Are you an educator providing scientific training? Request a BlueBRIDGE Virtual Research Environment and make your job easier!

@BlueBridgeVREs www.bluebridge-vres.eu
Here’s why

Education in an interdisciplinary scenario is usually delivered through university courses, focussed training events and workshops provided by specialised scientific institutes. As a result, there can often be a gap in making the necessary technological support available to scientists, trainees and students.

All the steps in preparing courses and workshops require:

- **manual work**, which is repeated each time a new course is held.
- **installation of complex software on the users’ computers** to enable use of data processing services and models that usually come under heterogeneous programming languages.
- **an extensive phase of data preparation and powerful hardware installation** to allow the execution of the data-intensive models.

In addition, the **interaction between teachers and students is usually limited** to the duration of the face-to-face part of the course.

### The BlueBRIDGE solution

BlueBRIDGE offers you Virtual Research Environments (VREs) to **set up and deliver training courses in a cost-effective way**. The BlueBRIDGE VREs are collaborative, web-based applications which enable collaboration and integrated access to potentially unlimited digital research resources, as well as cross-disciplinary and cross-community tools and services.

### How it works

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<th>Actors involved</th>
<th>TRAINING COURSE DEFINITION AND PREPARATION</th>
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<td>SET UP OF THE VRE FOR THE COURSE PREPARATION (TRAINING MATERIAL, SELECTION OF DATASETS AND DATA SERVICES, ETC.)</td>
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Main features

Standard features

Each VRE is equipped with a simple graphical user interface that offers access to:

- Social networking features with an integrated mailing system, that trainers and course participants can use to communicate and exchange opinions and results on their research.
- Data storage and file sharing facilities (e.g., presentations, documentation, URLs, etc).
- Member management: The VRE can be open, restricted or private (it’s up to the instructor). If restricted or private, access to the VRE is limited to those possessing the credentials.
- Computational resources required to run model simulations.
- Integrated surveys: The VRE lets you create surveys that instructors can use to assess the course or to set up questionnaires that participants are required to complete.

Customized features

According to the needs of the trainer, each VRE can be populated with specific data and algorithms, with facilities for managing data, parameterizing models and providing standard and a variety of computational intensive models.

Here are some examples of the most-used features:

- **Data Analytics at Scale**: a facility enabling users to benefit from the offerings of the DataMiner service and interactively execute a large array of data analytics tasks on datasets. These algorithms range from those implemented to produce a species distribution map using either an expert system or a machine learning model to those used to analyse climatic change and its effect on species distribution, to those for estimating similarities among habitats, and approaches for stock assessment.

- **R Studio as-a-Service**: a facility enabling users to access a fully-fledged RStudio® working environment directly from the VRE. This environment is integrated with the rest of the VRE facilities enabling the usage of files from the workspace and the storage of new files in the workspace. Some R scripts executed on a local machine could take hours / days to complete, whereas if you exploit the VRE the time can be dramatically reduced to seconds / minutes.
Access to the VRE can be unlimited in time, or have an expiry date, depending on the agreement between course provider and instructors. The VRE can be opened before and remain open after the course has taken place. In this way, course participants can prepare themselves beforehand and, after the course, they can continue experimentation on their own datasets, as in the case of students working on degree theses.

Course participants can also access other public VREs on the infrastructure.

Additional facilities are already available or can be implemented by BlueBRIDGE.

### Time duration

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- **Course participants** can also access other public VREs on the infrastructure.

### Our Portfolio

World-renowned leading research institutes as well as universities are using the BlueBRIDGE VREs to organise courses, workshop and hands-on meetings.
Do you have a training course in the pipeline?

Try the BlueBRIDGE VREs!

The set up is very quick (usually one week).
What are you waiting for? Please contact us at info@bluebridge-vres.eu.

Who’s behind BlueBRIDGE?

IT Research & Academic Institutions

Blue Growth related scientific institutions

Companies

Training, dissemination & outreach specialists

Administration office

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