

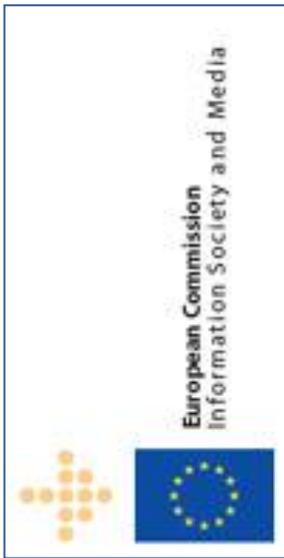


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Author(s)	Gerasimos Antzoulatos, Georgios Kakaletis
Editor(s)	Gerasimos Antzoulatos
Reviewer(s)	Pasquale Pagano
Contributor(s)	Gerasimos Farantatos, Konstantinos Seferis, Charalambos Dimitrakopoulos, Panagiota Koltsida, Michalis Nikolopoulos
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DISCLAIMER



BlueBRIDGE (675680) is a Research and Innovation Action (RIA) co-funded by the European Commission under the Horizon 2020 research and innovation programme

The goal of BlueBRIDGE, *Building Research environments for fostering Innovation, Decision making, Governance and Education to support Blue growth*, is to support capacity building in interdisciplinary research communities actively involved in increasing the scientific knowledge of the marine environment, its living resources, and its economy with the aim of providing a better ground for informed advice to competent authorities and to enlarge the spectrum of growth opportunities as addressed by the Blue Growth societal challenge.

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DELIVERABLE SUMMARY

Deliverable D6.2 *Blue Economy VRE Integrated Resources* is an on-line document that aims to present the resources that assembles the Blue Economy VREs. The Deliverable is available on project's wiki under the following location:

https://support.d4science.org/projects/bluebridge/wiki/D_6_2

The content of the deliverable is expected to evolve in time, under the principles of the agile methodology that BlueBRIDGE project is following.

The Deliverable is covering the two clusters of Blue Economy VRE's (which correspond to T6.1 and T6.2. of project's DoA):

- Performance evaluation, bench-marking and decision making in aquaculture VRE Specification (Blue Economy VRE Cluster 1);
- Strategic Investment analysis and Scientific Planning/Alerting VRE Specification (Blue Economy VRE Cluster 2);

For the two VRE clusters the following **integrated resources** are captured by the specification document:

- *Datasets* (internal and external ones). These include datasets from Aquaculture companies or derived as the outcome of the analysis in the VRE framework as well as datasets collected from external resources, like Eurostat. Their utilisation is on one hand to supplement the internal aquaculture data sets and on the other hand to provide new information contributing to the accomplish of VRE services;
- *Services*, i.e. software integrated as a service for the delivery of the VRE functionality, as well as tools and software specific to the VRE for the implementation of its objectives;
- *Theoretical constructs* such as models and algorithms required to carry the scientific and computational tasks of the VRE;
- Resources involved in VRE provisioning, be them nodes, datasets or infrastructure services;
- User guides for utilizing VRE offerings;
- Policies and terms overview.

For resources pertaining to specific VRE clusters, the scope is clarified in the corresponding section of the document.

The first version of the deliverable builds on the major use cases defined, in the context of D6.1 and incorporates the findings of the Data Management Plan.

A number of datasets have been identified as of need and relevance to the objectives of the WP, originating either from external open access data sources (such as INSPIRE, Eurostat or research insitutes) or internal project's activities (datasets assembled by the contributions of VRE participants).

A suite of tools is implemented to ingest and manage those datasets and furthermore to deliver the required data analysis instruments to VRE tenants, for benchmarking and investment/scientific analysis. Those tools, along with a number of infrastructural services assemble the landscape of BlueEconomy VRE.

Behind the tooling, a number of theoretical models and algorithms, dealing with production, techno-economic, social and environmental impact, powered by statistics and data mining algorithms, are delivered as implementations by project's partners and augmented by external collaborations.

The operation of the VREs is supported by a number of virtualized resources (network, CPU, memory, storage) that is provided by the D4Science infrastructure.

Finally, guidelines for the use and operation of the VREs, along with policies, related to terms of use and licensing, are also provided along the VRE resources for the convenience of its tenants.

REFERENCES

- [1] Deliverable URL https://support.d4science.org/projects/bluebridge/wiki/D_6_2
- [2] Deliverable ticket <https://support.d4science.org/issues/658>