



**INNOVATIVE DATA MANAGEMENT SERVICES FOR
AQUACULTURE, FISHERIES & EDUCATION**



@BlueBridgeVREs



www.bluebridge-vres.eu

BlueBRIDGE: Building research environments fostering Innovation, Decision making, Governance and Education for Blue Growth

BlueBRIDGE delivers **tailor made data management services** to **different communities** (aquaculture, ecosystem approach to fisheries and research sector) and **stakeholders** (international organisations, research centres, enterprises, etc.).

The BlueBRIDGE services are operated through **collaborative web-based research environments** also referred to as Virtual Research Environments (VREs) built on top of a **hybrid-data infrastructure** (D4Science, www.d4science.org).

A VRE is a **web-based system** that can be accessed on-demand through a simple user interface. It **provides researchers and research teams, educators, SMEs, and any other type of user, from different disciplines, institutions or even countries, with a secure access** to collaborative tools, services, data and computational facilities meeting their specific needs. Hardware setup and software deployment required to operate these facilities are completely transparent to the VRE creator.

The key distinguishing features of a VRE are:

- It is a **web-based** working environment.
- It is **tailored** to serve the needs of a community of practice (i.e. a set of individuals who **decide to “virtually” connect to solve a specific problem**).
- It is expected to provide a community of practice with the **whole array of commodities** needed to accomplish the community's goal(s).
- It is **open and flexible** with respect to the overall service offering and lifetime.
- It promotes **fine-grained controlled sharing** of both intermediate and final research results by guaranteeing ownership, provenance and attribution.

VRE is the perfect approach to address the challenges of modern science which is increasingly **global, multi-disciplinary and networked**.

Is BlueBRIDGE only for the research sector?



“The development of the BlueBRIDGE smart solutions will importantly support decision-makers involved in the ecosystem approach to fisheries and aquaculture management, by facilitating the knowledge production chain from the initial phases of data collection, through to aggregation, analysis and the production of indicators for competent authorities and investors.”

Marc Taconet

*Chief of the Fishery Statistics and Information Branch
Food and Agriculture Organisation (FAO)*



“In recent years our customers coming from the aquaculture sector became more and more aware of the fact that in order for an aquaculture enterprise to remain viable and profitable, it must be environmentally sound and able to monitor its performance. By integrating some of the analysis and simulation algorithms of our own company software into the BlueBRIDGE infrastructure, we can enhance our data services better, supporting aquaculture producers to answer their main concern: how can I maximize the growth rate of my livestock by minimizing the production costs?”

Kostas Seferis

CEO

Integrated Information System SA (I2S)

The BlueBRIDGE Offer



Many of the VREs listed in the diagram are ready to use with some freely accessible to all at i-marine.d4science.org.

Try them now and join over 1,400 users already benefitting from BlueBRIDGE!

The BlueBRIDGE added value:

- Easy to use services to support researchers, companies (including SMEs) and international organisations.
- A self-sustained underlying infrastructure executing around 36,000 models & algorithms per month.
- Access to over a billion quality records hosted in more than 50 worldwide repositories and to more than 350 geo-referenced chemical and physical variables with global geospatial coverage and with 10 years lifespan through standard and recognized protocols.
- A unique consortium with the right expertise to support practitioners from multiple domains.

BlueBRIDGE for Education:

“A common challenge for educators is to set up scientific training that allow students to execute, in parallel, data and processing intensive experiments. Not all institutes have the capability and the resources to support these kind of courses. BlueBRIDGE offers a unique opportunity to professors and educators to set up VREs to run training sessions by exploiting the infrastructure facilities.”

Neil Holdsworth

International Council for the Exploration of the Sea (ICES)

Do you want to see how BlueBRIDGE supports scientific training? Join these two upcoming courses organised by ICES:

Design and analysis of catching sampling programmes, 12-16 September 2016, Denmark.

Data-limited stock assessment, 12-16 September 2016, Iceland.

Interested in BlueBRIDGE?

- Want access to VREs? i-marine.d4science.org
- Set up your own VRE? info@bluebridge-vres.eu
- Want more information on BlueBRIDGE? www.bluebridge-vres.eu
- If want to join us at future events? www.bluebridge-vres.eu/events
- Want real time updates from BlueBRIDGE? www.twitter.com/bluebridgevres

Who's behind BlueBRIDGE?

IT Research & Academic Institutions

- National Research Council of Italy
- FORTH

Blue Growth related scientific institutions

- Food and Agriculture Organization of the United Nations
- ICES CIEM
- IRD

Companies

- ENGINEERING
- G-GRID
- GLS
- TS
- CITE
- Forkys
- ALUBIA S.A.

Training, dissemination & outreach specialists

- Trust-IT Services
- POLE MCR

Administration office

- ERCIM



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