

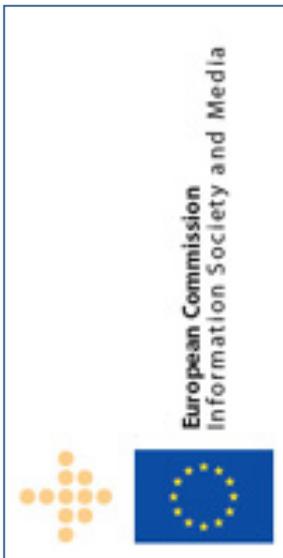


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<i>Authors</i>	<b><i>Gerasimos Farantatos, Gerasimos Antzoulatos, Georgios Kakalettris</i></b>

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# DISCLAIMER



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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.

This document contains information on BlueBRIDGE core activities, findings and outcomes and it may also contain contributions from distinguished experts who contribute as BlueBRIDGE Board members. Any reference to content in this document should clearly indicate the authors, source, organisation and publication date.

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# DELIVERABLE SUMMARY

Deliverable D6.1 Blue Economy VRE Specification is an on-line document that aims to present the requirements, the specifications and the design of the solution that assembles the blue economy VREs. The

The Deliverable is available on project's wiki under the following location:

[https://support.d4science.org/projects/bluebridge/wiki/D\\_6\\_1](https://support.d4science.org/projects/bluebridge/wiki/D_6_1)

It is expected to evolve under the principles of the agile methodology that BlueBRIDGE project is following.

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

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

In each VRE cluster the following aspects are captured by the specification document:

- Use cases;
- Specifications of key elements not pertaining to typical software engineering tasks;
- Enumeration of the stakeholders expected to be involved in VREs;
- Design aspects covering architecture, technologies and new UI elements;
- Resources involved in VRE provisioning, be it nodes, datasets or infrastructure services.

As the first full version of the deliverable describes, six major use cases are being defined, three per VRE cluster, however more are expected to be identified, which combined with the functional requirements are leading to a number of additional VRE's compared to the ones originally described. Use cases of each VRE class fall under the same functional cluster, yet additional services are required for each particular use case. Among the use cases one (Scientific / Environmental Planning / Alerting) needs further specialization once Blue Assesment and Blue Environment pillars provide their respective use cases. A common requirement, yet with different functional perspectives from each VRE cluster, is the Skill Building use case that targets aquaculture executives and academic course students. Via those elements WP8 will be provided with simulation tooling for production and investment analysis for delivery its courses.

Other important findings of the VRE specification process is the diversity of data resources required by its use cases, which span imagery, vector and tabular data leading to diverse technologies for their handling and the needs for data confidentiality assurance (internal data sets).

Finally a number of opportunities for enriching and exploiting the gCube technology and the D4Science infrastructure have been identified, briefly enumerated in deliverable's resources section, and a number of tickets have been issued for monitoring their implementation.

# REFERENCES

- [1] Deliverable URL [https://support.d4science.org/projects/bluebridge/wiki/D\\_6\\_1](https://support.d4science.org/projects/bluebridge/wiki/D_6_1)
- [2] Deliverable ticket <https://support.d4science.org/issues/657>