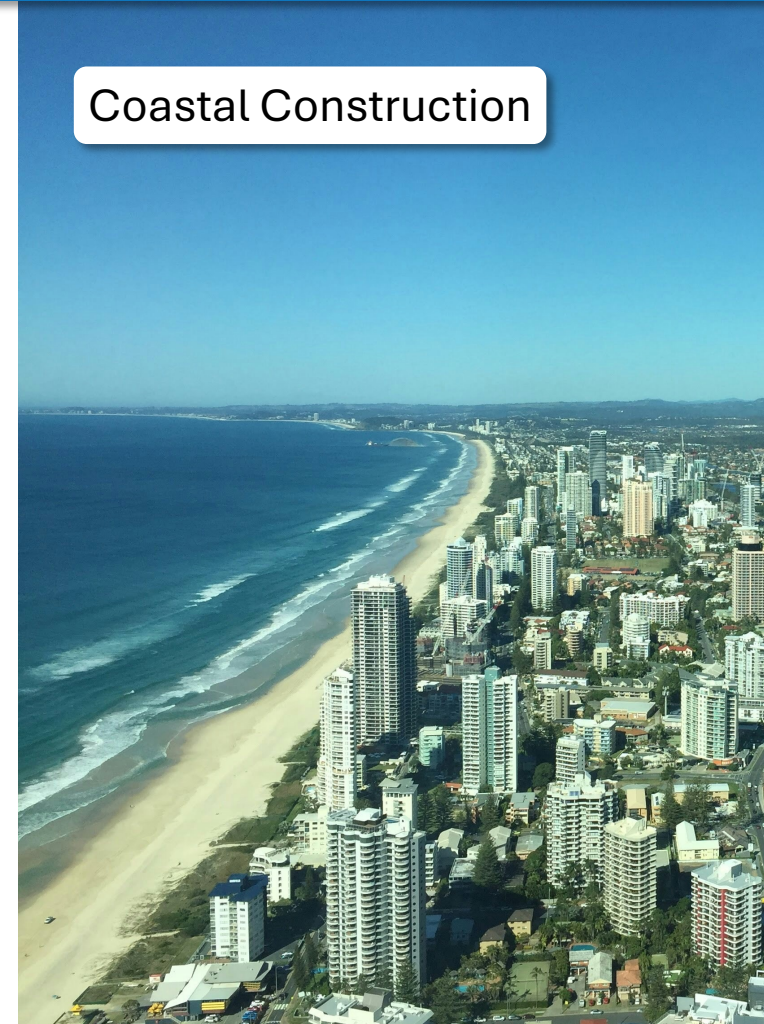
Sand dunes



Sea cliffs



Coastal Construction

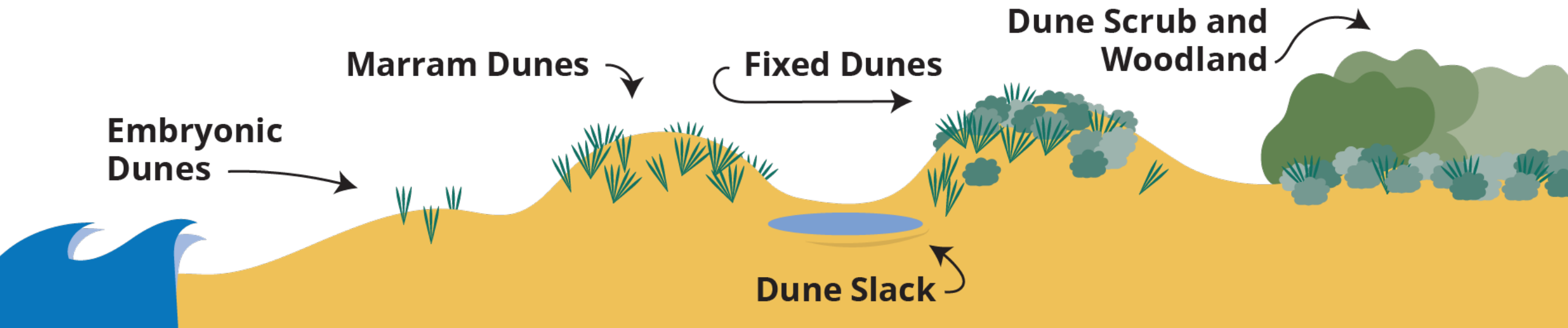


Go to [cleancoasts.org](https://cleancoasts.org) to learn more

Follow @CleanCoasts

# Ireland's dunes

- Developing for around 5,000 years from glacial deposits
- Shaped by the tide and wind to create dunes
- Dynamic system
- **Protect from storms and provide a unique habitat**



# Build Your Restoration Story

## **Set the scene**

- Ireland's magnificent coast
- Sand dunes

## **Our hero and the conflict**

## **The action**

## **What to do next?**





# Our hero & Conflict



Go to [cleancoasts.org](https://cleancoasts.org) to learn more

Follow @CleanCoasts

# Dune vegetation

## Plants are essential in dune habitats

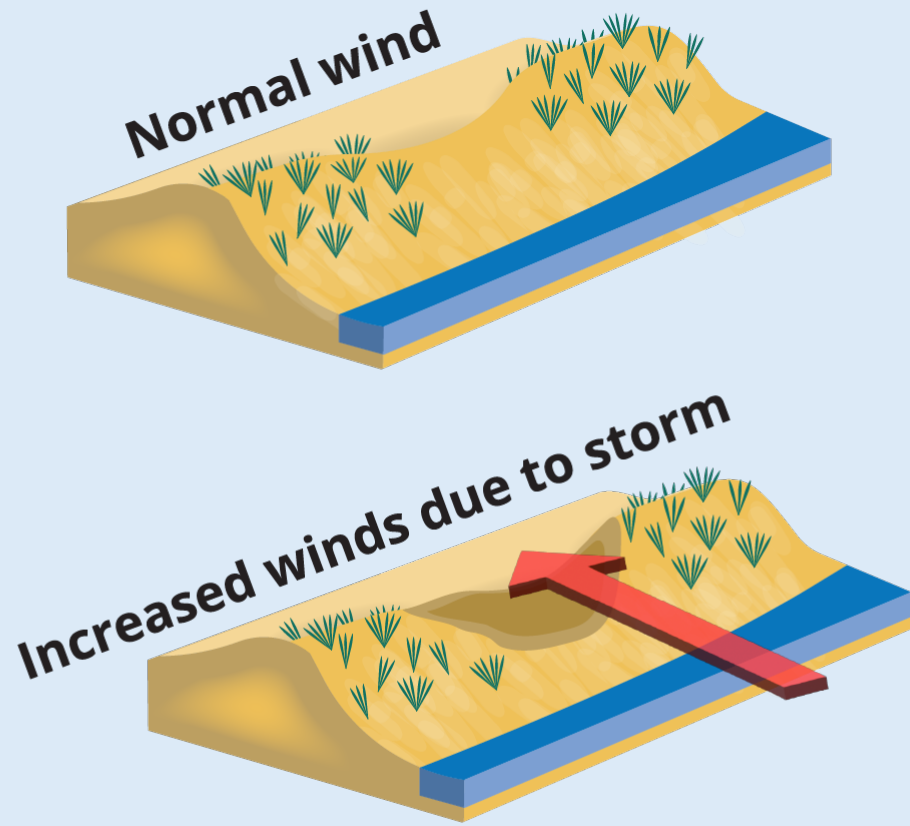
E.g. marram grass (*Ammophila arenaria*) and lyme grass (*Leymus arenarius*)

- Stabilise sand
- Provide a habitat and food for various wildlife
- Without our specialised dune plants, we would have no dunes



Lyme Grass  
*Leymus arenarius*

# Coastal erosion



## **Our dune habitats are under threat**


Accelerated erosion due to factors relating to climate change i.e., increased storm force and rising sea levels

AND, human impacts, such as excessive trampling or removing dune vegetation, can lead to increased coastal erosion and biodiversity loss

# Rate our habitats



**The overall current assessment  
for nature in Ireland is:**

1. Very good
2. Good
3. Moderate
4. Poor
5. Very poor 

# Build Your Restoration Story

## Set the scene

- Ireland's magnificent coast
- All around Ireland's coasts and waterways
- Sand dunes

## Our hero and the conflict

- Dunes plants - hero
- Coastal erosion & habitat health

## The action

## What to do next?



# The action

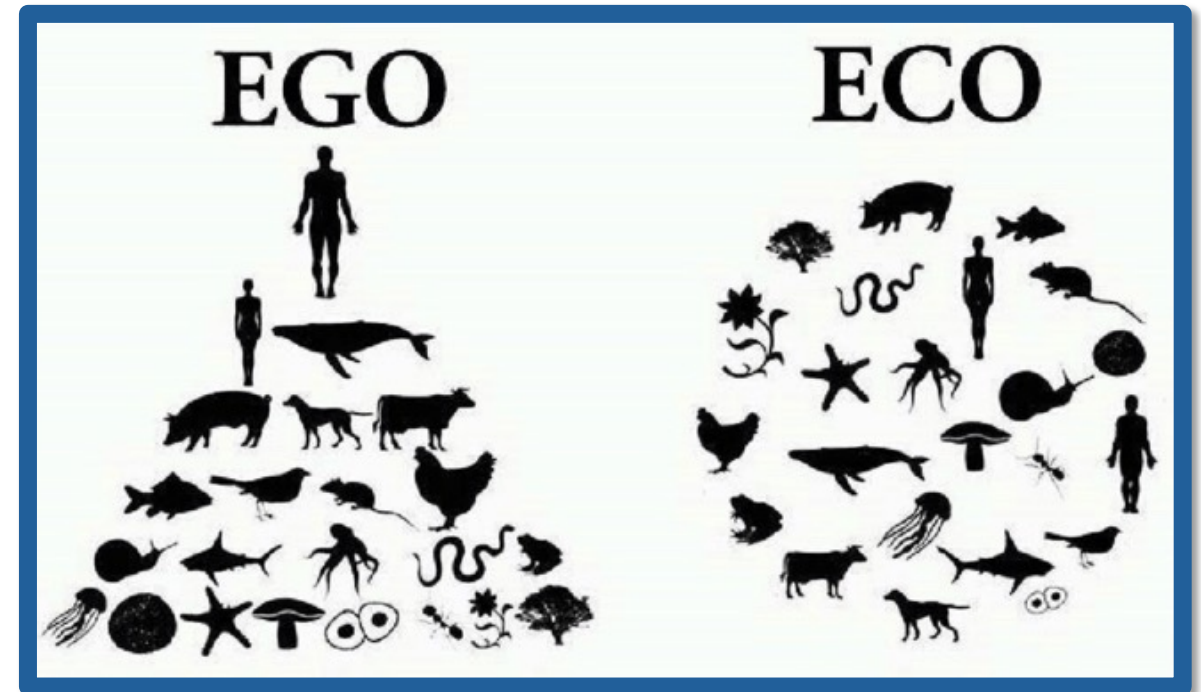
Go to [cleancoasts.org](https://cleancoasts.org) to learn more

Follow @CleanCoasts

# Restoring habitats

## Why protect and restore marine and coastal environments?

- Support life
- Food, resources and raw materials
- Regulates the climate
- Protects against storms
- Billions of people rely on them for their livelihood



Lehmann, Steffen. (2019). Reconnecting with nature: Developing urban spaces in the age of climate change. Emerald Open Research. 1. 2. 10.12688/emeraldopenres.12960.1.

## A Practical Guide to Marram Grass Planting

A Natural Coastal Defence

# Dune Restoration

## Overview

- Clean Coasts groups started in 2006
- Over 40 projects completed
- Planting guidelines and workshops
- Access management with fencing and signage advised
- Community education



# Extra video example

## Facebook Video



Maharees Conservation Association  
Fenit Coast Conservation  
Banna Coastcare



# Passive restoration

## RESTORE & PROTECT

DONABATE BEACH WRACK MANAGEMENT PILOT PROJECT



### What is Restore & Protect?

For the 2021 bathing season, Fingal County Council is teaming up with Clean Coasts to run a pilot project on Donabate beach. Throughout the summer months, Fingal County Council will be undertaking more environmentally friendly beach management practices on Donabate beach in which manual picking will be used instead of mechanical cleaning to remove litter and beach wrack will be left in situ.



### What is beach wrack?

Beach wrack is the scientific term for the seaweed, driftwood, and seagrasses that wash onto the beach. As the tides go in and out and waves pound the beach throughout the day beach wrack is moved around the shore.

### Wrack feeds our beach & protects us from Storms!

Beach wrack is the primary source of nutrients to the beach biodiversity and is the foundation of the beach food web.

It also acts as a natural barrier to storms and large waves. Beach wrack protects beaches by holding sand that would otherwise be taken away with the wind and helps create dunes

### How can you help Restore & Protect?

- 1 Please don't litter on Donabate beach or trample in the sand dunes
- 1 Make a positive impact and do a #2minutebeachclean
- 1 Join a community clean up with Clean Coasts
- 1 Explore your local biodiversity
- 1 Spread the word and help promote the Restore & Protect pilot project

MECHANICAL CLEANING REMOVES A DISPROPORTIONATE AMOUNT OF SEDIMENT AND BEACH WRACK WHEN COMPARED WITH HAND PICKING LITTERPICKING.



# Donabate Beach, Co. Dublin

# Build Your Restoration Story

## Set the scene

- Ireland's magnificent coast
- All around Ireland's coasts and waterways
- Sand dunes

## Our hero and the conflict

- Dunes plants - hero
- Coastal erosion & habitat health

## The action

- Dune restoration through marram grass planting

## What to do next?



# Call to Action

Go to [cleancoasts.org](https://cleancoasts.org) to learn more

Follow @CleanCoasts

# What to do next?

1. Learn about Ireland's amazing dune habitats
2. Avoid over-trampling in dune systems
3. Never remove dune plants
4. No driving in the dunes
5. No camping and never light fires in the dunes
6. Follow @CleanCoasts for more information
7. Join a local Clean Coasts group and help protect our coastal habitats



# Build Your Restoration Story

## **Set the scene**

- Ireland's magnificent coast
- All around Ireland's coasts and waterways
- Sand dunes

## **Our hero and the conflict**

- Dunes plants - hero
- Coastal erosion & habitat health

## **The action**

- Dune restoration through marram grass planting

## **What to do next?**

- Protect dunes



# Video Production

Go to [cleancoasts.org](https://cleancoasts.org) to learn more

Follow @CleanCoasts

# Development

- Initial concept and direction of your video project.
- How are you going to present your project?
  - Interview, presenter, text, acting, processes, animation, stop motion, images, stock footage, maps, software?
- Formalise your ideas with a script and storyboard



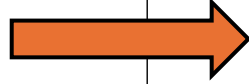


# Script example

Shot numbers



Full description of visuals



SCENE 1		
SHOT	VISUALS	AUDIO
1	WS of laboratory – Mary gathers her samples to screen right and walks towards the microscope on a bench to the left.	MUSIC Narration: In the laboratory we sort the river samples.
2	MS of Mary sitting at microscope. She places a sample onto the stage and views through the eye piece	Mary: So we review these samples to view the microscopic animals and take note of what we find
3	CU of sample	Narration: Examples of what we find include .....



Scene number

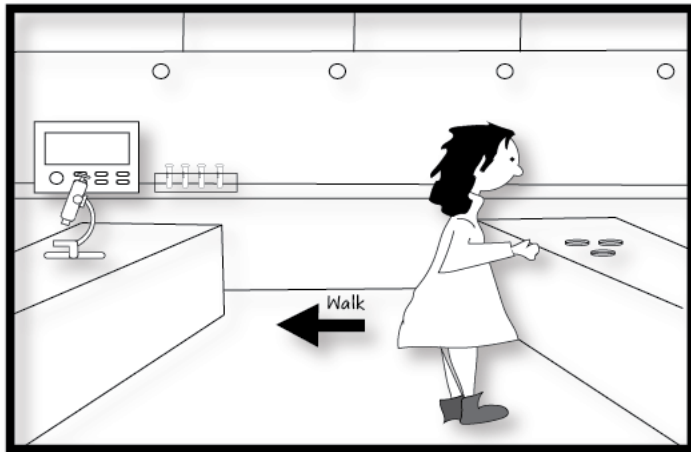
SCENE 2		
SHOT	VISUALS	AUDIO
1	WS of field and river – walks towards the river	Narration: We collect our samples from local rivers.
2	MS of Mary setting up her sampling equipment	We use a kick sampling technique to gather our water samples



Full description of audio

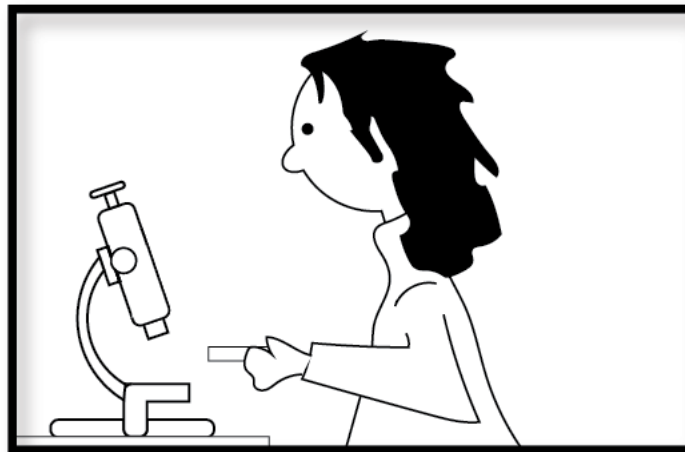
# My Storyboard

Scene 1 Shot 1



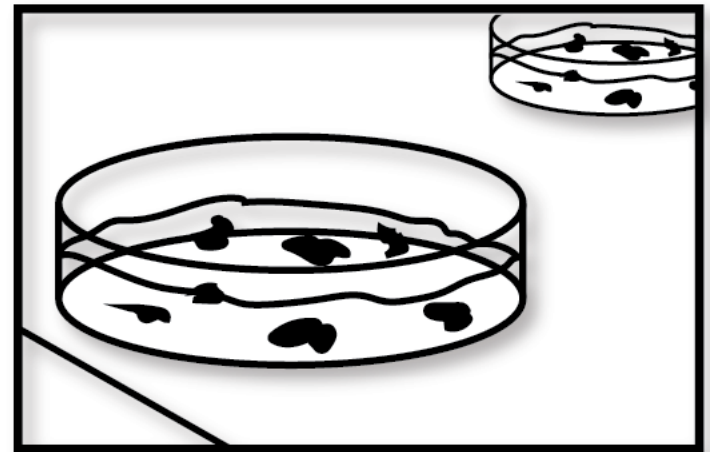
WS - Mary gathers samples in the UCC laboratory. She picks up the samples and walks towards her microscope.

Scene 1 Shot 2



MS - Mary sits down in front of her microscope and places a sample on the stage and looks through the eye piece.

Scene 1 Shot 3



CU - One of the other samples that Mary placed on the bench beside her.

# Editing software



Inshot

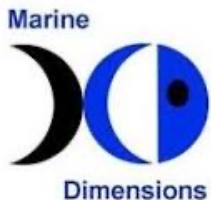


No  
Watermark

# Knowledge is key



An Taisce



**NPWS** An tSeirbhís Páirceanna Náisiúnta agus Fiadhúlra National Parks and Wildlife Service



Go to [cleancoasts.org](http://cleancoasts.org) to learn

Follow @CleanCoasts