


Output 7 – Education campaign to build capacity and embed knowledge in 2 Seas dune managers/decision makers

The education campaign has been held through various media, among which institutional websites, radio, newsletters, general educational videos and mainly the tools offered on the ENDURE website with accompanying Youtube videos with explanations by experts.

ENDURE website online tools




2 Seas Mers Zeeën
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European Regional Development Fund

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Impact of Buildings Tool

In the 2 Seas area, buildings such as cafés and toilet blocks are often present in dunes and on the beach. This infrastructure may impact the natural resilience of coastal dunes. Effects can be positive or negative and include:

- Flooding (negative). When a building is disturbed (by waves/currents), a breach in the dune system can occur
- Erosion (negative). Wind/wave action around building can have scouring effect and damage dunes
- Nourishment (positive). Buildings can cause sediment to build up, nourishing dunes and helping natural function
- Defence (positive). Buildings can shelter dunes from wind/waves during storm/surge events.

Before the start of this project, it was difficult for dune managers to understand the effects of buildings on dune systems. It was hard to manage dune systems for greatest resilience under climate change impacts without this knowledge.

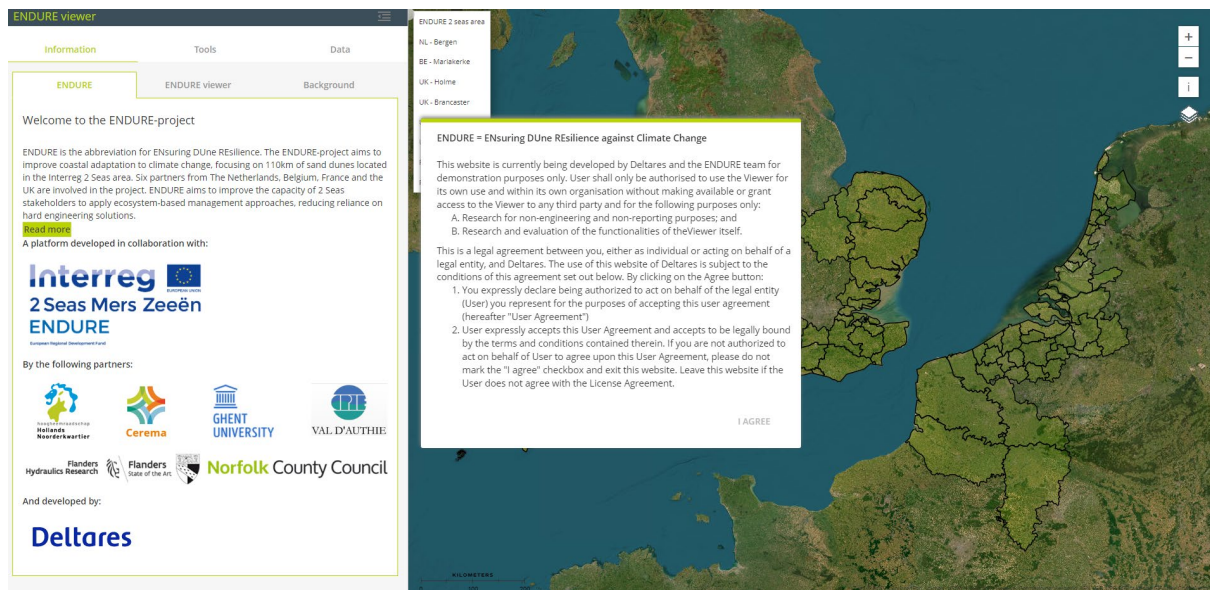
We have created and developed an innovative new tool to provide a way to easily assess building impact, making it easier for stakeholders to make the most of dune resilience.

With this tool the effect of buildings on dunes is visualised. Within the tool you can choose from different aspects: storm conditions, sea level rises and types of building to show the effect, but there is also the possibility to compare effects next to each other. The following can be displayed by the tool:

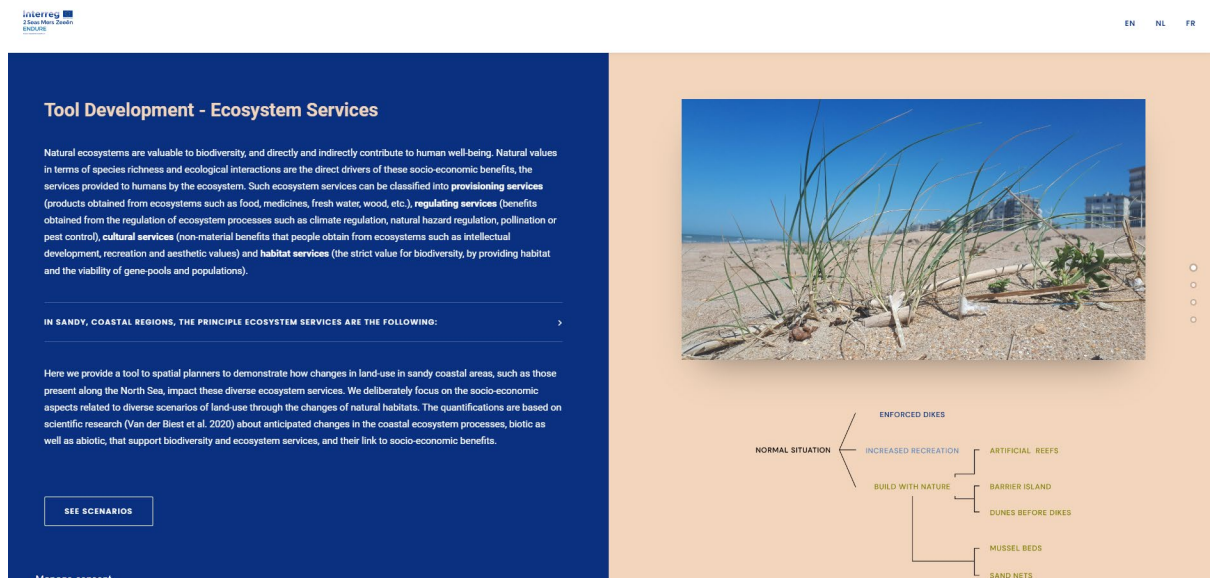
- How buildings influence the way in which waves and currents erode the dunes.
- How buildings can cause the erosion point to retreat landwards and reduce the resistance of the dunes. This could even cause the flood defence to fail during particular conditions.

<https://www.endure.eu.com/impact-of-buildings-tool/>

<https://coastissues.com/>



<https://www.vliz.be/projects/endure-viewer/>



Norfolk County Council institutional website



ENDURE project

Respect and protect your dunes

Most of the sand dunes in Norfolk are National Nature Reserves and part of a wider network of areas that are environmentally protected. They are home to a wide range of plants and animals and play a big role in protecting us from flooding by creating natural barriers to storms. But with more and more people visiting our coast, our dunes can get damaged.

Here's how you can respect and protect your dunes:

- Please keep dogs on a lead because they may scare wildlife or disturb the dunes' natural processes. You'll usually find signs to say where it's safe for dogs to be off their lead

How you can Respect and Protect your dunes



Youtube

<https://www.youtube.com/@endureproject9279/videos>

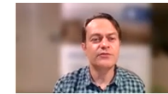
Belgian coastal dunes between climate change and human influence

In the studied timeframe (2000 – 2019), about 72% of all the coastal dune sections are or were influenced by human activities:

- 50% by with brushwood fences, extensively done in combination with beach nourishments.
- 11% with dune foot protection walls or dikes at De Panne and Nieuwpoort.
- 11% by affected by management works (e.g., beach scraping, beach houses, excavation works).

Natural occurrences happening along the Belgian coastal dunes:


- 2% of the dunes are transformed into dune blowouts (Koksijde to Oostduinkerke);
- 18% of the dunes are experiencing spontaneous vegetation growth untouched from human activities in front of the (old) foredunes developing as embryo foredunes
- the remaining 8% are affected by natural processes of sediment erosion and deposition.



Series of aerial photographs in time showing the development of some typical sea-fronting Belgian dunes.

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'Belgian coastal dunes climate change and human influence': ENDURE Closing Conference 21 Sept 2021



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0


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Extrait

...


ACCUEILVIDÉOSPLAYLISTSCOMMUNAUTÉCHAÎNESÀ PROPOS




ENDURE Closing Conference 21 Sept 2021; 'Influencing Visitor Behaviours' - Alex Larter...
14 vues · il y a 1 an




ENDURE Closing Conference 21 September 2021; 'Opening Address' - John Jones...
39 vues · il y a 1 an




ENDURE Closing Conference 21 September 2021; 'Introduction' - Alex Larter, Norfolk...
13 vues · il y a 1 an




Living with Dunes
24 vues · il y a 1 an



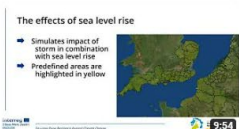
Living with Dunes
116 vues · il y a 1 an




Visualisation des effets des bâtiments sur les dunes.
62 vues · il y a 1 an




Dune health tool: marram associated processes
57 vues · il y a 1 an




ENDURE VIEWER - explaining the mapping tool
79 vues · il y a 1 an



The ENDURE tool to quantify ecosystem services from different coastal protection...
60 vues · il y a 1 an



ENDURE - Dries Bonte - Universiteit Gent on dunes as nature-based solutions
91 vues · il y a 2 ans




Your Norfolk Dunes - help us protect your dunes!
273 vues · il y a 3 ans

<https://www.youtube.com/watch?v=iC48o2plXdM>

YouTube FR

Rechercher



STICK TO THE PATHS

Make sure you stick to the official paths.

0:14 / 0:32

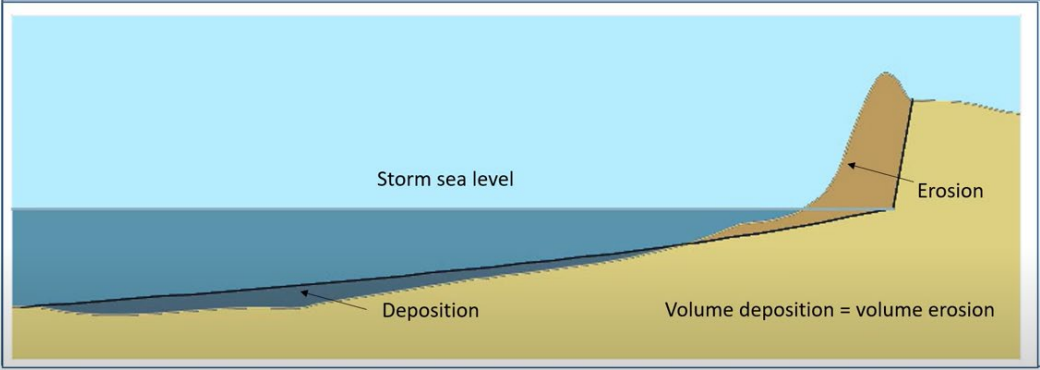
Your Norfolk Dunes - help us protect your dunes!

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Dune resilience



Storm sea level

Erosion

Deposition

Volume deposition = volume erosion

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Ensuring Dune Resilience Against Climate Change

2:35 / 9:39

Provincie Noord-Holland

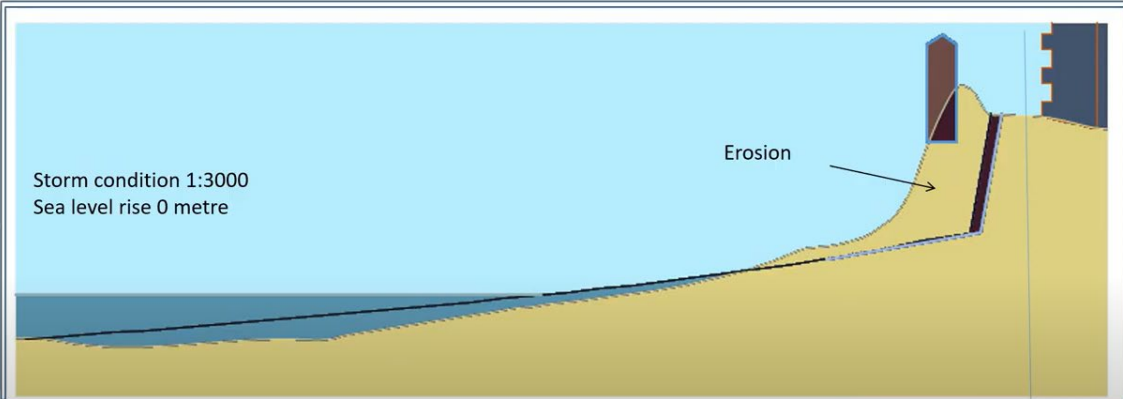
Visualisation des effets des bâtiments sur les dunes.

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Visualisation



Visualisation des effets des batiments sur les dunes.

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Newsletters

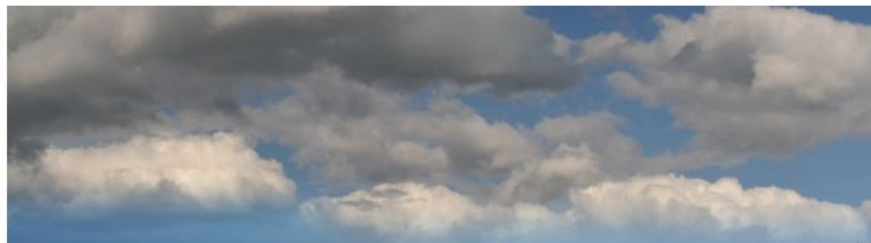
[View this email in your browser](#)



The Resilient Dune #1



*Endure is an Interreg 2 Seas project funded by ERDF**



well as digging up roots to look for nematodes. This will enable us to establish the health of the marram and therefore of the dunes.

We can't wait to share the results, but in the meantime you can find out more about the sampling by [following this link](#).



CPIE have also been very busy attending events and even held their first citizen science events around embryo dunes. Want to find out more? Head to our [website and get in touch!](#)

Read about the [Citizen Science here](#) - and follow us for more event news!



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