

THE BRIEF FOR DATA MANAGEMENT AND DELIVERY SYSTEM

Scheme Title	National Network of Regional Coastal Monitoring Programmes
Employer's Address	New Forest District Council, Appletree Court, Beaulieu Rd Lyndhurst, SO43 7PA
Nominated Employer's Representative	Mr Steve Cook
Project Title	Provision and support for a management system for coastal data and metadata
Purpose of project	The data management system is to be used as a part of a long-term programme of coastal monitoring, to analyse coastal processes and provide data for operational and strategic shoreline management. The data management system will provide the primary means of data delivery to programme partners, and provide metadata for all data collected in connection with the programme.
Specification	Regional Coastal Monitoring Programmes Specification for Data management and delivery system v1.0
Delivery Schedule	01 April 2016 (or within 1 month of contract award, whichever is the later)
Tender Submission Date	See invitation to tender letter
Contract Completion Date	31 March 2021

1. Variations to Specification

There are no variations to the Specification.

2. Technical Requirement

A coastal data management and metadata system is required to enable management and delivery of the following data types collected for applications in shoreline management:

- Topographic survey data
- Bathymetry data
- Ortho-rectified aerial and FCIR photography
- Non-rectified and oblique imagery
- Photogrammetric profiles
- Lidar data
- Wave measurements
- Tide measurements
- Meteorological measurements
- Current measurements

- ARGUS cameras
- RINEX (GPS) data
- Terrestrial ecological mapping
- Seabed mapping

The basis for the programme design will be the existing Channel Coastal Observatory website (www.channelcoast.org, www.coastalmonitoring.org). The system will make provision for all features and functionality currently available on this site. This currently contains in excess of 250,000 metadata records and 2 million files, encompassing around 3.6TB of data. Enhancements and expansion of the system will be required.

All software and hardware to be used will be agreed in advance. The Consultant shall provide details of all software packages and equipment to be used as part of the proposal required as part of the tender.

The national network of regional coastal monitoring programmes is currently operational. Ongoing developments and programme management will take place until 31 March 2016.

3. Deliverables and materials to be supplied by the Consultant by the dates agreed in the programme

Digital data, report of programme design, webserver and associated hardware, backup data

4. Tender requirements

As part of the method statement the Consultant will provide a series of URL links, which the Employer will use to evaluate previous relevant work. Note that the URLs must be accessible to the Employer (for assessment purposes). The example URLs should encompass the following:

- General website design
- Open source code e-gif/e-gov applications
- Online GIS, including functionality and customisation
- Delivery of browsable online aerial photography or similar high resolution imagery
- Websites with coastal management applications
- Online metadata system to FGDC or ISO 19115 standards
- Details of population and validation methods within proposal
- Delivery of real time data and online graphing
- Delivery of data using GIS front end to select data
- Delivery of data using metadata

Details shall also be provided within the project proposal of metadatabase population and validation methods, together with a schedule of proposed hardware and software packages, and IT security.

A programme shall be provided with details of the time required from contract award to deliver an operational version of each programme element:

- Website design and implementation general
- Real-time web delivery of wave, tide and met data from remote sites
- Online metadata system to FGDC or ISO 19115 standards
- Online delivery of data using metadata
- Online delivery of data using GIS frontend to select data
- Online GIS browser populated with existing data
- Delivery of browsable online aerial photography
- Search facilities
- Migration of existing data

The basis for assessment of the initial system will be the time required to achieve delivery of a comparable populated and operational system to the legacy system currently in operation (www.channelcoast.org, www.coastalmonitoring.org).