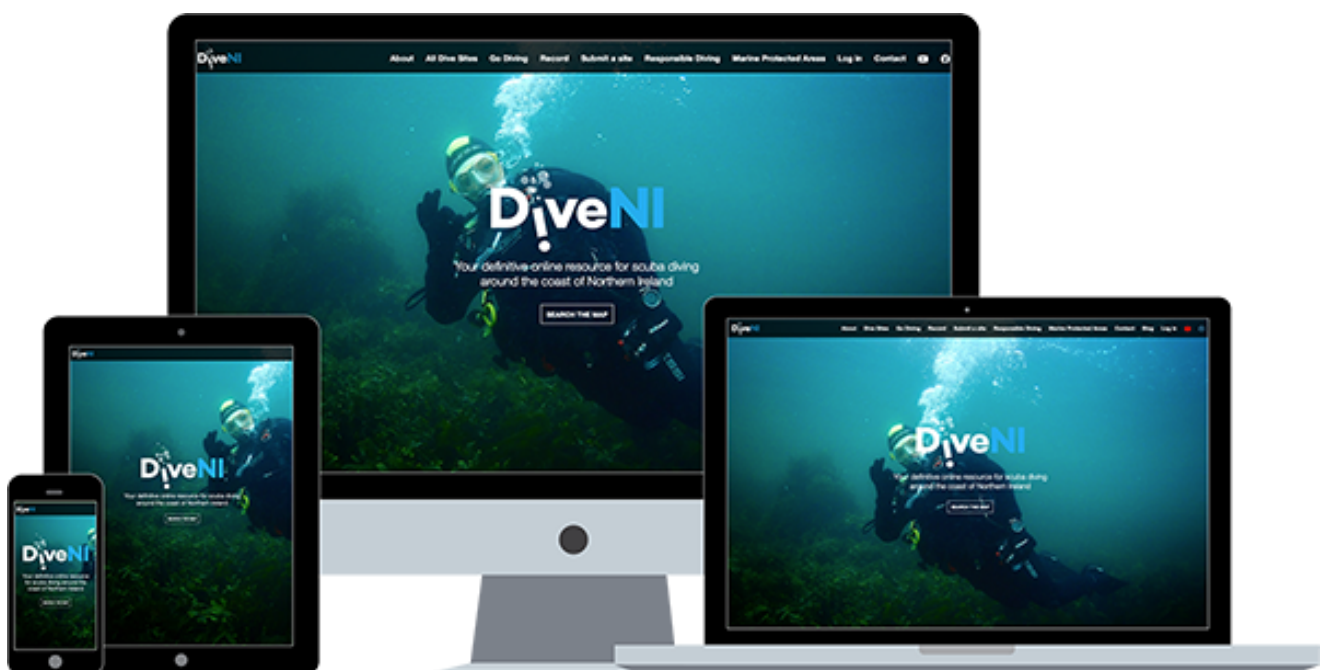


Case Study: DiveNI

**Design & development of a new
WordPress website showcasing
dive sites around NI**

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Case Study: DiveNI

Overview

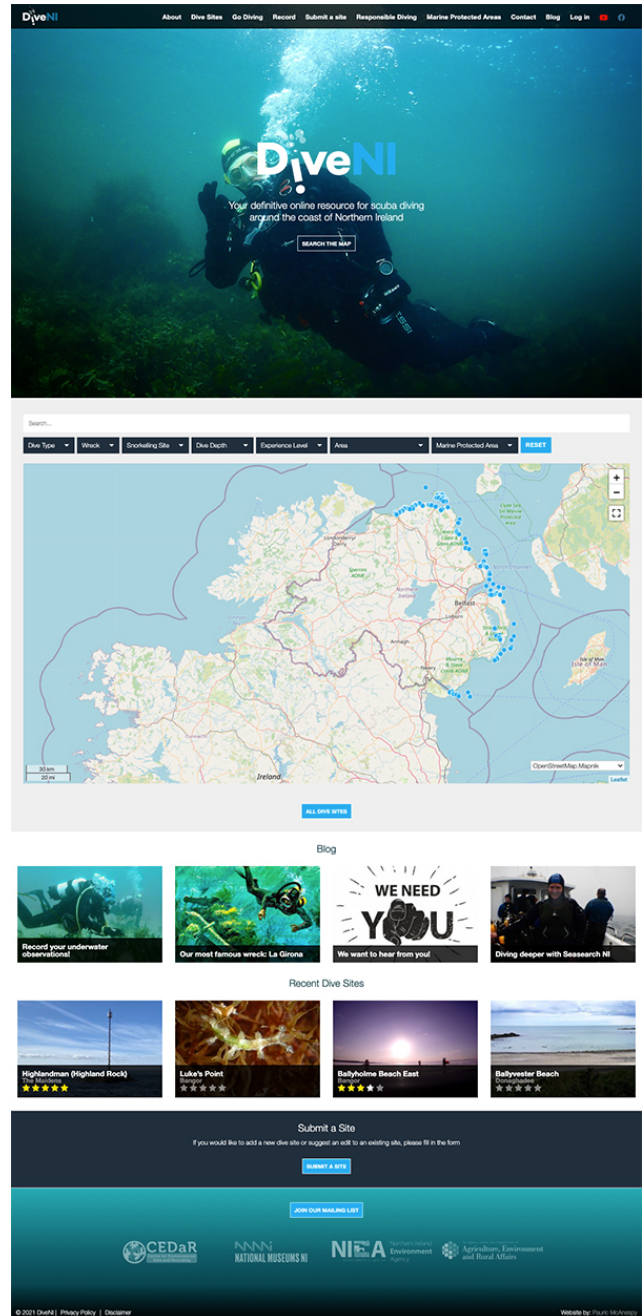
DiveNI is a new website showcasing dive sites around the coast of Northern Ireland, providing physical, environmental and historic information.

The website encourages input from the local & international divers, allowing them to add site information, images & contribute to the recording of marine species and their habitat.

WalkNI had recently launched and the client wanted something similar for DiveNI. However, the main difference is that with WalkNI all maps were supplied but with DiveNI, I had to create all maps.

Website Requirements

- logo design
- a modern web design that looks great on mobile
- a fully editable website built in WordPress
- Interactive maps of all dive sites, clubs and centres
- Interactive maps of of dive site location with WMTS layer
- a search and filter index of all dive sites
- A comment and rating system for users to share site information
- A members area allowing users to save dive sites
- Events section & blog
- Training in all aspects of website management



DiveNI home page

Case Study: DiveNI

Logo Design

I commissioned my associate Keith Connolly to design a logo with a simple brief that it had to be flexible to work with light and dark full colour backgrounds as well as photographic backgrounds.

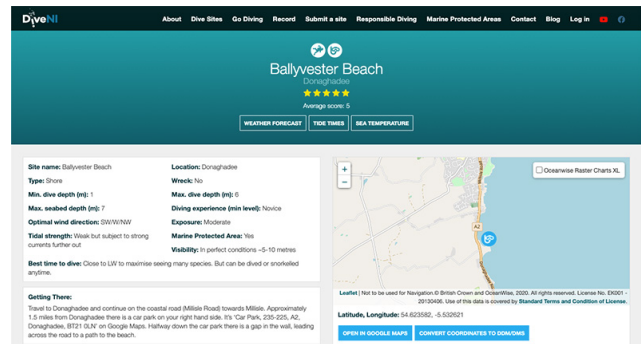


DiveNI logo variations by Keith Connolly

Web Design

The website had similar design limitations to WalkNI – some dive sites had a lot of information, photos and videos while others had less.

A 2 column layout was chosen to display dive site content switching to 1 column for mobile.



Dive site page

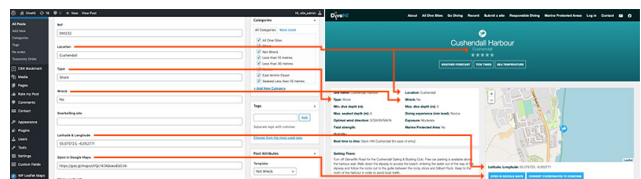
Web Development

A lightweight custom theme was developed and page templates designed.

Using the Advanced Custom Fields plugin I was able to create custom admin pages allowing control over how content appears on screen.

Other plugins used to add functionality.

- Leaflet Maps Pro
- Search and Filter
- Events Calendar
- Members section
- Contact Forms



Advanced Custom Fields

Case Study: DiveNI

Interactive Maps

Unlike WalkNI, where the maps were supplied by the client and I had to embed them, for DiveNI I had to create all the maps.

There were 2 types of interactive maps used:

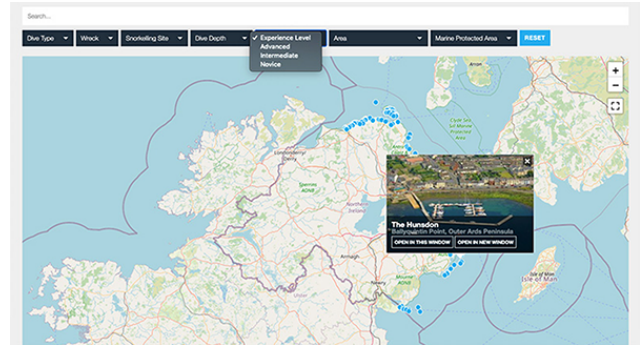
The main map

Interactive maps showing all dive sites, dive clubs and dive centres. These maps were created from a plugin that was originally designed for an estate agent website, however it had the necessary functionality and could be customised to suit our requirements.

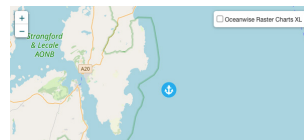
Dive site map

Individual maps for each dive site with an optional Raster Chart view. For these maps Leaflet.js was used. Leaflet is an open source javascript library which can be customised to include WMTS layers.

For the raster chart to display, the 3rd party provider had to white-list the website server IP address.



Main map with filters



Oceanwise layer off

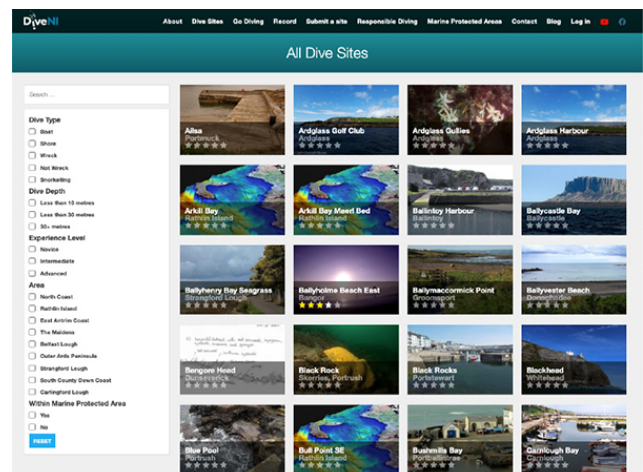


Oceanwise layer on

Search & Filter

A search & filter plugin was customised to match the categories available on the home page map.

JavaScript lazyload was used to only load images that appear in the browser window.



Search and Filter page

Case Study: DiveNI

Events Section & Blog

An events sectioned was developed to promote upcoming dive events. Admin users could add, delete or schedule upcoming events.

A blog section was developed to publish news and other articles of interest to the diving community.

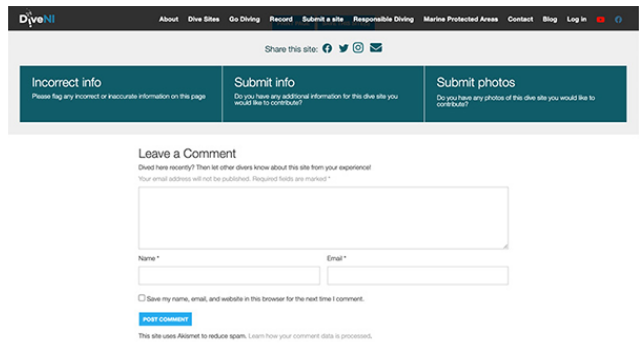


Events section

User Generated Content

Each dive site page has a comment section, where divers are encouraged to supply additional information to the website.

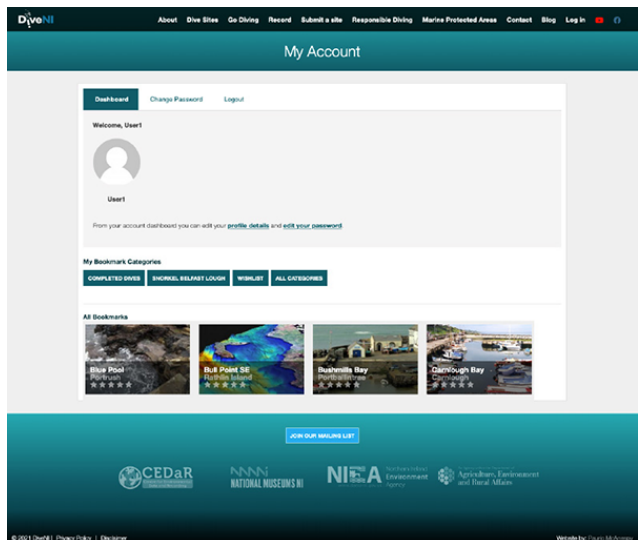
Additionally, there is a more detailed contact form where users can add dive site info or correct current inaccurate content.



Comment form

Members Area

A members area was developed allowing users to create their own page. Here they could edit their profile details, create categories and bookmark dive sites for future reference.



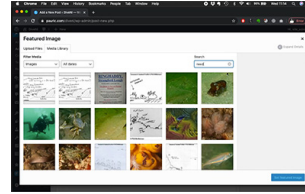
Members page

Case Study: DiveNI

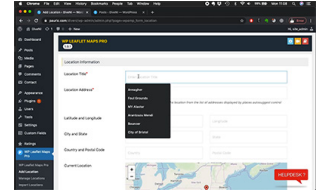
Training

Video screencasts were created to train DiveNI admin on how to update and edit all content on the website including how to:

- Add a new dive site
- Add a new map marker
- Add a new event
- Add new blog post
- Edit existing pages on website



Still from Add Dive Site video



Still from Add Map Marker video

Result

The website was launched in July 2020 and feedback has been positive from funders, partners and users. Web users have grown to over 7,600 per year.

The diving community are continuing to contribute new content via the comments section and contact forms.