

# C-CORE 2.1 Monitoring of landfall site recovery and coastal vegetation

## Monitoring of landfall site recovery and coastal vegetation

### Challenge

|                                                                        |                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Challenge ID</b>                                                    | C-CORE_OFF2.1                                                                                                                                                                                                                                                                   |
| <b>Title</b>                                                           | <b>Monitoring of landfall site recovery and coastal vegetation</b>                                                                                                                                                                                                              |
| <b>Challenge originator:</b>                                           | Enterprise Energy Ireland Ltd                                                                                                                                                                                                                                                   |
| <b>General Description</b>                                             |                                                                                                                                                                                                                                                                                 |
| <b>What data/products do you use?</b>                                  | Vegetation data currently collected through shoreline surveys, but satellite imagery has been used to help with broad vegetation classification                                                                                                                                 |
| <b>When do you use this kind of dataset?</b>                           | When offshore production transported to shore via pipeline, or operation requires construction of a terminal and has associated shipping with potential of oil spills in nearshore environment<br><br>Characterization and vulnerability of coastline and nearshore environment |
| <b>What are your actual limitations and do you have a work around?</b> | EO products have been used in some cases but are expensive. Using EO products for this would still require on-the-ground validation, but if area is extensive, assessment in this way would save time and could easily be repeated on a seasonal basis.                         |
| <b>Needs and expectations on EO data</b>                               | High resolution maps that will allow characterization/ classification of coastal vegetation and coastal substrate                                                                                                                                                               |
| <b>Challenge classification</b>                                        |                                                                                                                                                                                                                                                                                 |
| <b>Pre license</b>                                                     | 1                                                                                                                                                                                                                                                                               |
| <b>Exp.</b>                                                            | 1                                                                                                                                                                                                                                                                               |
| <b>Dev.</b>                                                            | 1                                                                                                                                                                                                                                                                               |
| <b>Prod.</b>                                                           | 1                                                                                                                                                                                                                                                                               |
| <b>Decom.</b>                                                          | 1                                                                                                                                                                                                                                                                               |
| <b>Geographic context/ restrictions</b>                                | - Ireland                                                                                                                                                                                                                                                                       |
| <b>Topographic classification / Offshore classification</b>            | Ocean                                                                                                                                                                                                                                                                           |
| <b>Activity impacted /concerned</b>                                    | Strategic decision enabler                                                                                                                                                                                                                                                      |
| <b>Technology Urgency</b>                                              | Mid-Term (5-10 years)                                                                                                                                                                                                                                                           |
| <b>Information requirements</b>                                        |                                                                                                                                                                                                                                                                                 |
| <b>Update frequency</b>                                                | One-off, perhaps every few years might be helpful                                                                                                                                                                                                                               |
| <b>Temporal resolution</b>                                             | Seasonal                                                                                                                                                                                                                                                                        |
| <b>Spatial resolution</b>                                              | 1m                                                                                                                                                                                                                                                                              |

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| <b>Data quality</b>             | High                                      |
| <b>Data Coverage and extent</b> | District area                             |
| <b>Example format</b>           | High resolution image                     |
| <b>Timeliness</b>               | Reference data - timeliness not important |
| <b>Existing standards</b>       |                                           |

# Relevant products

**Content by label**

There is no content with the specified labels