

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)



The screenshot shows the PALE-Blu project website. At the top is the PALE-Blu logo and the text 'Understanding pathogen, livestock, environment interactions involving bluetongue'. Below the logo is a navigation bar with links: HOME, ABOUT US, WHAT IS BLUETONGUE?, PUBLICATIONS, and PROJECT DOCUMENTS. The main content area is titled 'The PALE-Blu Project' and contains a welcome message, a map of Europe highlighting partner countries, and a description of the project. The right sidebar contains a list of 'PALE-Blu Events' (Annual meeting Rabbat, Morocco, 19th - 20th September 2018), 'PALE-Blu Resources' (BTV-GLUE, BTV Sequence Database, OIE - BT - Labnet, Bluetongue Geographical Distribution), and 'PALE-Blu Data' (PALE-Blu Data Archive, Social Links).

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 is 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

PALE-Blu Understanding pathogen, livestock, environment interactions involving bluetongue

Home PALE-Blu Data Archive Library The Network Links Related Projects

Project News

- PALE-Blu Annual Meeting 19th-20th Sept in Rabat, Morocco
- Learn more about Bluetongue and PALE-Blu on www.paleblu.eu
- PALE-Blu Kick-off meeting presentations

Recently Uploaded Data

- Global Wind Atlas - power density at 50m, 100m and 200m is available to project partners on request
- MODIS v6 01-16 TFA data available MIR & Vegetation Indices
- ESA CCI Land Cover layer 300m 2015 clipped to the PALE-Blu Extent now available

New forum topics

- Disease spread modelling post-doc, ULB Brussels, Belgium
- GIS Analysts, The WorldPop Project, Southampton, UK

More

User login

Username *

Password *

Request new password

Log in

Data Uploads

To upload data we ask project partners to email the files to us at info@palebludata.com.

If your dataset is too large for email we can arrange for you to upload the files via FTP on request.

For more details click [here...](#)

PALE-Blu Data Portal - livestock, environment and bluetongue

PALE-Blu is an EU Horizon 2020 funded project formed of 19 partners over 15 countries and runs from 2017 - 2020.

The project will dissect the interplay between BTV, its ruminant hosts, insect vectors and the environment. We will use new and existing methods to explore the molecular epidemiology of BTV strains circulating in Europe and related source-regions (including Northern, Western and sub-Saharan Africa, the Middle East and Turkey).

The PALE-Blu Data portal will make available existing environmental spatial data that can be used by project partners and the general public to assist them in their research objectives.

Access to our data is for registered users only please email info@palebludata.com with your name, profession, institution, city, country. With a short description of what data you require and what you will use it for. Please include your affiliation to either the PALE-Blu, VMERGE or other partner projects if you have one. Much of our data is free to registered users. But others are restricted to approved project partners.

The PALE-Blu Data Portal will build upon the functionality and resources that have been built up over 10 years of providing data for European research projects. From FP6 project EDEN - Emerging Diseases in a changing European environment, through to FP7 projects EDENext and VMERGE. This site is a shining example of the continuity of the resource provisions funded by the European research funding frameworks.

This Data Portal is designed as an archive for spatial data and a resource for project partners posting data, tools and links to help them and other interested parties with their research. We continually add to the existing resources to aid the project members in their research, and aim to provide:

- An archive of customised spatial data for PALE-Blu partners to use.

Keep Informed...

The PaleBlu Project

PALE-Blu

The Pale-Blu Project Website

BTV-GLUE

BTV Sequence Database

OIE - BT - Labnet

Bluetongue Geographical Distribution

News from the

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 Virus Research](#).

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



CVR
Medical Research Council
University of Glasgow
Centre for Virus Research

THE Pirbright
INSTITUTE

Websites with ISZAM input

ISZAM 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. OIEBT-LABNET: the web-based network of the OIE Bluetongue Reference Laboratories. *Veterinaria Italiana* 2016, 52 (3-4), 187-193. doi: 10.12834/VetIt.583.2799.1

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

