Deliverable No. 4.7

Project acronym:

AquaVitae

Project title:

New species, processes and products contributing to increased production and improved sustainability in emerging low trophic, and existing low and high trophic aquaculture value chains in the Atlantic

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Role	Name	Organisation	Date	File suffix[3]
Task leader, author	Celine Boechat	Nofima	01/07/2022	CB
WP leader	Petter Olsen	Nofima		PO
Administration Facilitator	Valur Gunnlaugsson	MATIS	20.05.2022	VG
Coordinator	Philip James	NOFIMA		PJ

[1] Document will be a draft until it is approved by the coordinator
[2] PU: Public, PP: Restricted to other programme participants (including the Commission Services), RE: Restricted to a group specified by the consortium (including the Commission Services), CO: Confidential, only for members of the consortium (including the Commission Services)
[3] The initials of the revising individual in capital letters

Deliverable D4.7

Data Management Plan

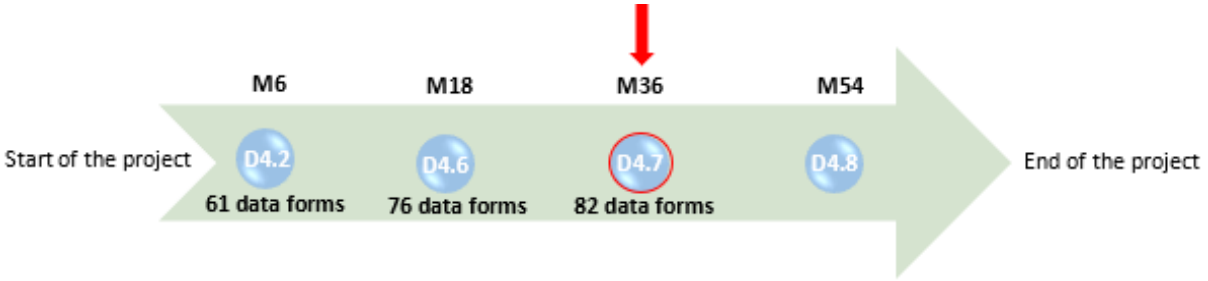
Update 36 month

31/05/2022

Executive Summary

The overall goal of WP4 is to coordinate the collection, harmonization, sharing and archiving of data collected and generated by the project, and to document data collection methods and procedures. As a first step in achieving this goal, AquaVitae, as a participant in the H2020 Open Research Data Pilot, have created a Data Management Plan (DMP) and update it periodically during the course of the project. This deliverable is the month 36 update.

This deliverable contains a comprehensive overview of the different data sets used within the project, a list of the repositories chosen so far, and procedures for archiving and sharing research data after the projects' lifetime. The deliverable contains a total of 82 forms.



The forms provide a detailed description of the content of the datasets, how it will be preserved and whether or not they will be made available for further reuse after the project end. When data sets are finalized, they will be uploaded to either a field related repository or in-house repository belonging to an institution. If no such repository exists, data will be uploaded to a general repository e.g. Zenodo. Almost 80% of the datasets introduced here will be uploaded to the AquaVitae community created at Zenodo.

Contents

1. Introduction

The overall goal of the Horizon 2020 Open Research Data Pilot (ORDP) is to help enable reuse of research data either collected or generated throughout a project. Over the course of a project, considerable amounts of data are generated. If these are not sufficiently archived, shared or made available for reuse later on, it results in time and effort being spent in other projects collecting similar data, as well as discourages openness.

The Open Research Data Pilot aims to make data FAIR:

- Findable
- Accessible
- Interoperable
- Reusable

As a way of ensuring good data management, a data management plan (DMP) was developed. This is one of three requirements laid out in task 1.1, the other two being depositing collected research data in a data repository, and taking measures to enable third parties to access, mine, exploit, reproduce and disseminate research data.

The DMP used in this project includes information on topics such as:

- identification of the dataset and the institution responsible
- the handling of research data during and after the end of the project
- what data will be collected, processed and/or generated
- which methodology and standards will be applied
- whether data will be shared/made open access and
- how data will be curated and preserved (including after the end of the project)
- ethical issues
- costs associated with archiving data

This deliverable D4.7 is the M36 update of the D4.6 “Data management Plan Update M18”.

2. Method

A form and an accompanying explanation describing the information needed for each component was created based on the recommended DMP-structure in the ECs "Guidelines on FAIR Data Management in Horizon 2020" for the initial DMP D4.2. Both the form and the explanation were sent out to all participants, along with the deliverable 4.2. The email also contained a detailed description on the nature of the deliverable. Participants were asked to update their forms from the previous version as well as fill out a new form in case of new data exploitation since M6. The last update took place at M18 and this deliverable is the last update before the final DMP due at the end of the project. Both the form and the explanation are included in "Appendix 2 – Templates".

The next update will take place at month 52 at the end of the project.

3. Concluding remarks

While the deliverable 4.6 contained 76 DMP-forms, deliverable 4.7 contains a total of 82 DMP-forms. 8 forms have been added from the previous version, 2 removed, and 14 were updated including among other, more information about the choice of the repository. The forms provide a detailed description of the content of the datasets, how it will be preserved and whether or not they will be made available for further reuse after the project end.

Table 1:overview of de DMP through the project's lifetime

Deliverable	Month	Number of forms	Modifications
D4.2	M6	61	
D4.6	M18	76	• 1 removed • 16 added • 36 updated
D4.7	M36	82	• 2 removed • 8 added • 14 updated
Upcoming			
D4.8	M52		

Most of the data generated in the case studies are collected in WP1-3, so in the appendix, the forms pertaining to WP1-3 are grouped according to case study. Forms pertaining to WP 4-9, however, are classified according to their respective work package Forms concerning more than two CS or WP are grouped in the categories “multiple case study” or “multiple WP”. Within each category the forms are grouped according to the organization who submitted the form.

Because different work packages are at a different time schedule, not all forms share the same level of detail. The DMP is intended to be a living document, however, meaning it will be updated at later stages (as described above). This means more information can be added to existing forms or new forms be added should new data be used.

When data sets are finalized, they will be uploaded to either a field related repository or in-house repository belonging to an institution. If no such repository exists, data will be uploaded to a general repository e.g. Zenodo. The workflow concerning the data is the following:

- Identify the data used/generated/produced during the project
- Describe the data in a dataset form, one per dataset
- Plan a suitable repository
- Work on/with the data
- Work done/contribution to the project accomplished: upload the data to the repository

At the moment 17 datasets are uploaded to an open repository (see table 4). Most of the participant are not done with their contribution to the project, the more we will get closer to the end of the project the more datasets will be uploaded and at the end all datasets that are not closed due to confidentiality reasons will be openly accessible.

Table 2 lists the datasets gathered at M36. In the left column, datasets are color-coded, separating them by CS (for WP1-3) and by WP. The right column indicates which repository the data is planned to

be upload to at the end of the project or when the data is finalized, whichever comes first. By clicking on the title, you will be directed to the corresponding data set file in the appendix for more information about it.

Table 2: List of the datasets present at M36.

CS/WP	Responsible	Title	Repository planned
CS1	Universidade Federal de Santa Catarina	Evaluation of different conditions to induce reproduction for Ulva sp in Brazil	Zenodo
CS1	University of Porto	Evaluation of different growth conditions for Codium.	Zenodo
CS2	Fiskaalling and Ocean Rainforest	Mapping the Atlantic Ocean i.e. the Gulf of Maine to identify suitable cultivation sites for kelp species	Zenodo
CS2	Fiskaalling and Ocean Rainforest	Mapping the sea around the Faroe Islands to identify suitable cultivation sites for kelp	Confidential
CS3	France Haliotis	Ulvella lens and European abalone (Haliotis tuberculata) settlement and growth	Zenodo
CS3	France Haliotis	Effect of Heating in European abalone (Haliotis tuberculata) Nursery	Zenodo
CS3	ULPGC	Abalone hatchery production results	Zenodo
CS3	ULPGC	Land based IMTA grow out production	Zenodo
CS3	ULPGC	Land based IMTA new and improved products	Zenodo
CS3	RhU/Wild Coast Abalone/Fort Hare University	Growth trial integrating sea cucumber (Neostichopus grammatus) to with abalone (Haliotis midae) in a land based IMTA system.	Zenodo
CS3	RhU/Wild Coast Abalone/Marifeed	Abalone growth in a Land Based IMTA system on commercial feeds incorporating biosecure IMTA grown algae	Zenodo
CS3	RhU/Wild Coast Abalone/Marifeed	IMTA grown product analysis	Zenodo
CS3	RhU/Wild Coast Abalone	Environmental performance of land based IMTA at WiCoAb	Zenodo
CS4	Fiskaaling	Spatial and temporal changes in zooplankton abundance in a Faroese Fjord	Envofar
CS4	Fiskaaling	Spatial and temporal changes in nutrient availability and Chl a concentration in a Faroese Fjord	Envofar
CS4	Fiskaaling	Spat settlement and growth of blue mussels longlines in a Faroese fjord	Envofar

CS4	Fiskaaling	Seaweed growth on cultivation lines at a fish farm and reference site in a Faroese fjord	Envofar
CS4	Fiskaaling	Spatial and temporal changes in temperature and salinity in a Faroese Fjord	Envofar
CS4	Luna	Sorvag Currents	Envofar
CS4	Luna	Sorvag fish farm data	Not decided yet
CS4	France Haliotis	Deployment of seeded Saccharina latissima longline on abalone grow out farm.	Zenodo
CS4	France Haliotis	Assessment of co-culture of Queen scallop Chlamys varia culture with European abalone (Haliotis tuberculata) at sea	Zenodo
CS4	Rhodes University/Marifeed	Biosecurity of algae in abalone feeds	Zenodo
CS4	Rhodes University/Marifeed	The growth of Gracilaria gracilis on mussel rafts in Saldanha Bay, South Africa	Zenodo
CS4	Rhodes University/Marifeed	The growth and behaviour of farmed Haliotis midae fed Gracilaria gracilis grown in a sea-based IMTA	Zenodo
CS4	IVL	Lobster and oyster in a multi trophic system	Zenodo
CS5	UFSC, FURG	Biofloc	Zenodo
CS5	UFSC	Biofloc IMTA	Zenodo
CS5	Unesp and Embrapa	Designing shrimp-seaweed-oyster IMTA in tropical ponds	Zenodo
CS6	Nofima	Sea urchin transport and roe enhancement results (Norway)	Zenodo
CS6	Nofima	Sea urchin feed data	Zenodo
CS6	Nofima	Sea urchin roe enhancement protocols	Zenodo
CS7	Alfred Wegener Institute	Sea cucumber expert's species of interest	Pangaea
CS7	Alfred Wegener Institute	Sea cucumber hatchery species of interest survey	Pangaea
CS7	Alfred Wegener Institute	Sea cucumber hatchery growth results	Pangaea
CS7	RhU/Wild Coast Abalone	Reproduction of Sea Cucumber Neostichopus grammatus	Zenodo
CS8	GMIT	Evaluation of juvenile oyster (Ostrea edulis) production	Zenodo
CS8	IVL	Evaluation of different settlement substrates for field-based collection of Ostrea edulis.	Zenodo
CS8	IVL	Pond based production of oyster spat (Ostrea edulis)	Zenodo
CS8	IVL	Low-tech nursery system for Ostrea edulis.	Zenodo

CS8	IVL, Bohus Havsbruk, Orust Shellfish	Evaluation of new grow-out systems for oysters.	Zenodo
CS8	IVL, Bohus Havsbruk	Quantification of settling period for calcifying fouling organisms e.g. Spirobranchus triqueter	Zenodo
CS8	IVL, Bohus Havsbruk	Developing and testing protocols for fouling treatments on oysters	Zenodo
CS8	Embrapa	Evaluation of oysters sea-based seed collectors.	Zenodo
CS8	Embrapa	Development of hatchery techniques for Crassostrea gasar	Zenodo
CS8	Primar	Revise the estuarine water collection and treatment structure, to improve the water quality of the Primar hatchery of Crassostrea gasar	Zenodo
CS8	Primar	Native microalgae feed for larvae fase of Crassostrea gasar	Zenodo
CS9	Technical University of Denmark (DTU), Cartron Point Shellfish Ltd	Mussel hatchery production (Ireland & Denmark)	Zenodo
CS9	IVL, Bohus Havsbruk	Developing and testing protocols for fouling treatments on Mytilus edulis.	Zenodo
CS10	Embrapa	Reproduction of Arapaima gigas	Zenodo
CS10	Embrapa	Reproduction of Arapaima gigas	Zenodo
CS10	Embrapa	Reproduction of Arapaima gigas	Zenodo
CS11	Nofima	Flatfish aquaculture production 2000 to 2018	Zenodo
Multiple CS	Centre of Marine Sciences (CCMAR)	AQUAVITAE_Fish key performance indicators_Diets from fisheries by-catch valorisation	Zenodo
Multiple CS	Centre of Marine Sciences (CCMAR)	AQUAVITAE_Fish key performance indicators for diets from low-trophic species	Zenodo
Multiple CS	Stellenbosh University	Protein hydrolysis optimiztion	4TU.ResearchData
Multiple CS	Stellenbosh University	Pelletizing of agricultural lime obtained from shellfish shells.	4TU.ResearchData
Multiple CS	Alfred Wegener Institute	Sea cucumber controlled feeding experiments	Pangaea
Multiple CS	WP1 leader and participants. WP2 & WP3 for shared case studies	Hatchery production of juveniles or sporophytes from case studies in WP1	Zenodo
Multiple CS	Instituto de Investigaciones Marinas (CSIC)	Shellfish valorisation: assessing carbon sequestration and trading	Institutional repository of CSIC
Multiple CS	Nofima	Abalone aquaculture production 2000 to 2018	Zenodo

Multiple CS	Nofima	Abalone fishery production 1984 to 2018	Zenodo
Multiple CS	Nofima	Abalone imports to Japan 2017 to 2020	Zenodo
WP4	Biolan	Sulphite monitoring device technical documents	Confidential
WP4	Biolan	Sulphite analyses	Confidential
WP5	Nofima	Consumer survey data	Zenodo
WP5	Nofima	Interview data with industrial players	Zenodo
WP6	IVL	External and internal risks effecting the sustainability performance of LTS aquaculture in the Atlantic region	Zenodo
WP6	IVL	Existing and emerging LTS aquaculture in the Atlantic region	Zenodo
WP6	IVL	Mapping and ranking of relevant SDGs in LTS Aquaculture	Zenodo
WP6	IVL/UNESP/CIIMAR	Mapping and selection of indicators for sustainability analysis of LTS aquaculture and mapping against SDG targets of relevance to LTS aquaculture	Zenodo
WP6	SAMS	T6.4 Environnemental monitoring	Zenodo
WP6	University of Porto	Mapping Nature Contributions to People provided by LTS aquaculture and data availability for different NCPs	Zenodo
WP6	University of Porto	Quantification of the value of selected Nature Contributions to People provided by LTS aquaculture	Zenodo
WP6	Unesp and Embrapa	Quantification of indicators of sustainability for LTS aquaculture around the Atlantic	Zenodo
WP7	Blue Resource/Nofima/FURG	Linguado wholesale market prices Sao Paolo	Zenodo
WP7	Blue Resource/Nofima	Value chain analysis interviews	Confidential
WP8	UiT	Producer's perception of policy and regulation issues in the context of low trophic aquaculture (workshop summaries)	AquaVitae project site
WP8	UiT	Producers perception of aquaculture policy and regulation issues	AquaVitae project site
WP8	Nofima	Evaluation of aquaculture regulations' adaptiveness to low trophic aquaculture (LTA) in selected countries and regions of the Atlantic.	Zenodo
WP9	UiT	MOOC on Sustainable Aquaculture for Low Trophic Species	Open edX
Multiple WP	Unesp	Data used to compute and quantify the indicators	Unesp repository

Table 3 gives an overview of the repositories considered so far, as well as the number of datasets planned to be uploaded to each. At the moment, one field related, four institutional and one public repository have been targeted (the AquaVitae project website doesn't count as a repository). Open

edX have been chosen from UiT for the MOOC (massive open online course) as learning platform. In order to gather the data a maximum, we suggested to the partners to choose one public repository instead of the data being spitted into two different public repositories like it was in the D4.2 with Figshare and Zenodo. We decided to go with Zenodo which is now the only public repository on which all the data that does not belong to a field related or an institutional repository will be uploaded under the AquaVitae community created there.

Table 3: Repositories chosen, and the number of datasets planned to be uploaded to each.

Repositories	Type of repository	Number of datasets
Envofar	Field related repository for the Faro Island	6
Pangaea	Institutional	4
Unesp repository	Institutional	1
4TU research.data	Institutional	2
CSIC repository	Institutional	1
Zenodo	Public	60
AquaVitae project site*	Public*	2*
Open edX	Public	1
Not decided yet		1
Confidential		4
SUM		82

*These data generated by UiT are not research data, but terms and concepts definitions. They do not need to be uploaded to a repository but are available on the project website.

Table 4 gives an overview of the datasets already available in open access with links to access the data. Those can be found in the AquaVitae EU portal as well under open data.

Table 4: Datasets openly available and links to the data.

CS/WP	Title	Links
CS1	Evaluation of different conditions to induce reproduction for Ulva sp in Brazil	https://zenodo.org/record/6517548#.YnKAru1ByUk
CS2	Mapping the Atlantic Ocean i.e. the Gulf of Maine to identify suitable cultivation sites for kelp species	https://zenodo.org/record/6566057#.YoeFWu1ByUk
CS3	Effect of Heating in European abalone (Haliotis tuberculata) Nursery	https://zenodo.org/record/5608505#.YmftOihByUk
CS3	Ulvella lens and European abalone (Haliotis tuberculata) settlement and growth	https://zenodo.org/record/5608500#.YmftYShByUk
CS4	Spat settlement and growth of blue mussels longlines in a Faroese fjord	https://zenodo.org/record/6563038#.YoYaF-1ByUk
CS4	Seaweed growth on cultivation lines at a fish farm and reference site in a Faroese fjord	https://zenodo.org/record/6563042#.YoYHCu1ByUk

CS5	Biofloc IMTA	https://zenodo.org/record/4697893#.YmfthyhByUk
CS6	Sea urchin transport and roe enhancement results (Norway)	https://zenodo.org/record/6244243#.YmeePihByUk
CS11	Flatfish aquaculture production 2000 to 2018	https://zenodo.org/record/6477194#.Ymef6ChByUk
Multiple CS	Abalone aquaculture production 2000 to 2018	https://zenodo.org/record/6477171#.YmegXihByUk
Multiple CS	Abalone fishery production 1984 to 2018	https://zenodo.org/record/6477180#.YmeggihByUk
Multiple CS	Abalone imports to Japan 2017 to 2020	https://zenodo.org/record/6477188#.YmegqChByUk
Multiple CS	Shellfish valorisation: assessing carbon sequestration and trading	https://digital.csic.es/handle/10261/238413
WP6	Existing and emerging LTS aquaculture in the Atlantic region	https://zenodo.org/record/6521724#.YnTWPNpByUk
WP6	Mapping and ranking of relevant SDGs in LTS Aquaculture	https://zenodo.org/record/6521804#.YnTA1dpByUk
WP7	Linguado wholesale market prices Sao Paolo	https://zenodo.org/record/6559194#.YoSyme1ByUk
WP8	Evaluation of aquaculture regulations' adaptiveness to low trophic aquaculture (LTA) in selected countries and regions of the Atlantic.	https://zenodo.org/record/6490935#.Ynzbze1ByUk

Next deliverable DMP final due M54

In order to make the data as findable as possible, cross references between the datasets and the deliverables will be made. This process has started with 5 datasets uploaded on Zenodo that were used to produce the deliverable 7.2.

- Linguado wholesale market prices Sao Paolo
- Flatfish aquaculture production 2000 to 2018
- Abalone aquaculture production 2000 to 2018
- Abalone fishery production 1984 to 2018
- Abalone imports to Japan 2017 to 2020

The connection between those datasets and the D7.2 is now mentioned in the dataset description (appendix).

In deliverables, in cases where the dataset used to produce it is finalized and uploaded, a link to it will be provided. In cases where the data is still under work, a reference to the dataset present in the DMP will be made. The final DMP with all the links to the uploaded data will be available on the AquaVitae website to facilitate overview of the data produced during the project and access to them.

Concerning the metadata, the dataset form from the DMP will be uploaded at the same time as the data to public repositories. For the 17 datasets already uploaded this won't be done as this action would generate another DOI for the new upload and would be confusing. But for the 61 datasets (82 minus 4 confidential and the 17 already uploaded) this will be done.

4. References

- "Guidelines on FAIR Data Management in Horizon 2020". EC Directorate-General for Research and Innovation, version 3.0, July 26th, 2016
- "Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020". EC Directorate-General for Research and Innovation, version 3.1, August 25th, 2016

Appendix 1

Case Study 1	
1. Data set name	Evaluation of different conditions to induce reproduction for *Ulva sp* in Brazil
2. Data set owner or user, link to WP and/or Case Study	Universidade Federal de Santa Catarina (UFSC) (Brazil), CS1 Link to WP1 & CS5
3. Data set summary	Aim: Evaluation of different reproductive conditions for *Ulva* sp. Evaluation of alternative growth conditions in laboratory will be based on existing previous experiences in Ciimar, ALGAPlus, UFSC and other labs to find optimal conditions to induce reproduction in *Ulva* sp. The data will be used to evaluate different techniques for larger scale production of *Ulva* in pilot scale tanks
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet is provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data is made accessible through the on-line database Zenodo.
4.2 Plans for making data openly accessible	Dataset is made openly available to Zenodo: https://zenodo.org/record/6517548#.YnKAru1ByUk
4.3 Plans for making data interoperable	Standard formats of data is made available (word, excel, .csv). Dataset is in English
4.4 Plans for making data re-usable (through clarifying licenses)	The data is publicly available. A standardized format for the data is set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs. Zenodo allows 50GB total files size limit per record.
6. Data security	The data is hosted by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	No known ethical aspects.
8. Other	N/A

1. Data set name	Evaluation of different growth conditions for *Codium*.
2. Data set owner or user, link to WP and/or Case Study	University of Porto (CIIMAR) (Portugal), CS1 Link to WP1
3. Data set summary	Aim: Evaluation of different growth conditions for *Codium*. Evaluation of alternative growth conditions in laboratory will be based on existing previous experiences in Ciimar and other labs. The data will be used to evaluate different techniques for production of *Codium* in tanks
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through the on-line database, Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	Dataset will be made openly available in Zenodo. Zenodo is a general-purpose open-access repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv). Dataset will be in English
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs are expected. Zenodo allows 50GB total files size limit per record.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow and comply with EU regulations. After this, the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	No known ethical aspects.
8. Other	N/A

Case Study 2	
1. Data set name	Mapping the Atlantic Ocean i.e. the Gulf of Maine to identify suitable cultivation sites for kelp species
2. Data set owner or user, link to WP and/or Case Study	Owner: Fiskaalling (Fisk) and Ocean Rainforest (ORF) (Faroe Islands) User: Edinburg University (external partner) Case study 2 WP 2
3. Data set summary	Input source: • Temperature data • Depth data • Wave data • Nutrients data • Current data • Marine use data **All from other available sources outside the project** DATA SET GENERATED: • Environmental data • Training/validation data • The socioeconomic datasets • Map of suitable sites Model using GIS
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The maps and model are uploaded to Zenodo website They are accompanied by a methodological note.
4.2 Plans for making data openly accessible	Maps are made openly available in Zenodo. https://zenodo.org/record/6566057#.YoeFWu1ByUk
4.3 Plans for making data interoperable	Maps are in English
4.4 Plans for making data re-usable (through clarifying licenses)	The maps are made openly accessible and re-usable.
5. Allocation of resources	The maps are made FAIR through Zenodo and doesn't include any specific costs other than the technician time required to format and upload them.
6. Data security	No specific security requirements have been identified.
7. Ethical aspects	No concerns
8. Other	N/A

1. Data set name	Mapping the sea around the Faroe Islands to identify suitable cultivation sites for kelp
2. Data set owner or user, link to WP and/or Case Study	Owners and users: Fiskaalling (Fisk) and Ocean Rainforest (ORF) (Faroe Islands) Case study 2 WP 2
3. Data set summary	Input source: • Depth data • Wave data • Current data • Marine use data **All from other available sources outside the project** DATA SET GENERATED: • Map of suitable sites (.gis, .pdf, .xlx) • Model using GIS (script, .py-file) • Depth data (.cvs) • Wave data (.cvs) • Current data (.cvs) Read me doc (.md)
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Closed
4.2 Plans for making data openly accessible	Closed
4.3 Plans for making data interoperable	Closed
4.4 Plans for making data re-usable (through clarifying licenses)	As a commercial partner in Aquavitae all information regarding site selection etc. is an important part of the total knowledge base we are trying to build. Such information has a direct impact on the competition about future application on cultivation permits in the Faroe Islands. We are therefore the maps or model about site selection will not be openly available
5. Allocation of resources	N/A
6. Data security	No specific security requirements have been identified.
7. Ethical aspects	No concerns
8. Other	N/A

Case Study 3	
1. Data set name	*Ulvella lens* and European abalone (*Haliotis tuberculata*) settlement and growth
2. Data set owner or user, link to WP and/or Case Study	France Haliotis (FrHa) (France), CS3, WP1
3. Data set summary	Effect of *Ulvella lens* quality on settlement rate and growth of European abalone (*Haliotis tuberculata*) juveniles. - 6 quality levels of *U. lens* culture tested, - Monitoring of abalone larvae settlement at 10 days, - Survival after 30 and 60 days, - Size of post larvae after 60 days. The data was collected over the summer of 2019 in France Haliotis farm.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The dataset is uploaded to Zenodo website The dataset is recorded in a CSV format and will be accompanied by a methodological note.
4.2 Plans for making data openly accessible	Dataset is made openly available in Zenodo. https://zenodo.org/record/5608505#.YmftOihByUk
4.3 Plans for making data interoperable	Dataset is in English
4.4 Plans for making data re-usable (through clarifying licenses)	The dataset is made openly accessible and re-usable. A scientific publication will be finalized
5. Allocation of resources	The data is made FAIR through Zenodo and should not include any specific costs other than the technician time required to format and upload the dataset. These costs will be covered by France Haliotis during the Aquavitae project.
6. Data security	No specific security requirements have been identified for this dataset.
7. Ethical aspects	There is no ethical issue identified with the data collected in this dataset.
8. Other	N/A

1. Data set name	Effect of Heating in European abalone (Haliotis tuberculata) Nursery
2. Data set owner or user, link to WP and/or Case Study	France Haliotis (FrHa) (France), CS3, WP1, experiment 2
3. Data set summary	Effect of *heating in European* abalone (*Haliotis tuberculata*) nursery on survival and growth of juveniles. - 2 levels of heating, - Monitoring of abalone juveniles before and after winter, - Survival over winter, - Size of juveniles. The data will be collected over the winter of 2019-2020 in France Haliotis farm.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The dataset is uploaded to Zenodo website The dataset is recorded in a CSV format and will be accompanied by a methodological note.
4.2 Plans for making data openly accessible	Dataset is made openly available in Zenodo. https://zenodo.org/record/5608500#.YmftYShByUk
4.3 Plans for making data interoperable	Dataset is in English
4.4 Plans for making data re-usable (through clarifying licenses)	The dataset is made openly accessible and re-usable. A scientific publication will be finalized
5. Allocation of resources	The data is made FAIR through Zenodo and should not include any specific costs other than the technician time required to format and upload the datasets. These costs will be covered by France Haliotis during the Aquavitae project.
6. Data security	No specific security requirements have been identified for this dataset.
7. Ethical aspects	There is no ethical issue identified with the data collected in this dataset.
8. Other	N/A

1. Data set name	CS3/WP1 abalone hatchery production results
2. Data set owner or user, link to WP and/or Case Study	University of Las Palmas of Grand Canarias (ULPGC) (Spain) CS3 Links to WP1 and CS3
3. Data set summary	The research aims at improving abalone larval settlement and post larval survival through optimisation and implementation of effective induction cues and settlement substrates. Data will be related to settlement rates, growth rates and survival.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Metadata information will be provided at the beginning of each data document, specifying parameter number, name, short name, units as well as location and date.
4.2 Plans for making data openly accessible	Information will be made readily available once published or at the end of Aquavitae and will be hosted in the on-line database Zenodo. Keywords will be chosen carefully to facilitate access.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, jpg) and will apply standardized international measures (Specific growth rates, percentages….)
4.4 Plans for making data re-usable (through clarifying licenses)	The results obtained will be publicly available once published or at the end of Aquavitae. The standardized format of the data will facilitate the use of data by others.
5. Allocation of resources	No data management FAIR costs are expected as the information will be hosted in on-line database.
6. Data security	Data will be hosted in online database that complies with the guidelines for data security.
7. Ethical aspects	None
8. Other	n/a

1. Data set name	CS3/WP2 Land based IMTA grow out production
2. Data set owner or user, link to WP and/or Case Study	University of Las Palmas of Grand Canarias (ULPGC) (Spain) CS3 Links to WP2 and CS7
3. Data set summary	The research aims at: • Developing novel co-culture systems and feeding strategies for low trophic species in land-based Recirculating Aquaculture System (RAS) and flow through system. Data will be related to growth rates, ingestion rates, FCR, weight and survival as well as biochemical composition, and water quality parameters
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Metadata information will be provided at the beginning of each data document, specifying parameter number, name, short name, units as well as location and date.
4.2 Plans for making data openly accessible	Information will be made readily available once published or at the end of Aquavitae and will be hosted in the on-line database Zenodo. Keywords will be chosen carefully to facilitate access.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, jpg) and will apply standardized international measures (Specific growth rates, FRC, Kg, percentages….)
4.4 Plans for making data re-usable (through clarifying licenses)	The results obtained will be publicly available once published or at the end of Aquavitae. The standardized format of the data will facilitate the use of data by others.
5. Allocation of resources	No data management FAIR costs are expected as the information will be hosted in on-line database.
6. Data security	Data will be hosted in online database that complies with the guidelines for data security.
7. Ethical aspects	None
8. Other	n/a

1. Data set name	CS3/WP3 Land based IMTA new and improved products
2. Data set owner or user, link to WP and/or Case Study	University of Las Palmas of Grand Canarias (ULPGC) (Spain) CS3 Links to WP3 and CS7
3. Data set summary	The research aims to: Assessing the potential of Land based IMTA production for new and improved products and/or applications. The land-based IMTA produced species and their by-products will be screened through the performance of nutritional and quality analysis Data will be related to biochemical composition, physical quality parameters and heavy metals
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Metadata information will be provided at the beginning of each data document, specifying parameter number, name, short name, units as well as location and date.
4.2 Plans for making data openly accessible	Information will be made readily available once published or at the end of Aquavitae and will be hosted in the on-line database Zenodo. Keywords will be chosen carefully to facilitate access.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, jpg) and will apply standardized international measures.
4.4 Plans for making data re-usable (through clarifying licenses)	The results obtained will be publicly available once published or at the end of Aquavitae. The standardized format of the data will facilitate the use of data by others.
5. Allocation of resources	No data management FAIR costs are expected as the information will be hosted in on-line database.
6. Data security	Data will be hosted in online database that complies with the guidelines for data security.
7. Ethical aspects	None
8. Other	n/a

1. Data set name	CS3 Experiment 5 Growth trial integrating sea cucumber (*Neostichopus grammatus*) to with abalone (*Haliotis midae*) in a land based IMTA system.
2. Data set owner or user, link to WP and/or Case Study	Rhodes University (RhU)/Wild Coast Abalone (WiCoAb)/Fort Hare University (Ufh) (South Africa) CS3 and WP2
3. Data set summary	Growth data for wild caught juveniles from local species *Neostichopus grammatus* grown with abalone on four experimental diets in the land-based IMTA production system at Wild Coast Abalone farm for a period of six months. Experimental diets: 1) basal abalone diet 2) Abalone fed: fresh IMTA algae and basal abalone diet 3) Abalone fed: fresh IMTA algae and basal abalone diet + Sea cucumber 4) Abalone fed: basal abalone diet + Sea cucumber
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The analyzed data will be published in either (a) industry reports and/or (b) student theses and/or (c) peer-reviewed papers. The peer reviewed papers and industry reports and student theses will be available to the public online, using appropriate key words that will increase the chances of them being found. In addition, we will also make raw data (that was included in industry reports and/or student theses and/or peer-reviewed papers) easily accessible through the an on-line database, but only after it has been published. This will be done using Zenodo.
4.2 Plans for making data openly accessible	Student thesis will be freely available to the public and reports will be freely available too. Publications might be limited to subscription owner only. In addition, data will be accessible via Zenodo. Some of the data may be protected as proprietary information by the industry partner (Wild Coast Abalone) and require their permission to access it.
4.3 Plans for making data interoperable	The data will be published in scientific language (thesis and peer-review journals) and/or published in industry reports or popular literature for applied users, and using software such as Microsoft Excel and Word, for example.
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication on Zenodo.
5. Allocation of resources	No additional costs required.
6. Data security	The data will be subject to standard security procedures prescribed by the platform on which it will be made available.
7. Ethical aspects	All data and use thereof will be subject to ethical approval per Rhodes University ethical clearance policy.
8. Other	N/A

1. Data set name	CS3 Experiment 7. Abalone growth in a Land Based IMTA system on commercial feeds incorporating biosecure IMTA grown algae.
2. Data set owner or user, link to WP and/or Case Study	Rhodes University (RhU)/Wild Coast Abalone (WiCoAb)/Marifeed (Mfeed) (South Africa) CS3, CS4 and WP2
3. Data set summary	Growth performance of abalone fed pelleted diets containing IMTA grown Ulva seaweed meal in comparison with the control and reference groups. Test diets will be produced to standard by Marifeed (Pty) Ltd. Dietary Treatments a. Basal diet of 34% protein (formulated feed control) b. Basal diet supplemented with non-IMTA Ulva sp meal c. Basal diet supplemented with IMTA produced Ulva sp meal and d. Abfeed S34 pellet + Fresh non-IMTA Ulva and Gracilaria spp e. Abfeed S34 pellet + fresh IMTA Ulva and Gracilaria spp
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The analyzed data will be published in either (a) industry reports and/or (b) student theses and/or (c) peer-reviewed papers. The peer reviewed papers and industry reports and student theses will be available to the public online, using appropriate key words that will increase the chances of them being found. In addition, we will also make raw data (that was included in industry reports and/or student theses and/or peer-reviewed papers) easily accessible through the an on-line database, but only after it has been published. This will be done using Zenodo.
4.2 Plans for making data openly accessible	Student thesis will be freely available to the public and reports will be freely available too. Publications might be limited to subscription owner only. In addition, data will be accessible via Zenodo. Some of the data may be protected as proprietary information by the industry partners (Wild Coast Abalone/ Marifeed) and require their permission to access it.
4.3 Plans for making data interoperable	The data will be published in scientific language (thesis and peer-review journals) and/or published in industry reports or popular literature for applied users, and using software such as Microsoft Excel and Word, for example.
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication on Zenodo
5. Allocation of resources	No additional costs required.
6. Data security	The data will be subject to standard security procedures prescribed by the platform on which it will be made available.
7. Ethical aspects	All data and use thereof will be subject to ethical approval per Rhodes University ethical clearance policy.
8. Other	N/A

1. Data set name	CS3 Experiment 8 IMTA grown product analysis
2. Data set owner or user, link to WP and/or Case Study	Rhodes University (RhU)/Wild Coast Abalone (WiCoAb)/Marifeed (Mfeed) (South Africa) CS3, CS4 and WP2
3. Data set summary	Analysis of animal and vegetal species produced in Land based IMTA systems in experiments, 3, 4, 5, 6 and 7, in WP2. Includes chemical/biochemical, physical and biological properties.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The analyzed data will be published in either (a) industry reports and/or (b) student theses and/or (c) peer-reviewed papers. The peer reviewed papers and industry reports and student theses will be available to the public online, using appropriate key words that will increase the chances of them being found. In addition, we will also make raw data (that was included in industry reports and/or student theses and/or peer-reviewed papers) easily accessible through the an on-line database, but only after it has been published. This will be done using Zenodo.
4.2 Plans for making data openly accessible	Student thesis will be freely available to the public and reports will be freely available too. Publications might be limited to subscription owner only. In addition, data will be accessible via Zenodo. Some of the data may be protected as proprietary information by the industry partners (Wild Coast Abalone/ Marifeed) and require their permission to access it.
4.3 Plans for making data interoperable	The data will be published in scientific language (thesis and peer-review journals) and/or published in industry reports or popular literature for applied users, and using software such as Microsoft Excel and Word, for example.
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication on Zenodo
5. Allocation of resources	No additional costs required.
6. Data security	The data will be subject to standard security procedures prescribed by the platform on which it will be made available.
7. Ethical aspects	All data and use thereof will be subject to ethical approval per Rhodes University ethical clearance policy.
8. Other	N/A

1. Data set name	CS3 WP6 Environmental performance of land based IMTA at WiCoAb
2. Data set owner or user, link to WP and/or Case Study	Rhodes University (RhU)/Wild Coast Abalone (WiCoAb) (South Africa) CS3 WP6
3. Data set summary	Nutrient fluxes and nutrient budget data obtained in the production system while performing Land Based IMTA production experiments at Wild Coast Abalone (WiCoAb).
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The analyzed data will be published in either (a) industry reports and/or (b) student theses and/or (c) peer-reviewed papers. The peer reviewed papers and industry reports and student theses will be available to the public online, using appropriate key words that will increase the chances of them being found. In addition, we will also make raw data (that was included in industry reports and/or student theses and/or peer-reviewed papers) easily accessible through the an on-line database, but only after it has been published. This will be done using Zenodo.
4.2 Plans for making data openly accessible	Student thesis will be freely available to the public and reports will be freely available too. Publications might be limited to subscription owner only. In addition, data will be accessible via Zenodo. Some of the data may be protected as proprietary information by the industry partners (Wild Coast Abalone/ Marifeed) and require their permission to access it.
4.3 Plans for making data interoperable	The data will be published in scientific language (thesis and peer-review journals) and/or published in industry reports or popular literature for applied users, and using softward such as Microsoft Excel and Word, for example.
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication on Zenodo.
5. Allocation of resources	No additional costs required.
6. Data security	The data will be subject to standard security procedures prescribed by the platform on which it will be made available.
7. Ethical aspects	All data and use thereof will be subject to ethical approval per Rhodes University ethical clearance policy.
8. Other	N/A

Case Study 4	
1. Data set name	Spatial and temporal changes in zooplankton abundance in a Faroese Fjord
2. Data set owner or user, link to WP and/or Case Study	Fiskaaling (Fisk) (Faroe Islands), CS4
3. Data set summary	The dataset is an element in the investigation of the ecology in Sørvágsfjord and the mussel larval availability Two-year time series of the zooplankton community in a Faroese fjord. Weekly or biweekly sampling from April to September at three stations. The data is useful investigations on fjord ecology and mussel spawning and larval availability
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The data will be available as csv files at Envofar, Environmental data on terrestrial and marine ecosystems in the Faroe Islands http://www.envofar.fo/ Metadata will be provided with the datasets
4.2 Plans for making data openly accessible	The data will be publicly available at http://www.envofar.fo/
4.3 Plans for making data interoperable	The data will be presented in standard vocabulary to allow inter-disciplinary interoperability.
4.4 Plans for making data re-usable (through clarifying licenses)	All data on ENVOFAR are freely available to anybody interested, but should be acknowledged by reference to the data generating institution
5. Allocation of resources	A few working hours are expected to prepare and generate the data
6. Data security	These data are not sensitive, they will follow Envofar guidelines for data security.
7. Ethical aspects	No known ethical aspects
8. Other	NA

1. Data set name	Spatial and temporal changes in nutrient availability and Chl a concentration in a Faroese Fjord
2. Data set owner or user, link to WP and/or Case Study	Fiskaaling (Fisk) (Faroe Islands), CS4
3. Data set summary	The dataset is an element in the investigation of the natural nitrogen and carbon cycle in Sørvágsfjord Two-year time series of seawater nitrate, silicate, phosphorous and Chl a content in in a Faroese fjord. Weekly or biweekly sampling from April to September at four depths at two stations. The data would be useful investigations on fjord ecology
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The data will be available as csv files at Envofar, Environmental data on terrestrial and marine ecosystems in the Faroe Islands http://www.envofar.fo/ Metadata will be provided with the datasets
4.2 Plans for making data openly accessible	The data will be publicly available at http://www.envofar.fo/
4.3 Plans for making data interoperable	The data will be presented in standard vocabulary to allow inter-disciplinary interoperability.
4.4 Plans for making data re-usable (through clarifying licenses)	All data on ENVOFAR are freely available to anybody interested, but should be acknowledged by reference to the data generating institution
5. Allocation of resources	A few working hours are expected to prepare and generate the data
6. Data security	These data are not sensitive, they will follow Envofar guidelines for data security.
7. Ethical aspects	No known ethical aspects
8. Other	NA

1. Data set name	Spat settlement and growth of blue mussels longlines in a Faroese fjord
2. Data set owner or user, link to WP and/or Case Study	Fiskaaling (Fisk) (Faroe Islands), CS4
3. Data set summary	The dataset is an element in the investigation of the IMTA potential in Sørvágsfjord Regular investigations of mussel abundance and growth at a pilot long line mussel farm. The data is useful in investigations on the growth and IMTA potential of blue mussels
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The analyzed data is published in a technical report and is freely available in the publication archive at Fiskaaling. https://www.fiskaaling.fo/media/2759/2021_blue-mussel-report.pdf ISBN: 978-99918-3-671-3 and is uploaded on Zenodo
4.2 Plans for making data openly accessible	The data is available on Zenodo: https://zenodo.org/record/6563038#.YoYaF-1ByUk Report linked to the data is also available on Zenodo: https://zenodo.org/record/6563040#.YoYaZe1ByUk
4.3 Plans for making data interoperable	The data is presented in standard vocabulary to allow inter-disciplinary interoperability.
4.4 Plans for making data re-usable (through clarifying licenses)	Data is freely available in the report and should be acknowledged by reference to the report
5. Allocation of resources	A few working hours were used to prepare and generate the data
6. Data security	These data are not sensitive.
7. Ethical aspects	No known ethical aspects
8. Other	NA

1. Data set name	Seaweed growth on cultivation lines at a fish farm and reference site in a Faroese fjord
2. Data set owner or user, link to WP and/or Case Study	Fiskaaling (Fisk) (Faroe Islands), CS4
3. Data set summary	The dataset is an element of the investigation of the IMTA potential in Sørvágsfjord Regular investigations *Saccharina latissima* growth rates and biomass. The data is useful in investigations on the growth and IMTA potential of seaweed
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The analyzed data is published in a BS thesis at Hanover university. Title "Comparison of the growth of *Saccharina latissima* at a cultivated natural area and an aquaculture site in Sørvágsfjørður, Faroe Islands"
4.2 Plans for making data openly accessible	The collected data is presented as an appendix in the BS-thesis
4.3 Plans for making data interoperable	The is presented in standard vocabulary to allow inter-disciplinary interoperability
4.4 Plans for making data re-usable (through clarifying licenses)	Data is freely available in the BS- thesis and should be acknowledged by reference to the thesis. This BS-Thesis is also uploaded on Zenodo on free access: https://zenodo.org/record/6563042#.YoYHCu1ByUk
5. Allocation of resources	A few working hours were used to prepare and generate the data
6. Data security	These data are not sensitive.
7. Ethical aspects	No known ethical aspects
8. Other	NA

1. Data set name	Spatial and temporal changes in temperature and salinity in a Faroese Fjord
2. Data set owner or user, link to WP and/or Case Study	Fiskaaling (Fisk) (Faroe Islands), CS4
3. Data set summary	The dataset is an element in the investigation of the water exchange in Sørvágsfjord Two-year time series of CTD profiles, including temperature, salinity, fluorescent, par and oxygen in a Faroese fjord. Weekly or biweekly sampling from April to September at seven stations. The data would be useful investigations on fjord ecology
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The data will be available as csv files at Envofar, Environmental data on terrestrial and marine ecosystems in the Faroe Islands http://www.envofar.fo/ Metadata will be provided with the datasets
4.2 Plans for making data openly accessible	The data will be publicly available at http://www.envofar.fo/
4.3 Plans for making data interoperable	The data will be presented in standard vocabulary to allow inter-disciplinary interoperability.
4.4 Plans for making data re-usable (through clarifying licenses)	All data on ENVOFAR are freely available to anybody interested, but should be acknowledged by reference to the data generating institution
5. Allocation of resources	A few working hours are expected to prepare and generate the data
6. Data security	These data are not sensitive, they will follow Envofar guidelines for data security.
7. Ethical aspects	No known ethical aspects
8. Other	NA

1. Data set name	Sorvag Currents
2. Data set owner or user, link to WP and/or Case Study	Luna (Faroe Islands) CS4
3. Data set summary	The dataset is an element in the investigation of the water exchange in Sørvágsfjord A two months time series of current profile in a Faroese fjord. The data would be useful investigations on fjord ecology
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The data will be available as csv files at Envofar, Environmental data on terrestrial and marine ecosystems in the Faroe Islands http://www.envofar.fo/ Metadata will be provided with the datasets
4.2 Plans for making data openly accessible	The data will be publicly available at http://www.envofar.fo/
4.3 Plans for making data interoperable	The data will be presented in standard vocabulary to allow inter-disciplinary interoperability.
4.4 Plans for making data re-usable (through clarifying licenses)	All data on ENVOFAR are freely available to anybody interested, but should be acknowledged by reference to the data generating institution
5. Allocation of resources	A few working hours are expected to prepare and generate the data
6. Data security	These data are not sensitive, they will follow Envofar guidelines for data security.
7. Ethical aspects	No known ethical aspects
8. Other	NA

1. Data set name	Sorvag fish farm data
2. Data set owner or user, link to WP and/or Case Study	CS 4 P/F Luna (Faroe Islands) (Marjun Wilhelm; IRG; marjun.wilhelm@luna.fo)
3. Data set summary	Data include fish biomass and feed usage at a commercial fish farm in the Faroe Islands during one production cycle. The data will be used in modeling the waste production at the farm.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The analyzed data will be published in a peer-reviewed paper.
4.2 Plans for making data openly accessible	The open access peer reviewed paper will also be available to the public at www.fiskaaling.fo and/or in open access peer reviewed papers.
4.3 Plans for making data interoperable	The data will be published in scientific language in peer-review journals.
4.4 Plans for making data re-usable (through clarifying licenses)	Unanalyzed data will not be publically available due to the industrial sensitivity of the data. However, they will be available for research purposes by request to Marjun Wilhelm, IRG at Luna. marjun.wilhelm@luna.fo
5. Allocation of resources	No additional costs required.
6. Data security	N/A
7. Ethical aspects	All data will be subject to ethical approval if applicable.
8. Other	N/A

1. Data set name	Deployment of seeded Saccharina latissima longline on abalone grow out farm.
2. Data set owner or user, link to WP and/or Case Study	France Haliotis (FrHa) (France), CS4, WP3
3. Data set summary	Biomass produced per linear meter of long line.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The dataset will be uploaded to Zenodo website The dataset will be recorded in a CSV format and will be accompanied by a methodological note.
4.2 Plans for making data openly accessible	Dataset will be made openly available in Zenodo.
4.3 Plans for making data interoperable	Dataset will be in English
4.4 Plans for making data re-usable (through clarifying licenses)	The dataset will be made openly accessible and re-usable once a scientific publication will have been finalized and/or before the end of Aquavitae project in 2022 – whichever comes first.
5. Allocation of resources	The data will be made FAIR through Zenodo and should not include any specific costs other than the technician time required to format and upload the datasets. These costs will be covered by France Haliotis during the Aquavitae project.
6. Data security	No specific security requirements have been identified for this dataset.
7. Ethical aspects	There is no ethical issue identified with the data collected in this dataset.
8. Other	N/A

1. Data set name	Assessment of culture of Queen scallop Chlamys varia together with European abalone (Haliotis tuberculata) in a multi trophic system at sea
2. Data set owner or user, link to WP and/or Case Study	France Haliotis (FrHa) (France), CS4, WP3
3. Data set summary	Effect on abalone growth and survival of scallop and abalone, 3 culture densities tested for scallop.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The dataset will be uploaded to Zenodo website The dataset will be recorded in a CSV format and will be accompanied by a methodological note.
4.2 Plans for making data openly accessible	Dataset will be made openly available in Zenodo.
4.3 Plans for making data interoperable	Dataset will be in English
4.4 Plans for making data re-usable (through clarifying licenses)	The dataset will be made openly accessible and re-usable once a scientific publication will have been finalized and/or before the end of Aquavitae project in 2022 – whichever comes first.
5. Allocation of resources	The data will be made FAIR through Zenodo and should not include any specific costs other than the technician time required to format and upload the datasets. These costs will be covered by France Haliotis during the Aquavitae project.
6. Data security	No specific security requirements have been identified for this dataset.
7. Ethical aspects	There is no ethical issue identified with the data collected in this dataset.
8. Other	N/A

1. Data set name	CS4 Task 1 – Biosecurity of algae in abalone feeds
2. Data set owner or user, link to WP and/or Case Study	Rhodes University (RhU)/Marifeed (Mfeed) (South Africa), WP2
3. Data set summary	Description of microbiota on macroalgae produced in different environments, and data that quantifies the effect that various sterilization/pasteurization procedures have on (a) the survival of certain pathogenic microbes and (b) the effect that these procedures have on nutritional value of the algae and (c) subsequent growth/health data of abalone that are fed these diets.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The analyzed data will be published in either (a) industry reports and/or (b) student theses and/or (c) peer-reviewed papers. The peer reviewed papers and industry reports and student theses will be available to the public online, using appropriate key words that will increase the chances of them being found. In addition, we will also make raw data (that was included in industry reports and/or student theses and/or peer-reviewed papers) easily accessible through an on-line database, but only after it has been published. This will be done using for example Zenodo.
4.2 Plans for making data openly accessible	Student thesis will be freely available to the public and reports will be freely available too. Publications might be limited to subscription owner only. In addition, data will be accessible via a free platform such as Zenodo included as an example here only.
4.3 Plans for making data interoperable	The data will be published in scientific language (thesis and peer-review journals) and/or published in industry reports or popular literature for applied users, and using software such as Microsoft Excel and Word, for example.
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication, e.g. Zenodo.
5. Allocation of resources	No additional costs required.
6. Data security	The data will be subject to standard security procedures prescribed by the platform on which it will be made available.
7. Ethical aspects	All data and use thereof will be subject to ethical approval per Rhodes University ethical clearance policy.
8. Other	N/A

1. Data set name	CS4 Task 2 – The growth of *Gracilaria gracilis* on mussel rafts in Saldanha Bay, South Africa
2. Data set owner or user, link to WP and/or Case Study	Rhodes University (RhU)/Marifeed (Mfeed) (South Africa), WP2
3. Data set summary	Growth of gracilaria grown off existing mussel rafts will be assessed. The variable that will be assessed include (a) vertical versus horizontal ropes and (b) north versus south current and (c) distance below the surface of the water.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The analyzed data will be published in either (a) industry reports and/or (b) student theses and/or (c) peer-reviewed papers. The peer reviewed papers and industry reports and student theses will be available to the public online, using appropriate key words that will increase the chances of them being found. In addition, we will also make raw data (that was included in industry reports and/or student theses and/or peer-reviewed papers) easily accessible through an on-line database, but only after it has been published. This will be done using for example Zenodo.
4.2 Plans for making data openly accessible	Student thesis will be freely available to the public and reports will be freely available too. Publications might be limited to subscription owner only. In addition, data will be accessible via a free platform such as Zenodo included as an example here only.
4.3 Plans for making data interoperable	The data will be published in scientific language (thesis and peer-review journals) and/or published in industry reports or popular literature for applied users, and using software such as Microsoft Excel and Word, for example.
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication, e.g. Zenodo.
5. Allocation of resources	No additional costs required.
6. Data security	The data will be subject to standard security procedures prescribed by the platform on which it will be made available.
7. Ethical aspects	All data and use thereof will be subject to ethical approval per Rhodes University ethical clearance policy.
8. Other	N/A

1. Data set name	CS4 Task 3 – The growth and behaviour of farmed *Haliotis midae* fed *Gracilaria gracilis* grown in a sea-based IMTA
2. Data set owner or user, link to WP and/or Case Study	Rhodes University (RhU)/Marifeed (Mfeed) (South Africa), WP2
3. Data set summary	The growth of abalone fed three different dietary treatments will be assessed over eight months. Treatments tested include (a) Abfeed only (control) and (b) Abfeed and sea-based IMTA gracilaria and (c) Abfeed and fresh gracilaria grown on a commercial abalone farm. The effects of these treatments on abalone weight, length and feed conversion ratios will be collected. Descriptions of abalone behaviour will be described and the effects of the dietary treatments on the behaviour of abalone will be assessed.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The analyzed data will be published in either (a) industry reports and/or (b) student theses and/or (c) peer-reviewed papers. The peer reviewed papers and industry reports and student theses will be available to the public online, using appropriate key words that will increase the chances of them being found. In addition, we will also make raw data (that was included in industry reports and/or student theses and/or peer-reviewed papers) easily accessible through an on-line database, but only after it has been published. This will be done using for example Zenodo.
4.2 Plans for making data openly accessible	Student thesis will be freely available to the public and reports will be freely available too. Publications might be limited to subscription owner only. In addition, data will be accessible via a free platform such as Zenodo included as an example here only.
4.3 Plans for making data interoperable	The data will be published in scientific language (thesis and peer-review journals) and/or published in industry reports or popular literature for applied users, and using software such as Microsoft Excel and Word, for example.
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication, e.g. Zenodo.
5. Allocation of resources	No additional costs required.
6. Data security	The data will be subject to standard security procedures prescribed by the platform on which it will be made available.
7. Ethical aspects	All data and use thereof will be subject to ethical approval per Rhodes University ethical clearance policy.
8. Other	N/A

1. Data set name	CS4 Task 4 – Lobster and oyster in a multi trophic system
2. Data set owner or user, link to WP and/or Case Study	Swedish Environmental Research Institute (IVL) (Sweden), CS4
3. Data set summary	Aim: Evaluate co-cultivation of the European lobster (*Homarus gammarus*) and the European flat oyster (*Ostrea edulis*) in sea-based systems. Data will be collected in Sweden and shall be associated with the potential for co-cultivation of the European lobster (*Homarus gammarus*) and the European flat oyster (*Ostrea edulis*) in sea-based systems adapted to local conditions. The data will include growth and survival of lobster juveniles and oysters in different systems and at different depths. Data will generate new knowledge and techniques for ongrowing cultivation methods for lobster juveniles with respect to cost efficiency, sustainability and quality of animals and will include data related to the improvement of oyster farming with regards to managing biofouling during the grow out stage.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable. The analyzed data will be published in either (a) industry reports and/or (b) student theses and/or (c) peer-reviewed papers. The published papers and/or reports will be available to the public online, using appropriate key words that will increase the chances of them being found.
4.2 Plans for making data openly accessible	Dataset will be uploaded on a public repository, e.g. Zenodo. If applicable, the student theses and industry reports will be freely available to the public. Scientific publications might be limited to subscription owners only.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv) The data will be published in scientific language (thesis and peer-review journals, if applicable) and/or published in industry reports or popular literature for applied users.
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs expected.
6. Data security	The data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	No ethical aspects known, but all data and use thereof will be subject to ethical approval if applicable.
8. Other	N/A

Case Study 5	
1. Data set name	Biofloc
2. Data set owner or user, link to WP and/or Case Study	Federal University of Santa Catarina (UFSC), Federal University of Rio Grande (FURG) CS5
3. Data set summary	Aim: Enhance the Biofloc Technology by adjustments of production parameters and design and validate a shrimp rearing in IMTA system in biofloc and pond base. We will evaluate different systems to shrimp rearing in biofloc and IMTA using biofloc and pond based. Shrimp rearing in biofloc system will be performed at FURG (Rio Grande/RS) and IMTA in biofloc (shrimp, mullet and seaweed) at FURG and UFSC (Florianópolis/SC). Data will include system performance (shrimp, fish,and seaweed), yield and water quality parameters. Data will be used to evaluate different shrimp production systems.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The raw data will be made accessible through a general open access repository e.g. Zenodo as soon as the data has been published and/or any database specified by the AV data manager.
4.2 Plans for making data openly accessible	Standard formats of data will be made available (word, excel, .csv). No special or specific software will be required to access the data. Any data that is commercially sensitive to members of the AquaVitae industry partners or members of the IRG will be withheld (on request of the partner or IRG member).
4.3 Plans for making data interoperable	We will use standard database, like docx, xlsx and csv.
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication.
5. Allocation of resources	We do not expect to need extra resources for that. We will have simple data.
6. Data security	Data will be hosted by UFSC and FURG who will follow data security instructions given by Brazilian and European institutions recommendations and the regulations of the European Union funded projects.
7. Ethical aspects	Data will be anonymized before publication. All ethical aspects related to research required by the Brazilian law will be attended as well as the guidelines laid out in the AquaVitae Ethics Deliverables.
8. Other	N/A

1. Data set name	Biofloc IMTA
2. Data set owner or user, link to WP and/or Case Study	Federal University of Santa Catarina (UFSC) CS5
3. Data set summary	Aim: Enhance the Biofloc Technology by adjustments of production parameters and design and validate a shrimp rearing in IMTA system in biofloc. We will evaluate different systems to shrimp rearing in biofloc and IMTA using biofloc. The IMTA in biofloc (shrimp, mullet and seaweed) will be performed at UFSC (Florianópolis/SC). Data will include system performance (shrimp, fish, and seaweed), yield and water quality parameters. Data will be used to evaluate different shrimp production systems.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Data link on Zenodo: https://zenodo.org/record/4697893#.YnDv0k1ByUl Paper link on Zenodo: https://zenodo.org/record/4694699#.YnDwsk1ByUk
4.2 Plans for making data openly accessible	Standard formats of data are made available (word, excel, .csv). No special or specific software is required to access the data. Any data that is commercially sensitive to members of the AquaVitae industry partners or members of the IRG will be withheld (on request of the partner or IRG member).
4.3 Plans for making data interoperable	Standard database is used, like docx, xlsx and csv.
4.4 Plans for making data re-usable (through clarifying licenses)	The data are publicly available.
5. Allocation of resources	No need of extra resources for that. We have simple data.
6. Data security	Data will be hosted by UFSC and FURG who will follow data security instructions given by Brazilian and European institutions recommendations and the regulations of the European Union funded projects For the Zenodo upload the data security is insured by Zenodo
7. Ethical aspects	Data were anonymized before publication. All ethical aspects related to research required by the Brazilian law were attended as well as the guidelines laid out in the AquaVitae Ethics Deliverables.
8. Other	N/A

1. Data set name	Designing shrimp-seaweed-oyster IMTA in tropical ponds
2. Data set owner or user, link to WP and/or Case Study	São Paulo State University (UNESP) and Brazilian Agricultural Research Corporation (Embrapa) (Brazil) CS5
3. Data set summary	To design and validate a shrimp - seaweed-oyster IMTA production system on a commercial scale to enhance profitability, ensure sustainability and promote the circular economy of aquaculture enterprises besides conserving natural resources.
4. FAIR Data (Findable, Accessible, Interoperable, Re-usable)	
4.1 Plans for making data findable	All information will be recorded in Excel data document, according to sampling schedule with spatial and temporal description, specifying units.
4.2 Plans for making data openly accessible	At the end of the work and after publications in open journals, all data will be available in a general repository e.g. Zenodo.
4.3 Plans for making data interoperable	Standard formats of data will be made available (Word and Excel).
4.4 Plans for making data re-usable (through clarifying licenses)	Data will be available after publications, in a standardized format.
5. Allocation of resources	No extra costs are required.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations and the regulations of the European Union funded projects.
7. Ethical aspects	All ethical aspects related to research required by the Brazilian law will be attended as well as the guidelines laid out in the AquaVitae Ethics Deliverables. It refers to interviews that will be necessary to obtain social and economic data for calculating sustainability index.
8. Other	No.

Case Study 6	
1. Data set name	Sea urchin transport and roe enhancement results (Norway)
2. Data set owner or user, link to WP and/or Case Study	Nofima (Norway) CS6 Links to WP2 and WP3
3. Data set summary	The research aims to commercialize sea urchin roe enhancement in Europe and Canada. Dataset of sea urchin roe enhancement results for 1. Norway 2. Spain (confidential) Some existing data from previous projects will be used together with information supplied by industry partners. This data will be useful to industry partners involved in this Case Study Data will be primarily on survival, size, weight and change in gonad index over time.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The raw data will be made accessible through a general open access repository e.g. Zenodo as soon as the data has been published and/or any database specified by the AV data manager. Keywords will be chosen carefully, DOI will be used when applicable. Standard naming conventions will be followed, and choice of key words will be carefully considered. No metadata will be generated. Sea urchin transport data: https://zenodo.org/record/6244243#.YmeePihByUk
4.2 Plans for making data openly accessible	Standard formats of data will be made available (word, excel, .csv). No special or specific software will be required to access the data. Any data that is commercially sensitive to members of the AquaVitae industry partners or members of the IRG will be withheld (on request of the partner or IRG member).
4.3 Plans for making data interoperable	The data will be publicly available after publication. A standardized format and vocabulary for the data will be set up to facilitate the use of data by others.
4.4 Plans for making data re-usable (through clarifying licenses)	All data will be available unless specified as commercially sensitive in which case it will not be made available in the database. The data produced and/or used in the project is useable by third parties (excluding commercially sensitive data as described in 4.2). The data will remain usable as long as it is relevant and or requested.
5. Allocation of resources	No data management FAIR costs are expected. The CS leader will be responsible for this data. There will be no costs associated with long term preservation of this data.
6. Data security	Data will be hosted by Nofima and will adhere fully to guidelines for data security
7. Ethical aspects	Data will be anonymized before publication
8. Other	n/a

1. Data set name	Sea urchin feed data
2. Data set owner or user, link to WP and/or Case Study	Nofima (Norway) CS6 Algafres (Spain) Spanish data sets are confidential to external industry stakeholder Links to WP2 and WP3
3. Data set summary	These data sets will contain results from feed trials carried out in Norway on *Strongylocentrotus droebachiensis*. The results will show the increase in GI resulting from a variety of feeds, including feeds produced by the AquaVitae partner Marifeed. Spanish data sets on *Paracentrotus lividus* will also be available but may be confidential to external industry stakeholder This data will be useful to industry partners involved in this Case Study during the project and beyond.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The raw data will be made accessible through a general open access repository e.g. Zenodo as soon as the data has been published and/or any database specified by the AV data manager. Keywords will be chosen carefully, DOI will be used when applicable. Standard naming conventions will be followed, and choice of key words will be carefully considered No metadata will be generated
4.2 Plans for making data openly accessible	Standard formats of data will be made available (word, excel, .csv). No special or specific software will be required to access the data Any data that is commercially sensitive to members of the AquaVitae industry partners or members of the IRG will be withheld (on request of the partner or IRG member)
4.3 Plans for making data interoperable	The data will be publicly available after publication. A standardized format and vocabulary for the data will be set up to facilitate the use of data by others
4.4 Plans for making data re-usable (through clarifying licenses)	All data will be available unless specified as commercially sensitive in which case it will not be made available in the database. The data produced and/or used in the project is useable by third parties (excluding commercially sensitive data as described in 4.2) The data will remain usable as long as it is relevant and or requested
5. Allocation of resources	No data management FAIR costs are expected The CS leader will be responsible for this data There will be no costs associated with long term preservation of this data.
6. Data security	Data will be hosted by Nofima and will adhere fully to guidelines for data security
7. Ethical aspects	Data will be anonymized before publication
8. Other	n/a

1. Data set name	Sea urchin roe enhancement protocols (factsheets)
2. Data set owner or user, link to WP and/or Case Study	Nofima (Norway) CS6 Links to WP2 and WP3
3. Data set summary	Factsheet defining protocols for sea urchin roe enhancement (feed rates, water flows, cleaning and feeding regimes). The factsheets will including stress factors that may be used for welfare & health indicators. Some existing data from previous projects will be used together with information supplied by industry partners. This data will be useful to industry partners involved in this Case Study and stakeholders both during the project and beyond.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The raw data will be made accessible through a general open access repository e.g. Zenodo as soon as the data has been published and/or any database specified by the AV data manager. Keywords will be chosen carefully, DOI will be used when applicable. Standard naming conventions will be followed, and choice of key words will be carefully considered. No metadata will be generated.
4.2 Plans for making data openly accessible	Standard formats of data will be made available (word, excel, .csv). No special or specific software will be required to access the data. Any data that is commercially sensitive to members of the AquaVitae industry partners or members of the IRG will be withheld (on request of the partner or IRG member).
4.3 Plans for making data interoperable	The data will be publicly available after publication. A standardized format and vocabulary for the data will be set up to facilitate the use of data by others.
4.4 Plans for making data re-usable (through clarifying licenses)	All data will be available unless specified as commercially sensitive in which case it will not be made available in the database. The data produced and/or used in the project is useable by third parties (excluding commercially sensitive data as described in 4.2). The data will remain usable as long as it is relevant and or requested.
5. Allocation of resources	No data management FAIR costs are expected. The CS leader will be responsible for this data. There will be no costs associated with long term preservation of this data.
6. Data security	Data will be hosted by Nofima and will adhere fully to guidelines for data security.
7. Ethical aspects	Data will be anonymized before publication.
8. Other	n/a

Case Study 7	
1. Data set name	Sea cucumber expert's species of interest
2. Data set owner or user, link to WP and/or Case Study	Alfred Wegener Institute (AWI) (Germany) CS7 Links to WP3 and CS7
3. Data set summary	The research aims to identify sea cucumber species of interest in South Africa and possibly Brazil. Dataset of market values, local names, purchasers and fishery areas for sea cucumber species of commercial interest for IMTA. Data will include expert opinions on whether the animals associate with aquaculture sites.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	A metadata sheet will be provided in the beginning of each excel data document, specifying parameter number, name, short name, units and comments/factors mentioned in the data, as well as who collected the data, where and when. The raw data (anonymized) will be made accessible through the AWI-dedicated on-line database, PANGAEA (https://pangaea.de) as soon as the data has been published and/or any database specified by the AV data manager. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	The raw data will be made accessible through the AWI-dedicated on-line database, PANGAEA (https://pangaea.de) as soon as the data has been published and/or any database specified by the AV data manager. Keywords will be chosen carefully, DOI will be used when applicable.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv) and will apply standardized international measures (Density per m2, standard physicochemical parameters…)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others
5. Allocation of resources	No data management FAIR costs are expected. AWI has free access to PANGAEA and virtually unlimited storage available.
6. Data security	Data will be hosted by PANGAEA and will adhere fully to guidelines for data security.
7. Ethical aspects	Data will be anonymized before publication
8. Other	n/a

1. Data set name	Sea cucumber hatchery species of interest survey
2. Data set owner or user, link to WP and/or Case Study	Alfred Wegener Institute (AWI) (Germany) CS7 Links to WP3 and CS7
3. Data set summary	The research aims to verify sea cucumber species of interest in South Africa and possibly Brazil. Dataset (developing over time) of site specifics for surveyed sites for sea cucumbers in South Africa and possibly Brazil. Data will be primarily on-site characteristics (facies, depth, water parameters, and density of sea cucumbers).
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	A metadata sheet will be provided in the beginning of each excel data document, specifying parameter number, name, short name, units and comments/factors mentioned in the data, as well as who collected the data, where and when. The raw data will be made accessible through the AWI-dedicated on-line database, PANGAEA (https://pangaea.de) as soon as the data has been published and/or any database specified by the AV data manager. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	The raw data will be made accessible through the AWI-dedicated on-line database, PANGAEA (https://pangaea.de) as soon as the data has been published and/or any database specified by the AV data manager. Keywords will be chosen carefully, DOI will be used when applicable.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv) and will apply standardized international measures (Density per m2, standard physicochemical parameters...)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others
5. Allocation of resources	No data management FAIR costs are expected. AWI has free access to PANGAEA and virtually unlimited storage available.
6. Data security	Data will be hosted by PANGAEA and will adhere fully to guidelines for data security.
7. Ethical aspects	None
8. Other	n/a

1. Data set name	Sea cucumber hatchery growth results
2. Data set owner or user, link to WP and/or Case Study	Alfred Wegener Institute (AWI) (Germany) CS7 Links to WP1 and CS7
3. Data set summary	The research aims to verify hatchery techniques to grow larval sea cucumbers though to juveniles. Dataset (developing over time) of hatchery production of sea cucumbers in South Africa and possibly Brazil. Data will be primarily on growth and survival of sea cucumbers.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	A metadata sheet will be provided in the beginning of each excel data document, specifying parameter number, name, short name, units and comments/factors mentioned in the data, as well as who collected the data, where and when. The raw data will be made accessible through the AWI-dedicated on-line database, PANGAEA (https://pangaea.de) as soon as the data has been published and/or any database specified by the AV data manager. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	The raw data will be made accessible through the AWI-dedicated on-line database, PANGAEA (https://pangaea.de) as soon as the data has been published and/or any database specified by the AV data manager. Keywords will be chosen carefully, DOI will be used when applicable.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv) and will apply standardized international measures (Growth, Specific Growth Rates...)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others
5. Allocation of resources	No data management FAIR costs are expected. AWI has free access to PANGAEA and virtually unlimited storage available.
6. Data security	Data will be hosted by PANGAEA and will adhere fully to guidelines for data security.
7. Ethical aspects	None
8. Other	n/a

1. Data set name	CS7 WP1 Reproduction of Sea Cucumber *Neostichopus grammatus*
2. Data set owner or user, link to WP and/or Case Study	Rhodes University (RhU)/Wild Coast Abalone (WiCoAb) (South Africa) CS7 WP1
3. Data set summary	Data from experiments to breed sea cucumber *Neostichopus grammatus* under controlled aquaculture conditions
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The analyzed data will be published in either (a) industry reports and/or (b) student theses and/or (c) peer-reviewed papers. The peer reviewed papers and industry reports and student theses will be available to the public online, using appropriate key words that will increase the chances of them being found. In addition, we will also make raw data (that was included in industry reports and/or student theses and/or peer-reviewed papers) easily accessible through the an on-line database, but only after it has been published. This will be done using Zenodo.
4.2 Plans for making data openly accessible	Student thesis will be freely available to the public and reports will be freely available too. Publications might be limited to subscription owner only. In addition, data will be accessible via Zenodo. Some of the data may be protected as proprietary information by the industry partners (Wild Coast Abalone/ Marifeed) and require their permission to access it.
4.3 Plans for making data interoperable	The data will be published in scientific language (thesis and peer-review journals) and/or published in industry reports or popular literature for applied users, and using software such as Microsoft Excel and Word, for example.
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication on Zenodo.
5. Allocation of resources	No additional costs required.
6. Data security	The data will be subject to standard security procedures prescribed by the platform on which it will be made available.
7. Ethical aspects	All data and use thereof will be subject to ethical approval per Rhodes University ethical clearance policy.
8. Other	N/A

Case Study 8	
1. Data set name	Evaluation of juvenile oyster (*Ostrea edulis*) production (CS8, T8.1)
2. Data set owner or user, link to WP and/or Case Study	Galway-Mayo Institute of Technology (GMIT) (Ireland), CS8, WP1
3. Data set summary	Evaluation of juvenile oyster production for the native European flat oyster *O. edulis*. Data will be collected from pond production of oysters at Cartron Point Shellfish, Ireland. In conjunction with GMIT & IVL
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo**,** a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	Evaluation of different settlement substrates for field-based collection of *Ostrea edulis*. (CS8, T8.2)
2. Data set owner or user, link to WP and/or Case Study	Swedish Environmental Research Institute (IVL) (Sweden), CS8
3. Data set summary	Aim: Evaluate different types of settlement substrates for field-based collection of Ostrea edulis. Different types of substrate (shells of different species etc.) will be placed in the sea and the survival and number of spat attached to the substrates will be evaluated. Growth and species identification (O. edulis versus M. gigas) will also be documented. Data will originate from the Swedish west coast. The data will be used to develop a protocol for optimal techniques for field based spat collection of oysters in Sweden.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo**,** a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	Pond based production of oyster spat (*Ostrea edulis*) (CS8, T8.1)
2. Data set owner or user, link to WP and/or Case Study	Swedish Environmental Research Institute (IVL), Bohus havsbruk (BoHu) (Sweden), CS8
3. Data set summary	Aim: Evaluate protocol for extensive pond production of oyster spat to ensure a reliable supply of high-quality oyster seed (Ostrea edulis) Oysters will be placed in ponds or land-based tanks and let to spawn under optimal conditions. Field measurements of temperature, salinity, pH, alkalinity, oxygen, microalgal content and larval density in the water will be collected. Also, data on timing and success rate of settlement (survival) will be collected and summarised in an excel document. Data will be compiled on regular intervals during the summer and autumn months. Data will originate from the Swedish west coast. The data can be useful to develop protocols and evaluate techniques for spat production for oyster farmers as well as researchers.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo**,** a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data for others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	Low-tech nursery system for *Ostrea edulis.* (CS8, T8.1)
2. Data set owner or user, link to WP and/or Case Study	Swedish Environmental Research Institute (IVL), Orust shellfish (Sweden), CS8
3. Data set summary	Aim: Develop and evaluate low-tech nursery systems for Ostrea edulis. Evaluation of sea-based, low-tech nursery systems. Data will involve growth and survival of oysters. Data will involve growth and survival of oysters. Data will originate from the Swedish west coast. The data can be useful to develop protocols and evaluate techniques for oyster aquaculture for oyster farmers as well as researchers.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo**,** a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data for others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	Evaluation of new grow-out systems for oysters. (CS8, T8.3)
2. Data set owner or user, link to WP and/or Case Study	Swedish Environmental Research Institute (IVL), Bohus Havsbruk (BoHu), Orust Shellfish (Sweden), CS8
3. Data set summary	Aim: Develop and evaluate new grow-out systems for oysters (Ostrea edulis). New grow-out systems will be developed and evaluated in the field. Data will include growth and survival of oysters in different systems. Data will originate from the Swedish west coast.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo**,** a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	Quantification of settling period for calcifying fouling organisms e.g. *Spirobranchus triqueter* (CS8, T8.3)
2. Data set owner or user, link to WP and/or Case Study	Swedish Environmental Research Institute (IVL), Bohus Havsbruk (BoHu) (Sweden), CS8
3. Data set summary	Aim: To quantify when the settling period of the calcifying worm (*Spirobranchus triqueter*) occur on bivalves in Sweden. Ropes are put out in to the sea in June-November 2020 and March-December 2021 with coupelles and mussel shells attached to them. Once a month, the ropes will be changed, and taken to the lab to study fouling. The data will consist of parameters associated with field conditions (temperature, depth) and species identification of fouling, number of worms and length of tubes. Data will originate from the Swedish west coast. The data will be used to evaluate when it is most effective to treat the bivalves with fouling and is applicable to both mussel and oyster aquaculture.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo, a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	Developing and testing protocols for fouling treatments on oysters
2. Data set owner or user, link to WP and/or Case Study	Swedish Environmental Research Institute (IVL), Bohus Havsbruk (BoHu) (Sweden), CS8
3. Data set summary	Aim: Develop protocols for effective fouling treatment on oysters in the lab. Fouling treatments will be evaluated using lab trials for evaluation of effects of heat treatment of fouling organisms on oysters. A range of different temperatures and exposure times will be evaluated. The data will consist of parameters associated with the treatments (temperature, salinity) and survival of different sizes of oysters, survival of fouling organisms. Data will originate from the Swedish west coast. The data will be used to evaluate an optimal technique to minimize fouling problems in oyster production in Sweden.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an online database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data may also be published in Zenodo
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	Evaluation of oyster sea-based seed collectors. (CS8, T8.2)
2. Data set owner or user, link to WP and/or Case Study	Brazilian Agricultural Research Corporation (Embrapa) (Brazil), CS8
3. Data set summary	Aim: Evaluate of different artificial collector for oysters' seeds (*Crassostrea gasar*). Evaluation of different texture treatments in traditional Brazilian collectors handmade from plastic bottles used in tropical waters from the Brazilian North and Northeast coast. The best treatment obtained after one year of data collection will be compared to collectors used commercially in Europe during a 12 months field trial in which the number of seeds collected and the cost of each type of artificial collector will be quantified.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The arrangements for making data accessible will be based on CS leader's steps. An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo**,** a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU and Brazil will be followed.
8. Other	N/A

1. Data set name	Development of hatchery techniques for *Crassostrea gasar* (CS8, T8.1)
2. Data set owner or user, link to WP and/or Case Study	Brazilian Agricultural Research Corporation (Embrapa) (Brazil), CS8
3. Data set summary	Aim: Development of hatchery techniques for *Crassostrea gasar* seed supplies, including maturation and conditioning using salinity manipulation. A protocol for maturation and conditioning using salinity manipulation for *C. gasar* will be developed based on review of existing literature and data from previous projects. The protocol will be tested and evaluated by university partners in southern Brazil, refined by Embrapa and then transferred to industry partner
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The arrangements for making data accessible will be based on CS leader's steps. An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo**,** a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU and Brazil will be followed.
8. Other	N/A

1. Data set name	Revise the estuarine water collection and treatment structure, to improve the water quality of the Primar hatchery of Crassostrea gasar (CS8, T8.1)
2. Data set owner or user, link to WP and/or Case Study	Primar Aquaculture (PrAq) (Brazil) CS8
3. Data set summary	Aim: Refine hatchery production by improving water quality Based on the review of previous projects and literature, we will draft a system to improve catchment structure and treatment of estuarine waters that are used in Primar's hatchery. Data will originate from the northeast of Brazil. The data can be useful to develop protocols and evaluate techniques for treatment of estuarine waters for hatcheries as well as researchers.
4. FAIR Data (Findable, Accessible, Interoperable, Re-usable)	
4.1 Plans for making data findable	The arrangements for making data accessible will be based on CS leader's steps. An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo, a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data for others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU and Brazil will be followed.
8. Other	N/A

1. Data set name	Native microalgae feed for larvae of Crassostrea gasar (CS8, T8.1)
2. Data set owner or user, link to WP and/or Case Study	Primar Aquaculture (PrAq) (Brazil) CS8
3. Data set summary	Aim: Enhance feeding protocols for oyster larvae and seeds. Based on literature review, the feeding of oyster larvae and seeds will be reviewed. Samples with native micro algae will be collected in the environment, isolated and placed in experimental production, for subsequent tests, evaluations and adjustments before pilot production of native micro algae for feeding of C. gasar. Data will originate from the northeast of Brazil. The data can be useful to develop protocols and evaluate techniques for spat production for oyster hatcheries as well as researchers.
4. FAIR Data (Findable, Accessible, Interoperable, Re-usable)	
4.1 Plans for making data findable	The arrangements for making data accessible will be based on CS leader's steps. An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo, a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data for others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU and Brazil will be followed.
8. Other	N/A

Case Study 9	
1. Data set name	Mussel hatchery production (Ireland & Denmark)
2. Data set owner or user, link to WP and/or Case Study	Technical University of Denmark (DTU) (Denmark), Cartron Point Shellfish Ltd (CPS) (Ireland), WP1 Leader Case study 9 (CS9) – Hatchery production of mussel's seed
3. Data set summary	- Collection of mussel biomass growth data from hatchery derived production - Biomass samples will be collected and processed in terms of e.g. morphometrics and total biomasses. Processed data will be stored in Excel-files or similar. - No existing datasets are expected to be included. - Dataset will be relevant for other mussel and fish farmers and shellfish hatchery operators
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Data will be findable through open access articles and reports.
4.2 Plans for making data openly accessible	Data will be publicly available in open access articles either in condensed tables or as raw data in supplemental material and uploaded to a general repository e.g. Zenodo.
4.3 Plans for making data interoperable	The data is interoperable and can be assessed by standard programs like Excel, text edit etc.
4.4 Plans for making data re-usable (through clarifying licenses)	Data will be publicly available in open access articles or by request to DTU Aqua.
5. Allocation of resources	No additional costs required.
6. Data security	Data are hosted by DTU Aqua and follows DTU's guidelines for data security according to EU *General Data Protection Regulation* (*GDPR*).
7. Ethical aspects	No known ethical aspects.
8. Other	NA

1. Data set name	Developing and testing protocols for fouling treatments on *Mytilus edulis*.
2. Data set owner or user, link to WP and/or Case Study	Swedish Environmental Research Institute (IVL), Bohus Havsbruk (BoHu) (Sweden), CS9
3. Data set summary	Aim: Develop protocols for effective fouling treatment on mussels (Mytilus edulis) in the lab. Fouling treatments will be evaluated using lab trials (in tanks) for evaluation of effects of heat treatment of fouling organisms on mussels. A range of different temperatures and exposure times will be evaluated. The most promising treatments will then be evaluated in field conditions at industry scale (in large tanks where mussels are submerged temporarily). The data will consist of parameters associated with the treatments (temperature, salinity) and survival of mussels, survival of fouling organisms/fouling cover of mussel shells over time. Data will originate from the Swedish west coast. The data will be used to evaluate an optimal technique to minimize fouling problems in mussel production in Sweden.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data may also be published in Zenodo, a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

Case Study 10	
1. Data set name	Reproduction of *Arapaima gigas*
2. Data set owner or user, link to WP and/or Case Study	Brazilian Agricultural Research Corporation (Embrapa) (Brazil) Lucas Simon Torati CS10
3. Data set summary	Objective: To characterize and evaluate the structural diversity of intermuscular bones (IBs) in 10-month-old tambaqui specimens by X-ray imaging, to characterize the IB formation, development and diversification stages in tambaqui fingerlings 1 to 60 days after hatching through clearing for the following three stages identified during the clearing process: I - connective tissue + muscle without IBs, II - muscle tissue with partial IBs, and III - muscle tissue with complete and diversified IBs. These analyses therefore will evaluate images (X-ray and cleared specimens; raw data) and extract information from it into Excel spreadsheet. Data for this study should include fish family, size, weight, age, number and types of IBs. This study will occur at Palmas-AM (Brazil). Data will be used to understand the structural morphology and variability of IBs will help support tambaqui breeding programs in which selection for the reduction of IBs may be viable from the viewpoint of genetic gains.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Data will be made available in Excel format and raw data in tiff format (images). An initial spreadsheet summarizing the data (metadata) set will be made available, including a short explanation for the factors in the data set, person responsible for the data collection and curation. Datasheet will make use of “The International System of Units (SI)” and will follow the Code of Zoological Nomenclature (ICZN) for naming animal species. Raw data will be supplied at an open globally scoped online data repository (Zenodo) as soon as it becomes published. Keywords will be selected based on specific usage and following an international glossary of ichthyology. A DOI number will be used when this applies to the data set.
4.2 Plans for making data openly accessible	Data sets will be uploaded in Zenodo.
4.3 Plans for making data interoperable	Whenever it applies, metadata provided will include reference to other metadata, especially if it concerns results from different experiments of AV project.
4.4 Plans for making data re-usable (through clarifying licenses)	By making data set available in an open repository, it will become available for re-use by others. In order to increase possibility of reuse by others, metadata should be written/explained in a clear, accurate and standard manner. A clear and accessible data usage license should also be provided in the metadata.
5. Allocation of resources	NA
6. Data security	After hosted in Zenodo, data will comply with its security system and guidelines.
7. Ethical aspects	No known ethical aspects.
8. Other	NA

1. Data set name	Reproduction of *Arapaima gigas*
2. Data set owner or user, link to WP and/or Case Study	Brazilian Agricultural Research Corporation (Embrapa) (Brazil) Lucas Simon Torati CS10
3. Data set summary	Objective: Development of protocols for the captive reproduction of the giant fish *A. gigas* will be based on tests of different hormonal and/or environmental therapies. These different therapies will be applied into different couples of fish (statistical units) allocated in earth ponds, or also on individual fish when aiming at the collection of gametes. Data for different treatments before and after treatments shall include variables such as hormonal levels in blood plasma, morphometric data of oocytes, and quality parameters of the collected gametes. These experiments will occur at Palmas-TO (Brazil). Data will be used to distinguish the best treatments and protocols for use in the reproduction of *A. gigas.*
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Data will be made available in Excel format. An initial spreadsheet summarizing the data (metadata) set will be made available, including a short explanation for the factors in the data set, person responsible for the data collection and curation. Datasheet will make use of "The International System of Units (SI)" and will follow the Code of Zoological Nomenclature (ICZN) for naming animal species. Raw data will be supplied at an open globally scoped online data repository (Zenodo) as soon as it becomes published. Keywords will be selected based on specific usage and following an international glossary of ichthyology. A DOI number will be used when this applies to the data set.
4.2 Plans for making data openly accessible	Data sets will be uploaded in Zenodo.
4.3 Plans for making data interoperable	Whenever it applies, metadata provided will include reference to other metadata, especially if it concerns results from different experiments of AV project.
4.4 Plans for making data re-usable (through clarifying licenses)	By making data set available in an open repository, it will become available for re-use by others. In order to increase possibility of reuse by others, metadata should be written/explained in a clear, accurate and standard manner. A clear and accessible data usage license should also be provided in the metadata.
5. Allocation of resources	NA
6. Data security	After hosted in Zenodo, data will comply with its security system and guidelines.
7. Ethical aspects	No known ethical aspects.
8. Other	NA

1. Data set name	Reproduction of *Arapaima gigas*
2. Data set owner or user, link to WP and/or Case Study	Brazilian Agricultural Research Corporation (Embrapa) (Brazil) Lucas Simon Torati CS10
3. Data set summary	Objective: Development of an efficient protocol for large-scale production of triploid tambaqui *C. macropomum* will be based on different trials testing the effect of different temperature shocks on the retention of the second polar body at the fertilization moment. These different trials will test different temperatures and will yield different success results, to be statistically compared and analysed. Data for these different treatments shall include flow cytometry outputs to indicate success rates of treatments. These experiments will occur at Manaus-AM (Brazil). Data will be used to distinguish the best treatments and protocols for triploid production in *C. macropomum.*
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Data will be made available in Excel format. An initial spreadsheet summarizing the data (metadata) set will be made available, including a short explanation for the factors in the data set, person responsible for the data collection and curation. Datasheet will make use of "The International System of Units (SI)" and will follow the Code of Zoological Nomenclature (ICZN) for naming animal species. Raw data will be supplied at an open globally scoped online data repository (Zenodo) as soon as it becomes published. Keywords will be selected based on specific usage and following an international glossary of ichthyology. A DOI number will be used when this applies to the data set.
4.2 Plans for making data openly accessible	Data sets will be uploaded in Zenodo.
4.3 Plans for making data interoperable	Whenever it applies, metadata provided will include reference to other metadata, especially if it concerns results from different experiments of AV project.
4.4 Plans for making data re-usable (through clarifying licenses)	By making data set available in an open repository, it will become available for re-use by others. In order to increase possibility of reuse by others, metadata should be written/explained in a clear, accurate and standard manner. A clear and accessible data usage license should also be provided in the metadata.
5. Allocation of resources	NA
6. Data security	After hosted in Zenodo, data will comply with its security system and guidelines.
7. Ethical aspects	No known ethical aspects.
8. Other	NA

Case Study 11	
1. Data set name	Flatfish aquaculture production 2000 to 2018
2. Data set owner or user, link to WP and/or Case Study	Nofima (Norway), CS11 Linked to D7.2
3. Data set summary	Describes quantity of flatfish produced in aquaculture by country and year. The data covers the period 2000 to 2018.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The dataset contains metadata descriptions within the datafile itself.
4.2 Plans for making data openly accessible	The dataset is based on public data from FAO and is uploaded to Zenodo, being a public repository. https://zenodo.org/record/6477194#.Ymef6ChByUk
4.3 Plans for making data interoperable	The dataset is in excel format, which should allow for good interoperability.
4.4 Plans for making data re-usable (through clarifying licenses)	The data are based on public data.
5. Allocation of resources	No additional costs are expected.
6. Data security	Data security will be maintained by Zenodo.
7. Ethical aspects	None.
8. Other	NA

Multiple Case Study	
1. Data set name	AQUAVITAE_Fish key performance indicators for diets from fisheries by-catch valorisation
2. Data set owner or user, link to WP and/or Case Study	Centre of Marine Sciences (CCMAR) (Portugal), CC CS12 and WP2.
3. Data set summary	Key performance indicators from gilthead seabream (*Sparus aurata*) juveniles fed diets formulated with ingredients from fisheries by-catch.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Data is assigned a DOI to be uniquely identified. Keywords will be chosen carefully to facilitate access. Data is shared in public repositories.
4.2 Plans for making data openly accessible	Data will be publicly available in open access articles and/or raw data generated will be uploaded to a public repository: Zenodo.
4.3 Plans for making data interoperable	Standard formats of data will be made available (excel, csv).
4.4 Plans for making data re-usable (through clarifying licenses)	Data is publicly available for all. No login required. Data will be publicly available when the final prototype is approved by the consortium members.
5. Allocation of resources	No additional costs are foreseen.
6. Data security	Data will be hosted by Zenodo and will follow their guidelines for data security. No specific security requirements have been identified for this dataset.
7. Ethical aspects	Data is generated from experiments with animals. The experiments will be carried out according to specifications of AQUAVITAE's Deliverable D11.3 on Animal Ethics Requirements.
8. Other	NA

1. Data set name	AQUAVITAE_Fish key performance indicators for diets from low-trophic species
2. Data set owner or user, link to WP and/or Case Study	Centre of Marine Sciences (CCMAR) (Portugal), CC CS13, WP3
3. Data set summary	Key performance indicators from gilthead seabream (*Sparus aurata*) juveniles fed diets formulated with ingredients from low-trophic species.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Data is assigned a DOI to be uniquely identified. Keywords will be chosen carefully to facilitate access. Data is shared in public repositories.
4.2 Plans for making data openly accessible	Data will be publicly available in open access articles and/or raw data generated will be uploaded to a public repository: Zenodo.
4.3 Plans for making data interoperable	Standard formats of data will be made available (excel, csv).
4.4 Plans for making data re-usable (through clarifying licenses)	Data is publicly available for all. No login required. Data will be publicly available when the final prototype is approved by the consortium members.
5. Allocation of resources	No additional costs are foreseen.
6. Data security	Data will be hosted by Zenodo and will follow their guidelines for data security. No specific security requirements have been identified for this dataset.
7. Ethical aspects	Data is generated from experiments with animals. The experiments will be carried out according to specifications of AQUAVITAE's Deliverable D11.3 on Animal Ethics Requirements.
8. Other	NA

1. Data set name	Protein hydrolysis optimization
2. Data set owner or user, link to WP and/or Case Study	Generated by: Stellenbosh University (StellU) (South Africa) Relevant WP's: WP2 and WP3 Relevant CS: CS2.3 (by-products)
3. Data set summary	The purpose of generating the dataset is to determine the optimal processing conditions at which fishery and aquaculture by-products (by-catch and/or food processing by-products and/or low-value aquaculture species) can be treated, with specific focus on recovering protein from raw materials. The data set will enable re-utilization of by-products and/or waste in aquaculture, and will therefore contribute to circular economy, utilizing low-trophic species and to optimize diets for low- and high trophic species with new ingredients. Data will mainly be in the form of measured data-points, as part of time-series in a processing operation. Data will be captured both manually and electronically and will be stored in spreadsheet format for further processing. The overwhelming majority of data will be new data generated through the AquaVitae project, including all laboratory and pilot-plant work. The data will originate from the laboratories at the Department of Process Engineering, Stellenbosch University, and will consist of experimental and analytical measurements. Data will be useful both within the project to researchers interested in industrial implementation of by-products processing operations, and to nutritionists and feed formulators interested in utilizing new ingredients in both low- and high trophic aquaculture.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The dataset will be labelled, and metadata will be associated with each sub-set of data, including experimental conditions, experimental and analytical techniques employed, origin and condition of raw material, all experimental/analytical components utilized, and all date/time/location information relevant. Identifiers for each data set and each sub-set will be unique and would include at a minimum the type of raw material, the treatment applied to the raw material and the year in which the data set was generated. The naming convention will therefore include raw material, treatment and date, and an identifier to indicate the version of the data. Keywords will include a mixture of general terms and very specific terms, to enable people both from within AquaVitae and from without to find and utilize the data. Each dataset will be accompanied by a version-history front page, which will indicate the date during which the original data were generated, and any and all changes will be detailed, which will result in a new revision of the dataset being registered. For this dataset, no standard metadata requirements are available, and the metadata associated with this dataset are as outlined above.
4.2 Plans for making data openly accessible	All raw data generated will be made available, in the form of a labelled spreadsheet format. Data will be shared within the AquaVitae group and will be available from an online repository. Basic spreadsheet software (e.g. MS Excel) will be required to access the data, and basic browser software will be required to download the spreadsheet file(s). Spreadsheets are interoperable if saved in the correct CSV format, and therefore won't require specialist tools or software to download or access. A suitable online repository will be identified once data have

	been generated. If scientific publications arise from the data (which by default needs to be open source for AquaVitae), the data itself will be published, either as supplementary files or as 'Data in Brief'-type articles.
4.3 Plans for making data interoperable	The data will be interoperable, as it will be provided as individual readings in CSV-format spreadsheet files. With very basic steps, data in CSV files can be imported into non-Windows operating systems, while these files are directly readable by MS Excel on Windows-based machines.
4.4 Plans for making data re-usable (through clarifying licenses)	Data will be deposited in an online and open access repository (currently the 4TU.ResearchData repository is being targeted, https://researchdata.4tu.nl/en/), and any licensing for re-use will be subject to the repository's policies.
5. Allocation of resources	No significant costs are envisaged to find a suitable (and open access) online repository and upload the data.
6. Data security	The data will be hosted by an online repository, and will therefore follow the guidelines thereof
7. Ethical aspects	No know ethical aspects are envisaged. Potential intellectual property aspects have been declared as part of the project application, but it is not anticipated that these will arise.
8. Other	None.

1. Data set name	Pelletizing of agricultural lime obtained from shellfish shells.
2. Data set owner or user, link to WP and/or Case Study	Generated by: Stellenbosh University (StellU) (South Africa) Relevant WP's: WP2 and WP3 Relevant CS: CS2.3 (by-products)
3. Data set summary	The purpose of generating the dataset is to document the process of preparing agricultural lime (primarily calcium carbonate) pellets for application in the agricultural industry, and to determine the best processing methods for i) size reduction of the lime and ii) the appropriate preparation methods of the lime pellets using agglomeration. The data set will enable re-utilization of by-products that originate in aquaculture in other agricultural sectors and will therefore contribute to circular and bioeconomy, and potentially to carbon capture and partial sequestration. Data will mainly be in the form of measured data-points, including time-series data in a processing stage, along with single data points detailing composition, and material properties. Data will be captured both manually and electronically and will be stored in spreadsheet format for further processing. The overwhelming majority of data will be new data generated through the AquaVitae project, including all laboratory and pilot-plant work. The data will originate from the laboratories at the Department of Process Engineering, Stellenbosch University, and will consist of experimental and analytical measurements. Data will be useful both within the project to researchers interested in industrial implementation of by-products processing operations, and to agronomists searching for more environmentally friendly pH control mechanisms in agriculture.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The dataset will be labelled, and metadata will be associated with each sub-set of data, including experimental conditions, experimental and analytical techniques employed, origin and condition of raw material, all experimental/analytical components utilized, and all date/time/location information relevant. Identifiers for each data set and each sub-set will be unique and would include at a minimum the type and origin of raw material, the treatment applied to the raw material and the year in which the data set was generated. The naming convention will therefore include raw material, treatment and date, and an identifier to indicate the version of the data. Keywords will include a mixture of general terms and very specific terms, to enable people both from within AquaVitae and from without to find and utilize the data. Each dataset will be accompanied by a version-history front page, which will indicate the date during which the original data were generated, and any and all changes will be detailed, which will result in a new revision of the dataset being registered. For this dataset, no standard metadata requirements are available, and the metadata associated with this dataset are as outlined above.
4.2 Plans for making data openly accessible	All raw data generated will be made available, in the form of a labelled spreadsheet format. Data will be shared within the AquaVitae group and will be available from an online repository. Basic spreadsheet software (e.g. MS Excel) will be required to access the data, and basic browser software will be required to download the spreadsheet file(s). Spreadsheets are interoperable if saved in the correct CSV format, and

	therefore won't require specialist tools or software to download or access. A suitable online repository will be identified once data have been generated. If scientific publications arise from the data (which by default needs to be open source for AquaVitae), the data itself will be published, either as supplementary files or as 'Data in Brief'-type articles.
4.3 Plans for making data interoperable	The data will be interoperable, as it will be provided as individual readings in CSV-format spreadsheet files. With very basic steps, data in CSV files can be imported into non-Windows operating systems, while these files are directly readable by MS Excel on Windows-based machines.
4.4 Plans for making data re-usable (through clarifying licenses)	Data will be deposited in an online and open access repository (currently the 4TU.ResearchData repository is being targeted, https://researchdata.4tu.nl/en/), and any licensing for re-use will be subject to the repository's policies.
5. Allocation of resources	No significant costs are envisaged to find a suitable (and open access) online repository and upload the data.
6. Data security	The data will be hosted by an online repository, and will therefore follow the guidelines thereof
7. Ethical aspects	No know ethical aspects are envisaged. Potential intellectual property aspects have been declared as part of the project application, but it is not anticipated that these will arise.
8. Other	None.

1. Data set name	Sea cucumber controlled feeding experiments
2. Data set owner or user, link to WP and/or Case Study	Alfred Wegener Institute (AWI) (Germany) CS7 Links to WP3 CS3, CS4 and CS7
3. Data set summary	The research aims to test the IMTA (biodeposit) feeding response of sea cucumber species of interest in South Africa and possibly Brazil. Dataset of results of controlled feeding experiments for sea cucumbers in South Africa and possibly Brazil. Data will be related to feeding / consumption rates of biodeposits, impacts on biodeposits / sediments, growth rate of sea cucumbers.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	A metadata sheet will be provided in the beginning of each excel data document, specifying parameter number, name, short name, units and comments/factors mentioned in the data, as well as who collected the data, where and when. The raw data will be made accessible through the AWI-dedicated on-line database, PANGAEA (https://pangaea.de) as soon as the data has been published and/or any database specified by the AV data manager. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	The raw data will be made accessible through the AWI-dedicated on-line database, PANGAEA (https://pangaea.de) as soon as the data has been published and/or any database specified by the AV data manager. Keywords will be chosen carefully, DOI will be used when applicable.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv) and will apply standardized international measures (Specific growth rates, standard physicochemical parameters for sediments...)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others
5. Allocation of resources	No data management FAIR costs are expected. AWI has free access to PANGAEA and virtually unlimited storage available.
6. Data security	Data will be hosted by PANGAEA and will adhere fully to guidelines for data security.
7. Ethical aspects	None
8. Other	n/a

1. Data set name	Hatchery production of juveniles or sporophytes from case studies in WP1
2. Data set owner or user, link to WP and/or Case Study	WP1 leader and participants. WP2 & WP3 for shared case studies. WP1 Case Studies CS1, CS3, CS7, CS8, CS9, Cs10 & CS11
3. Data set summary	Data collection from the different and connected case studies which are primarily focused with the production of juveniles and sporophytes in WP1. As the project moves from the proto-typing stage the data and data sets will develop over time.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	It is the aim that data collected as part of WP1 will be in a useable and standardized format which is understood and searchable by all involved participants. What data is to be protected or kept closed will be decided by participants and confirmation and advice will be sought form WP4. WP4 will be consulted on the best and most appropriate method for online storage and data base use for the raw data e.g. a general repository (Zenodo).
4.2 Plans for making data openly accessible	Best practices will be implemented on the available data accessibility over the life of the project
4.3 Plans for making data interoperable	Specific searchable terms will be used to make the data useable. Standard file sharing formats will be used (Excel, Word).
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication or by agreement of the dissemination committee. A standardized format for the data will be implemented to facilitate the use of data by stakeholders
5. Allocation of resources	Best practices will be implemented once data is been collected. WP4 will be consulted for advices and best practices,
6. Data security	Data storage and hosting will follow and comply to EU regulations.
7. Ethical aspects	None
8. Other	N/A

1. Data set name	Shellfish valorisation: assessing carbon sequestration and trading
2. Data set owner or user, link to WP and/or Case Study	Instituto de Investigaciones Marinas (CSIC) (Spain) Dataset is linked with AquaVitae WP 2 (*Improved grow-out production technologies: Post-hatchery to harvest and recycling*) and WP 3 (*New products and value chains for aquaculture*) through Case Study 12.
3. Data set summary	Dataset includes: a) Evolution of aquaculture production of main bivalve species in China over the period 2007-2015 and estimated $CaCO_3$ associated to bivalve production. b) Evolution of mussel aquaculture production during 2007-2016 of main world and European producers, focusing on Galician mussel production as main case study, including estimations of associated $CaCO_3$ productions. c) Consumptions of calcium carbonate (per application sector and per year), associated carbon footprints (taken from literature) and inertization times of bivalve $CaCO_3$ applications based on a qualitative assessment of reference materials selected for each application.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The analyzed data is published in CSIC repository and the paper wrote based on the data is published in "sciencedirect". These publications will be available to the public online, using appropriate key words that will increase the chances of them being found.
4.2 Plans for making data openly accessible	Data is available on https://digital.csic.es/handle/10261/238413 Article linked to the data is available on: https://doi.org/10.1016/j.jclepro.2020.123873
4.3 Plans for making data interoperable	The data is presented in standard English vocabulary to allow inter-disciplinary interoperability. In addition, standard formats of data are made available (Word, Excel, JPG) as Supplementary Information of scientific publications and standardized international measures/units will be used.
4.4 Plans for making data re-usable (through clarifying licenses)	The data is publicly available. A standardized and clear format for the data is set up to facilitate the use of data by others.
5. Allocation of resources	Not apply
6. Data security	No specific security requirements have been identified for this dataset.
7. Ethical aspects	There is no ethical issue identified with the data collected in this dataset.
8. Other	Not apply

1. Data set name	Abalone aquaculture production 2000 to 2018
2. Data set owner or user, link to WP and/or Case Study	Nofima (Norway), CS3 and CS4 Linked to D7.2
3. Data set summary	Describes quantity of abalone produced in aquaculture by country and year. The data covers the period 2000 to 2018.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The dataset contains metadata descriptions within the datafile itself.
4.2 Plans for making data openly accessible	The dataset is based on public data from FAO and is uploaded to Zenodo, being a public repository. https://zenodo.org/record/6477171#.YmegXihByUk
4.3 Plans for making data interoperable	The dataset is in excel format, which should allow for good interoperability.
4.4 Plans for making data re-usable (through clarifying licenses)	The data are based on public data.
5. Allocation of resources	No additional costs are expected.
6. Data security	Data security will be maintained by Zenodo.
7. Ethical aspects	None.
8. Other	NA

1. Data set name	Abalone fishery production 1984 to 2018
2. Data set owner or user, link to WP and/or Case Study	Nofima (Norway), CS3 and CS4 Linked to D7.2
3. Data set summary	Describes quantity of abalone harvested from fisheries by country and year. The data covers the period 1984 to 2018.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The dataset contains metadata descriptions within the datafile itself.
4.2 Plans for making data openly accessible	The dataset is based on public data from FAO and is uploaded to Zenodo, being a public repository. https://zenodo.org/record/6477180#.YmeggihByUk
4.3 Plans for making data interoperable	The dataset is in excel format, which should allow for good interoperability.
4.4 Plans for making data re-usable (through clarifying licenses)	The data are based on public data.
5. Allocation of resources	No additional costs are expected.
6. Data security	Data security will be maintained by Zenodo.
7. Ethical aspects	None.
8. Other	NA

1. Data set name	Abalone imports to Japan 2017 to 2020
2. Data set owner or user, link to WP and/or Case Study	Nofima (Norway), CS3 and CS4 Linked to D7.2
3. Data set summary	Describes quantity and value of abalone imported to Japan by country and year. The data are annual and covers the period 2017 to august 2020. The data originate from public data extracted from Japanese Customs Agency.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The dataset contains metadata descriptions within the datafile itself.
4.2 Plans for making data openly accessible	The dataset is based on public data from Japanese customs and is uploaded to Zenodo, being a public repository. https://zenodo.org/record/6477188#.YmeggChByUk
4.3 Plans for making data interoperable	The dataset is in excel format, which should allow for good interoperability.
4.4 Plans for making data re-usable (through clarifying licenses)	The data are based on public data.
5. Allocation of resources	No additional costs are expected.
6. Data security	Data security will be maintained by Zenodo.
7. Ethical aspects	None.
8. Other	NA

WP4	
1. Data set name	Sulphite monitoring device technical documents
2. Data set owner or user, link to WP and/or Case Study	BIOLAN (Spain) WP4
3. Data set summary	Data generated as result of the development of Task 4.3. Data collected are expected to lead to the development and prototyping of a new improved device for sulphite monitoring connected to a data platform. Data will be generated by BIOLAN with the possible contribution of other WP4 partners. Collected data: sheets, materials, software packages, hardware layouts, communications layouts, source codes, assembly instructions, CAD-files. Size of data: Hundreds of megabytes/few gigabytes. Mainly documents (doc, docx, ppt, pptx, etc.), illustrations (png, jpeg, tiff, etc.), drawings (stp, slpdrw, sldprt) and raw data (xls.).
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The data will be stored in BIOLAN's server placed in a suitable folder identified following the general BIOLAN procedure for data storage
4.2 Plans for making data openly accessible	The collected data will not be openly accessible to avoid issues related to intellectual property protection
4.3 Plans for making data interoperable	No interoperability
4.4 Plans for making data re-usable (through clarifying licenses)	All the generated data will be uploaded to the existing BIOLAN data server and will be accessible using common software allowing easy access and long term re-usage. Data could be applied for the development of other biosensor devices at BIOLAN or other companies or entities under license agreement.
5. Allocation of resources	No additional costs required
6. Data security	Data are stored at BIOLAN's server following BIOLAN server data security.
7. Ethical aspects	No known ethical aspects.
8. Other	N/A

1. Data set name	Sulphite analyses
2. Data set owner or user, link to WP and/or Case Study	BIOLAN (Spain) WP4
3. Data set summary	Data generated as result of the development of Task 4.3. Data collected will be generated after each validation of the prototype performing the analyses or real samples by the stakeholders. Data will be generated by BIOLAN with the contribution of the stakeholders. Collected data: Sulphite content of samples provide by the stakeholders. Size of data: Hundreds of megabytes/few gigabytes. Mainly documents (doc, docx, ppt, pptx, etc.) and raw data (xls.).
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Data files corresponding to each batch of analyses will be numerically labelled and appropriately placed in a suitable folder. Following the general BIOLAN procedure for data storage, the content of each file will be summarized on an Excel spreadsheet which will contain the following information: number of experiments, an appropriately descriptive title, date, objective, procedure and main conclusions. This Excel file will allow the project team to easily find specific data using keywords.
4.2 Plans for making data openly accessible	The collected data will not be openly accessible to avoid issues related to the sulphite content of the samples analyzed. Data will be release only with the agreement of the stakeholder.
4.3 Plans for making data interoperable	No interoperability
4.4 Plans for making data re-usable (through clarifying licenses)	All the generated data will be uploaded to the existing BIOLAN data server and will be accessible using common software allowing easy access and long-term re-usage.
5. Allocation of resources	No additional costs required
6. Data security	Data are stored at BIOLAN's server following BIOLAN server data security.
7. Ethical aspects	No known ethical aspects.
8. Other	N/A

WP5	
1. Data set name	Consumer survey data
2. Data set owner or user, link to WP and/or Case Study	Nofima (Norway), WP5, cases 1, 2, 3, 6, 7, 8, 10, 11
3. Data set summary	The data is collected based on the designed questionnaire and by a survey company. These consumer preferences in relation to these attributes will be examined through surveys with representative samples from four different countries representing the four zones of the Atlantic Ocean: 1) Brazil, 2) South Africa, 3) Europe (Germany or France), and 4) USA/Canada. The data will be used to analyze consumer awareness and acceptance of low trophic species and sustainable production methods.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Anonymized data will be findable together with other data, under the whole AquaVitae database structure.
4.2 Plans for making data openly accessible	Anonymized data will follow open accessibility strategies established by the whole AquaVitae project. If no field related repository exist, data will be uploaded to a general repository e.g. Zenodo.
4.3 Plans for making data interoperable	Csv data will be stored to ensure compatibility with all available data analysis tools.
4.4 Plans for making data re-usable (through clarifying licenses)	Clear coding will be followed to allow for future data use.
5. Allocation of resources	Nofima who is the data controller has a subcontracting budget of €40.000 for the targeted surveys to be conducted in WP5 (task 5.2).
6. Data security	Nofima will guarantee that the survey recruitment and field work provider that will be subcontracted will follow secure procedures under the GDPR regulations.
7. Ethical aspects	Participant anonymity and privacy regulations will be followed based on GDPR regulations. Furthermore, to ensure data management control, each participant will be given a numeric identifier that is created for statistical purposes. This identifier will in not be linked to the personal information of the participants. The project office plan to review the ethics requirement for Task 5.2 when the full plan of the survey has been established and the WP5 team have hired the survey companies who will collect the survey data.
8. Other	N/A

1. Data set name	Interview data with industrial players
2. Data set owner or user, link to WP and/or Case Study	Nofima (Norway), WP5, cases 1, 2, 3, 6 and 8
3. Data set summary	The data is collected based on the designed interview guide with industry stakeholders such as professional buyers. The interviews are conducted in collaboration with the project partners in Spain, Brazil, and partly in South-Africa and the USA. The data will be analyzed for the four different countries representing the four zones of the Atlantic Ocean: 1) Brazil, 2) South Africa, 3) Spain 4) USA. The data will be analyzed for the professional buyers' awareness and (interest for) trade of low trophic species and sustainable products.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Anonymized data will be findable together with other data, under the whole AquaVitae database structure.
4.2 Plans for making data openly accessible	Anonymized data will follow open accessibility strategies established by the whole AquaVitae project. If no field related repository exist, data will be uploaded to a general repository e.g. Zenodo.
4.3 Plans for making data interoperable	All data will be stored in word.txt format.
4.4 Plans for making data re-usable (through clarifying licenses)	N/A
5. Allocation of resources	N/A
6. Data security	Nofima guarantee that the interviewer will follow secure procedures for the interview data under the GDPR regulations.
7. Ethical aspects	Participant anonymity and privacy regulations will be followed based on GDPR regulations. Furthermore, to ensure data management control, each participant will be given a numeric identifier that is created for anonymization.
8. Other	N/A

WP6	
1. Data set name	External and internal risks effecting the sustainability performance of LTS aquaculture in the Atlantic region (T6.3)
2. Data set owner or user, link to WP and/or Case Study	Swedish Environmental Research Institute (IVL) (Sweden), WP6
3. Data set summary	Aim: Describe positive (opportunities) and negative (threats) risks, i.e. net impacts on the sustainability performance of studied LTS-systems, relevant for specific scenarios, in terms of probability and consequence. Risks will be categorized according to different criteria, including local/regional/global, continuous/instant, manageable/unmanageable, internal/external. The risks will be identified and analyzed based on certain scenarios. The scenarios will, in turn, be selected to cover a range of relevant specific aquaculture trends, and general/global megatrends The data can be useful to identify and assess opportunities to maximize as well as risks to mitigate/minimize for LTS farmers, as well as researchers.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo, a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data for others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	Existing and emerging LTS aquaculture in the Atlantic region (T6.1)
2. Data set owner or user, link to WP and/or Case Study	Swedish Environmental Research Institute (IVL) (Sweden), WP6
3. Data set summary	Aim: Map existing and emerging LTS aquaculture around the Atlantic by i) organism group, ii) geographic sector, iii) production location, iv) production system, v) production method and vi) value-chain step. Occurrences of existing and emerging activities was mapped using the width of the AV consortium, literature and external experts. In this context, "existing and emerging" is interpreted as commercial and near-commercial scale aquaculture operation. The data set, or Assessment Domain (AD) setting the outer boundaries for which LTS-systems will/can be included in subsequent sustainability, ecosystem services and risk assessments, consists of 640 nodes. Each node represents one unique combination of the six characteristics mentioned above, of which 76 existing or emerging cases were identified.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet is provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data is made accessible on Zenodo Link to Zenodo: https://zenodo.org/record/6521724#.YnTWPNpByUk
4.2 Plans for making data openly accessible	At the end of the work all articles were published in Open Access journals and data is published together. Data is also be published to Zenodo**,** a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data are made available (excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data is publicly available. A standardized format for the data is set up to facilitate the use of data for others.
5. Allocation of resources	No additional costs are expected.
6. Data security	All information is kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data is hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	Mapping and ranking of relevant SDGs in LTS Aquaculture (T6.1)
2. Data set owner or user, link to WP and/or Case Study	Swedish Environmental Research Institute (IVL) (Sweden), WP6
3. Data set summary	Aim: Getting a perception of how people working with aquaculture rank which Sustainable Development Goals (SDGs) that are most relevant to LTS aquaculture. A survey was made in Microsoft Forms and sent out to the AquaVitae consortium and others reading its newsletter. Each respondent ranked up to five SDGs of which that the respondent considered most relatable to Low Trophic Species Aquaculture. In total forty answers were achieved. The result was used as internal discussion material.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet is provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data is made accessible on Zenodo. Link to Zenodo: https://zenodo.org/record/6521804#.YnTA1dpByUk
4.2 Plans for making data openly accessible	At the end of the work all articles are published in Open Access journals and data is published together. Data is also be published to Zenodo**,** a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data are made available (excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data is publicly available. A standardized format for the data is set up to facilitate the use of data for others.
5. Allocation of resources	No additional costs are expected.
6. Data security	All information is kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data is hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	Mapping and selection of indicators for sustainability analysis of LTS aquaculture and mapping against SDG targets of relevance to LTS aquaculture (T6.1 and T6.2)
2. Data set owner or user, link to WP and/or Case Study	Swedish Environmental Research Institute (IVL) (Sweden), São Paulo State University (UNESP) (Brazil) and University of Porto (CIIMAR) (Portugal) WP6
3. Data set summary	Aim: to map existing indicators used in sustainability for LTS aquaculture around the Atlantic. Indicators developed for sustainability analysis of aquaculture was compiled from existing literature, from ongoing or finished H2020 projects and certification bodies. The identified indicators were mapped according to sustainability domain (ecological, societal, governance or economical) and the gross list was used for indicator selection in relation to SDG targets.
4. FAIR Data (Findable, Accessible, Interoperable, Re-usable)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo, a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	T6.4 Environmental monitoring
2. Data set owner or user, link to WP and/or Case Study	The Scottish Association for marinescience (SAMS) (United Kingdom), WP6
3. Data set summary	Risk assessment summaries from T6.3 for appropriate CSs and publicly available data on national monitoring programs. Additional non personal information from CS on current monitoring activities.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo**,** a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data for others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	Mapping Nature Contributions to People provided by LTS aquaculture and data availability for different NCPs (T6.2.1)
2. Data set owner or user, link to WP and/or Case Study	University of Porto (CIIMAR) (Portugal), WP6
3. Data set summary	Aim: Mapp the Nature Contributions to People provided by LTS aquaculture and evaluate data availability for different NCPs. Using the concept from IPBES, determine the contributions to people provided by the LTS aquaculture, especially for the species used in Aquavitae.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo, a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	Quantification of the value of selected Nature Contributions to People provided by LTS aquaculture (T6.2.1)
2. Data set owner or user, link to WP and/or Case Study	University of Porto (CIIMAR) (Portugal), WP6
3. Data set summary	Aim: Quantify values for selected Nature Contributions to People provided by LTS aquaculture Using the concept from IPBES, determine the value of selected contributions to people provided by some of the case studies in Aquavitae.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	An information sheet will be provided in the beginning of each excel data document, specifying the units, and factors mentioned in the data, as well as who collected the data, and spatial and temporal information. The raw data will be made accessible through an on-line database, e.g. Zenodo as soon as the data has been published. Keywords will be chosen carefully, DOI will be used when applicable.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together. Data will also be published in Zenodo, a repository where users can make all of their research outputs available in a citable, shareable and discoverable manner.
4.3 Plans for making data interoperable	Standard formats of data will be made available (word, excel, .csv)
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be publicly available after publication. A standardized format for the data will be set up to facilitate the use of data by others.
5. Allocation of resources	No additional costs are expected.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations. After this the data will be hosted by data repositories connected to specific journals or by Zenodo and will follow their guidelines for data security.
7. Ethical aspects	All ethical aspects related to research required by the AV/EU will be followed.
8. Other	N/A

1. Data set name	Quantification of indicators of sustainability for LTS aquaculture around the Atlantic (T6.2.2)
2. Data set owner or user, link to WP and/or Case Study	São Paulo State University (Unesp) and Brazilian Agricultural Research Corporation (Embrapa) (Brazil) WP6
3. Data set summary	Aim: to quantify selected indicators for sustainability analysis of LTS aquaculture around the Atlantic. Selected indicators for sustainability analysis of aquaculture will be quantified and the data integrated into sustainability analysis of LTS aquaculture.
4. FAIR Data (Findable, Accessible, Interoperable, Re-usable)	
4.1 Plans for making data findable	The list of indicators will be available at Sharepoint for the members of Aquavitae. By the end of the project data will be uploaded to a general repository e.g. Zenodo
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together.
4.3 Plans for making data interoperable	Standard formats of data will be made available (Word and Excel).
4.4 Plans for making data re-usable (through clarifying licenses)	Data will be available after publications, in a standardized format.
5. Allocation of resources	No extra costs are required.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European institutions recommendations and the regulations of the European Union funded projects.
7. Ethical aspects	All ethical aspects related to research required by Brazilian and European law will be attended as well as the guidelines laid out in the AquaVitae Ethics Deliverables. It refers to interviews that will be necessary to obtain social and economic data for calculating sustainability index.
8. Other	No.

WP7	
1. Data set name	Linguado wholesale market prices Sao Paolo
2. Data set owner or user, link to WP and/or Case Study	Blue Resource (BR) (Faroe Islands) Nofima AS, Norway Universidade Federal do Rio Grande (FURG) (Brazil) WP7 Linked to D7.2
3. Data set summary	Average sales prices from Sao Paolo wholesale market, collected by researchers sampling at the market. Data set here contains monthly averages from 2015 to September 2020.
4. FAIR Data (Findable, Accessible, Interoperable, Re-usable)	
4.1 Plans for making data findable	The dataset contains metadata descriptions within the datafile itself.
4.2 Plans for making data openly accessible	The dataset is based on public data and is uploaded to Zenodo, being a public repository. https://zenodo.org/record/6559194#.YoSyme1ByUk
4.3 Plans for making data interoperable	Data is provided in excel format
4.4 Plans for making data re-usable (through clarifying licenses)	Data will be reusable quoting the original source
5. Allocation of resources	No additional costs are expected.
6. Data security	Data security will be maintained by the data sharing platform
7. Ethical aspects	NA
8. Other	

1. Data set name	Value chain analysis interviews
2. Data set owner or user, link to WP and/or Case Study	Blue Resource (BR) (Faroe Islands) Nofima AS (Norway) WP7
3. Data set summary	Questionnaire to conduct interview to industry partners and CS leaders about production stages, value added through processing, critical areas of the value chain, cost structure, prices and profitability, at the firm level. The questionnaire also refers to market conditions and access, prices and regulatory framework at industry level.
4. FAIR Data (Findable, Accessible, Interoperable, Re-usable)	
4.1 Plans for making data findable	Data will be not be public since it contains sensitive information from industry partners.
4.2 Plans for making data openly accessible	Data will not be openly accessible due to confidentiality of information.
4.3 Plans for making data interoperable	See above
4.4 Plans for making data re-usable (through clarifying licenses)	See above
5. Allocation of resources	Not yet defined
6. Data security	Data security will follow the guidelines from local file security by the owners, as data collected will not be of openly accessible.
7. Ethical aspects	NA
8. Other	

WP8	
1. Data set name	Producer's perception of policy and regulation issues in the context of low trophic aquaculture (workshop summaries)
2. Data set owner or user, link to WP and/or Case Study	Arctic University of Tromsø (UiT) (Norway) WP8, Task 8.2
3. Data set summary	Written summaries of workshops (and in one case a survey), primarily with aquaculture producers, to identify where regulation and policy have supported or inhibited innovation and route to market and to identify common inhibitory or supportive mechanisms. The workshops have been arranged in relation to selected regions and case studies within the AquaVitae project.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The summaries will be included deliverable D8.2 "Report on industry perceptions on current policy frameworks". The report will be made publicly available on the AquaVitae project site.
4.2 Plans for making data openly accessible	By the end of the AquaVitae project, the D8.2 report will be made accessible at UiTs open repository (Munin)
4.3 Plans for making data interoperable	This is qualitative information in the form of text and is therefore interoperable with information sources in the form of text.
4.4 Plans for making data re-usable (through clarifying licenses)	The full minutes from the workshops will not be made available in order to secure full privacy for the workshop participants.
5. Allocation of resources	No costs are foreseen with making deliverable D8.2 available and accessible.
6. Data security	Sensitive data will not be made available. The text in the summaries from workshops does not contain information (such as names) that will identify persons.
7. Ethical aspects	The partners responsible for conducting each workshop were responsible for that national GDRP and European requirements were respected. The workshops were not audio-recorded. An information letter informing about the approach and the use of the information was sent out prior to the workshops. Oral consent/acceptance to carry out the study was obtain at the start of the workshop. Workshop summaries were shared with the participants, and that they had an opportunity to revise, expand or delete statements as they deemed appropriate.
8. Other	N/A

1. Data set name	Producers perception of aquaculture policy and regulation issues
2. Data set owner or user, link to WP and/or Case Study	Arctic University of Tromsø (UiT) (Norway) WP8, Task 8.2 This is not fully decided. The workshops can only be arranged in cases where a sufficient number of willing industry participants will be present at a given location due to other events. We do not have resources to fund travels of participants separately. This could involve summaries from the following workshops: Macroalgae production in Europe Offshore aquaculture in Europe IMTA in Brazil IMTA in South Africa
3. Data set summary	Written summaries of workshops with aquaculture producers to identify where regulation and policy have supported or inhibited innovation and route to market and to identify common inhibitory or supportive mechanisms. The workshops will be arranged in relation to selected regions and case studies.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The summaries will be included in or appended to deliverable D8.2 "Report on industry perceptions on current policy frameworks". The report will be made publicly available on the AquaVitae project site. It can be foreseen that a glossary of key terms for the Aquavitae project will be developed. If this happens in time before the deliverable is due (Nov 2020), the terms can be used in a way that corresponds to the glossary. Key words can be defined in the report and used with the search functions in word or Pdf files.
4.2 Plans for making data openly accessible	Se above
4.3 Plans for making data interoperable	This is qualitative information in the form of text and is therefore interoperable with similar information sourced.
4.4 Plans for making data re-usable (through clarifying licenses)	The full minutes from the workshops will not be made available due to privacy concerning the industry participants, but summaries of the outcomes can be made available if this is accepted the participants. Se ethical aspects below.
5. Allocation of resources	No costs are foreseen with making deliverable 8.2 available.
6. Data security	Sensitive date will not be made available.
7. Ethical aspects	Workshops will be conducted in accordance with national and European requirements for social science research. A protocol for the workshop will contain a written consent form to be sent to invited participants. Summaries of workshops will only be made publicly available (D8.2) if this is accepted by workshop participants.
8. Other	N/A

1. Data set name	Evaluation of aquaculture regulations' adaptiveness to low trophic aquaculture (LTA) in selected countries and regions of the Atlantic.
2. Data set owner or user, link to WP and/or Case Study	NOFIMA (Norway) WP8, T8.4
3. Data set summary	Assessments of documents relevant for LTA according to 15 adaptiveness criteria. Scores are assigned on the scale between -2 and 2. In total 22 documents are analyzed (5 for Galicia, Spain; 2 for Schleswig-Holstein, Germany; 8 for Scotland; 6 for Norway, 1 for South Africa and). General analysis is done for Brazilian aquaculture legislation. The data consists of an Excel file with scores and 6 pdf files with explanation of each score.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	The data are produced as part of the Deliverable 8.3, with the analysis and figures included in the report. The Deliverable will be made publicly available on the AquaVitae project site.
4.2 Plans for making data openly accessible	The data is uploaded to an open repository (Zenodo) https://zenodo.org/record/6490935#.Ynzbze1ByUk
4.3 Plans for making data interoperable	The data are stored in Excel and PDF, with fields explanation in English. The data exchange can be made easily between systems.
4.4 Plans for making data re-usable (through clarifying licenses)	The data is openly accessible and re-usable. Normally an appropriate attribution will be expected when re-using the data.
5. Allocation of resources	No specific costs are expected in connection to data storage and use.
6. Data security	No specific security requirements have been identified for this dataset.
7. Ethical aspects	No concerns
8. Other	The scores are produced qualitatively. Subjectivity and other limitations of qualitative analysis apply to the data.

WP9	
1. Data set name	MOOC on Sustainable Aquaculture for Low Trophic Species
2. Data set owner or user, link to WP and/or Case Study	Data owner/user: Arctic University of Tromsø (UiT) (Norway) WP9, T9.6
3. Data set summary	Educational and teaching material collected from consortium members for a massive open, online course on low-trophic aquaculture. Module specific text, videos, pictures, graphs and assessment questions.
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	Data will be available through an open, online educational platform edX. Links to the course will be available on the AquaVitae website and consortium members' websites.
4.2 Plans for making data openly accessible	The data will be available through an open, free, online educational platform Open edX.
4.3 Plans for making data interoperable	The data will be published in the format of PDF files, reading sections, videos, pictures and excel files for exercises. The content will be in English and the videos will be Transcripted. Data will be available for flipped classroom purposes for teachers
4.4 Plans for making data re-usable (through clarifying licenses)	The data will be openly available on the Open edX platform. The data will remain usable and open for as long as it is relevant. It will be protected by Creative Common License CC BY-NC-ND 4.0.
5. Allocation of resources	Financial resources will cover the costs associated with salaries of the persons involved in the development of the MOOC.
6. Data security	The data will be hosted by UiT and will adhere fully to guidelines for data security.
7. Ethical aspects	None
8. Other	n/a

Multiple WP	
1. Data set name	Data used to compute and quantify the indicators
2. Data set owner or user, link to WP and/or Case Study	Previous studies: São Paulo State University (UNESP) (Brazil) Partners Institutions of CS 1, 2, 3, 4, 5, 6, 7, 8. 9 and WP 2, 3, 5 and 7. Others (data from literature and data repositories)
3. Data set summary	Data will be obtained in the CS 1, 2, 3, 4, 5, 6, 7, 8, 9. WP 2, 3, 5 and 7; Data will also be obtained from the literature and previous studies to calculate indicators of sustainability. The complete list of data and variables will be defined after deciding what indicators will be used.
4. FAIR Data (Findable, Accessible, Interoperable, Re-usable)	
4.1 Plans for making data findable	All data will be recorded in Excel data document, according to sampling schedule with spatial and temporal description, specifying units. Data can be stored at data repository of UNESP.
4.2 Plans for making data openly accessible	At the end of the work all articles will be published in Open Access journals and data will be published together.
4.3 Plans for making data interoperable	Standard formats of data will be made available (Word and Excel).
4.4 Plans for making data re-usable (through clarifying licenses)	Data will be available after publications, in a standardized format.
5. Allocation of resources	No extra costs are required. Maybe we will need resources to pay OA fees.
6. Data security	Until the data is published, all information will be kept by the researchers who will follow data security instructions given by Brazilian and European Union guidelines and the regulations of the European Union funded projects.
7. Ethical aspects	All ethical aspects related to research required by the Brazilian law and by the guidelines laid out in the AquaVitae Ethics Deliverables will be followed. It refers to interviews that will be necessary to obtain social and economic data for calculating sustainability index.
8. Other	No.

Appendix 2: Blank template used by Case Study and Work Package leaders

1. Data set name	• Identifier for the data set to be produced
2. Data set owner or user, link to WP and/or Case Study	• Project participant responsible for generating or extracting the data set • What WPs or Case Studies the data set is relevant for
3. Data set summary	• State the purpose of the data collection/generation • Explain the relation to the objectives of the project • Specify the types and formats of data generated/collected • Specify if existing data is being re-used (if any) • Specify the origin of the data • State the expected size of the data (if known) • Outline the data utility: to whom will it be useful
4. FAIR Data (*Findable, Accessible, Interoperable, Re-usable*)	
4.1 Plans for making data findable	• Outline the discoverability of data (metadata provision) • Outline the identifiability of data and refer to standard identification mechanism. Do you make use of persistent and unique identifiers such as Digital Object Identifiers? • Outline naming conventions used • Outline the approach towards search keyword • Outline the approach for clear versioning • Specify standards for metadata creation (if any). If there are no standards in your discipline describe what type of metadata will be created and how
4.2 Plans for making data openly accessible	• Specify which data will be made openly available? If some data is kept closed provide rationale for doing so • Specify how the data will be made available • Specify what methods or software tools are needed to access the data? Is documentation about the software needed to access the data included? Is it possible to include the relevant software (e.g. in open source code)? • Specify where the data and associated metadata, documentation and code are deposited • Specify how access will be provided in case there are any restrictions
4.3 Plans for making data interoperable	• Assess the interoperability of your data. Specify what data and metadata vocabularies, standards or methodologies you will follow to facilitate interoperability. • Specify whether you will be using standard vocabulary for all data types present in your data set, to allow inter-disciplinary interoperability? If not, will you provide mapping to more commonly used ontologies?

4.4 Plans for making data re-usable (through clarifying licenses)	• Specify how the data will be licensed to permit the widest reuse possible • Specify when the data will be made available for re-use. If applicable, specify why and for what period a data embargo is needed • Specify whether the data produced and/or used in the project is useable by third parties, in particular after the end of the project? If the re-use of some data is restricted, explain why • Describe data quality assurance processes • Specify the length of time for which the data will remain re-usable
5. Allocation of resources	• Estimate the costs for making your data FAIR. Describe how you intend to cover these costs • Clearly identify responsibilities for data management in your project • Describe costs and potential value of long-term preservation
6. Data security	• Address data recovery as well as secure storage and transfer of sensitive data
7. Ethical aspects	• To be covered in the context of the ethics review, ethics section of DoA and ethics deliverables. Include references and related technical aspects if not covered by the former
8. Other	• Refer to other national/funder/sectorial/departmental procedures for data management that you are using (if any)