Project ID: 727393

Work Package 12 Deliverable Report: June 2018

Paleblu Deliverable 12.3. Establish Project websites for PALE-Blu (UGLA, ERGO, IZSAM) – due month 12 (May 18)

Websites with ERGO Input

a) MILESTONE 1: Project Website www.paleblu.eu. Due month 6

Following permission to proceed with website construction received from coordination in February 2018, ERGO acquired a domain and constructed a Pale-BLU project website at http://www.paleblu.eu. (See screenshot below)



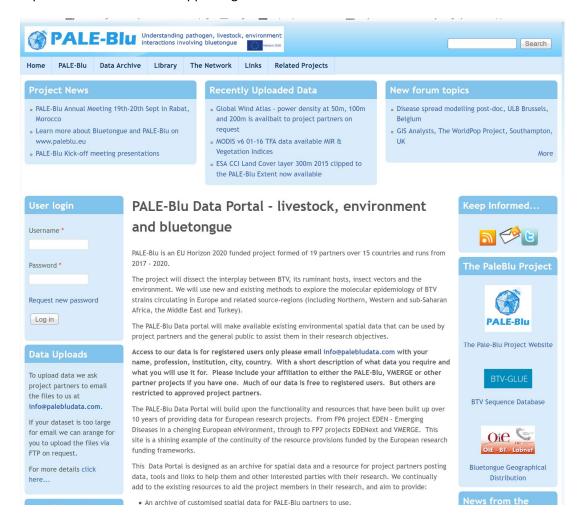
At this relatively early stage in the project, the site contains basic details about the project (**About us**), an overview of bluetongue (**What is Bluetongue**), provides a platform for downloading project documents and publications (**Publications**), and a password protected area reached by a partner login (**Partner login**) page which provides access to material restricted to project members only. This currently contains the proposal and material related to the kick off meeting held in September 2017, but will be expanded to hold project reports, and other information as required by coordination and project partners.

User analytics data are being monitored using google Analytics and will be supplied after 12 months of operation.

Coordination has been requested to inform all project partners about the site.

b) Spatial data website. www.palebludata.com

The spatial data website in fully functional providing archived spatial data, an upload facility, password protected access, and a wide range of ancillary pages (see below). A fuller description is provided in documents supporting Deliverables 3.2 and 12.5



Websites with UGLA input

A website for accessing genetic sequence data for BTV, along with associated metadata, has been created by UGLA at http://btv.glue.cvr.ac.uk. To create the site, several thousand BTV sequences were collated from the literature and public databases. Sequences can be filtered by virus segment or serotype and can be downloaded either individually or as a sequence alignment. The site has been cross-linked to the PALE-Blu data portal and main project website.

BTV-GLUE

Bluetongue virus (BTV) is a vector-borne virus within the Orbivirus genus of the Reoviridae family. It causes the bluetongue disease in various common domestic ruminant and wild animal species; an outbreak starting in 2006 threatened livestock industries in northern Europe.

In this database, a collaboration between the MRC-University of Glasgow Centre for Virus Research and the The Pirbright Institute, we have collated several thousand BTV sequences from the literature and added complementary context data alongside each sequence.

The virus has a segmented genome and reassortment of the 10 segments has been observed. The segments encoding the capsid proteins have a complex evolutionary history; more than 20 different serotypes are in circulation, which complicates ongoing surveillance and vaccine programmes. Each of BTV's 10 segments is allocated a separate phylogenetic data structure within database. Each sequence is held within a multiple sequence alignment specific to the segment and clade. Reference sequences with genome feature annotations are defined for each segment clade. This will help accurately capture the ongoing evolution and epidemiology of the virus, whilst also allowing study of reassortment and other phenomena.

BTV-GLUE is based on the GLUE software framework. GLUE and BTV-GLUE are developed and maintained by the MRC-University of Glasgow Centre for

Please note this is beta software, still undergoing development and testing before its official release.







Websites with ISZAM input

IZSAM has developed a web GIS application capable of displaying the BTV distribution in the world since 1943. The application, available at http://mapserver.izs.it/gis_oiemaps/, feeds on several sources of BTV occurrences from the literature and official databases (e.g. OIE, ADNS, National Information Systems). The site



has been cross-linked to the PALE-Blu data portal and main project website.

Further information might be found in recent publication by Conte A. et al. 2016. OIEBTLABNET: the web-based network of the OIE Bluetongue Reference Laboratories. Veterinaria Italiana 2016, 52 (3-4), 187-193. doi: 10.12834/Vetlt.583.2799.1

(http://www.izs.it/vet_italiana/2016/52_3/VetIt_583_2799_1.pdf)

