



NPWS

An tSeirbhís Páirceanna
Náisiúnta agus Fiadhúlra
National Parks and Wildlife Service



Nature and Coastal Change: requirements and solutions

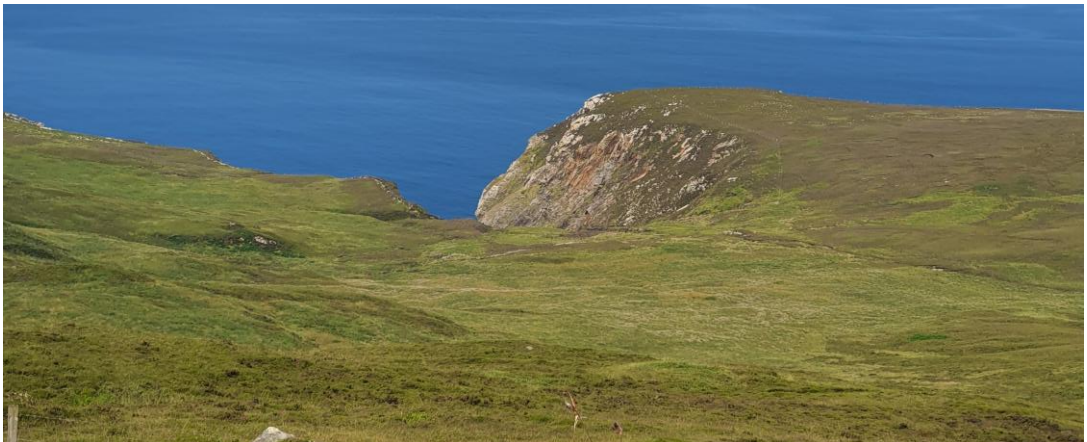
Aoife Delaney



- Sand dunes, shingle



- Saltmarsh

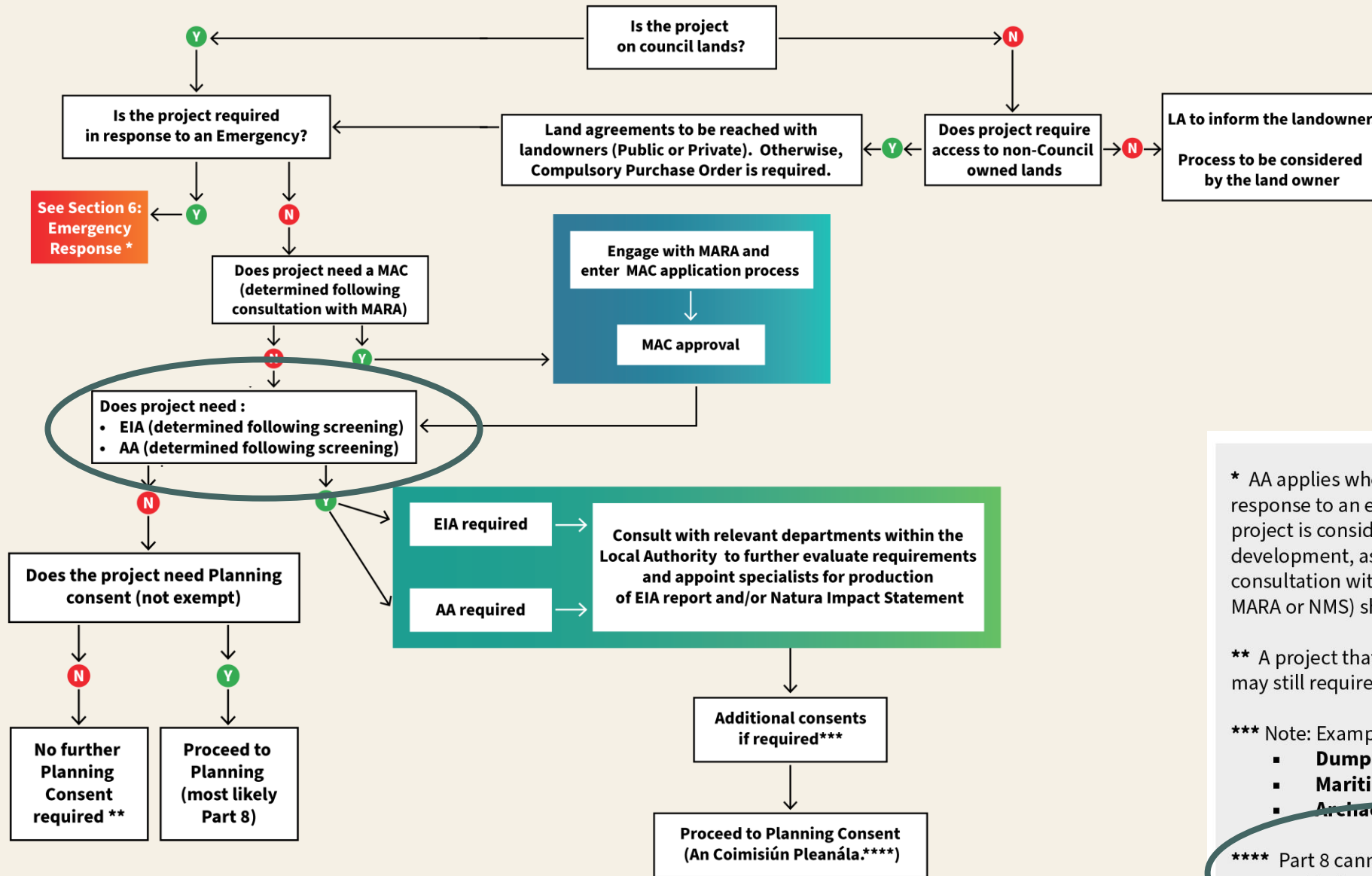


- Sea cliffs



- Coastal terrestrial habitats
- Habitats Directive protection
- Special Areas of Conservation

Consenting process Overview



* AA applies whether the project is in response to an emergency or not. When a project is considered emergency development, as a matter of best practice, consultation with relevant bodies (i.e., NPWS, MARA or NMS) should still be sought

** A project that is exempt from planning may still require a MAC

*** Note: Examples of Additional Consents

- **Dumping at Sea: EPA**
- **Maritime Usage Licence: MARA**
- **Archaeological Licences: NMS**

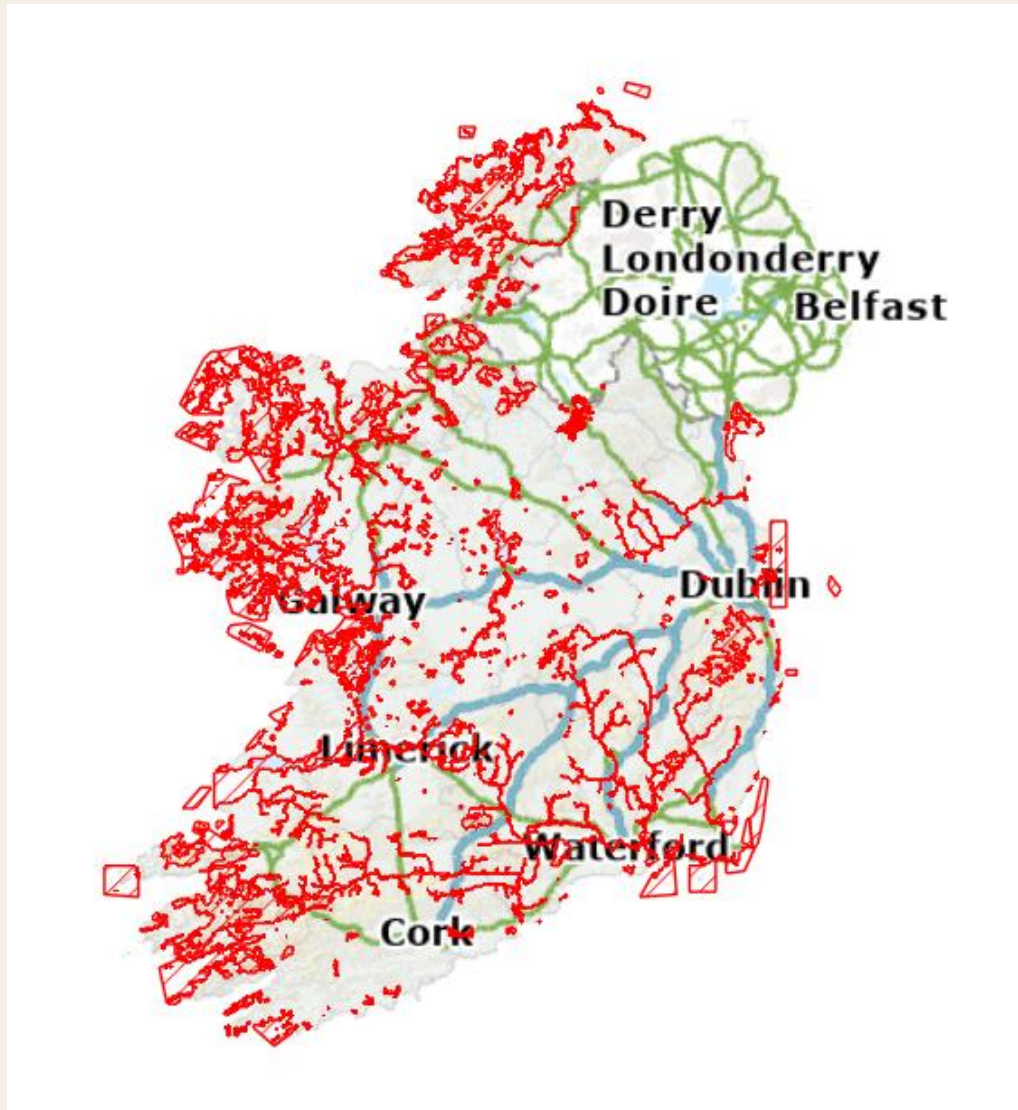
**** Part 8 cannot be used if a project is screened in for AA or EIA

Full text of Article 6(3) of the Habitats Directive:

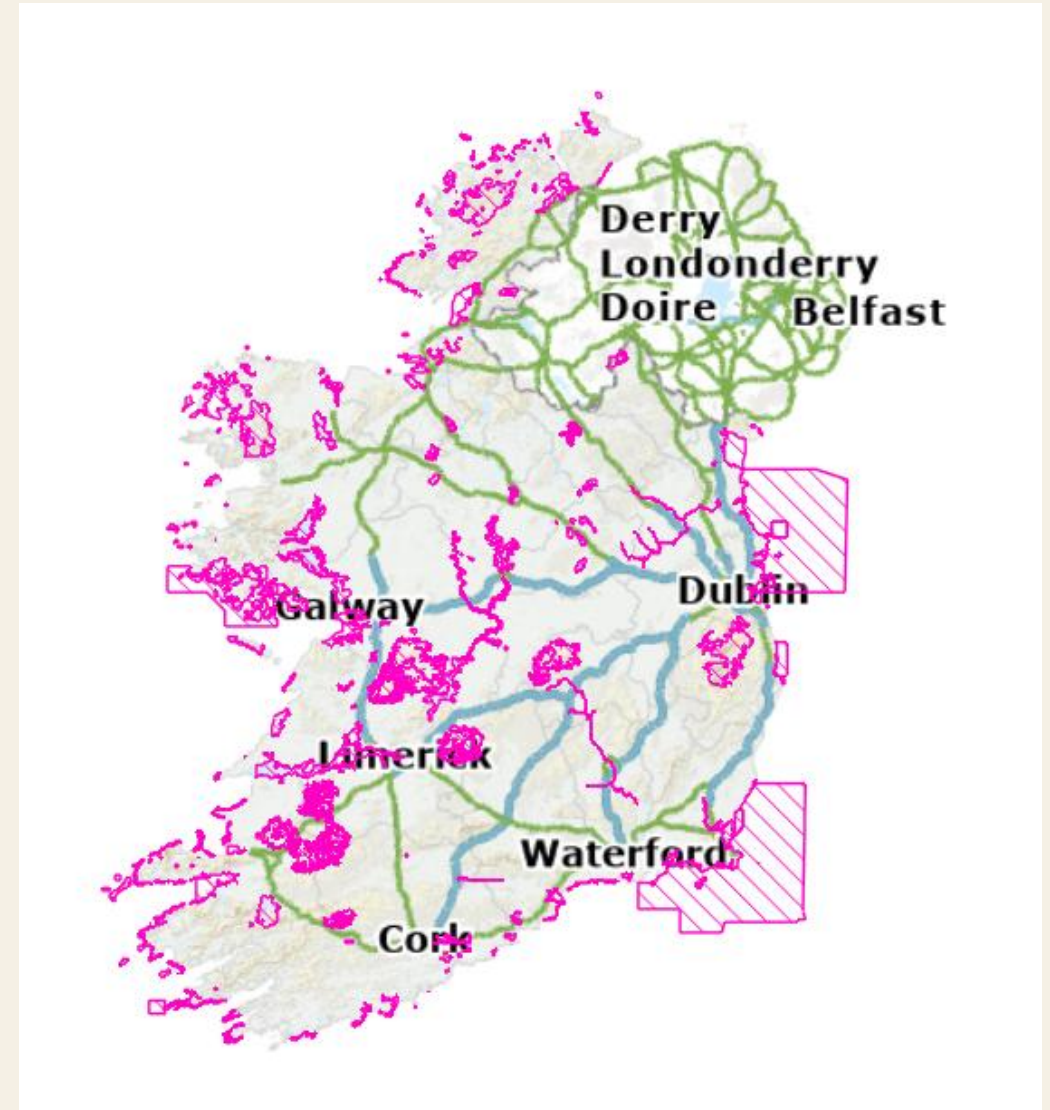
6(3) – Any plan or project not directly connected with or necessary to the management of the *site* but likely to have a significant effect thereon, either individually or in combination with other plans or projects, shall be subject to appropriate assessment of its implications for the site in view of the site's conservation objectives.

<https://www.npws.ie/protected-sites/guidance-appropriate-assessment-planning-authorities>

Special Areas of Conservation

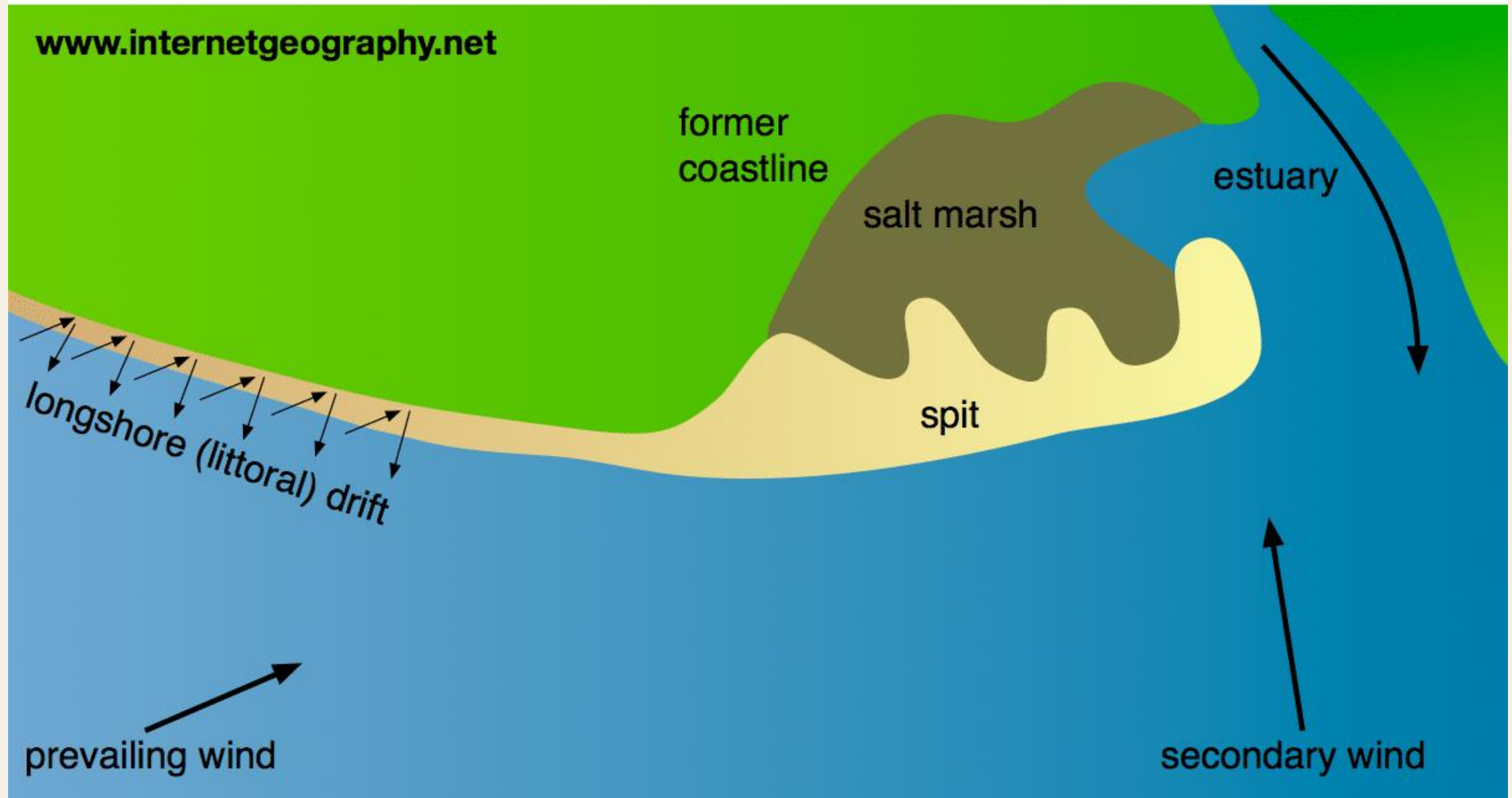


Special Protection Areas



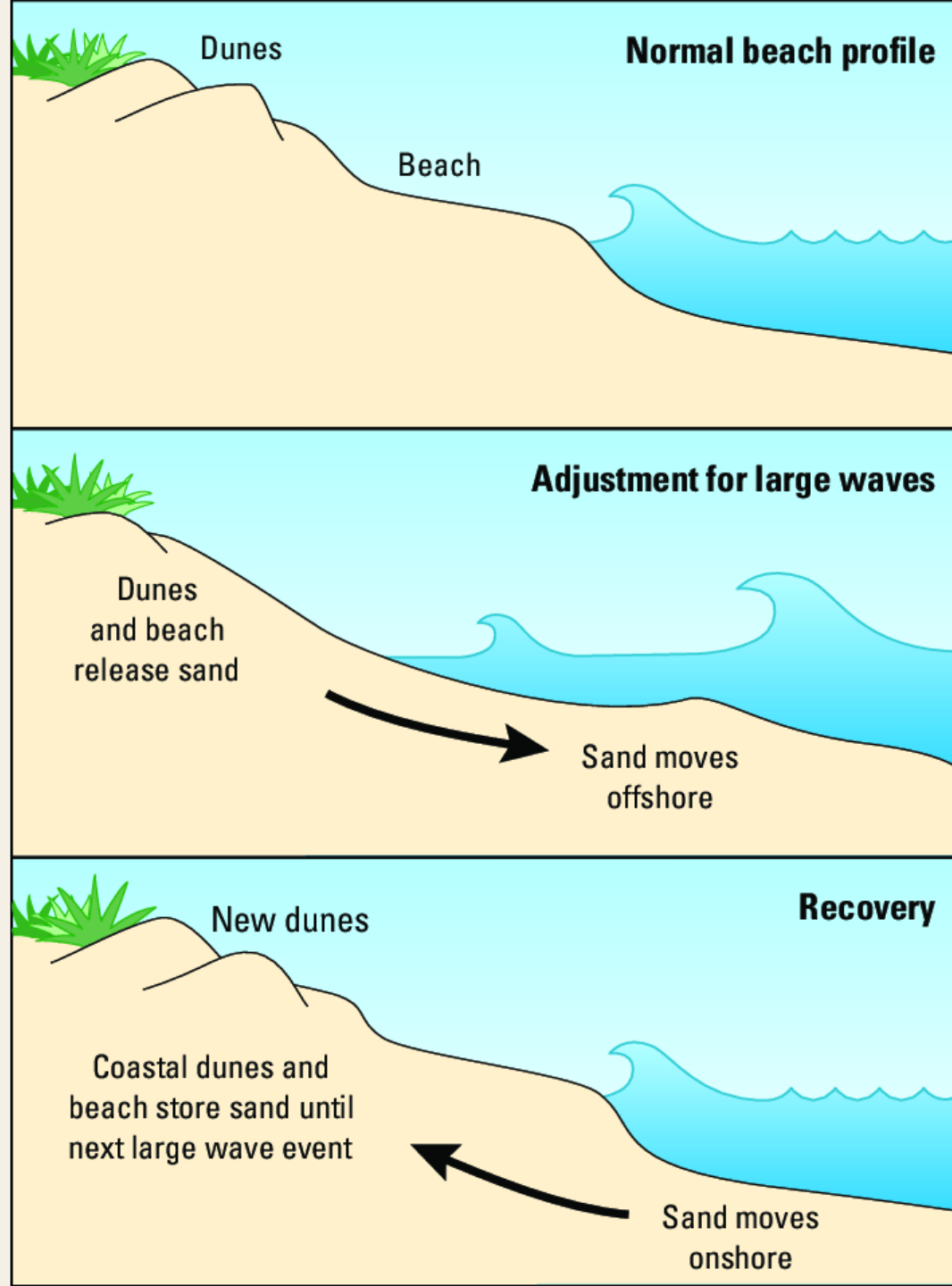
Consider works inside and outside the network

The formation of a spit





Seasonal patterns



https://www.researchgate.net/figure/Seasonal-beach-profile-adjustments-induced-by-seasonal-swell-variations-and-resulting_fig6_264552386



Murvagh, Co. Donegal

- Seasonal erosion concerns
- Local demand for hard protection works



- Tailte Eireann historic mapping
- 6" map (pre-1841)



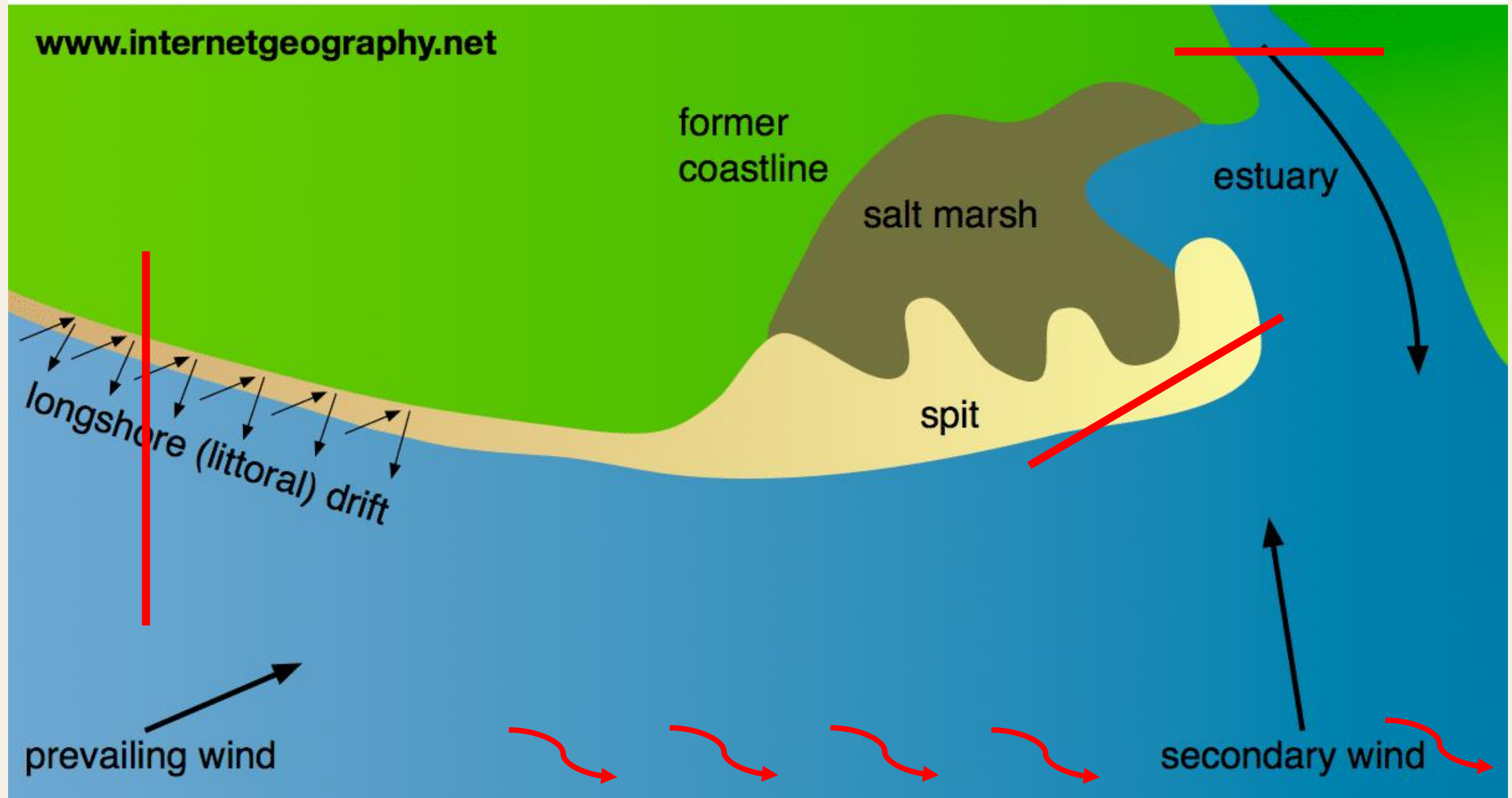
- Seasonal erosion
- long term stability

- Coastal mobility = natural resilience
- Mobility will increase with climate change
- Build mobility into your plans

<https://www.internetgeography.net/geotopics/landforms-of-coastal-deposition/>



The formation of a spit





Where is your
sediment coming
from?



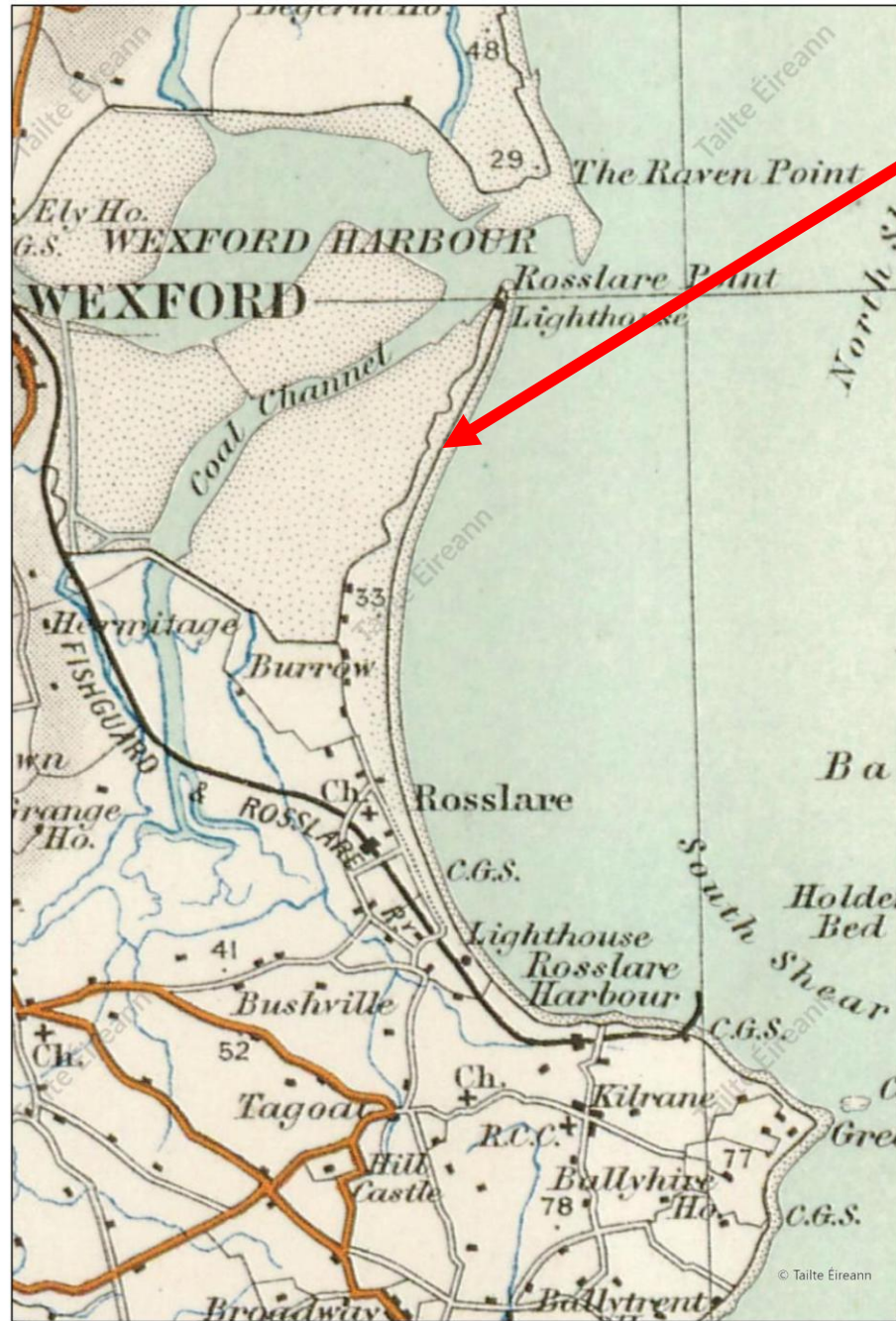
P
Ar Feadh 1km
For 1km

Prohibited
Crioich
END

Comhairle Contae Chiarraí
KERRY COUNTY COUNCIL
Bí cúramach sruthanna
láidre agus tonnta móra
Beware strong currents
and large waves

**No camper
vans
permitted**

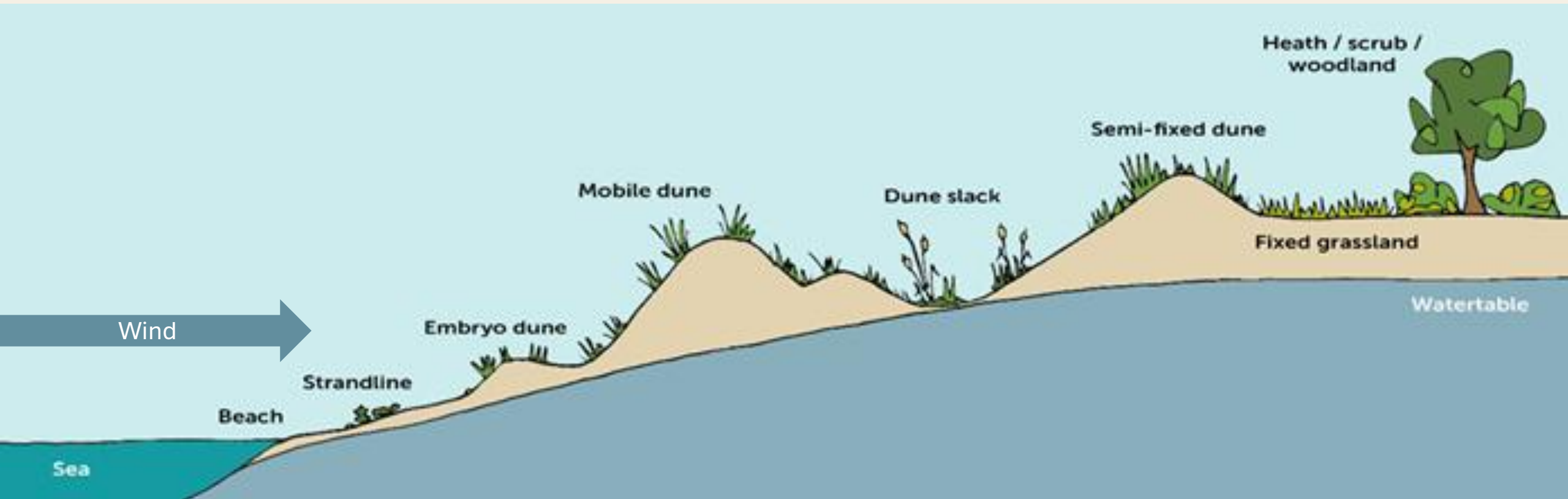




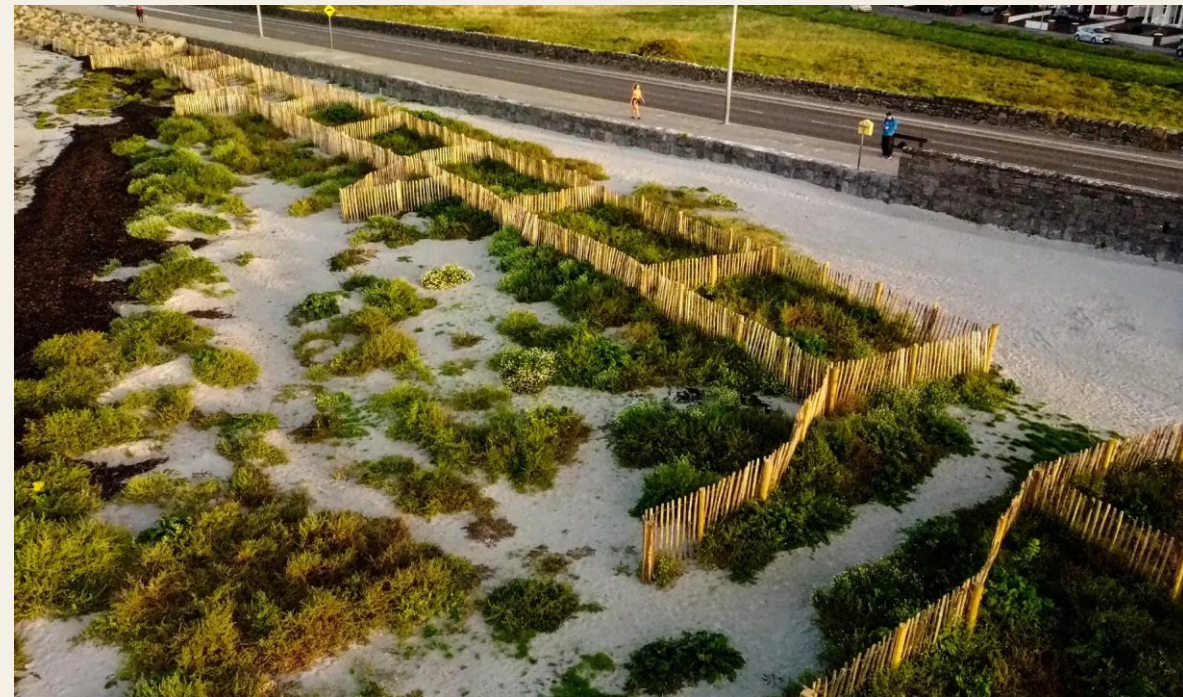
Dune stabilisation

Exposed

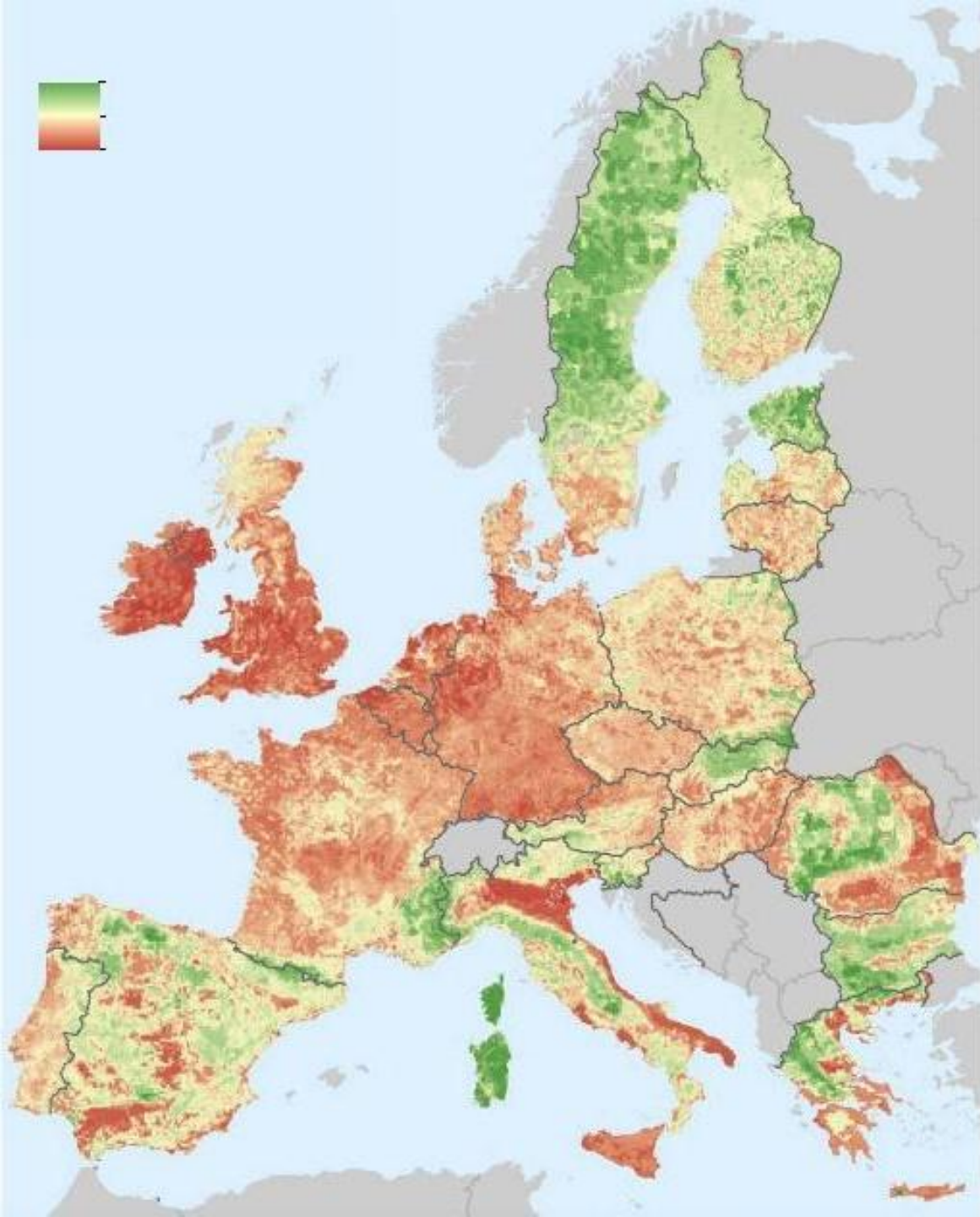
Sheltered



Soft restoration measures: Grattan Beach, Co. Galway



<https://nationalaquarium.ie/sandfencesphotostudy/>



Map of Ecological Integrity of European Union* and UK landscapes.



Map of Ecological Integrity of European Union* and UK landscapes.

Fernández, N. 2020. *Boosting ecological restoration for a wilder Europe*. German Centre for Integrative Biodiversity Research (iDiv) and Martin-Luther-Universität Halle-Wittenberg. <www.readkong.com/page/boosting-ecological-restoration-for-a-wilder-europe-7008054>,. - <<https://doi.org/10.978.39817938/57>>. Fernández, N. 2020. *Boosting ecological restoration for a wilder Europe*. German Centre for Integrative Biodiversity Research (iDiv) and Martin-Luther-Universität Halle-Wittenberg. <www.readkong.com/page/boosting-ecological-restoration-for-a-wilder-europe-7008054>,. - <<https://doi.org/10.978.39817938/57>>.



Thank you