

## **Aderyn - Biodiversity Information and Reporting Database of the Local Environmental Records Centres (LERC) Wales**

[Aderyn](#) (BIRD in Welsh) was developed by the Biodiversity Information Service for Powys and Brecon Beacons National Park (BIS) to fulfil its own reporting needs for planning and partner reporting. However as it reports from the 'merged database' of the 4 Welsh LERCs it is available to the other 3 LERCs who have contributed financially or in-kind to development costs. It provides public access to a summary of wildlife sightings and species records collated by the four LERCs, covering the whole of Wales. Partners, recorders and planners can be licensed to access high resolution, detailed records to assist decision making and conservation.

**Public search tool** allows users to search for a summary list of species records as held by LERC Wales, in any 1 km square. Alternatively users can produce distribution maps for a species or an entire taxon group and display a 10km distribution map of that species or group, based on data held by LERC Wales. You can then select a 10km square and see a 1km distribution map (excluding sensitive species). This tool aims to promote recording, as the public can readily see what has or has not been recorded so they can contribute records to update the database.

**Planning reporting** allows the LERC to run the weekly planning lists of multiple applications from a csv file with minimum input. The user can then view species, habitat and site information with Red Alerts highlighted, on-line in the Aderyn viewer or in eMapper where full or public reports can be printed. It also includes a facility to search for historical applications and view the original data.

**Partner Access** is the heart of Aderyn and allows licenced users access to full resolution data. They can search for [species](#), sites and [habitat data](#) around a point or polyline or within a polygon. The results can be further filtered by date, species status, species category, taxon group etc. The user can then view the results in Aderyn or Cofnod's [eMapper](#), an on-line GIS format where layers for sites and species can be switched on and off and viewed over OS mapping. Records can be downloaded in a range of formats including csv and shape files, plus full or public reports can be produced which exclude any sensitive records. This tool is particularly important for national partners such as NRW and the Trunk Road Agencies to give an all-Wales perspective.

**The Commercial Reporting Tool** is designed to allow commercial users to put in their search enquiry on-line choosing from a number of costed packages, dependent on area of search and number of records. A quotation is then returned to the customer and once costs are agreed the customer receives [the results](#) to view in Aderyn and eMapper. This very quick service with an improved final product, not only gives the customer an interactive view of all the data on-line but also allows download of the results in varying formats including a pdf report, csv file or shape file.

### **Advantages of Aderyn**

- The public site is Bilingual (Welsh/English) and this will be extended to all modules when development is completed.
- Provides controlled levels of access to the public, planners, partners, recorders and commercial customers.
- Provides the facility for LERC Wales to provide standard reporting to all customers.
- Automated reporting frees up staff time to concentrate on data management and supporting the recording community and allows any member of staff in LERC to run enquiries.

- The on-line commercial service will provides a greatly improved customer service, by not only being virtually instant but providing improved viewing of the data through eMapper.
- Running reports off the merged database allows easy cross-border enquiries and ensures full access to data that may be held for that area by a neighbouring Welsh LERC. It has removed the need for time consuming data exchange between Welsh LERCs.
- The partner access tool provides easy access to current data held by LERC Wales allowing them to run their own instant enquiries and freeing up LERC staff time.
- Aderyn is built on 'responsive' technology so it can be easily viewed on laptops, tablets and mobile phones.
- Built on a 'future-proofed' PHP framework which should be easy to maintain by current and future skilled staff.

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Habitat records are mapped below. Hexagonal icons indicate 1km or lower resolution records. The number of different species at a given grid reference is shown on the icon. The colour of the icon indicates whether Priority Species (red icon), Species of Conservation Concern (orange) or Locally Important Species (yellow) are present. Hover over an icon to see a list of species. Within the list, a colour dot indicates the importance of the species. Distance indicated is the distance between the record centroid and the search area centroid.

