

BBS Hub Case Study Example

Project Title: [MARine INFrastructure EFFects \(MARINEFF\)](#)

Project Objectives: The Marineff project's main aim is to improve biodiversity and habitat provision on artificial coastal infrastructure by trialling concrete-based eco-engineering solutions.

Lead organisation and partners: Lead – ESITC Caen, France.

Other partners – University of Caen (FR), Ports Normandy Association (FR), National Museum of Natural History (FR), TPC (FR), Vinci Construction (FR), Bournemouth University (UK), University of Southampton (UK), University of Exeter (UK).

Is the project part of a development scheme? If yes, please specify.

No.

Project Drivers (e.g. is the project being used for mitigation or environmental net gain): To mitigate against habitat loss in the event of land reclamation and sea level rise, leading to the phenomenon referred to as 'coastal squeeze'.

Funding source(s): INTERREG, European Regional Development Fund.

Did you use any guidance documents to help develop the proposals? If yes, please specify.

N/a

Geographical Location:

1. Oyster prism modules, Solent wide
2. Artificial rockpools, Isle of Wight. Grid ref SZ 36507 89863

Consents and Licences: Permission was obtained from Isle of Wight council for the artificial rock pools. MMO licence for subtidal oyster prisms is progressing.

Coastal Environment where Project Located:

- Oyster prism modules – subtidal high energy
- Artificial rockpools – sheltered intertidal on open coast

Project Timescale:

- Spring 2020 is planned installation for artificial rockpools and oyster prisms.
- Monitoring surveys for artificial rockpools to continue quarterly thereafter for one year, then biannually until project close April 2022. Project planning began in summer 2018.

Successes and Lessons:

Successes: Obtaining permission for installing such a large number of artificial rockpools (n = 50) which is the largest installation of its kind to date in the UK (possibly Europe). The evidence from this will be key

in having similar designs fully accepted by developers and engineers and subsequently incorporated into future development.

Lessons: Interdisciplinary is key for working in the urban environment.

Monitoring:

See project timescale for timings, it will involve quadrats and taking measurements of rockpool environment such as salinity, temperature etc. Data will be held by Bournemouth University.

Oyster prisms will be monitored by dive surveys to assess colonisation, in particular for the native oyster *Ostrea edulis*. Data will be held by the University of Southampton.

Maintenance and Operational Guidance:

This will be developed at the end of the project.