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# **QALIBRA – Heilsuvogin**

## **First Annual Report**

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Ágrip á íslensku:	<p>Þessi skýrsla er fyrsta ársskýrsla í Evrópuverkefninu QALIBRA og nær yfir tímabilið 1.apríl. 2006 til 31.mars. 2007.</p> <p>QALIBRA, eða “Quality of Life – Integrated Benefit and Risk Analysis. Web-based tool for assessing food safety and health benefits,” skammstafað QALIBRA (Heilsuvogin á íslensku), er heiti Evrópuverkefnis, sem heyrir undir Priority 5, Food Quality &amp; Safety í 6. Rannsóknaráætlun ESB. Um að ræða þriggja og hálfis árs verkefni sem Rannsóknastofnun fiskiðnaðarins (nú Matís ohf) stýrir. Verkefnistjóri er Helga Gunnlaugsdóttir, deildarstjóri á Matís.</p> <p>Makmið QALIBRA- verkefnisins er að þróa magnbundar aðferðir til að meta bæði jákvæð og neikvæð áhrif innihaldsefna í matvælum á heilsu manna. Markmiði era ð þessar aðferðir muni verða settar fram í tölvuforriti sem verður opið og aðgengilegt öllum hagsmunaaðilum á veraldarvefnum.</p> <p>Þátttakendur í verkefninu eru frá Íslandi, Bretlandi, Hollandi, Grikklandi, Portúgal og Ungverjalandi.</p>		
Lykilorð á íslensku:	Árskýrsla, QALIBRA, áhættu- og heilnæmismat, innihaldsefni matvæla, magnbundnar aðferðir, feitur fiskur, markfæði		
Summary in English:	<p>This is the first periodic activity and management report for the project QALIBRA – “Quality of life – integrated benefit and risk analysis. Web – based tool for assessing food safety and health benefits”. The report covers the period from 01.04.06 to 31.03.07. QALIBRA is partly funded by the EC's Sixth Framework Programme, Priority 5, Food Quality &amp; Safety. It began in April 2006 and will end in 2009.</p> <p>The objectives of QALIBRA are to develop a suite of quantitative methods for assessing and integrating beneficial and adverse effects of foods, and make them available to all stakeholders as web-based software for assessing and communicating net health impacts.</p> <p>The participants in the project are:</p> <p>Matís, Iceland, coordinator, Central Science Laboratory, United Kingdom, National Institute of Public Health and The Environment, The Netherlands, Wageningen University, The Netherlands, University of Patras, Greece, Altagra Business Service, Hungary, National Institute for Agriculture and Fisheries Research, Portugal.</p>		
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## TABLE OF CONTENTS

<b>1. EXECUTIVE SUMMARY .....</b>	<b>1</b>
<b>2. PROJECT OBJECTIVES &amp; MAJOR ACHIEVEMENTS-YEAR 1 .....</b>	<b>4</b>
<b>Overview of general project objectives.....</b>	<b>4</b>
<b>Summary of recommendations from previous reviews.....</b>	<b>5</b>
<b>Summary of the objectives, work performed, contractors involved and main achievements year 1 for different workpackages (WP) .....</b>	<b>5</b>
<b>3. WORKPACKAGE PROGRESS OF THE PERIOD.....</b>	<b>7</b>
<b>Overview of the actions carried out in WP1-WP7 in the reporting period.....</b>	<b>7</b>
WP1. Development of generalised modular approach to risk-benefit analysis using menus of dose-response and valuation/integration functions .....	7
WP2. Implementation of methods as web-enabled software for all stakeholders ..	10
WP3. Development of strategies for communicating and disseminating risk benefit information and dissemination .....	12
WP4. Case study 1 on seafood .....	15
WP5. Case study 2 on functional foods .....	16
WP6. Cluster activities between the QALIBRA and BENERIS projects.....	17
WP7. Project coordination and management .....	19

<b>4. CONSORTIUM MANAGEMENT .....</b>	<b>22</b>
<b>Consortium management.....</b>	<b>22</b>
<b>Changes in responsibilities and to the consortium itself.....</b>	<b>23</b>
<b>Project timetable and status .....</b>	<b>23</b>
<b>Coordination activities .....</b>	<b>25</b>
<b>5. OTHER ISSUES RELATED TO PERIODIC ATIVITY REPORT .....</b>	<b>25</b>
<b>6. PERIODIC MANAGEMENT REPORT FOR QALIBRA.....</b>	<b>25</b>
<b>Justification of major cost items and resources for each workpackage (WP) .....</b>	<b>25</b>
WP1. Development of generalised modular approach to risk-benefit analysis using menus of dose-response and valuation/integration functions .....	25
WP2. Implementation of methods as web-enabled software for all stakeholders ..	29
WP3. Development of strategies for communicating and disseminating risk benefit information and dissemination .....	30
WP4. Case study 1 on seafood.....	32
WP5. Case study 2 on functional foods .....	34
WP6. Cluster activities between the QALIBRA and BENERIS projects.....	35
WP7. Project coordination and management .....	36
<b>Form C Financial Statement per activity for the contractual reporting period... </b>	<b>38</b>
<b>Summary financial report.....</b>	<b>38</b>
<b>Summary of periodic report on the distribution of the Community's contribution .....</b>	<b>38</b>

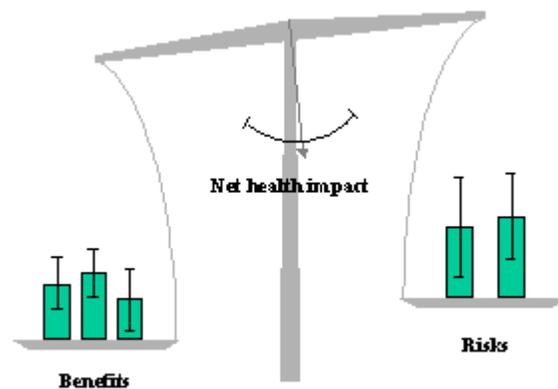
## 1. EXECUTIVE SUMMARY

National and European food policy, including regulations and advice to consumers, should take account of the risks and benefits of different foods, i.e. their positive and negative effects on human health. Information on risks and benefits should also be available to other interested parties, including food producers, retailers and consumers.

Usually, information on risks and benefits is presented separately. This is unsatisfactory, because it leaves the recipient uncertain as to the balance of risk and benefit. Ideally, information on risks and benefits should be combined to indicate the overall effects of particular dietary choices, i.e. the net health impact.

The central goals of QALIBRA are therefore to develop improved approaches for the assessment and communication of net health impact of dietary choices. To maximise dissemination and uptake of the project outputs, they will be implemented as web-enabled software.

Uncertainties affecting risks and benefits cause uncertainty about the magnitude and even the direction of the net health impact, as illustrated in Figure 1. Therefore, the approaches developed by QALIBRA aims to take account of uncertainties and communicate them effectively to both technical users and consumers.



*Figure 1. Net health impact depends on the balance of benefits and risks and their associated uncertainties.*

The new tools developed by QALIBRA will be tested and evaluated in detailed case studies including the important and topical examples of seafood and functional foods.

The specific objectives of QALIBRA are therefore as follows:

1. Develop a generalised modular approach to risk-benefit analysis,
2. Implement the approaches in web-enabled software, with different components adapted to different user groups,
3. Develop targeted risk communication strategies for integrated risk-benefit analysis, adapted to the needs of different stakeholders,
4. Use the methods and software developed by QALIBRA to carry out detailed case studies on the risks and benefits of oily fish and functional foods,
5. Establish information-sharing and joint activities with BENERIS, another EU-funded project undertaking complementary research,
6. Project management.



The work in the project is organized under 7 work packages, one for each of objectives 1-3 and 5-6 and 2 for the two case studies under objective 4. Progress and results achieved in each work package is summarized below.

Work package 1 began development of the generalised modular approach to risk-benefit analysis. Two reviews were conducted, one of dose response relationships for positive and negative health impacts, and the other of methods for integrating positive and negative effects to provide measures of net health impact. The findings of these reviews were presented in deliverables D3 and D5. Based on these findings, a preliminary framework was constructed, comprising one positive and one negative health effect, including methods for quantifying uncertainty. The overall outcome of this work is a renewed and refined version of the risk-benefit framework, however further development will be ongoing until month 42.

Work package 2 will implement the QALIBRA methods as web-enabled software. During the first year, versions 1 and 2 of the system design were developed and reviewed by project partners, and a framework website was built for the Qalibra tools to reside in at a later point. A formal usability evaluation of the website was conducted, producing extensive recommendations for its improvement. The website may be examined at [www.qalibra.eu](http://www.qalibra.eu).

Work package 3 is developing strategies for communicating and disseminating risk benefit information. A stakeholder analysis has been completed, to identify potential end-users and their information needs, and the findings were presented in deliverable D6. A detailed plan has been developed for a first round of consumer focus group studies on the communication of risk-benefit analysis outputs, which will be conducted in the next project period. In addition, this work package developed the plan for using and dissemination the knowledge for the QALIBRA project as a whole.

Work package 4 is developing case study 1, on oily fish. The case study is proceeding in two stages, first a preliminary analysis comprising one positive and one negative health effect, and then a more comprehensive analysis including a wider range of effects. During the first year data required for the case study were collected from the literature and provided as input for modelling of dose/response relationships for the positive and negative effects and their integration in a measure of net health impact, disability adjusted life years (DALYs). Results of the preliminary analysis were presented to partners at a project meeting in March 2007 and will be submitted as a written report in the next period.

Work package 5 is developing case study 2, on functional foods. The main work on this is planned for later in the project, however a start has already been made by collecting data about one functional food: i.e. food enriched with phytosterol/stanol esters. This will be developed further in the next period.

Work package 6 comprises cluster activities between QALIBRA and the BENERIS project, which is conducting complementary research on risk-benefit analysis. The first Cluster meeting was held at the same time as both projects conducted their separate kick-



off meetings and the outcome was reported in deliverable D2. A website for the cluster was established and is available on the internet at [www.qalibra-beneris.eu](http://www.qalibra-beneris.eu) (deliverable D4). In addition, the membership of the joint Scientific Advisory Panel (SAP) for Qalibra and Beneris was finalized, which will provide independent expert review of future plans and outputs from both projects.

Work package 7 is responsible for coordination and management of the QALIBRA project. In the first period, this work package established the project consortium agreement, developed a poster presentation on the Qalibra project (deliverable D1), developed the project website ([www.qalibra.eu](http://www.qalibra.eu)), organized three project meetings and coordinated the preparation of the first annual report for the project.

The main elements of the publishable result of the plan for using and dissemination the knowledge are: project website, posters, brochures, presentations at scientific conferences and scientific publications. Furthermore, the QALIBRA web tool system website will become public at the end of the project

The expected end result of the project is the completion of advanced tools and approaches for analyzing and communicating the risks, benefits and net health effects of dietary choices, implemented as web-enabled software with different functions adapted to the needs of different end-users. This is intended for use by a range of stakeholders, including policy-makers, the food industry and consumers, providing them with better information on the overall health impacts of different foods, or of foods produced by different methods. This will enable decision-makers and consumers to make well-informed choices between different foods, or between different production practices, and thereby improve the safety and health benefits of the food chain.

The public website for the project may be examined at [www.qalibra.eu](http://www.qalibra.eu)

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National Institute of Public Health and The Environment	RIVM	The Netherlands
Wageningen University	WU	The Netherlands
University of Patras	UPATRAS	Greece
Altagra Business Service	ALTAGRA	Hungary
National Institute for Agriculture and Fisheries Research	INIAP/IPIMAR	Portugal

## 2. PROJECT OBJECTIVES & MAJOR ACHIEVEMENTS-YEAR 1

### Overview of general project objectives

The strategic goals of QALIBRA are to develop a suite of quantitative methods for assessing and integrating beneficial and adverse effects of foods, apply them to selected food groups, and make them available to all stakeholders as web-based software for assessing and communicating net health impacts.

The general objectives of QALIBRA are:

1. Develop a generalised modular approach to risk-benefit analysis using menus of dose-response and valuation functions. The dose-response functions will cover different types of positive and negative health effects that are commonly encountered in food safety assessment. The valuation functions will integrate positive and negative health effects using common measures of net health impact (e.g. quality-adjusted life years, QALYs). The framework will also include methods for comprehensive risk ranking, methods for characterising data quality and methods for separating uncertainty and variability (Workpackage WP1).
2. Implement the risk-benefit analysis methods developed in QALIBRA in web-enabled software that is available for use by all stakeholders via an integrated website, with different components adapted to different user groups using appropriate interaction styles, terminology and information presentation techniques (WP2).
3. Develop targeted risk communication strategies for integrated risk-benefit analysis, adapted to the needs of different stakeholders, and develop and test programs and materials for dissemination of the practical use of the QALIBRA software by technical end-users (WP3).
4. Use the methods and software developed by QALIBRA to carry out comprehensive risk-benefit analyses for selected food groups including oily fish (with input from Beneris for salmon & herring) and functional foods, for selected EU populations, and use the results to evaluate and improve the QALIBRA approaches (WP4 & 5).
5. Establish a platform for cluster activities between QALIBRA and BENERIS projects and report about them to the Commission (WP6).
6. Manage and coordinate the QALIBRA project to ensure the activities are properly focussed on the Commission's objectives and achieve high standards of scientific and technological excellence, ensure the quality of the consortium personnel and the mobilisation of resources, to monitor and evaluate progress against the project milestones and to make timely and appropriate adjustments when necessary (WP7).

Approaches for risk-benefit analysis with respect to food safety are currently at a relatively early stage of development. In recent years attempts have increasingly been made to quantify the risks and benefits of dietary choices, but usually they are considered separately or integrated only in a qualitative way. Although general frameworks for risk-benefit analysis have been proposed in the literature, the few studies that have quantified net health impacts have been specific to particular problems. Uncertainties affecting risks and benefits are often given only fleeting consideration and are very rarely quantified in

any formal way. The few research studies, which have quantified net health impacts, have not attempted to quantify the uncertainties associated with them. Finally, while there has been a rapid growth in social sciences addressing risk perception and risk communication, only limited attention has so far been given to approaches for communicating net health impacts, or to approaches for communicating uncertainty.

QALIBRA will advance this state of the art by:

- further developing the concept of a general framework for risk-benefit analysis, and optimising it for ranking, assessing and integrating beneficial and adverse effects of foods and their environmental contaminants
- evaluating dose-response models and functions for integrating and valuing health impacts, selecting those most relevant to food safety questions and refining them if necessary for use in the general framework
- identifying suitable methods for characterising the main types of uncertainty affecting food risk-benefit assessments, and incorporating them in the framework
- investigating the risk-benefit information needs and reactions of technical users and consumers, and developing effective risk-benefit communication strategies
- implementing the approaches as web-based software for assessing and communicating net health impacts, with appropriate functions for both technical users and consumers
- intensive testing and evaluating the approaches in detailed case studies, including the important and topical example of seafood and functional food.

### **Summary of recommendations from previous reviews**

As this was the first year there are no recommendations from previous reviews

### **Summary of the objectives, work performed, contractors involved and main achievements year 1 for different workpackages (WP)**

**WP1.** Development of generalised modular approach to risk-benefit analysis using menus of dose-response and valuation/integration functions

- Catalogue and ranking of dose response relationships for positive and negative health impacts, this work was performed by RIVM, CSL and IFL/Matis, the outcome of this work was deliverable D5.
- Catalogue and ranking of existing integration methods, this work was performed by RIVM, CSL and IFL/Matis, the outcome of this work was deliverable D3.
- Construction of a preliminary framework based on one positive and one negative health effect with emphasis on uncertainty analyses, this work was carried out by

RIVM and CSL. The outcome of this work is a renewed and refined version of the risk-benefit framework, however further development will be ongoing until month 42

**WP2.** Implementation of methods as web-enabled software for all stakeholders

- Planning of the system design, versions 1 and 2, and producing a framework website for the QALIBRA tool to reside in at a later point. This work was carried out by CSL and the main achievements are versions 1 and 2 of system design.
- Usability evaluation of vers.1 of dummy web-pages. This work was performed by UPATRAS and the outcome of this work was Deliverable D10.

**WP3.** Development of strategies for communicating and disseminating risk benefit information and dissemination

- Conduct stakeholder analysis, identify potential end-users and their need for information. This work was carried out by WU, CSL, RIVM, IFL/Matis, UPATRAS and IPIMAR and the outcome was deliverable D6.
- Develop version 1 of the ‘Plan for using and disseminating the knowledge for QALIBRA. This work was performed by IFL/Matis with inputs from all consortium participants, the plan is enclosed in Annex 1 to this report.
- Develop detailed plan for first round of consumer focus group studies on the communication of risk-benefit analysis outputs. This work was carried out by WU and RIVM and will be used for consumer focus group studies in the next project period.

**WP4.** Case study 1 on seafood

- Collect data for phase A of the case study. This work was carried out by IFL/Matis, IPIMAR and RIVM and was finalized during this reporting period.
- Provide data for input into WP1, i.e. modelling of dose/response relationships for positive and negative health impacts. This work was performed by IFL/Matis and IPIMAR.

**WP5.** Case study 2 on functional foods

- Start preliminary work for risk-benefit analyses for a functional food by collecting data about one functional food: i.e. food enriched with phytosterol/-stanol esters. This work has been carried out by RIVM and will be developed further in the next period.

**WP6.** Cluster activities between the QALIBRA and BENERIS projects

- Establish the cluster activities between the QALIBRA and BENERIS projects. This work has mainly been carried out by IFL/Matis, CSL, RIVM and KTL. The

first Cluster meeting was held at the same time as both projects conducted their separate kick-off meetings and a report containing the output from the Cluster meeting has been delivered (deliverable D2).

- Develop cluster website. This work has been performed by CSL and BENERIS and the output is available on the internet [www.qalibra-beneris.eu](http://www.qalibra-beneris.eu) (deliverable D4).
- Finalize the membership of the Scientific Advisory Panel (SAP) for QALIBRA and BENERIS. This work has required input from four participants of the QALIBRA consortium i.e. IFL/Matis, CSL, WU and RIVM as well as KTL from the BENERIS consortium.

#### **WP7. Project coordination and management**

- Start the QALIBRA project and finalize the contracting work and the consortium agreement. This work was performed by IFL/Matis and was finalized in the reporting period.
- Develop the poster-project presentation of the QALIBRA project. This work was carried out by IFL/Matis and the outcome of this work was deliverable D1.
- Develop the project website. This work was performed by CSL and IFL/Matis and the output is available on the internet ([www.qalibra.eu](http://www.qalibra.eu)).
- Organize & plan project meetings and ensure that minutes are prepared for all meetings. Three overall project meetings have been held in the project during the first year and reports that described the outcome of each meeting are enclosed with this report (Annex 2, 3 and 4). This work has been carried out by IFL/Matis, CSL, RIVM and IPIMAR
- Prepare guidelines & templates for the QALIBRA consortium members for the preparation of the annual reports for the project. This work was carried out by IFL/Matis and these are available on the project Website.

### **3. WORKPACKAGE PROGRESS OF THE PERIOD**

#### **Overview of the actions carried out in WP1-WP7 in the reporting period**

#### **WP1. Development of generalised modular approach to risk-benefit analysis using menus of dose-response and valuation/integration functions**

*Workpackage objectives and starting point of work at beginning of reporting period*

- The first objective of WP1 during the first period of the project was to identify and catalogue different types of dose response models relevant to detrimental and beneficial effects of seafood and other food.

- The next objective during this first period was focused on the catalogue and ranking of existing integration methods for positive and negative health effects (e.g. qualitative, quantitative and economics).
- In collaboration with IFL/Matis and CSL (meeting in Sept. 2006, and telephone conference in Oct. 2006) the focus of case study 1A re. positive and negative health effect was to be agreed on. WP1 needed this info to start the developmental modelling work.
- Begin of gathering of up to date information on the negative health effects of seafood and overall human exposure.
- To start with dose-response algorithms for the selected positive and negative health effects
- To start with the work on the development of a generalised framework for risk-benefit analyses
- To list the potential uncertainties involved in risk-benefit calculations (e.g. dose response relationships and extrapolation factors) and developed algorithms to quantify some of these uncertainties
- The starting point of work was Annex I - “*Description of Work*”.

*Progress towards objectives – tasks worked on and achievements made with reference to planned objectives, identification of contractors involved*

- An overview of different dose-response models (D5) was constructed and presented (RIVM) and discussed at QALIBRA meeting 2 (CSL, IFL/Matis). Draft versions of D5 were revised according to the comments of the other WP partners involved. It was concluded that especially in this new field of risk-benefit analyses the focus on dose-response modelling should be emphasised. It was agreed to prepare an additional scientific paper based on D5 (RIVM).
- RIVM also prepared an overview of the different integration methods for positive and negative health effects (D3). Again this was presented and discussed during meeting 2 (CSL, IFL/Matis). Deliverable D3 was revised according to the comments. Based on this overview it was decided to focus on the policy maker as the main stakeholder for case study 1A. Furthermore it was decided to use the DALY as integration method (RIVM, CSL, IFL/Matis, WU).
- A preliminary framework based on 1 positive (IFL/Matis) and 1 negative health effect (RIVM) was developed and sent to CSL for further work and refinement. This framework was based on earlier work from Hoekstra et al. (submitted). Case study 1A data were used within this draft framework – ongoing until M42
- Work was started to propagate uncertainties in risk-benefit assessments (RIVM, CSL). First attempts to produce algorithms of uncertainties and their impacts were visualised during a presentation by CSL and discussed during meeting 3 in Portugal – ongoing until M42.

*Deviations from the project workprogramme & corrective actions taken/suggested:*

Deliverable D8 (Version 3 of framework for integration and outputs, taking SAP review into account) will be delayed to Month 14 as the construction of the framework and the delivery of data on negative health effects turned out to be complicated. Especially quantitative and scientifically sound dose-response data on negative effects are hardly available, but almost a prerequisite for the model. As a consequence quantification of uncertainties is therefore also difficult. At the consortium meeting 3 in Portugal it was decided to move to case study 1B. Along our route the problems experienced in case study 1A will be managed in case study 1B. We expect to be on the planned time schedule after meeting 4.

**Table 1: Deliverables List for WP1**

Del. no.	Deliverable name	Work-package no.	Date due	Actual/Forecast delivery date	Estimated indicative person-months *)	Used indicative person-months *)	Lead contractor
D3	Catalogue and ranking of existing integration methods	1	Month 4	Month 8	10,5	11	RIVM
D5	Catalogue and ranking of dose response models	1	Month 8	Month 8	7,25	8	RIVM
D7	Set of dose-response models and algorithms for some specific effects that are relevant for consumption of selected foods	1	Month 12-42	Month 12-42	18		RIVM
D8	Version 3 of framework for integration and outputs taking Advisory Panel review into account	1	Month 12	Month 18	15		RIVM
D13	Version 4 of framework taking account of lessons from case studies WP4	1	Month 18	Month 24	12,25		RIVM
D28	Scientific papers on dose-response and uncertainty models	1	Month 42	Month 42	6,5		RIVM

D29	Scientific papers on framework and integration methods	1	Month 42	Month 42	5		RIVM

**Table 2: Milestones List for WP1**

Milestone no.	Milestone name	Work-package no.	Date due	Actual/Forecast delivery date	Lead contractor
M1.1	Inventory of types of dose-response models and endpoints potentially relevant for risk-benefit in selected foods	1	Month 8	Month 8	RIVM
M1.2	Partners review of dose-response and uncertainty algorithms	1	Month 12	Month 12-18	RIVM
M1.3	Criteria for data quality of each type of dose response relationship	1	Month 42	Month 42	RIVM
M1.4	Inventory of types of dose-response models useful for risk-benefit measures and ranking their information content	1	Month 42	Month 42	RIVM
M1.5	Catalogue and ranking of integration methods and selected primary method accepted by partners	1	Month 4	Month 8	RIVM
M1.6	Partners review of proposed framework	1	Month 12	Month 12-18	RIVM
M1.7	Adapted framework based on experience in case studies WP4 and 5	1	Month 18	Month 18-24	RIVM

**WP2. Implementation of methods as web-enabled software for all stakeholders**

***Workpackage objectives and starting point of work at beginning of reporting period***

- Agree detailed development procedures.
- Version 1 of system design: overall structure & basic functions.
- Version 2 of system design: add outline design for framework functions. Plan for evaluation of system usability (link with stakeholder analysis in WP3).
- Version 1 of dummy web-pages for basic functions and framework functions.
- Vers.3 of system design: detailed plan for basic & framework functions and first algorithms from WP1.
- Usability evaluation of vers.1 of dummy web-pages.

- Vers.2 of dummy web-pages.
- Start implementation of system.
- The starting point of work was Annex I - “Description of Work”.

***Progress towards objectives – tasks worked on and achievements made with reference to planned objectives, identify contractors involved***

- CSL worked on the detailed planning of the system design, versions 1 and 2, and produced a framework website for the QALIBRA tool to reside in at a later point.
- UPATRAS produced a Usability Evaluation of this website (Deliverable D10), in order that it might provide a stable basis for the implementation of the rest of the system.

***Deviations from the project workprogramme, and corrective actions taken/suggested:***

Deliverable D9 has been delayed by one month, to Month 13. Because of this, implementation of the system has not yet started. It is anticipated that all this delay will be caught up by Month 18. The delay was due to a decision taken by the Management Board that it would be sensible to delay the writing of D9 until after the end of Case Study 1A. It is not anticipated that this delay will cause any delays in other Deliverables.

**Table 1: Deliverables List WP2**

Del. no.	Deliverable name	Work-package no.	Date due	Actual/Forecast delivery date	Estimated indicative person-months *)	Used indicative person-months *)	Lead contractor
9	System design v3: basic & framework functions and 1st algorithms from WP1.	2	Month 12	Month 13	22		CSL
10	Report 1 on usability evaluation.	2	Month 12	Month 12	2.5	2.5	UPATRAS
14	Version 1 of system with functions for basic operations, framework and Case Study 1-A on seafood.	2	Month 18	Month 18	9		CSL
17	Report 2 on usability evaluation of the system	2	Month 24	Month 24	2.5		UPATRAS
18	Version 2 of system including functions for Case Studies 1-B on seafood	2	Month 24	Month 24	12		CSL
21	Version 3 of system including consumer information functions	2	Month 30	Month 30	7		CSL

23	Report 3 on usability evaluation of the system	2	Month 36	Month 36	16		UPAT RAS
32	Final system, system design, user documentation & arrangements for long-term support	2	Month 42	Month 42	8		CSL

**Table 2: Milestones List WP2**

Milestone no.	Milestone name	Work-package no.	Date due	Actual/Forecast delivery date	Lead contractor
M2.1	Version 3 of system design reviewed and accepted by partners as basis for implementation.	2	Month 12	Month 13	CSL
M2.2	Decide improvements to system, based on case study 1-A on seafood and usability evaluation.	2	Month 24	Month 24	CSL
M2.3	Decide final improvements, based on case studies 1 and 2, usability evaluation & end-user workshop.	2	Month 36	Month 36	CSL

**WP3. Development of strategies for communicating and disseminating risk benefit information and dissemination**

***Workpackage objectives and starting point of work at beginning of reporting period***

- Identify potential end-users & stakeholders and outline plan for stakeholder analysis.
- Conduct stakeholder analysis, identifying potential end-users and their information needs (D6 and M3.1).
- Develop version 1 of QALIBRA dissemination plan.
- Develop detailed plan for first round of consumer focus group studies on the communication of risk-benefit analysis outputs.
- To size opportunities to disseminate the QALIBRA project.
- The starting point of work was Annex I - “Description of Work”.

***Progress towards objectives – tasks worked on and achievements made with reference to planned objectives, identification of contractors involved***

- In collaboration with CSL, IFL/Matis, IPIMAR, RIVM, and UPATRAS, WU has developed a list of potential end-users and stakeholders (D6 and M3.1). This list



was presented and adjusted at the consortium meeting held at IPIMAR in Lisbon on March 15 – 16<sup>th</sup> 2007.

- IFL/Matis wrote revision 1 of the ‘Plan for using and disseminating the knowledge’ for the QALIBRA project.
- IFL/Matis has worked on a draft introduction brochure about the QALIBRA project.
- RIVM has hosted a meeting with Wageningen University in the Netherlands on the 22<sup>th</sup> of January 2007 to assess ideas for the first round of consumer focus groups.
- WU has developed a detailed plan for the first round of consumer focus groups and presented and discussed this with all partners at the consortium meeting held at IPIMAR in Lisbon on March 15 – 16<sup>th</sup> 2007.

### ***Dissemination activities***

The QALIBRA project was presented /disseminated at the following national and international conferences in 2006:

- Lecture at the Third SeafoodPlus Conference held in Tromsø, Norway May 29<sup>th</sup> – June 2<sup>nd</sup> 2006 (Dr. Nynke de Jong, RIVM)
- Poster and handout at The SAFE Consortium International Congress on Food Safety “Nutrition and Food Safety: Evaluation of Benefits and Risks”, held June 11-14. 2006 in Budapest, Hungary (Dr. Helga Gunnlaugsdottir, IFL)
- Proceeding from The SAFE Consortium International Congress on Food Safety “Nutrition and Food Safety: Evaluation of Benefits and Risks”, held 11-14. June 2006 in Budapest, Hungary. ISSN 1819-7779, (2006), pp 121-122.
- Lecture and proceedings at the 2<sup>nd</sup> Joint trans-Atlantic Fisheries Technology Conference (TAFT 2006), held in Quebec City, Canada, Oct 29.-Nov 1. 2006. (Dr. Sigurdur Bogason, IFL).
- QALIBRA project was introduced in a lecture held at the 2<sup>nd</sup> Joint trans-Atlantic Fisheries Technology Conference (TAFT 2006), in Quebec City, Canada, Oct 29-Nov 1<sup>st</sup> 2006.
- Poster and handout at a conference held by Rannís – The Icelandic Centre for Research in Reykjavik, Iceland on the 26<sup>th</sup> of January to promote and introduce the recently launched seventh framework programme from EU (Dr. Helga Gunnlaugsdottir, IFL/Matis).
- Lecture at The 8th Food Chemistry Meeting held 4-7th March 2007 in Beja, Portugal. (Dr. Maria Leonor Nunes; IPIMAR)
- Proceeding from the 8th Food Chemistry Meeting held on March 4-7. 2007 in Beja, Portugal. ISBN-SPQ-978-97299080-9-5, (2007) page 19.

### ***Deviations from the project work program, and corrective actions taken/suggested:***

The focus groups with stakeholders other than consumers (e.g. food industry, food safety authorities) have been replaced with an online Delphi method to identify the information needs of these stakeholders. The Delphi method is a procedure to obtain a reliable consensus from a group of experts by a series of intensive questionnaires interspersed with controlled opinion feedback. There are difficulties in getting experts

together to run focus groups across diverse geographical locations. The main advantage of an online Delphi survey is that a broad group of experts can be involved without interruption of geographical dispersion or financial limitations.

**Table 1: Deliverables List WP3**

<b>Del. no.</b>	<b>Deliverable name</b>	<b>Work-package no.</b>	<b>Date due</b>	<b>Actual/Forecast delivery date</b>	<b>Estimated indicative personmonths</b>	<b>Used indicative personmonths*)</b>	<b>Lead contractor</b>
D6	Report on stakeholder analysis, identifying potential end-users and their information needs.	3	Month 10	Month 11	9	9	WU
D15	Report on first focus group study, on communication of risk-benefit analysis outputs.	3	Month 18	Month 18	11,5		WU
D22	Dissemination materials for first end-user workshop	3	Month 34	Month 34	9		UPATRAS
D26	Report on second focus group study, on interactive provision of personal risk-benefit information.	3	Month 36	Month 36	8		WU
D33	Final dissemination plan for post-project activities.	3	Month 42	Month 42	5		Matis

**Table 2: Milestones List WP3**

<b>Milestone no.</b>	<b>Milestone name</b>	<b>Work-package no.</b>	<b>Date due</b>	<b>Actual/Forecast delivery date</b>	<b>Lead contractor</b>
M3.1	Potential end-users and their information needs identified.	3	Month 10	Month 10	WU
M3.2	Appropriate communication methods identified for risk-benefit analysis identified.	3	Month 18	Month 18	WU
M3.3	Methods identified for interactive provision of personal risk-benefit information.	3	Month 36	Month 36	WU

M3.4	End-user workshop completed.	3	Month 36	Month 36	Altagra
M3.5	Long-term dissemination plan finalised.	3	Month 42	Month 42	Matis

#### **WP4. Case study 1 on seafood**

##### ***Workpackage objectives and starting point of work at beginning of reporting period***

- The objective for WP4 during the first period of the project was to develop a strategy for the data collection with the focus on case A.
- To find data on how contaminants and nutrients in oily fish positively or negatively influence health, measured by various endpoints.
- Begin gathering information on the overall human exposure to the contaminants and nutrients.
- To use the methods developed by QALIBRA to test risk-benefit analysis for selected food groups, for selected EU populations
- To grasp opportunities to disseminate the QALIBRA project.
- The starting point of work was Annex I - “*Description of Work*”.

##### ***Progress towards objectives – tasks worked on and achievements made with reference to planned objectives, identification of contractors involved***

- Strategies in data searching and data collation for case study 1 (phase A and B) on oily fish was developed jointly by IFL/Matis, IPIMAR and RIVM on various phone and physical meetings during this period.-ongoing.
- Data collation for phase A (case study 1A) was finalized during this period by IFL/Matis and IPIMAR, focusing on the effect of omega-3 fatty acids on the endpoint: "stroke". -finished.
- Data collection for phase B began in this period, i.e. the case study on the whole spectrum of risks and benefits in relation to oily fish consumption. The emphasis was put on sampling data on endpoints within the fields of "cardiovascular health" (IPIMAR) and "brain function and mental health" (IFL/Matis).-ongoing.
- Data on the availability of fish consumption data in EU countries has been collated in this period by IFL/Matis, IPIMAR, RIVM and CLS.-ongoing.
- Extensive modeling has been carried out to propagate uncertainty through the whole risk-benefit assessment. Preliminary results were produced using the framework algorithms (RIVM, CLS).
- IPIMAR disseminated QALIBRA project through a presentation of a scientific paper in the 8<sup>o</sup> EQA- Food Chemistry Meeting-(Beja, Portugal) related to the risks and benefits of fish products (March 2007).
- People from IPIMAR, presented QALIBRA project and some preliminary achievements at internal regular conferences (March 2007).

***Deviations from the project workprogramme & corrective actions taken/suggested:***

Deliverable D11 (IFL/Matis; Preliminary outputs from Case Study 1-A, for use as examples in WP3 focus groups) will be delayed by 2 months to Month 14 because of delay in D8 (RIVM; Version 3 of framework for integration and outputs, taking Scientific Advisory Panel review into account) as D8 is being developed in parallel with D11.

**Table 1: Deliverables List WP4**

Del. no.	Deliverable name	Work-package no.	Date due	Actual/Forecast delivery date	Estimated indicative person-months *)	Used indicative person-months *)	Lead contractor
D11	Preliminary outputs from Case study 1-A , for use as examples in WP3 focus groups.	4	Month 12	Month 14	16,5		IFL/Matis
D19	Report on case study 1A	4	Month 24	Month 24	17		Matis
D24	Report on case study 1 B	4	Month 36	Month 36	17		Matis
D30	Scientific paper(s) on case studies A and B	4	Month 42	Month 42	2		Matis

**Table 2: Milestones List WP4**

Milestone no.	Milestone name	Workpackage no.	Date due	Actual/Forecast delivery date	Lead contractor
M4.1	Performance of version 1 software evaluated in case study 1 A, decide on improvements	4	Month 24	Month 24	Matis
M4.2	Performance of version 1 software evaluated in case study 1 A, decide on improvements	4	Month 36	Month 36	Matis

**WP5. Case study 2 on functional foods**

***WP objectives, starting point of work at beginning of reporting period***

- Start preliminary work for risk-benefit analyses for a functional food

***Progress towards objectives, tasks worked on and achievements made with reference to planned objectives, identify contractors involved***

- Drafted a database about positive and negative health effects of one functional food: i.e. food enriched with phytosterol/-stanol esters (RIVM)
- Defined strength of evidence for effects (RIVM)
- Evaluated usability of the available data (RIVM)
- Investigated dose-response data (RIVM)
- Tabulated remaining issues and planning (RIVM)
- Discussed results at project meeting 3 in Portugal (March 2007) (RIVM).

***Deviations and corrective actions***

No deviations

**Table 1: Deliverables List WP5**

Del. no.	Deliverable name	Work-package no.	Date due	Actual/Forecast delivery date	Estimated indicative person-months *)	Used indicative person-months *)	Lead contractor
D25	Report on case study 2 on functional food and outputs for use as examples in WP3 end-user workshop	5	Month 36	Month 36	18		RIVM
D30	Scientific paper on case study 2	5	Month 42	Month 42	2,5		RIVM

**Table 2: Milestones List WP5**

Milestone no.	Milestone name	Work-package no.	Date due	Actual/Forecast delivery date	Lead contractor
M5.1	Performance of version 4 software evaluated in case study 2, decide on improvements	5	Month 36	Month 36	RIVM

**WP6. Cluster activities between the QALIBRA and BENERIS projects**

***Workpackage objectives and starting point of work at beginning of reporting period***

- Establish the cluster activities between the QALIBRA and BENERIS projects
- Develop cluster website
- Finalize the membership of the Scientific Advisory Panel (SAP) for QALIBRA and BENERIS
- As this was the first reporting period the starting point of work was Annex I - “Description of Work”

***Progress towards objectives – tasks worked on and achievements made with reference to planned objectives, identify contractors involved***

- The first Cluster meeting of the QALIBRA and the BENERIS projects was organized and planned by IFL/Matis in cooperation with KTL, RIVM and CSL. The meeting was held at RIVM, Netherlands May 23<sup>rd</sup>-24<sup>th</sup> 2006 at the same time as both projects conducted their separate kick-off meetings. The cluster meeting was attended by representatives from all seven participants of the QALIBRA consortium.
- IFL/Matis was responsible for writing a report containing the output from the Cluster meeting. This report was submitted to the Commission as deliverable D2 in July.
- The cluster website ([www.qalibra-beneris.eu](http://www.qalibra-beneris.eu)) was developed by CSL and BENERIS; this was submitted to the Commission as deliverable D4 in July.
- The first draft of a cluster agreement between QALIBRA and BENERIS has been written by IFL/Matis
- The membership of the Scientific Advisory Panel (SAP) for QALIBRA and BENERIS has been finalized. This has required input from four participants of the QALIBRA consortium i.e. IFL/Matis, CSL, WU and RIVM as well as KTL from the BENERIS consortium.
- CSL has liaised with BENERIS about methods for quantifying uncertainty. To progress this, a CSL scientist visited Delft University (a partner of BENERIS) to learn about their methods for dealing with uncertainty in expert opinion, which may be useful in QALIBRA.
- IFL/Matis has communicated with BENERIS about the organization and planning of the midterm meeting, which will be partly held jointly with the BENERIS consortium in Helsinki, Finland, October 31<sup>st</sup> - November 2<sup>nd</sup>.

***Deviation***

Due to change in personnel there has been a delay in the finalizing the cluster agreement between QALIBRA and BENERIS

Due to delay in other workpackages, sharing data on concentrations (exposure assessment) between QALIBRA and BENERIS will be delayed by 2 months to Month 14 instead of Month 12.

**Table 1: Deliverables List WP6**

Del. no.	Deliverable name	Work package no.	Date due	Actual/Forecast delivery date	Estimated indicative person-months *)	Used indicative person-months *	Lead contractor
D2	Report from the cluster activities	6	Month 3	Month 3	2	2	IFL/Matis
D4	Establishment of a cluster web-page	6	Month 4	Month 4	1	1	CLS
D16	Report from the cluster activities related to the midterm meeting	6	Month 20	Month 20	2		Matis
D35	Final report from the cluster activities	6	Month 42	Month 42	2		Matis

**Table 2: Milestones List WP6**

Milestone no.	Milestone name	Workpackage no.	Date due	Actual/Forecast delivery date	Lead contractor
M6.1	Project kick-off meeting	6	Month 2	Month 2	IFL/Matis
M6.2	Sharing data on concentrations (exposure assessment)	6	Month 12	Month 14	IFL/Matis
M6.3	Midterm meeting	6	Month 19	Month 19	Matis
M6.3	SAP Meetings	6	Month 39	Month 39	Matis

## **WP7. Project coordination and management**

### ***Workpackage objectives and starting point of work at beginning of reporting period***

- The objective during the first project year has been to start the QALIBRA project, finalize the contracting work and the consortium agreement
- Fine tune, monitor and coordinate the work in the project
- Finalize Deliverable D1 (poster-project presentation)
- Develop the project website
- Organize & plan project meetings and ensure that minutes were prepared for all meetings
- Prepare guidelines & templates for the QALIBRA consortium members for the preparation of the annual reports for the project

- As this was the first reporting period the starting point of work was Annex I - “Description of Work”

***Progress towards objectives – tasks worked on and achievements made with reference to planned objectives, identification of contractors involved***

- IFL/Matis was responsible for finalizing the contracting work with the Commission and the Contract N°FOOD-CT-2006-022957 between the QALIBRA consortium and the Commission was signed in June.
- IFL/Matis wrote the first draft of the consortium agreement. It was distributed to all partners of the QALIBRA consortium who gave comments and after revision it was signed by all partners.
- IFL/Matis developed Deliverable D1, poster-project presentation, which was submitted to the Commission in June. It has been used to present the project at national and international meetings for both researchers and the public.
- The QALIBRA website was developed ([www.qalibra.eu](http://www.qalibra.eu)) by IFL/Matis and CSL. It was formally opened to the partners and the public in July. Part of the website is only open for partners and part of it is open for public. IFL/Matis and CSL have updated the website as needed.
- Three overall project meetings have been held in the project during the first year:
  - a) The kick-off meeting was held at RIVM, Netherlands, May 23<sup>rd</sup>-24<sup>th</sup> 2006. The meeting was organized and planned by IFL/Matis in cooperation with RIVM and CSL. Representatives from all partners attended the meeting. IFL/Matis and RIVM wrote a report that describes the outcome of the meeting (Annex 2).
  - b) The second project meeting was held at CSL, in York, UK, November 14-15<sup>th</sup> 2006. The meeting was organized and planned by IFL/Matis in cooperation with CSL. Representatives from all partners, except ALTAGRA, attended the meeting. IFL/Matis and CSL wrote a report that contains the main results of the discussions, main conclusions and actions (Annex 3).
  - c) The third project meeting was held at IPIMAR in Lisbon, Portugal, March 15-16<sup>th</sup> 2007. The meeting was organized and planned by IFL/Matis in cooperation IPIMAR and CSL. Representatives from all partners, except ALTAGRA, attended the meeting. CSL and IFL/Matis wrote a report that contains the main results of the discussions, main conclusions and actions (Annex 4).
- IFL/Matis prepared guidelines & templates for the participants in the QALIBRA consortium for the preparation of the annual reports (i.e. progress and financial reports) for QALIBRA.
- All partners have prepared running activity reports from each partner to WP leaders, these reports are intended for internal monitoring of the progress of project work etc
- CSL has been responsible for updating the overall project workplan.
- IFL/Matis has liaised with the European Commission scientific officer and informed her about the progress of the project as well as submitted project deliverables to the Commission.

- Advanced payments were distributed to partners in September 2006 and March 2007.
- The QALIBRA coordinator participated in the EFSA Science Colloquium 6, Risk-benefit Analysis of Foods: methods and approaches, held 13-14th 2006 July in Tabiano, Italy.

*Deviations from the project workprogramme & corrective actions taken/suggested:*  
No deviations from the project workprogramme have occurred in WP7

**Table 1: Deliverables List WP7**

Del. no.	Deliverable name	Work-package no.	Date due	Actual/Forecast delivery date	Estimated indicative person-months *)	Used indicative person-months *)	Lead contractor
D1	Poster-project presentation	7	Month 3	Month 3	0,5	0,5	IFL/Matis
D12	First periodic reports – activity report and periodic management (financial) report	7	Month 12	Month 14	1,5		IFL/Matis
D20	Second periodic report– activity report and periodic management (financial) report	7	Month 24	Month 26	1		Matis
D27	Third periodic report– activity report and periodic management (financial) report	7	Month 36	Month 38	1		Matis
D34	Fourth periodic reports – activity report and periodic management (financial) report	7	Month 42	Month 44	2		Matis
D36	Final Report to the Commission	7	Month 42	Month 44	2		Matis

**Table 2: Milestones List**

<b>Milestone no.</b>	<b>Milestone name</b>	<b>Work-package no.</b>	<b>Date due</b>	<b>Actual/Forecast delivery date</b>	<b>Lead contractor</b>
M7.1	Project kick-off meeting	7	Month 2	Month 2	IFL/Matis
M7.2	Overall project meetings of the partners	7	Month 8	Month 8	IFL/Matis
M7.2	Overall project meetings of the partners	7	Month 12	Month 12	IFL/Matis
M7.2	Overall project meetings of the partners	7	Month 19	Month 19	Matis
M7.2	Overall project meetings of the partners	7	Month 24	Month 24	Matis
M7.2	Overall project meetings of the partners	7	Month 30	Month 30	Matis
M7.2	Overall project meetings of the partners	7	Month 36	Month 36	Matis
M7.2	Overall project meetings of the partners	7	Month 39	Month 39	Matis
M7.3	Scientific Advisory Panel Meetings	7	Month 19	Month 19	Matis
M7.3	Scientific Advisory Panel Meetings	7	Month 39	Month 39	Matis

#### **4. CONSORTIUM MANAGEMENT**

##### **Consortium management**

The main decision body for the project consortium is the Project Steering Group and Scientific Committee (PSG/SC), which consists of the WP leaders, project coordinator and the chair of scientific committee. The main responsibility of the PSG/SC is to set the overall strategic course of the project. During this reporting period the PSG/SC has met in connection with three project meetings. The management role of the WP Leaders requires them to take stock of the progress regularly against the plans during the life of the project, and bring deviations to the attention of the other partners. A change in project coordinator occurred this reporting period, however, this change has not posed any problems to the consortium management.

A Scientific Advisory Panel (SAP) has been formed in cooperation with the project BENERIS (see WP6 for details) and is composed of four permanent members and additional experts will be invited to join on *Ad hoc* basis to compliment the expertise within the panel, depending on the issues being addressed. The SAP acts as an independent body, which will review progress of the work, and give advice regarding the scientific outputs from the project.

### **Changes in responsibilities and to the consortium itself**

The operation of the Icelandic Fisheries Laboratories (IFL) was discontinued on December 31, 2006. Matis ohf is an Icelandic governmental limited liability food research company which started operating on January 1<sup>st</sup> 2007 following the merge of Icelandic Fisheries Laboratories (IFL), Matvælarannsóknir Keldnaholti (MATRA) and Rannsóknarstofa Umhverfisstofnunar (RUST). As of January 1<sup>st</sup> Matis ohf took over all the responsibilities of IFL in the QALIBRA project and a corresponding amendment will be made to the project contract. As a result of the merger and foundation of Matis, some of the IFL people who had worked on the QALIBRA project resigned, one of them was Eva Yngvadottir who had been the project coordinator. As of 1<sup>st</sup> of January 2007, Helga Gunnlaugsdottir has been the coordinator of the QALIBRA project. Birna Guðbjörnsdottir, who had been the WP leader for WP4 and Sigurdur Bogason who had been the WP leader for WP6 also resigned as a result of the merger and foundation of Matis. Bjorn Thorgilsson has taken over as WP leader for WP4 and Heida Palmadottir as WP leader for WP6.

### **Project timetable and status**

The updated workplan and project timetable can be observed in the enclosed barchart.

#### *Changes and impacts on planned milestones*

In the first reporting period some deliverables and work in work packages were delayed by one to four months, as WP1, WP2, and WP4 have dependences on each others outputs this delay has caused changes for some tasks in the project timetable. The delay in deliverables has also resulted in comparable delays in planned milestones. It is envisaged that this discrepancy will be largely addressed by the end of month 18.



## **Coordination activities**

The Coordinating Partner (IFL/Matis) has the overall responsibility and executes the overall management of the project. The main coordination activities during this reporting period have included finalization of the contracting work & the consortium agreement, organization & planning of project meetings and ensuring that minutes were prepared for all meetings. IFL/Matis has also distributed advance payment from the Commission to the other partners, communicated with the Commission and sent deliverables from the project to the Commission. The project progress has been monitored by deliverables, updated overall workplan and project meetings. The project website has been used for maintaining the project document archive. Communication between partners has mainly been with electronic communications (Email, telephone etc.) as well as overall project meetings and work-package meetings. Possible co-operation with other projects/programmes have been identified and the aim is to establish contact with them in the next reporting period.

## **5. OTHER ISSUES RELATED TO PERIODIC ATIVITY REPORT**

The 'Plan for using and disseminating the knowledge' is presented in Annex 1 to this report.

## **6. PERIODIC MANAGEMENT REPORT FOR QALIBRA**

### **Justification of major cost items and resources for each workpackage (WP)**

#### **WP1. Development of generalised modular approach to risk-benefit analysis using menus of dose-response and valuation/integration functions**

*A brief description of the work performed in WP1 by each contractor:*

Partner 1 (IFL/Matis):

- Participated in discussions about dose-response data needed for WP1
- Refined methodology of data searching for case study 1A

Partner 2 (CSL):

- Commented on draft versions of deliverables D3 and D5
- Developed and refined the QALIBRA framework jointly with RIVM.



- Investigated methods for quantifying uncertainty in dose-response and extrapolation factors.
- Developed algorithms to quantify some uncertainties and implemented them as computer models.

#### Partner 3 (RIVM):

- Produced deliverables D3 and D5
- Drafted a dose-response model for a beneficial and a detrimental effect that is relevant for the consumption of seafood jointly with CSL and IFL/Matis
- Developed and refined the QALIBRA framework jointly with CSL.
- Co-investigated methods for quantifying uncertainty in dose-response and extrapolation factors.
- Hosted the kick-off meeting (QALIBRA + BENERIS) in May 2006 and an interim project meeting in September 2006
- Preparation of projectmeeting 2 (November 2006) and 3 (March 2007)
- Start of scientific paper on dose-response models

#### Partner 4 (WU)

- WU has attended a working meeting held at RIVM in the Netherlands on September 11<sup>th</sup> 2006.

#### *Explanatory note on any major cost items*

#### Partner 1 (IFL/Matis):

IFL/Matis attended three major project meetings during the reporting period, and one additional meeting. The Kick-off meeting was held at RIVM in the Netherlands in May 2006, and involved two IFL/Matis staff. Project meeting 2 was held at CSL in October 2006, and involved three IFL/Matis staff. Project meeting 3 was held at IPIMAR in Portugal in March 2007 and was attended by two IFL/Matis members of staff. IFL/Matis also attended a meeting in September held with partners involved in WP1 & WP4 at RIVM in the Netherlands. IFL/Matis is the coordinator and WP leader for 3 workpackages in the QALIBRA project which increases the number of meeting delegates required.

#### Partner 2 (CSL):

CSL attended three major project meetings during the reporting period, and one additional meeting. The Kick-off meeting was held at RIVM in the Netherlands in May 2006, and involved three CSL staff. Project meeting 2 was held at CSL in October 2006, with low costs for CSL, and project meeting 3 was held at IPIMAR in



Portugal in March 2007 and was attended by four CSL members of staff. The CSL contingent involves co-operation between two distinct CSL teams, Risk Analysis and Information Systems, which increases the number of meeting delegates required.

**Partner 3 (RIVM):**

RIVM attended three major project meetings during the reporting period, and hosted one additional meeting. The Kick-off meeting was hosted at RIVM in the Netherlands in May 2006, and involved some organisation effort as this was a joint meeting of BENERIS and QALIBRA. Project meeting 2 was held at CSL in October 2006, and involved three RIVM staff members. Project meeting 3 was held at IPIMAR in Portugal in March 2007 and was attended by four RIVM members of staff. The RIVM contingent involves co-operation between four distinct RIVM centres: Centre for Nutrition and Health, Centre for Substances and Integrated Risk Assessment, Centre for Public Health Forecasting, and the Centre for Prevention and Health Care Research, which increases the number of meeting delegates required.

*A summary explanation of the impact of major deviations for WP1*

The construction of the framework and the delivery of data on negative health effects turned out to be laborious. Especially as quantitative and scientifically sound dose-response data on negative health effects turned out to be hardly available, but almost a prerequisite for the model. As a consequence the development of the general framework experiences some delays. It is envisaged that this delay in WP1 will be largely addressed by the end of Month 18.

A tabular overview of budgeted costs and actual costs

**Table 3: Budget vs Actual Costs**

<b>Cost Budget Follow-up Table</b>									
*) total budget figures-not EC funding									
Contract N°: FOOD-CT-2006-022957			Acronym: QALIBRA				Date: 01.04.07		
Participants	Type of expenditure (as defined by participants)	Budget	Actual Costs (EUR)					Pct. Spent	Remaining Budget (EUR)
			Period 1	Period 2	Period 3	Period 4	Total	Total	
			e	al	b1	c1	d1	e1	
Part. 1, IFL/Mafis	<b>Total Person-month</b>								
	Personnel costs	288.750	84.869				84.869	29,4	203881,000
	Major cost item 'X'						0	0,0	0,000
	Major cost item 'Y'						0	0,0	0,000
	Other costs (The rest)	441.515	102.362				102.362	23,2	339153,500
	<b>Total Costs</b>	<b>730.265</b>	<b>187.231</b>				<b>187.231</b>	<b>25,6</b>	<b>543034,500</b>
Part. 2, CSL	<b>Total Person-month</b>						0		0,000
	Personnel costs	426.934	75.971,26				75.971	17,8	350962,740
	Major cost item 'X'	10.000	0				0	0,0	10000,000
	Major cost item 'Y'						0	0,0	0,000
	Other costs (The rest)	416.894	55.926,60				55.927	13,4	360967,400
	<b>Total Costs</b>	<b>853.828</b>	<b>131.898</b>				<b>131.898</b>	<b>15,4</b>	<b>721930,140</b>
Part. 3, RIVM	<b>Total Person-month</b>	63	28				28		35,000
	Personnel costs	678.912	254.099,00				254.099	37,4	424813,000
	Major cost item 'X'						0	0,0	0,000
	Major cost item 'Y'						0	0,0	0,000
	Other costs (The rest)	68.000	9.745,00				9.745	14,3	58255,000
	<b>Total Costs</b>	<b>746.912</b>	<b>263.844</b>				<b>263.844</b>	<b>35,3</b>	<b>483068,000</b>
Part. 4, WU	<b>Total Person-month</b>	25	7				7		17,980
	Personnel costs	204.329	20.299,63				20.300	9,9	184029,370
	Major cost item 'X'						0	0,0	0,000
	Major cost item 'Y'						0	0,0	0,000
	Other costs (The rest)	35.866	4.732,73				4.733	13,2	31133,270
	<b>Total Costs</b>	<b>240.195</b>	<b>25.032</b>				<b>25.032</b>	<b>10,4</b>	<b>215162,640</b>
Part. 5, UPATRAS	<b>Total Person-month</b>	36					0		36,000
	Personnel costs	165000	21.433,00				21.433	13,0	143567,000
	Major cost item 'X'						0	0,0	0,000
	Major cost item 'Y'						0	0,0	0,000
	Other costs (The rest)	67800	9.494,29				9.494	14,0	58305,710
	<b>Total Costs</b>	<b>232800</b>	<b>30.927</b>				<b>30.927</b>	<b>13,3</b>	<b>201872,710</b>
Part. 6, ALTAGRA	<b>Total Person-month</b>	2	0,5				1		1,500
	Personnel costs	14.000	800,00				800	5,7	13200,000
	Major cost item 'X'						0	0,0	0,000
	Major cost item 'Y'						0	0,0	0,000
	Other costs (The rest)	41.200	941,47				941	2,3	40258,530
	<b>Total Costs</b>	<b>55.200</b>	<b>1.741</b>				<b>1.741</b>	<b>3,2</b>	<b>53458,530</b>
Part. 7, IPIMAR	<b>Total Person-month</b>	19					0		19,000
	Personnel costs	85.960	21.220,48				21.220	24,7	64739,520
	Major cost item 'X'						0	0,0	0,000
	Major cost item 'Y'						0	0,0	0,000
	Other costs (The rest)	53.192	10.361,97				10.362	19,5	42830,030
	<b>Total Costs</b>	<b>139.152</b>	<b>31.582</b>				<b>31.582</b>	<b>22,7</b>	<b>107569,550</b>

*A tabular overview of budgeted person-months and actual person-months*

**Table 4: Person-Months Status table<sup>†</sup>**

Person-Month Status Table														
Contract N°: 22957		Partner - Person-month per Workpackage									AC-own staff			
Acronym: Qalibra		TOTALS	Coordinator	Part. 1 IFL	Part. 2 CSL	Part. 3, RIVM	Part. 4, WU	Part. 5, UPATRAS	Part. 6, ALTAGRA	Part. 7, IPIMAR	AC TOTALS	AC participant 4	AC participant 5	AC participant 7
Period: 1, 1st April 2006 - 31st March 2007														
Workpackage 1: Development of generalised modular approach to risk-benefit analysis using menu of dose-response and valuation/integration functions	Actual WP total:	31,55	1,37	8,18	22	0	0	0	0	0	0			
	Planned WP total*:	74,5	5,5	22	44	3	0	0	0	0	0			
Workpackage 2: Implementation of methods as web-enabled software for all stakeholders	Actual WP total :	9	0	5	0	0	4	0	0	3,9		3,9		
	Planned WP total*:	79	2	51	1	3	22	0	0	0				
Workpackage 3: Development of strategies for communicating and disseminating risk-benefit information and dissemination	Actual WP total:	9,42	1,04	0	1	6,52	0,86	0	0	1,8	1	0,8		
	Planned WP total*:	42,5	4	1	3	17	13	1,5	3	0				
Workpackage 4: Case study 1 on seafood	Actual WP total:	20,14	10,14	0	1	0	0	0	9	3,6		3,6		
	Planned WP total*:	52,5	30	3,5	4	0	0	0	15	0				
Workpackage 5: Case study 2 on functional food	Actual WP total:	0,5	0	0	0,5	0	0	0	0	0				
	Planned WP total*:	20,5	7	4,5	9	0	0	0	0	0				
Workpackage 6: Cluster activities	Actual WP total:	1,06	0,56	0	0,5	0	0	0	0	0,3		0,3		
	Planned WP total*:	7	1,5	1	1	1	1	0,5	1	0				
Workpackage 7: Project coordination and management	Actual WP total:	5,07	1,57	0	0	3	0	0	0,5	0				
	Planned WP total*:	8	4,5	1	1	1	0,5	0	0	0				
Total Project Person-month	Actual total:	76,74	1,57	13,11	13,18	28	6,52	4,86	0,5	9	9,6	1	5	3,6
	Planned WP total*:	284	4,5	51	84	63	24,5	36	2	19	0	0	0	0

\* Planned person months for the full duration of project (42 months)  
<sup>†</sup> For AC contractors, a tabular overview of all resources employed on the project and a global estimate of all costs

## WP2. Implementation of methods as web-enabled software for all stakeholders

*A brief description of the work performed in WP2 by each contractor:*

Partner 2 (CSL):

- Version 1 of system design: overall structure and basic functions
- Agree detailed development procedures.
- Project meeting 2.
- Version 2 of system design: add outline design for framework functions.
- Project meeting 3.

Partner 5 (UPATRAS):

- Report 1 on usability evaluation (Deliverable D10)

*Explanatory note on any major cost items*

- WP2 participants attended three major project meetings during the reporting period. The Kick-off meeting was held at RIVM in the Netherlands in May 2006. Project meeting 2 was held at CSL in October 2006, and project meeting 3 was held at IPIMAR in Portugal in March 2007.

*A tabular overview of budgeted costs and actual costs*

See table 3

*A tabular overview of budgeted person-months and actual person-months*

See table 4

*A summary explanation of the impact of major deviations for WP2*

At the October 2006 project meeting, it was realised that a number of the work packages had dependencies on each other's outputs which would make it difficult to adhere strictly to the time plan. Therefore, a delay was agreed with some work packages in order to allow them to wait from the outputs of other pieces of work. As a result, CSL & UPATRAS have not delivered as much work in WP2 as was planned in the first year. It is envisaged that this discrepancy will be largely addressed by the end of Month 18.

### **WP3. Development of strategies for communicating and disseminating risk benefit information and dissemination**

*A brief description of the work performed in WP6 by each contractor:*

Partner 4 (WU):

- Developed a list of potential end-users and stakeholders in collaboration with CSL, IFL/Matis, IPIMAR, RIVM, and UPATRAS (Deliverable D6 and Milestone M3.1). This list was presented and adjusted at the consortium meeting held at IPIMAR in Lisbon on March 15 – 16<sup>th</sup> 2007.
- Developed a detailed plan for the first round of consumer focus groups and presented and discussed this at the consortium meeting held at IPIMAR in Lisbon on March 15 – 16<sup>th</sup> 2007.

Partner 3 (RIVM):

- RIVM hosted a meeting with Wageningen University in the Netherlands on the 22<sup>th</sup> of January 2007 to assess ideas for the first round of consumer focus groups and contributed to Deliverable D6.



Partner 1 (IFL/Matis):

- Wrote revision 1 for the 'Plan for using and disseminating the knowledge' for the QALIBRA project.
- Worked on a draft introduction brochure about the QALIBRA project.

Dissemination activities by performed by different contractors:

The QALIBRA project was presented/disseminated at the following national and international conferences last year;

- Lecture at the Third SeafoodPlus Conference held in Tromsø, Norway May 29th – June 02nd 2006 (Dr. Nynke de Jong, RIVM)
- Poster and handout at The SAFE Consortium International Congress on Food Safety “Nutrition and Food Safety: Evaluation of Benefits and Risks”, held 11-14 June 2006 in Budapest, Hungary ( Dr. Helga Gunnlaugsdottir, IFL)
- Proceeding from The SAFE Consortium International Congress on Food Safety “Nutrition and Food Safety: Evaluation of Benefits and Risks”, held 11-14 June 2006 in Budapest, Hungary. ISSN 1819-7779, (2006) page 121-122.
- Lecture and proceedings at the 2<sup>nd</sup> Joint trans-Atlantic Fisheries Technology Conference (TAFT 2006), that will be held in Quebec City, Canada, Oct 29-Nov 1<sup>st</sup> 2006. (Dr. Sigurdur Bogason, IFL).
- QALIBRA project was introduced in a lecture held at the 2<sup>nd</sup> Joint trans-Atlantic Fisheries Technology Conference (TAFT 2006), in Quebec City, Canada, Oct 29-Nov 1<sup>st</sup> 2006.
- Poster and handout at a conference held by Rannís – The Icelandic Centre for Research in Reykjavik, Iceland on the 26<sup>th</sup> of January to promote and introduce the recently launched seventh framework programme from EU. ( Dr. Helga Gunnlaugsdottir, IFL/Matis)
- Lecture at The 8th Food Chemistry Meeting held 4-7th March 2007 in Beja, Portugal. (Dr. Maria Leonor Nunes; IPIMAR)
- Proceeding from the 8th Food Chemistry Meeting held 4-7th March 2007 in Beja, Portugal. ISBN-SPQ-978-97299080-9-5, (2007) page 19.

*Explanatory note on any major cost items.*

- IFL/Matis, CSL, RIVM, UPATRAS, ALTAGRA, IPIMAR and WU have attended the kick-off meeting held at RIVM in the Netherlands on May 23-24<sup>th</sup> 2006, and consortium meetings held at CSL in the UK on November 14-15<sup>th</sup> 2006, and at IPIMAR in Portugal on March 15 – 16<sup>th</sup> 2007.
- RIVM has hosted a meeting with Wageningen University in the Netherlands on the 22th of January 2007 to assess ideas for the first round of consumer focus groups.

*A tabular overview of budgeted costs and actual costs*

See table 3

*A tabular overview of budgeted person-months and actual person-months*

See table 4

*Summary explanation of the impact of major deviations for WP3*

Not applicable for WP3

#### **WP4. Case study 1 on seafood**

*Description of the work performed in WP4 by each contractor*

Partner 1 (IFL/Matis):

- Refined the methodology for data searching used in case study 1A in cooperation with RIVM
- Collected data for case study 1A and started data collection for case study 1B in cooperation with IPIMAR
- Designed a table for presenting data output for case study 1A and 1B in cooperation with RIVM

Partner 2 (CSL):

- Developed the case study model jointly with RIVM with data inputs from Matis and IPIMAR, and implemented it as computer models, generated results and drafted report sections.
- Carried out exposure assessment required as input for case study.

Partner 3 (RIVM):

- Refining the methodology of data searching for case study 1A , by increasing the level of systematic data sampling.
- Developed the case study model jointly with CSL with data inputs from MATIS and IPIMAR and commented on drafted report sections.
- Carried out dose-response literature search on dioxin levels (incl. body burden) and final health effects as input for case study.
- Assistance of IFL/Matis to explore seafood consumption data availability

Partner 7 (INIAP\_IPIMAR):

- Collaboration in the methodology refining for data searching used in case 1A in cooperation with IFL/Matis
- Data collection for case study 1A and data collection starting for case study 1B in collaboration with IFL/Matis

*Explanatory note on any major cost items*

Partner 1 (IFL/Matis):

IFL/Matis attended three major project meetings during the reporting period, and one additional meeting. The Kick-off meeting was held at RIVM in the Netherlands in May 2006, and involved two IFL/Matis staff. Project meeting 2 was held at CSL in October 2006, and involved three IFL/Matis staff. Project meeting 3 was held at IPIMAR in Portugal in March 2007 and was attended by two IFL/Matis members of staff. IFL/Matis also attended a meeting in September held with partners involved in WP1 & WP4 at RIVM in the Netherlands. IFL/Matis is the coordinator and WP leader for 3 workpackages in the QALIBRA project which increases the number of meeting delegates required.

Partner 2 (CSL):

CSL attended three major project meetings during the reporting period, and one additional meeting. The Kick-off meeting was held at RIVM in the Netherlands in May 2006, and involved three CSL staff. Project meeting 2 was held at CSL in October 2006, with low costs for CSL, and project meeting 3 was held at IPIMAR in Portugal in March 2007 and was attended by four CSL members of staff. The CSL contingent involves co-operation between two distinct CSL teams, Risk Analysis and Information Systems, which increases the number of meeting delegates required.

Partner 3 (RIVM):

RIVM attended three major project meetings during the reporting period, and hosted one additional meeting. The Kick-off meeting was hosted at RIVM in the Netherlands in May 2006, and involved some organisation effort as this was a joint meeting of BENERIS and QALIBRA. Project meeting 2 was held at CSL in October 2006, and involved three RIVM staff members. Project meeting 3 was held at IPIMAR in Portugal in March 2007 and was attended by four RIVM members of staff. The RIVM contingent involves co-operation between four distinct RIVM centres: Centre for Nutrition and Health, Centre for Substances and Integrated Risk Assessment, Centre for Public Health Forecasting, and the Centre for Prevention and Health Care Research, which increases the number of meeting delegates required.

Partner 7 (INIAP\_IPIMAR):

INIAP/IPIMAR attended three major project meetings during the reporting period, and one additional meeting. The Kick-off meeting was held at RIVM in the Netherlands in May 2006, and involved one INIAP/IPIMAR staff. Project meeting 2 was held at CSL in October 2006, and involved one person from INIAP/IPIMAR staff. Project meeting 3 was held at IPIMAR, and was attended by four members of staff.

*A tabular overview of budgeted costs and actual costs*

See table 3

*A tabular overview of budgeted person-months and actual person-months*

See table 4

*Summary explanation of the impact of major deviations for WP4*

Not as much work as was planned was delivered during the first reporting period in WP4. The reasons for this are: delay in the start of some work packages of the project, delay due to recruitment timing and change in key persons at IFL/Matis as of 1st of January 2007. It is envisaged that this delay in WP4 will be largely addressed by the end of Month 18. Further, as a result of delay in recruitment timing a larger proportion of the work for IFL/Matis was carried out by senior scientist than junior scientist than originally planned, hence personnel cost/man month was somewhat higher than planned.

## **WP5. Case study 2 on functional foods**

*A brief description of the work performed in WP6 by each contractor*

In this reporting period only RIVM has performed work in WP5:

- Drafted a database about positive and negative health effects of functional food usage
- Discussed results at project meeting 3 (March 2007).

*Explanatory note on any major cost items*

Partner 3 (RIVM):

RIVM attended three major project meetings during the reporting period, and hosted one additional meeting. The Kick-off meeting was hosted at RIVM in the Netherlands in May 2006, and involved some organisation effort as this was a joint meeting of BENERIS and QALIBRA. Project meeting 2 was held at CSL in October 2006, and involved three RIVM staff members. Project meeting 3 was held at IPIMAR in Portugal in March 2007 and was attended by four RIVM members of staff. The RIVM contingent involves co-operation between four distinct RIVM centres: Centre for Nutrition and Health, Centre for Substances and Integrated Risk Assessment, Centre for Public Health Forecasting, and the Centre for Prevention and Health Care Research, which increases the number of meeting delegates required.

*A tabular overview of budgeted costs and actual costs*

See table 3

*A tabular overview of budgeted person-months and actual person-months*  
See table 4

*Summary explanation of the impact of major deviations for WP5*  
Not applicable for WP5

## **WP6. Cluster activities between the QALIBRA and BENERIS projects**

*A brief description of the work performed in WP6 by each contractor:*

All partners participated in the following work:

- The first Cluster meeting held at RIVM Netherlands in May 23<sup>rd</sup>-24<sup>th</sup> 2006.

Partner 1 (IFL/Matis):

- IFL/Matis wrote a report containing the output from the Cluster meeting.
- The first draft of a cluster agreement between QALIBRA and BENERIS was written.
- The membership of the Scientific Advisory Panel (SAP) for QALIBRA and BENERIS has been finalized in cooperation with KTL from the BENERIS consortium.

Partner 2 (CSL):

- In cooperation with BENERIS a cluster website ([www.qalibra-beneris.eu](http://www.qalibra-beneris.eu)) was developed
- The membership of the Scientific Advisory Panel (SAP) for QALIBRA and BENERIS has been finalized in cooperation with KTL from the BENERIS consortium.
- CSL has liaised with BENERIS about methods for quantifying uncertainty. To progress this, a CSL scientist visited Delft University (a partner of BENERIS) to learn about their methods for dealing with uncertainty in expert opinion, which may be useful in QALIBRA.

Partner 3 (RIVM):

- The membership of the Scientific Advisory Panel (SAP) for QALIBRA and BENERIS has been finalized in cooperation with KTL from the BENERIS consortium.

Partner 4 (WU):

- The membership of the Scientific Advisory Panel (SAP) for QALIBRA and BENERIS has been finalized in cooperation with KTL from the BENERIS consortium.

*Explanatory note on any major cost items*

- All WP6 participants attended the kick-off meeting which was held at RIVM in the Netherlands in May 2006. All partners except ALTAGRA participated in two additional overall project meetings. Project meeting 2 was held at CSL in England in October 2006, and project meeting 3 was held at IPIMAR in Portugal in March 2007.

*A tabular overview of budgeted costs and actual costs*

See table 3

*A tabular overview of budgeted person-months and actual person-months*

See table 4

*Summary explanation of the impact of major deviations for WP6*

Not applicable for WP6

## **WP7. Project coordination and management**

*A brief description of the work performed in WP7 by each contractor:*

All partners participated in the following work:

- Finalization of the contract with the EU commission and the consortium agreement
- The kick-off meeting
- Contributed to interim progress reports (used for internal monitoring of progress)

All partners except ALTAGRA participated in two additional overall project meeting

Partner 1 (IFL/Matis):

- Finalized the contracting work with the Commission
- Finalized the consortium agreement
- Finalized Deliverable D1 (poster-project presentation)



- Developed the project website ([www.qalibra.eu](http://www.qalibra.eu)) in cooperation with CSL
- Organized and chaired three project meetings in cooperation with CSL, RIVM and IPIMAR
- Contributed to reports that describe the outcome of the meetings in cooperation with CSL and RIVM
- Prepared guidelines & templates for the QALIBRA consortium members for the preparation of the annual reports for the project
- Monitored and coordinated the activities in the QALIBRA project
- Monitored and coordinated the activities for WP4 and WP6 (WP leader for WP4 & WP6)
- Distributed advanced payments to other QALIBRA consortium participants

Partner 2 (CSL):

- Developed the project website ([www.qalibra.eu](http://www.qalibra.eu)) in cooperation with IFL/Matis
- Organized and chaired three project meetings in cooperation with IFL/Matis
- Contributed to reports that describe the outcome of the meetings
- Chaired QALIBRA scientific committee.
- Monitored and coordinated the activities for WP2 (WP leader for WP2)

Partner 3 (RIVM):

- Organized the kick-off meeting in cooperation with IFL/Matis
- Contributed to the report from the kick-off meeting
- Monitored and coordinated the activities for WP1 and WP5 (WP leader for WP1 & WP5)

Partner 4 (WU):

- Monitored and coordinated the activities for WP3 (WP leader for WP3)

Partner 7 (INIAP/IPIMAR):

- Organized the third overall project meeting in cooperation with IFL/Matis

*Explanatory note on any major cost items*

- All WP7 participants attended the kick-off meeting which was held at RIVM in the Netherlands in May 2006. All partners except ALTAGRA participated in two additional overall project meetings. Project meeting 2 was held at CSL in England in October 2006, and project meeting 3 was held at IPIMAR in Portugal in March 2007.

*A tabular overview of budgeted costs and actual costs*

See table 3

*A tabular overview of budgeted person-months and actual person-months*

See table 4

*Summary explanation of the impact of major deviations for WP7*

Not applicable for WP7

**Form C Financial Statement per activity for the contractual reporting period**

For each participant of the QALIBRA project the Form C Financial Statement, signed and stamped by the participants, are enclosed as separate documents to the periodic report.

**Summary financial report**

A summary report of total (direct + indirect cost) costs in euros as claimed by each participant of QALIBRA and activity type for the reporting period is enclosed as a separate document to the periodic report.

**Summary of periodic report on the distribution of the Community's contribution**

The periodic report on the distribution of the Community's contribution records the distribution of funding to each contractor during that period is enclosed as a separate document to the periodic report. It shows the distribution (in euros) of funds made by the coordinator to contractors during the reporting period.