



Project no. **502572**

FISBOAT

FISHERIES INDEPENDENT SURVEY-BASED OPERATIONAL ASSESSMENT TOOLS

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Thematic Priority : 8.1

FINAL MANAGEMENT REPORT

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Project coordinator name : Pierre Petitgas

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Section 1 – Justification of cost items and resources by contractor

Work performed

Partner 1 : IFREMER

IFREMER was involved in all WPs, led WP2 and coordinated the project. In addition IFREMER took the lead of WP3 and developed and coordinated the indicator-based diagnostic approach in WP5. IFREMER developed methods and R scripts for calculating population indicators (WP2), developed the assessment model BREM (WP3) and developed methods and R scripts for the indicator approach (WP5). In addition, IFREMER applied the methods to the hake in Biscay and the anchovy in Biscay (as estimated with acoustic surveys). IFREMER organised the contents of all project meetings and their reporting, maintained the project website and coordinated the completion of project outcomes (WP6).

WP 1 – Data collation

Bay of Biscay Survey data on hake and anchovy collected by Ifremer have been extracted from the data bases according to the specifications agreed in February 2004 at the Rome meeting. Dedicated specific extraction and computation code was developed to meet the requirements for the project, in particular for acoustic surveys.

WP2A – Population biology indices

IFREMER developed and delivered to the project software code in R language for computing the vital traits (biological) indicators. For the spatial indicators, IFREMER collaborated with ARMINES for the development of two indicators, spatial patches and spreading area. Methods and software code were documented.

IFREMER applied the software code to calculate the time series of indicators of vital traits, abundance and spatial distribution at age for hake and anchovy in the Bay of Biscay (Evhoie and PelGas series of bottom trawl and acoustic surveys).

IFREMER collaborated with ARMINES to publish an article describing spatial indicators and their application to the hake in the Bay of Biscay (Wouillez et al. 2007. ICES Journal of Marine Science, 64: 537-550). IFREMER contributed to a meta-analysis of the correlation between indicators together with ARMINES. IFREMER also produced and participated to the production of ICES CM papers that were presented at the ICES Annual Science Conferences in 2005 (refs. L:16, Z:02), 2006 (ref. O:05) and 2007 (refs. O:10).

WP2B – Population abundance indices

Abundance estimates and their precision. Time series of survey indices for total and recruit abundance were calculated for hake and anchovy in the Bay of Biscay. A tool was developed in the IFREMER acoustic data base BARACOUDA (Base for recorded acoustic data) for expert association of echoe-traces to trawl hauls and calculation of variance accounting for the interpretation of echograms. A working documents was prepared and presented at the ICES Working Group WGACEGG in 2006.

Catchability. For the bottom trawl survey series (Evhoie series), the existence of a general year effect in survey abundance indices was investigated and a manuscript has been accepted for publication in the Canadian Journal of Fisheries and Aquatic Sciences. In addition and for the acoustic survey series (PelGas series), IFREMER collaborated with AZTI to compare the results of the acoustic and egg surveys and a working document was prepared to contribute to the ICES Working Group WGACEGG in 2006. A section synthesising the limitation of surveys was produced for the Fisboat manual on survey indicators and methods (ICES CM 2007/O:27).

Combination of survey indices. The random effects biomass model (BREM) developed in WP3 was modified to handle two independent survey series allowing for the estimation of a combined survey index. It was applied to the acoustic and DEPM survey indices for anchovy in the Bay of Biscay anchovy. A working document was prepared for the ICES Working Group WGACEGG in 2006.

WP3 – Assessment models

IFREMER developed the Fishery-Independent assessment model BREM (Biomass random Effects Model) and a CM paper was produced and presented at the ICES Annual Science Conferences in 2007 (ref. O:03). In addition, IFREMER coordinated the exercise on testing model performances using simulated data. Results were compiled in a working document to the ICES WG on Methods of Fish Stock Assessment in 2006 and a CM paper was presented at the ICES Annual Science conference in 2007 (ref. O:04).

WP4 – Simulation-testing framework

IFREMER collaborated with SIBM in the design of options and input to the ALADYM simulation model and re-allocated its effort to WP5.

WP5 – Comprehensive advice and evaluation

IFREMER coordinated the development of methods for comprehensive indicator-based diagnostics and their application to all project case studies. IFREMER produced a variety of methods and tools (R scripts and their documentation) for the indicator-based diagnostics: recent trend detection method, Cusum charts, multivariate indicators, diagnostic procedures. IFREMER applied the methods to the hake and the anchovy in the Bay of Biscay and produced case study reports. In addition, IFREMER assisted partners when necessary in the application of the methods to their case studies. Further, IFREMER participated in the production of Manuals to documents the methods and their applications to case studies: CM papers were produced and presented at the ICES annual conference in 2007 (refs. O:27, O:16).

IFREMER also participated to the production of a document on how to create comprehensive assessments coordinated by CEFAS.

IFREMER collaborated with SIBM to apply the ALADYM simulation tool to investigate the sustainability of different total mortality values to the hake in Biscay and a case study report was produced.

WP6 – project management

IFREMER coordinated the project. Main activities were: updating the website, organising project meetings and workshops and reporting on them, setting workplans between meetings and overseeing their realisation, organising the contents of and coordinating the production of project level outcomes.

The FISBOAT web site <http://www.ifremer.fr/drvecohal/fisboat/> was an important tool for project management. The project website was regularly updated. All project products were posted on the website: software code, documentation, data, case study reports, manuals. All meeting documents were also posted on the website: agendas, meeting reports. All deliverables are accessible on the Fisboat webiste.

Four project meetings have been organised: in Rhodes, Greece, hosted by HCMR (Nov. 2005); in San Sebastain, Spain, hosted by AZTI (Feb. 2006); in IJmuiden, Holland, hosted by IMARES (Nov. 2006); and in Nantes, France, hosted by IFREMER (Feb. 2007).

Six documents were produced that compiled the project outcomes: a Manual of indicators and methods and a Report on their application to case studies, a Report on survey-data-only assessment models and their performance, a Manual on the FLR simulation evaluation loop and a Report of its application to case studies, a Report on how to create comprehensive assessments.

The project workplan was adjusted at two occasions. When it was evident that deliverable D3.1 in WP3 would be left aside, IFREMER compensated and coordinated a project level exercise to test the performance of assessment models. Also, when it was evident that the FLR simulation evaluation loop developed in WP4 would restrictively match the current ICES management context, IFREMER again compensated and developed a comprehensive indicator-based diagnostic approach that applied to all case studies. IFREMER coordinated its application by all partner case studies and ensured the full use of all the survey-based biological indicators.

IFREMER organised and compiled the reporting documents: Interim reports at month 12, month 18 and month 40 as well as the final reports.

In addition, IFREMER organised fora for the dissemination of the project outcomes:

- ICES 2007 Theme Session O on 'Flying outside the ICES Assessment WG paradigm – Alternative approaches to providing fisheries management advice' was co-chaired in which many Fisboat outcomes were presented (refs. O:03, O:04, O:07; O:10; O:16; O:27)
- A special volume of Aquatic Living Resources was paid for in which to publish the produced manuals on Fisboat Fishery-independent methods and applications.

Partner 2 : FRS

FRS was involved in WPs 1, 2, 3 and 5. FRS worked with the North Sea herring case study and collaborated to the development of geostatistical simulations (variance estimation), assessment models, development of FLR simulation tools and their application to North Sea herring.

WP 1 – Data collation

Several datasets were collated in relation to the North Sea herring case study. In some cases these were simple exercises as the data were available from ICES expert group reports. This was the case with the collation of datasets associated with North Sea herring at yearly level from four surveys: IBTS, MIK, Larvae and acoustic. The collation of medium resolution (ICES rectangle) dataset for acoustic survey for all years 1989-2006 was a

little more complex because the data in recent years was available in a different format held in a Danish database (Fishframe). The collation of high resolution (2.5 nmile) datasets for the complete time series of the North Sea herring acoustic survey from 1989-2005 was significantly more complex. This involved retrieving processed acoustic data from a DOS based package and going back to paper based records to interpret the various categories to determine the correct quantities of acoustic scattering attributed to herring. The collation of biological data from DATRAS for the IBTS trawl survey for population indicator estimates required the development of DATRAS database interrogation code (in R). FRS was therefore responsible for the following datasets in relation to herring which were used as indicated.

Herring Datasets	Description	Time series	Use in FISBOAT
IBTS Q1	Index of abundance at age	1984-2005	WP5
MIK	Index of juvenile abundance	1977-2005	WP5
Larvae	Index of spawning stock biomass	1973-2005	WP5
Mid res acoustic	Abundance at age	1989-2005	WP2A
High res acoustic	NASC ¹ and RMS ² length	1989-2005	WP2B
Biological data	Population parameters	1990-2000	WP2A

¹NASC = Nautical Area Scattering Coefficient attributed to herring (acoustic density in $m^2 \cdot nmi^{-2}$)

²RMS = root mean square length of herring (fish length in cm)

WP2A – Population biology indices

Two working documents were produced to deliver on studies of population indicators and spatial indicators. Contribution to ICES paper on studies of population indices.

WP2B – Population abundance indices

Code was developed (in R) to allow for the determination of sampling error in demersal trawl survey indices, based on a bootstrap estimation procedure. Bootstrap estimations of the herring survey datasets were also made available for use in WP5. The development of geostatistical conditional simulations for the North Sea herring survey dataset was carried out in collaboration with ARMINES: this resulted in a contribution to an ICES paper and a peer reviewed publication is in preparation with a view to presenting the data at an international conference on fisheries acoustics.

WP3 – Assessment models

Development of two survey based assessment models: SURBA and TSA. The latter includes extensive documentation. Both packages were written in Fortran. In the case of SURBA the package is available as a windows based application; in the case of the TSA the fortran routine can be called from an R script. TSA proved difficult to parameterise for all stocks and was, therefore, only developed for North Sea herring. The codes were tested on simulated data and the results of these tests resulted in a contribution to an ICES papers. There were additional contributions to another ICES paper and one ICES working document. SURBA is now used in many working groups as a standard tool for assessing stocks using survey data.

WP4 – Simulation-testing framework

Liaison with WP4 leader to ensure framework compatible with case study and to provide example data. Liaison with Imperial college to test simulation framework for North Sea herring. Contribution to one symposium paper and one ICES paper.

SURBA was also incorporated into FLR for the purposes of using it in the evaluation framework.

WP5 – Comprehensive advice and evaluation

The FLR management loop was run at the ICES Herring assessment WG in March 2006 and further developed so that it now fully implements the range of observed errors and the current methods employed at the WG. Model free management methods were tested and presented at a symposium in Galway June 2006. This combination of current assessment and model free allows for full comparison with other assessment techniques.

Partner 3 : IMARES

IMARES was involved in WPs 1, 2 and 5. IMARES applied methods to the North Sea cod case study and developed methods for the Indicator based approach.

WP 1 – Data collation

Collation of the North Sea cod IBTS survey data

WP2A – Population biology indices

Application of the WP2A codes. Estimation of the WP2A population indicator series. Follow up of work reported under WP5.

WP2B – Population abundance indices

All population abundance by age and recruit indices were calculated and provided. We developed, coded in R and documented a method to assess the power to detect a trend in an indicator timeseries. Follow up of work reported under WP5.

WP5 – Comprehensive advice and evaluation

IMARES is responsible for the North Sea Cod case study.

We have applied most of the methods available to the IBTS data on the Cod in the North Sea (area IV). We analysed the time series of the two types of indices and evaluated the suitability of single and multivariate indices and various analytical methods (PCAs, cusum, derivatives, etc.) to signal changes in the NS Cod population. Some intermediate results were made directly available by the developers of the methods (Cusum, MFA). Several other methods required work (non-parametric trends, adjustment of the R-code to correct errors (MAF), or to tailor it to other indices (derivatives).

We applied the simulation-evaluation framework FLR to the NS Cod by adjusting its parameters and settings (parameterisation and performance evaluation). Programming code for the operating model had to be corrected to make the model internally consistent and comply with the historic data. Debugging the code was an unforeseen (and unallocated) task and took quite a lot of time. This was the tedious, but necessary basis for forecasting the future and running various management options (harvest control rules, HCRs). We wrote documentation on how to run and evaluate HCRs, which is part of the Manual on simulation-evaluation tools.

Partner 4 : IMR

IMR was involved in all WPs and was leader of WP3. IMR applied methods to the Barents Sea cod case study and developed a length-based assessment model.

WP 1 – Data collation

Collation of the Barents Sea cod bottom trawl survey data and acoustic data. Both surveys presented in different formats and level of disaggregation depending on use.

WP2A – Population biology indices

Application of WP2A routines and estimation of WP2A population indicator series.

WP2B – Population abundance indices

Estimation of the abundance series by age and the recruit series. Investigation of catchability trends by comparing bottom trawl and acoustic surveys (used to conclude that the two survey series can not be combined). Develop R-code for producing bootstrap estimates of variance.

WP3 – Assessment models

Development, coding in fortran and testing of a length-based model (LENSUR). LENSUR was not incorporated in the FLR framework due to input not being a part of the « standard » FLR input types.

WP4 – Simulation-testing framework

An operating model mimicking the Barents Sea cod stock was parameterized and implemented in FLR. Performance metrics and diagnostic tools was implemented in FLR. The operating model was used to test different harvest rules.

WP5 – Comprehensive advice and evaluation

Trend- and cusum analysis for the the Barents Sea cod case study. The combination of strong dynamics and changes in survey coverage made interpretations difficult. The practical problem was that one central scientist

spent 6 months abroad during the most « intensive » period, which led to much less work being spent than planned.

Partner 5 : CEFAS

CEFAS was involved in WPs 3, 4 and 5 and was leader of WP5. CEFAS developed methods (the YCC assessment model, trend methods for the indicator based approach), contributed to the development of FLR tools, coordinated the FLR simulation-evaluation applications to case studies, and contributed to the synthesis on the indicator-based approach.

WP3 – Assessment models

The YearClass Curve (YCC) stock assessment program was written in R for wide availability. It was initially presented and discussed at the Fontainebleau project meeting. All participants managed to load and operate the program successfully and made preliminary fits to their own data sets during the meeting. Subsequently, the user-friendly front end was developed for setting program options, and further analyses, diagnostics, graphs and tabulations were added as extra model features. The final version is menu-driven for ease of use and available for down-loading from the FISBOAT web site. All major stock features (Z, recruitment, year class curves) and diagnostics (residuals, forward prediction errors, correlations among residuals) are output either graphically, as text, or to files. Estimated log numbers of fish by year class can be converted to total weights-at-age and SSB-at-age on a per-unit-effort basis using standard tables of weight- and maturity-at-age. YCC was tested by blind analysis of test data sets obtained from the US National Research Council and performed satisfactorily.

A report of the method and the trials of it was submitted to the ICES 2007 Annual Science Conference as part of report on all FISBOAT assessment methods. The YCC method and an analysis of North Sea plaice was also reported in a peer-reviewed scientific paper (Cotter, A.J.R., Mesnil, B., and Piet, G. 2007. ICES Journal of Marine Science 64, 234-247.) The YCC method successfully revealed the well-known offshore migrations of plaice.

WP4 – Simulation-testing framework

A simplified version of the YCC method was added to the FLR system for stock assessment available at <http://flr-project.org/doku.php?id=pkg:packages&s=FLYCC>. The model was tested to ensure that the FLYCC and YCC model provide the same results, and documentation was prepared for the FLR version of the model. A brief demonstration of how the model works was also given to the participants during the meeting in Ijmuden. In addition to FLYCC, two fishery-independent models namely SURBA and BREM were incorporated into the FLR library. An interface to allow the incorporation of the former model into the FLR library was prepared during the first half of the project that allowed the development of the first FLR version of that model (called FLSURBA). Necessary testing to eliminate any programming bugs took place in the second half of the project in collaboration with the developer of SURBA (C. Needle, FRS) and FLSURBA is now available to the participants. Documentation specific to the FLR version of this model was also prepared and circulated with the model. An interface for BREM was also prepared. However, technical constraints hinder its use as a generic tool. A tutorial on how to use FLR objects to run the simulation-evaluation tools developed for FISBOAT was also prepared in collaboration with Imperial College and was run during that meeting (http://www.flrproject.org/doku.php?id=courses:fisboat_ijmuden:beginners).

A presentation on potential Harvest Control Rules (HCR) that can be used to translate model results into management actions was also prepared and presented in the San Sebastian meeting. A document on HCRs was also prepared and made available at the meeting in San Sebastian (Proposed species-specific HCRs for application in the FISBOAT project prepared by P. Apostolaki). Potential HCRs were further discussed in the Ijmuden meeting. This discussion was initiated at the Rhodes meeting with a presentation given by L. Kell on generic families of harvest control rules.

WP5 – Comprehensive advice and evaluation

The work of CEFAS concerned the indicator based diagnostics as well as to the use of the FLR simulation evaluation loop.

Indicator-based diagnostics

A number of documents and presentations on the capacity of survey-based assessment tools to guide fisheries management were prepared and discussed during project meetings. The following presentations were given:

- Cotter, J. Fishery management based on average length without worrying about abundance or age (Rhodes, Nov 2005)

- Cotter, J. Goodbye VPA, TACs. Hello length-based management of marine fisheries. (San Sebastian, Jan/Feb 2006)
- Cotter, J. Weight per unit effort as a possible indicator of stock strength (Nantes, Feb 2007).

In addition, 3 documents were prepared to summarise the work undertaken as part of this WP and to guide future research:

- A 'Manual of Indicators and Methods' was compiled and edited by J. Cotter, Cefas, from contributions by several project partners (ICES CM 2007/O:27). It includes documentation for biological and spatial indicators, as well as several methods for interpreting single and multiple trends in these indicators. It was submitted to the ICES 2007 Annual Science Conference and is available from the FISBOAT website.
- A method for assessing trends in indicators using nonparametric statistical methods was prepared and included in the Manual of indicators. Example analyses were included: Cotter, J. Nonparametric statistical methods for assessing trends in fishery statistics and indicators.
- A draft of the "Proposition on how to create comprehensive stock assessments based on several assessments and a combination of quantitative and more qualitative results" was prepared by J. Cotter and circulated to all project participants.

FLR simulation evaluation loop

During the second part of the project we provided support to the teams that were building the case specific simulation evaluation loops using the tools developed by Imperial College (operating model, observation error model, etc). The support was in terms of running those tools and also including a stock assessment model in the loop. Laurence Kell contributed to a paper prepared by participants from Imperial College and FRS which was presented in the Galway Symposium on Fisheries Management strategies. A workshop on the development of a case specific work plan to evaluate the performance of assessment methods or HCRs with respect to requirements such as robustness to uncertainty, capability to capture stock trends, etc. using the complete simulation evaluation loop was run in the Nantes meeting to finalise parameterisation of models and adoption of hypotheses that would be considered. The relevant documents are posted on the FISBOAT website. Cefas was the lead participant for this WP and therefore also reviewed the work undertaken by the relevant teams in order to maintain coherence in and coordinate the research done by each group. Cefas compiled the results on the use of the FLR loop to various case studies into an overview report that is available on the FISBOAT website.

WP6 – project management

Overview and coordination of work under WP5

Partner 6 : IMPERIAL

Imperial College London worked under WPs 4 and 5 and was leader of WP5. Imperial developed tools for the FLR simulation evaluation loop, assisted their applications to case studies and applied the tools to the North Sea herring. The initial workplan in WP2 was adjourned and efforts re-allocated to WPs 4 and 5.

In the first reporting period, Imperial College London worked primarily on the implementation of the simulation evaluation framework. During the first year and a half, several meetings were planned to discuss the development of work in work package 4: Aberdeen (Scotland - Nov. 2004), Fontainebleau (France – Feb. 2005) and London (England – Aug. 2005).

The work started by a literature review in order to review the different components of the evaluation framework. The second step was to list equations that could design the best framework given it had to be generic to fit to all case studies. Preliminary versions of the operating model, the observation error model and the harvest control rules models had been implemented and/or discussed with partners from Aberdeen and their data for the North Sea herring stock.

In the second reporting period Imperial College London worked primarily on further development of the software tools (WP4), dissemination of the details of using this software (WP4) to the other project participants, and attending meetings and answering queries on how to design the evaluation elements of the simulations (WP5). Two staff worked on the project, Dr Richard Hillary and Miss Marine Pomarede. In 2007 Imperial finalised the relevant summary documents (simulation/evaluation tool) required for the preparation of the final report. Imperial has worked hard on the dissemination of information of how to use and evaluate the results coming from the software throughout the project (WP5) and wider, as well as in the preparation of the relevant information required for the final report.

Imperial contributed to the following deliverables:

D4.1	Definition of a standard communication framework for assessment models.	Section 3 of the Simulation Tools Manual
D4.2	Coding of a generic age-structured population dynamics model that allows to mimic the population dynamics of exploited demersal and pelagic fish populations of the case studies.	Section 2 of the Simulation Tools Manual
D4.3	Coding of an observation error model that can model within a Monte Carlo framework the error structure in the key types of indices that can be derived from fishery independent surveys of fish populations.	Section 3 of the Simulation Tools Manual
D4.4	Coding of a relatively simple harvest control rule model that incorporates already existing harvest control rules	Section 5 of the Simulation Tools Manual
D4.5	Coding simulation analysis and graphical illustration program for synthesising the large volumes of simulation results.	Section 6 of the Simulation Tools Manual
D5.3	Evaluation of the performance of all tested methods with respect to robustness, precision, capability to capture stock trends and data requirements, fishery yield and stock risk. Recommendations on which methods perform best for each of the case study species.	Report Simulation evaluation case study North Sea herring.

Partner 7 : SFI

SFI was involved in WPs 1, 2, 3 and 5 and applied methods to the Baltic Sea cod.

WP 1 – Data collation

Data from 12 Polish bottom trawl surveys (1994-2004) of Baltic cod in the southern Baltic were prepared according to indications formulated on FISBOAT meeting in Rome in February 2004. The data collection was grouped in three basic levels:

- A. area - sex maturity, males, females by age classes, length-age keys,
- B. trawl station – numbers of specimen in length and age classes,
- C. specimen – age- length classes, sex maturity.

Information at A level were recorded together with additional information identifying the country, institution, species, month of start and end of the cruise, ship name, gear type. For C the code of station, layer, latitude and longitude, date was also registered.

Data base contains 7740 records at A level, 16524 records at B level, and 25248 at C level. Additional documentation on following items was prepared:

- age distribution proportions during the series of surveys,
- charts of trawls stations for mature and young fish,
- description of mentioned items,
- references list.

WP2A – Population biology indices

The analysis of spatial occupation of Baltic cod per age and stage over years was performed applying geostatistical package RGeoS (and its further developments). Spatial indices regarding location, occupation, aggregation and correlation were estimated. Indices obtained were set in a standard table format for further studies within other WPs. Interaction between indices and between them and abundance indices by age and stage was investigated.

Population growth rate (L_{bar} , L_{75} , L_{25}), the estimation of direct annual total mortality per age and estimation of length at maturity was performed using PopIndScriptR. Indices obtained were set in a standard table format for further studies within other WPs.

WP2B – Population abundance indices

The estimation of annual indices of abundance per age and stage was done by application of geostatistical package RGeoS.

WP3 – Assessment models

The YCC package except for estimation of relative recruitment and total mortality (Z) was also used to analyse if the relative residual variance exhibited by one fleet was significantly higher (lower) than the residual variance of

another one. This was justified in case of Baltic cod due to the implementation in 2001 a new random sampling design as compared to the years before 2001 when fix stations grid was applied.

WP5 – Comprehensive advice and evaluation

SFI applied methods of the Indicator-based approach and of the Simulation-evaluation analytical approach. Indices calculated within the framework of WP2 were analysed in order to detect trends and to provide indicator based diagnostics of the state of the stock and compare it with traditional assessment. Indices by age were thoroughly analysed applying visual method, linear regr., derivatives method, cusum, and power method. In addition, relationships between indices were examined using MFA and MAF in order to extract the most influential indices.

A summary of the observed indices performance was compared with causes of change in trends known from theory (cause-effects table) in order to detect the most influencing cause of changes in the stock. Cumulative sum (cusum) analysis was conducted to identify deviations of observations from the mean of the reference period. Both approaches trend analysis and cusums were compared. Multivariate analysis was performed to identify correlations among indices. The perception of the state of the stock based on the results obtained from cusums and trend analysis was next compared with traditional assessment of the stock status. An advice on stock exploitation was formulated.

The ALADYM simulation model was used to predict the effects of various fishing pressure scenarios. Number of different simulations was done as well in order to select exploitation strategy that would allow for the Baltic cod stock to recover (to reach SSB above Bpa). Also preliminary Z value was appointed as a target reference point.

Partner 8 : SIBM

SIBM was involved in all WPs and leader of WP1. SIBM applied methods to red mullet in the Tyrrhenian Sea and developed the ALADYM model.

WP 1 – Data collation

The MEDITS data-base was reorganised with the purpose of easily extract the information required for the project. Data were delivered to the project according to the FIBOAT Catalogue format. Furthermore, elaborations of data subsets were performed to present the national time series according to a common scheme.

WP2A – Population biology indices

Partner 08 contributed to the deliverables D2A.1 and D2A.2. The implemented methods and tools were successfully tested before and during the Fontainebleau meeting. All the population indices were therefore produced for the Mediterranean red mullet (spatial location/occupation indices per age/stage with provision of maps; population growth rate; length-related vital trait indicators, total mortality). Successively interactions among the estimated population biology indices were studied.

WP2B – Population abundance indices

Partner 08 contributed to the deliverables D2B.1 and D2B.3 of this WP. Methods and tools developed by partner 11 were successfully tested and applied to provide a time series of direct abundance indices regarding total population of red mullet, age groups, and recruitment. Spatial averages and total abundances with precision were also estimated. The indices were produced for the subunit 10a and 10b of the GSA10 as well as for the whole GSA.

WP3 – Assessment models

Partner 08 contributed to this WP designing, building and coding a simulation model named ALADYM (Age-Length Based Dynamic Model) that is a single species age-length based simulation model developed within the conceptual framework of dynamic pool models. It is designed to assess the effects of changes in biological or management parameters. Contribution was to the deliverables D3.1 and D3.2.

WP4 – Simulation-testing framework

Partner 08 contributed to the deliverables D4.1, D4.2 and D4.4 of this WP. Regarding the deliverable D4.1, the characteristics of the eight components as identified during the second Fisboat meeting (Aberdeen Marine Laboratory, November, 2004) were specified for the red mullet. Regarding the deliverables D4.2 and D4.4 partner 08 contributed to this WP developing and coding a simulation tool named *Aladym-q*, with the aim of

making available a tool able to account for uncertainty in the process of assessing the effects of changes in biological, fishing pressure and management parameters. The tool, that was derived by the core model *Aladym*, developed in WP3, contains an harvest control rule thought to be particularly useful in specific harvesting situations, when fish are exploited at early stages, management is mainly based on a frame of technical regulations and a TAC regime cannot be implemented for most demersal fisheries.

WP5 – Comprehensive advice and evaluation

Partner 08 contributed to this WP applying the developed methods to the red mullet case study in the GSA10 and interpreting the results combining the estimates obtained using the routines developed by the partner 01 (derivative, di-cusum, Principal Components Analysis), by the partner 05 (trend analysis) and by the partner 11 (Min/Max autocorrelation factors MAF). The results were also combined for interpretation with the explorative visual analysis on the indicators estimated in WP2A and WP2B. Comparison with the past assessments by GFCM was also made. An analysis for estimating effects of total mortality changes along the time with reference to the impact on model-based population indicators and reference points was also carried out using *Aladym* tools. Contribution was to the deliverables D5.1, D5.2 and D 5.4.

WP6 – Project management

Partner 08 organised the first Project meeting in Rome and coordinated the WP1 on data collation and formats requirements. Partner 08 actively participated to the project meetings held in Rhodes, Pasajes and Ijmuden. Furthermore, activities of reporting and dissemination of knowledge were carried out, the latter by participating to meetings and conferences.

Partner 9 : HCMR

HCMR was involved in WPs 1, 2, 3 and 5 and applied the methods to hake in the Ionian Sea and the Aegean Sea.

WP 1 – Data collation

Participation in the kick-off meeting of the project in Rome (3 scientists from HCMR). The hake raw data of the MEDITS-GR surveys from 1994 to 2003 for the totality of the Greek Seas were checked, collated and put in the format agreed for the project analyses. Summary data statistics, cohort curves, bubble plot maps and biological and gear selectivity parameters were given for hake in the Greek waters.

WP2A – Population biology indices

The data set was prepared to meet the input formats of the tools detailed in the website of the project and it was sent to the contact persons. Wherever possible, the routines were run before the workshop of Fontainebleau. Participation in the meeting of Fontainebleau (3 scientists from HCMR) where the tools for estimating the population biological and spatial indices were applied successfully to the case of hake of the Aegean and the Ionian Seas. The indices were rerun at HCMR and the series produced were delivered to the coordinator to be included in the month 18 report. Hosting and participation in the meeting of Rhodes, where the vital traits and spatial indices calculated before month 18 were presented and discussed. Recalculation of indices using updated R-codes provided by partners 1 and 11 and reporting the results. Relationships of spatial indices with abundance were checked. Participation and presentation of results in the meeting of Ijmuiden. Interaction with partner 11 to produce an ICES paper.

WP2B – Population abundance indices

Participation in the relevant meetings and application of the available tools for estimating the population abundance in the case of hake of the Aegean and the Ionian Seas. Definition of stages of hake and application of R-codes to estimate the abundance per stage. Estimation of abundance per year and precision using classic statistics (by strata).

WP3 – Assessment models

Participation in the relevant project meetings, where the models developed were presented and discussed. Calculation and definition of input parameters needed for *Aladym* model. Running of model. Interaction with partner 8 to run the updated version of the model and reporting the results.

WP5 – Comprehensive advice and evaluation

Application of R-codes (trend method, CUSUM, MFA, MAF, power analysis) to indices calculated in WP2 for hake. Presentation and discussion of results in the Ijmuiden and Nantes meetings. Preparation of final report, with figures and tables as decided in the Nantes meeting, and sending to the coordinator.

Partner 10 : AZTI

AZTI was involved in WPs 1, 2, and 5 and applied methods to the anchovy of the Bay of Biscay as estimated with Daily Egg Production surveys.

WP 1 – Data collation

We submitted to the coordinator the data files concerning the surveys to apply the Daily Egg Production on anchovy in the Bay of Biscay: These are Aggregate data of Anchovy abundance resulting from Egg Surveys on Anchovy along with their CV from 1987 to 2004 (as inputs for WP2 and WP3 and others). Other data on a more detailed basis were also available for the relative catchability analysis of WP2B. In addition we have documented the methods of the DEPM implementation.

WP 2A – Population biology indices

During the different meeting and workshops of the project we produced and provided to the project the final population biology and spatial indicators for the Bay of Biscay anchovy Daily Egg Production Method (DEPM) surveys from 1987 to 2005. Results are available on the Web page of the FISBOAT project.

WP2B – Population abundance indices

We duly provided the series of population recruitment and total abundance indices together with their precision for the Bay of Biscay anchovy DEPM surveys from 1987 to 2005. In addition we collaborated with IFREMER for a catchability analysis of the spring surveys (acoustic and DEPM) on the Bay of Biscay anchovy. This work was reported as a deliverable (see deliverable section on catchability) and was presented to the ICES WGACEGGS meeting in November 2006 (ICES CM 2006/LRC18).

WP5 – Comprehensive advice and evaluation

We Applied to the Bay of Biscay anchovy the indicator-based approach and the simulation-testing framework (FLR loop) to provide a comprehensive advice based on fishery-independent information. Results were reported as individual case study working document reports following templates agreed at project meetings. The documents are available on the FISBOAT website (Project outcomes, Indicator-based diagnostics and Simulation evaluation with FLR).

WP6 – project management

We organised a meeting of the FISBOAT project in our Insitute of PASAJES San Sebastián Gipuzkoa – Spain (20 January to 3 February 2006).

Partner 11 : ARMINES

ARMINES was involved in WPs 2 and 5. ARMINES developed methods and R scripts for spatial indices (WP2A) and for multivariate methods in the indicator based approach (WP5). Also ARMINES developed methods and R scripts for estimating total variance in acoustic surveys (WP2B).

WP2A – Population biology indices

Implementation of codes and routines through R software for the computation of a list of selected or developed spatial indices that capture the spatial patterns of fish population from research survey data, and for the exploration of the correlations between indices (i.e. the exploration of the relationships between population spatial occupation and population dynamics) through a meta-analysis on the FISBOAT case studies. Codes and routines have been tested on the FISBOAT case studies, and transferred to partners. Documentation is available in a working document for the methodology and in a tutorial for the application on the FISBOAT case studies. Finally, results and R scripts have been posted on the FISBOAT website.

Two communication papers for a conference have been produced:

- For the ICES ASC 2005 (Aberdeen) on the IFREMER case study (the hake survey data).
- For the ICES ASC 2006 (Maastricht) on the results of the meta-analysis.

One paper has been published in a journal:

- Woillez, M., Poulard, J-C., Rivoirard, J., Petitgas, P., and Bez, N. 2007. Indices for capturing spatial patterns and their evolution in time, with application to European hake (*Merluccius merluccius*) in the Bay of Biscay. – ICES Journal of Marine Science, 64: 537–550.

WP2B – Population abundance indices

Implementation of:

- Generic geostatistical routines through R software for estimation of abundance, variance, kriging and conditional simulations.
- A more specific geostatistical routines through R software for the analysis of the uncertainty associated to the abundance estimates on the acoustic surveys series of the Scottish herring (1989-2005), with the application of an ad hoc multivariate approach to combine acoustic (measured on transects) and biological variables (length, ages, measured at trawl stations).

Transfer to the partners (mainly FRS and IFREMER) of the geostatistical routines implemented. Documentation is available in a working document for the methodology and in a tutorial for the estimation of abundance, variance and kriging. Finally, results and R scripts have been posted on the FISBOAT website.

One communication paper for a conference has been produced:

- For the ICES ASC 2006 (Maastricht) on the results of the evaluation of the uncertainty of abundance estimates from acoustic surveys using geostatistical conditional simulations (studied period: 1989-1994, 2001-03).

One paper based on the communication paper is planned to be published in a journal.

WP5 – Comprehensive advice and evaluation

Implementation of routines through R software, for the computation of a multivariate spatial (or biological) index using Min/Max Autocorrelation Factors (MAF), and for the selection of indices based on time autocorrelation and MAF.

One communication paper for a conference has been produced:

For the ICES ASC 2007 (Helsinki) on selecting and combining survey based indices of fish stocks using their correlation in time to make diagnostic of their status.

Explanation of cost items

Partner 1 : IFREMER

Major cost items were personnel costs, equipment costs for software and computers for developing operational tools and data analyses, and travel costs. Travel costs were for the project meetings and for meetings where project results were disseminated. The 8 project meetings were attended by 3 scientists in Rome (Feb., 2004); 1 scientist in Aberdeen (Nov., 2004); 5 scientists in Fontainebleau (Feb., 2005); 4 scientists in Rhodes (Nov., 2005) and San Sebastian (Feb., 2006); 2 scientists in IJmuiden (Nov., 2006) and 3 scientists in Nantes (Feb., 2007). The costs for the Nantes meeting were relative to local meeting arrangements. Meetings where project results were presented were the ICES Annual Science Conferences in 2005, 2006 and 2007, the ICES Working group WGACEGG (Nov. 2006), the ICES symposium on Fisheries Management Strategies (June 2006) and a workshop meeting on indicators organised by the Association Française d'Halieumétrie (June 2007).

Partner 2 : FRS

WP 1 – Data collation

The extraction and verification of the IBTS data required for the analysis of WP2A from the DATRAS database took significantly longer than anticipated. However, the routines developed will be useful in future for other

work in the project and were made available. Further work was required for the extraction of high resolution acoustic survey data and this is ongoing.

The extraction of medium resolution data from the North Sea herring survey was a significant exercise because of the new system now in place which holds this data – Fishframe. The latter database will eventually have seamless outputs to facilitate such extractions but as it was only delivered towards the end of the project, the querying system and exporting options were not conducive to obtaining the data in the format required by FISBOAT. FRS staff had to work with the developer to make sure that the correct format of data were extracted, and had to undertake rigorous checking to ensure that the data were consistent with the previous time series.

The extraction of high resolution data was also cumbersome. The previous time series was readily available from another project: these served to develop the geostatistical simulation technique. However, once the method was developed, a more comprehensive time series was required to produce an error structure for all surveys. This required extraction from ad hoc (DOS based) databases and the construction of new spreadsheets to import and correct the data for the units now used.

WP2A – Population biology indices

Despite not being a major activity for FRS, a significant amount of work went into this workpackage to produce estimates of population and spatial indicators. This is partly because routines to carry out the work in WP2B did not become available and so resources were channelled into WP2A and partly because of requests to carry out WP2A analyses on the case study stock held by FRS.

WP2B – Population abundance indices

At first only a small amount of work was carried out in this – that of producing bootstrap routines to determine error estimates for demersal fish from the IBTS data.

In the latter stage of the project FRS worked closely with the workpackage leader (ARMINES) to develop the geostatistical conditional simulation method. A joint publication was prepared for presentation at the 2006 ICES ASC. In October 2007 an ad hoc workshop was held at the CdG's institute to discuss the method and refine the technique (e.g. how the variance is susceptible to the resolution of the estimation system). All surveys were run through the estimation system to produce estimates of survey precision accounting for the acoustic and trawl data.

WP3 – Assessment models

Work was carried out in the continued development and testing of two models (SURBA and TSA). SURBA, in particular, is now used in several ICES expert groups to assist in the assessment and management of several key European fish stocks. Both models were coded into the FLR framework so that they could be used in WP5.

WP4 – Simulation-testing framework

FRS worked closely with Imperial on the development of the simulation testing framework and several bilateral co-ordination meetings were held.

WP5 – Comprehensive advice and evaluation

FRS used some of the products of FISBOAT to provide advice in several fora including ICES expert groups.

Partner 3 : IMARES

WP 1 – Data collation

Personnel costs, travel and other costs related to attendance of a project meeting (1 person to Rome, Italy, in February 2004)

WP2 – Population biology and abundance indices

Personnel costs, travel and other costs related to attendance of three project meetings (1 person to Fontainebleau, France, in January 2005, 2 persons to Rhodes, Greece, in November 2005)

WP5 – Comprehensive advice and evaluation

Personnel costs, travel and other costs related to attendance of three project meetings (2 persons to Pasajés, Spain, in January 2006, hosting of meeting in IJmuiden, The Netherlands, in November 2006, 1 person to Nantes, France, in February 2007).

Partner 4 : IMR

Personnel costs and travel costs only. The overall personnel costs and travels cost are less than budget.

WP 1 – Data collation

Personnel costs as planned

WP2 – Population biology indices

Personnel costs as planned

WP2B – Population abundance indices

Personnel costs less than planned

WP3 – Assessment models

Personnel costs less than planned

WP4 – Simulation-testing framework

Personnel costs less than planned

WP5 – Comprehensive advice and evaluation

Personnel costs as planned.

WP6 – Project management

Personnel costs as planned.

Partner 5 : CEFAS

WP3 – Assessment models

Personnel costs for the development of YCC and its implementation in R. Costs for the preparation of material (presentations, software for workshop, etc.) used in project meetings. Costs for preparing a publication and for contributing to an ICES document.

Personnel costs for the implementation of interfaces to incorporate YCC, SURBA and BREM in FLR, preparation of documentation. Preparation of presentations for and participation in project meetings.

WP4 – Simulation-testing framework

Personnel cost for work on harvest control rules for the simulation-evaluation loop, preparation of documentation (e.g. for communication framework). Preparation of presentations for and participation in project meetings.

Personnel cost for the design of R classes needed for implementing and using population models and survey based assessment methods within a common framework. Travel to project meetings.

WP5 – Comprehensive advice and evaluation

Personnel cost for development of a number of documents (see above), development and testing of assessment models and preparation of documentation, dissemination of knowledge (e.g. peer reviewed papers and conference presentations), organising workshops for and participation in project meetings

WP6 – project management

Personnel time for coordination and reporting of work under WP5

Partner 6 : IMPERIAL

As several model components have to be developed by Imperial College in order to build a simulation-testing evaluation framework, a computer was bought a short time after the beginning of the project (June 2004). With it, it is possible to run simulations using large database and model components chosen for a specific case study.

During this first year and a half, two trips were made: the first one in Aberdeen in November 2004 and the second one in Fontainebleau in February 2005. They are part of the FISBOAT project as the Aberdeen meeting

was to discuss simulation evaluation loop model components that had to be assembled in WP4 and the functional linkages between these components and the meeting in Fontainebleau was the annual meeting of the project.

For the second period of the FISBOAT project, Imperial College London costs were in two cost items only, Direct costs and Indirect costs. Direct costs were used to employ 1 research associate and 1 research assistant. 1 other research assistant assisted from time to time. Indirect costs were used to undertake travel to project meetings (3 FISBOAT meetings and a workshop for Dr Hillary and 4 FISBOAT meetings and a partner meeting for Miss Pomarede).

With respect to staff payments, Dr. Hillary's salary was part-financed until the end of 2006, and Miss Pomarede has worked on the project throughout its duration.

In terms of dissemination, Miss Marine Pomarede attended the ICES Symposium on Fisheries Management Strategies in Galway (Ireland) in June 2006 and the ICES Annual Science Conference in Maastricht (The Netherlands) September of 2006. She also attended the ICES herring Working Group in Denmark in March 2007.

With respect to consumable and equipment costs, there have only been a few claims related to general office equipment required and for books required.

Partner 7 : SFI

Major costs related to personnel costs, travel and equipment. They were in line with the activities to be performed by SFI as specified in Annex 1 – Description of Work. These included participation in the following workshops as planned:

Rome workshop – 6-11.03. 2004 – 1 person

Fontainebleau workshop – 30.01-05.02. 2005 – 2 persons

Rhodes workshop – 6-12.11. 2005 – 1 person

San Sebastian workshop – 29.01-04.02. 2006 – 2 persons

IJmuiden workshop – 5-11.11. 2006 – 1 person

Nantes workshop – 18-24.02. 2007 – 1 person.

Partner 8 : SIBM

WP 1 – Data collation

In the WP1 activities 0.2 man/month resources were involved. FISBOAT meeting travel costs were sustained. No other costs were charged.

WP2A – Population biology indices

In the WP2A activities 4.3 man/month resources were involved. FISBOAT and conference meeting travel costs were sustained. No other costs were charged.

WP2B – Population abundance indices

In the WP2B activities 3 man/month resources were involved. FISBOAT and conference meeting travel costs were sustained. No other costs were charged.

WP3 – Assessment models

In the WP3 activities 5 man/month resources were involved. FISBOAT and conference meeting travel costs were sustained. No other costs were charged.

WP4 – Simulation-testing framework

In the WP4 activities 1.9 person/month resources were involved. FISBOAT and conference meeting travel costs were sustained. No other costs were charged.

WP5 – Comprehensive advice and evaluation

In the WP5 activities 3.9 person/month resources were involved. FISBOAT and conference meeting travel costs were sustained. No other costs were charged.

WP6 – project management

In the WP6 activities 0.75 person/month resources were involved. FISBOAT and conference meeting travel costs were sustained. No other costs were charged.

Partner 9 : HCMR

Travel and subsistence costs: Participation of 3 scientists in the project meetings of Rome (8-10 March 2004), Fontainebleau (31/1-4/2/2005), Rhodes (7-11 Nov. 2005), San Sebastian (30/1-3/2/2006), Ijmuiden (6-10 Nov. 2006) and Nantes (19-23 Feb. 2007). 3 days travel of 2 persons in Rhodes for preparation of the project meeting.

Consumables: mainly computer consumables & equipment necessary for the meeting of Rhodes

Personnel costs : For laboratory work and participation in the meetings (WP1 : 0.20 man.month ; WP2A : 2.93 man.months ; WP2B: 1 man.month ; WP3 : 2.11 man.months ; WP5 : 2.9 man.months).

Within WP6 Project management there were costs for hosting the Rhodes meeting and for the audit certificates.

Partner 10 : AZTI

Major costs were personnel costs, travel and subsistence costs to attend Fisboat and related meetings and audit certificate costs.

WP 1 – Data collation

The time in AZTI for preparing the data sets from the DEPM surveys on anchovy is included in this section.

WP2A – Population biology indices

Personnel costs for applying the project R scripts for obtaining the Biological indices and the costs for meetings. Personnel costs as planned. Travel and subsistence costs for 1 or 2 scientist (depending on the meeting) to attend the Fisboat meeting in Roma (for 2) in March 2004, a workshop on surveys in Lisbon (1) Nov2004, a project meeting in Fontainebleau (2) in Feb 2005, Rhodes (1) in November 2005, Ijmuiden (1) in November 2006 and Nantes (1) in February 2007.

WP2B – Population abundance indices

Personnel costs as planned.

Travel costs include the costs to attend meetings related to FISBOAT WP2B work:

- a) A meeting in Lisbon in April 2004 with experts on the application of the DEPM for analysis of uncertainties of the estimates (1 person)
- b) ICES Working Group On Survey design and data analysis (WKSAD) held in Sete (May 2005), which was of clear interest for the catchability analysis devised within this WP (1 person)
- c) ICES Working Group on acoustic and egg surveys for sardine and anchovy in ICES areas VIII and IX held in Vigo in October 2005(4 scientists).

WP5 – Comprehensive advice and evaluation

Personnel costs as planned.

Travel and subsistence costs for 1 scientist to attend the Fisboat meeting in Aberdeen in May 2006 and for 2 scientists to attend the Fisboat meetings in Ijmuiden in November 2006 and in Nantes in February 2007.

WP6 – project management

Audit costs for the first and final report periods of the project.

Additional costs for organizing the Fisboat meeting in Pasaia in January 2006.

Partner 11 : ARMINES

WP2 – Population biology and abundance indices

Personnel: 10.5 man-months.

The travel costs (WP2A and 2B) include the following:

- Fisboat meetings in Rome (march 2004) and Fontainebleau (feb 2005), Rhodes (07-11 November 2005), San Sebastian (29 January - 03 February 2006), Ijmuiden (06-10 November 2006) and Nantes (19-23 February 2007),
- participation to ICES Workshop on Survey design and Analysis in Sète (june 2005), ICES ASC in Aberdeen (sept 2005) and Maastricht (sept 2006).

WP5 – Comprehensive advice and evaluation

2 man-months

Overview of costs

Cost Budget Follow-up Table		*) total budget figures - not EC funding					
Contract N°: 502572		Acronym: FISBOAT			Date: 1/03/04-30/06/07		
PARTICIPANTS	TYPE of EXPENDITURE (as defined by participants)	BUDGET e	ACTUAL COSTS (EUR)			Pct. spent	Remaining Budget (EUR) e-e1
			Period 1 a1	Period 2 b1	Total e1	Total a1+b1/e	
Part. 1 IFREMER	Total Person-month	42.1	30.8	27.7	58.5	139	-16.4
	Costs RTD		291472.4	339621.4	631093.8		
	Costs MNG		43804.5	81496.2	125300.7		
	Total Costs	544890	335276.9	421117.6	756394.5	138.8	-211504.5
Part. 2 FRS	Total Person-month	25.2	10	9.7	19.7	78.2	5.5
	Costs RTD		101887.4	162170.8	264058.2		
	Costs MNG			1413.4	1413.4		
	Total Costs	363500	101887.4	163584.2	265471.6	73	98028.4
Part. 3 IMARES	Total Person-month	16.4	4.8	13.6	18.4	112.2	-2
	Costs RTD		43501.9	133776.9	177278.8		
	Costs MNG			4875	4875		
	Total Costs	164000	43501.9	138651.9	182153.8	111.1	-18153.8
Part. 4 IMR	Total Person-month	28.8	7.5	18.7	26.2	91	2.6
	Costs RTD		85102	157393.5	242495.5		
	Costs MNG						
	Total Costs	384000	85102	157393.5	242495.5	63.1	141504.5
Part. 5 CEFAS	Total Person-month	27	4	25.2	29.2	108.1	-2.2
	Costs RTD		43311	253355.5	296666.5		
	Costs MNG			4999	4999		
	Total Costs	303000	43311	258354.5	301665.5	99.6	1334.5
Part. 6 IMPERIAL COLLEGE	Total Person-month	24.1	14.2	24	38.2	158.5	-14.2
	Costs RTD		36892.7	91183.3	128076		
	Costs MNG						
	Total Costs	161000	36892.7	91183.3	128076	81.6	28842

Part. 7 SFI	Total Person-month	9	5.7	3.9	9.6	106.7	-0.6
	Costs RTD		31673.3	25826.7	57500		
	Costs MNG						
	Total Costs	57500	31673.3	25826.7	57500	100	0
Part. 8 SIBM	Total Person-month	19.05	11	8.1	19.1	100.3	-0.1
	Costs RTD		87600.9	53774.6	141375.5		
	Costs MNG		3000	2500	5500		
	Total Costs	137000	90600.3	56274.6	146875.5	107.2	-9875.5
Part. 9 HCMR	Total Person-month	4.6	2.15	7	9.15	198.9	-4.6
	Costs RTD		44736.7	50743.8	95480.5		
	Costs MNG			2789	2789		
	Total Costs	98000	44736.7	53532.8	98269.5	100.3	-269.5
Part. 10 AZTI	Total Person-month	8	6.5	13.2	19.7	246.3	-11.7
	Costs RTD		52748.6	110350.9	163099.5		
	Costs MNG		560	3625.8	4185.8		
	Total Costs	157610	53308.6	113976.7	167285.3	106.1	-9675.3
Part. 11 ARMINES	Total Person-month	15.50	14.7	8.33	23.03	148.6	-7.5
	Costs RTD		170887	70887.9	241774.9		
	Costs MNG			2176	2176		
	Total Costs	225000	170887	73063.9	243950.9	108.4	-18950.9

Overview of person-months

Person-Month Status Table																
CONTRACT N° : 502572		Partner - Person-month per Workpackage											AC-own staff			
ACRONYM : FISBOAT		Totals	Coord IFREMER	FRS	IMARES	IMR	CEFAS	IMPERIAL COLLEGE	SFI	SIBM	HCMR	AZTI	ARMINES	AC Totals	AC IMPERIAL COLLEGE	AC SIBM
PERIOD : 1/03/04-30/06/07																
Workpackage 1 : Collation of relevant survey data	Actual WP total :	7.96	2.79	3.25	0.32	0.2	0	0	0.5	0	0.2	0.7	0			
	Planned WP total :	2.33	0.5	0.21	0.32	0.2	0	0	0.5	0.2	0.2	0.2	0			
Workpackage 2 : Population indices	Actual WP total :	94.84	20.12	8.6	6.36	16.4	0	0	4.5	0.3	3.93	13.6	21.03			
	Planned WP total :	88.81	17.7	6.18	12.83	11.9	0	3.7	4	8.1	2.1	6.8	15.5			
Workpackage 3 : Assessment models	Actual WP total :	38.16	8.59	5.3	0	5.6	10.89	0	3.67	2	2.11	0	0			
	Planned WP total :	45.61	9	14.21	0	7.6	6	0	2.5	5	1.3	0	0			
Workpackage 4 : Simulation-testing framework	Actual WP total :	33.47	0	2	0	2.2	2.97	24.8	0	1.5	0	0	0			
	Planned WP total :	29.67	4	0.97	0	4.4	5.5	13.7	0	1.1	0	0	0			
Workpackage 5 : Comprehensive advice and evaluation	Actual WP total :	76.74	20.33	0	11.72	0.9	15.69	12	2	3.9	2.9	5.3	2			
	Planned WP total :	43.78	4.5	3.58	3.25	3.9	14.75	5.9	2	3.9	1	1	0			
Workpackage 6 : Project management	Actual WP total :	8.39	6.64	0.5	0	0	0.4	0.35	0	0.4	0	0.1	0			
	Planned WP total :	9.4	6.4	0	0	0.75	0.75	0.75	0	0.75	0	0	0			
Total Project Person-month	Actual total :	259.6	58.47	19.65	18.4	25.3	29.95	37.15	10.67	8.1	9.14	19.7	23.03			
	Planned total :	219.6	42.1	25.15	16.4	28.75	27	24.05	9	19.05	4.6	8	15.5			

Explanation of deviations from budgeted costs, person-months and workplan

Partner 1 : IFREMER

Major deviations have been in personnel costs for WPs 1, 2, 4 and 5. Personnel costs have been exceeded in WP1 by 2.3 months, in WP2 by 3.4 months and in WP5 by 11.8 months. In WP4, 4 months originally budgeted were re-allocated to WP5. In WP1 modifications in the acoustic data base were undertaken for automating the production of data files as well as variance estimation. In WP2B more catchability analyses were undertaken than originally planned. In WP5, IFREMER invested nearly 12 months extra for the methods development of the indicator-based approach, their application to the case studies and the compilation of the results. This investment was decided at the San Sebastian meeting (Jan. 2006) when it was clear that the FLR simulation evaluation loop would not account for the wide range of survey data biological information produced in WP2 and would not apply to other management context than ICES waters. We took the opportunity of the Fisboat project to make full use of the wide range of survey-based fishery-independent population indicators developed as well as apply to fishery-independent assessment procedures in all European management contexts, including the Mediterranean sea. The FISBOAT project was thus a good opportunity to develop an indicator-based approach. Developments and results obtained were not foreseen when constructing the project.

Partner 2 : FRS

WP 1 – Data collation

Data collation in the face of certain analyses took considerably longer than anticipated due to two reasons: The types of data required (e.g. different resolutions and different parameters); The errors associated with data retrieval

WP2A – Population biology indices

Effort was redeployed into this WP as we awaited routines to carry out WP2B. Requests were also made to analyse the North Sea herring case study from within the consortium which meant more activity in this workpackage than originally planned.

WP2B – Population abundance indices

Work as expected.

WP3 – Assessment models

Less work was charged to the project than expected. This is largely because much of the activities required for FISBOAT for the staff involved (Coby Needle in particular) were part of ongoing nationally funded projects and studentships.

WP4 – Simulation-testing framework

More work was involved with this work package than anticipated due to the close collaboration with Imperial college.

WP5 – Comprehensive advice and evaluation.

Due largely to staff shortages (i.e. Mr Simmonds taking sabbatical in 2006/07) FRS was unable to commit as much time as anticipated to this activity.

Partner 3 : IMARES

WP2A – Population biology indices

We spent less time and money in this workpackage, because we classified the elaboration of the indices (analysis and evaluation) part of WP5.

WP2B – Population abundance indices

We spent less time and money in this workpackage, because we classified the elaboration of the indices (analysis and evaluation) part of WP5.

WP5 – Comprehensive advice and evaluation

Work regarding the analysis and evaluation of the population indices (follow up of WP2) was viewed as work belonging to WP5. Applying multivariate and analytical methods to the indicators, and correcting and debugging the model code appeared rather time consuming. We spent much more time than planned on this workpackage (see above) resulting in an extra 2 p.m.spent on the project as a whole.

Partner 4 : IMR

Personel costs and person-months are below the budget. The work has been done as planned with some exceptions : the combination of two survey series was not done, the ALADYN simulations were not done (strong fluctuations in natural mortality is not a part of ALADYN) and the LENSUR assessment model was not implemented in FLR. Also the coordination of WP3 was reduced and shared with the project coordinating institute.

Partner 5 : CEFAS

WP3 – Assessment models

The preparation of part of the standard communication framework was delayed to allow for the implementation of the assessment methods within a common framework. As a result, less money was spent on that activity during the first project period. The budget was adjusted in such a way that the money that was not spent during the first 18 months was available to cover the completion of the communication framework in the second part of the project.

In addition, More money was spent under this WP since part of the work originally allocated to WP4 and 5 was initiated under WP3.

WP4 – Simulation-testing framework

No deviation. Part of the work was costed under WP3. See above.

WP6 – project management

No deviation

Partner 6 : IMPERIAL

Imperial re-allocated its effort to WP4 and WP5 to complete the project successfully. Furthermore, the contract extension naturally led to about 3.5 person months overrun just on its own. This expansion in work delivered was, however, achieved well within the budget because staff turned out to be less expensive than had been imagined.

Partner 7 : SFI

Additional 0.5 person-month in was added as compared to planned person-months due to the 4 months extension of the FISBOAT project. A part of the budget planned for travel was shifted to work activities. Therefore no harm was done to the overall budget. Extra 0.5 person-month was necessary to perform additional calculations due to development of the software.

Partner 8 : SIBM

The WP4 – Simulation-testing framework required more than the planned person-months for developing and coding a simulation tool, named Aladym-q, aimed to account for uncertainty in the process of assessing the

effects of changes in biological, fishing pressure and management parameters. Thus resources (person/month) originally allotted to WP2B were reallocated to WP4 (0.8 person-months), as the contribution to the deliverables of WP2B – Population abundance indices allowed to make available the above mentioned person-months.

Partner 9 : HCMR

A main deviation concerned the planned travel expenses, which were overpassed. This was inevitable due to the necessity of participation of the scientists of HCMR to the project meetings. In all, there was no high deviation from the total budgeted cost, since extra expenses were partly compensated by reduced consumables charged to the project and by the reduction of indirect costs (reduction of overheads rate of HCMR during the last years).

WP 1.- Data collation

No deviation

WP2A – Population biology indices

The person months planned were overpassed since this workpackage was prolonged until month 21 and it was one of the main subjects of the Rhodes meeting.

WP2B – Population abundance indices

No deviation

WP3 – Assessment models

The person months planned were overpassed due to the time needed for participation in the meetings, rerunning of updated Aladym codes and interaction with partner 8.

WP5 – Comprehensive advice and evaluation

The person months needed were more than expected due to the time needed for participation in the meetings and rerunning of updated codes.

WP6 – project management

Although no expenses were foreseen for HCMR in this workpackage at the beginning of the project, subsequently, there were expenses charged for hosting the meeting in the Hydrobiological Station of HCMR in Rhodes and for the audit certificate needed at the end of the project.

Partner 10 : AZTI

More man months have been spent than originally planned in WPs 2 and 5.

WP2 – Population biology and abundance indices

The differences between the reported and the budgeted person/months are: AZTI's planned WP man month corresponds to the total project (as reported in Annex 1 of the project) However that amount corresponded only to the funded one (half of the work); the other mid part of the work was the one we had to pay with our own resources given our Full Cost Contract. Reported man months corresponds to the total realised amount of work spent on the project (of which 50% is requested to be funded).

WP5 – Comprehensive advice and evaluation

WP5 has taken longer than expected as the simulation-testing framework has been applied to the Bay of Biscay anchovy.

Partner 11 : ARMINES

WP2 – Population biology and abundance indices

More man months than planned were spent for different reasons:

- some man-months have been made by an undergraduate (more man-months for the same work);

- delay in the progress of the WP, in particular for case studies and transferability with other partners. In particular bi-partner transfer meeting (WP2B) was held in Fontainebleau late (October 2006).

WP5 – Comprehensive advice and evaluation

As explained in the Activity Report, an initially unplanned work in WP5 has been performed by ARMINES, for the use of the indices developed in WP2A (2 man-months). We were interested in making full use of the spatial indicators developed in WP2A, to serve for the advice.

**Section 2 –Financial statement per activity for the reporting period
by contractor**

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	FISBOAT	Contract n°	502572

Contractor's Legal Name	IFREMER		
Legal Type			
Contact Person		Telephone	
Telecopy		E-mail	

Cost model used (AC//FC or FCF)	FC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Real indirect cost
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Period from	01/03/2004	To	30/06/2007
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1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

Add Third Party

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	414831,61						77826,47				492658,08	0,00
Of which subcontracting											0,00	0,00
Indirect costs	216262,15						47474,15				263736,30	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	631093,76	0,00	0,00	0,00	0,00	0,00	125300,62	0,00	0,00	0,00	756394,38	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

4- Declaration of interest generated by the pre-financing (in €)*To be completed only by the coordinator.*

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)

No

If yes, please mention the amount (in €)

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)

440847,50

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)

No

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)

If No, what is the periodicity covered by this(those) audit certificate(s)?

From – To

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)

Legal name of the audit firm

Cost of the certificate

Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1: Legal name of the audit firm

Cost of the certificate

Y2: Legal name of the audit firm

Cost of the certificate

Y3: Legal name of the audit firm

Cost of the certificate

Y4: Legal name of the audit firm

Cost of the certificate

Add Audit Firm

Total (Z) = (X) + (Ys)

0,00

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party(ies) (if necessary)**Third Party 1 (Y1)**

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 2 (Y2)

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 3 (Y3)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Third Party 4 (Y4)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Add Third Party

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	P. PETITGAS	J.M. DEVAUX
	Date	Date
	Signature	Signature

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	FISBOAT	Contract n°	502572

Contractor's Legal Name	FRS		
Legal Type			
Contact Person	Dr Paul Fernandes	Telephone	
Telecopy	+00 44 (0)1224 295511	E-mail	

Cost model used (AC//FC or FCF)	FC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Real indirect cost
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Period from	01/03/2004	To	30/06/2007
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1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

Add Third Party

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	135950,03						1413,37				137363,40	0,00
Of which subcontracting							1413,37				1413,37	0,00
Indirect costs	128108,13										128108,13	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	264058,16	0,00	0,00	0,00	0,00	0,00	1413,37	0,00	0,00	0,00	265471,53	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

4- Declaration of interest generated by the pre-financing (in €)*To be completed only by the coordinator.*

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)

No

If yes, please mention the amount (in €)

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)

133442,45

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)

Yes

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)

No

If No, what is the periodicity covered by this(those) audit certificate(s)?

From – To

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)

Legal name of the audit firm

Anderson, Anderson Brown

Cost of the certificate

1413,37

Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1: Legal name of the audit firm

Cost of the certificate

Y2: Legal name of the audit firm

Cost of the certificate

Y3: Legal name of the audit firm

Cost of the certificate

Y4: Legal name of the audit firm

Cost of the certificate

Add Audit Firm

Total (Z) = (X) + (Ys)

1413,37

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor

- Conversion rate of the Date of incurred actual costs?

No

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

Yes

Third Party(ies) (if necessary)**Third Party 1 (Y1)**

- Conversion rate of the Date of incurred actual costs?

No

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

Yes

Third Party 2 (Y2)

- Conversion rate of the Date of incurred actual costs?

No

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

Yes

Third Party 3 (Y3)

- Conversion rate of the Date of incurred actual costs?	No
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	Yes

Third Party 4 (Y4)

- Conversion rate of the Date of incurred actual costs?	No
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	Yes

Add Third Party

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Dr Paul Fernandes	Alastair Bridgford
	Date	Date
	Signature	Signature

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	FISBOAT	Contract n°	502572

Contractor's Legal Name	IMARES (RIVO)		
Legal Type			
Contact Person	Mw. Dr. C.M. Deerenberg	Telephone	0255-564660
Telecopy	0255-5646-44	E-mail	Charlotte.Deerenberg@wur.nl

Cost model used (AC//FC or FCF)	FC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Real indirect cost
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Period from	01/03/2004	To	30/06/2007
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1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

Add Third Party

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	101014,72						4875,00				105889,72	0,00
Of which subcontracting							4875,00				4875,00	0,00
Indirect costs	76624,10										76624,10	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	177638,82	0,00	0,00	0,00	0,00	0,00	4875,00	0,00	0,00	0,00	182513,82	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

4- Declaration of interest generated by the pre-financing (in €)*To be completed only by the coordinator.*

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)

No

If yes, please mention the amount (in €)

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)

93694,41

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)

Yes

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)

Yes

If No, what is the periodicity covered by this(those) audit certificate(s)?

From – To

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)

Legal name of the audit firm

Cost of the certificate

2000,00

Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1: Legal name of the audit firm

Cost of the certificate

Y2: Legal name of the audit firm

Cost of the certificate

Y3: Legal name of the audit firm

Cost of the certificate

Y4: Legal name of the audit firm

Cost of the certificate

Add Audit Firm

Total (Z) = (X) + (Ys)

2000,00

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party(ies) (if necessary)**Third Party 1 (Y1)**

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 2 (Y2)

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 3 (Y3)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Third Party 4 (Y4)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Add Third Party

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Mw. Dr. C.M. Deerenberg	Dhr. C.J. Klepper
	Date	Date
	16.07.2007	16.07.2007
	Signature	Signature

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	FISBOAT	Contract n°	502572

Contractor's Legal Name	IMR		
Legal Type			
Contact Person	Dankert Skagen	Telephone	
Telecopy		E-mail	

Cost model used (AC//FC or FCF)	FC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Real indirect cost
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Period from	01/03/2004	To	30/06/2007
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1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

Add Third Party

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	165011,00										165011,00	0,00
Of which subcontracting											0,00	0,00
Indirect costs	77484,00										77484,00	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	242495,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	242495,00	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

4- Declaration of interest generated by the pre-financing (in €)*To be completed only by the coordinator.*

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)

No

If yes, please mention the amount (in €)

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)

121247,50

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)

No

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)

If No, what is the periodicity covered by this(those) audit certificate(s)?

From – To

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)

Legal name of the audit firm

Cost of the certificate

Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1: Legal name of the audit firm

Cost of the certificate

Y2: Legal name of the audit firm

Cost of the certificate

Y3: Legal name of the audit firm

Cost of the certificate

Y4: Legal name of the audit firm

Cost of the certificate

Add Audit Firm

Total (Z) = (X) + (Ys)

0,00

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor

- Conversion rate of the Date of incurred actual costs?

No

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

Yes

Third Party(ies) (if necessary)**Third Party 1 (Y1)**

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 2 (Y2)

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 3 (Y3)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Third Party 4 (Y4)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Add Third Party

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Dankert Skagen	Arild Markussen
	Date	Date
	04/07/2007	04/07/2007
	Signature	Signature

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	FISBOAT	Contract n°	502572

Contractor's Legal Name	CEFAS		
Legal Type			
Contact Person	Mr David Pettengell	Telephone	+44 1502 524215
Telecopy	+44 1502 524569	E-mail	david.pettengell@cefass.co.uk

Cost model used (AC//FC or FCF)	FC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Real indirect cost
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Period from	01/03/2004	To	30/06/2007
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1- Resources (Third party(ies))

<i>Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No)</i>	No
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If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

Add Third Party

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;*
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.*

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	182254,76						3433,83				185688,59	0,00
Of which subcontracting											0,00	0,00
Indirect costs	114411,55						1565,17				115976,72	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	296666,31	0,00	0,00	0,00	0,00	0,00	4999,00	0,00	0,00	0,00	301665,31	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

4- Declaration of interest generated by the pre-financing (in €)*To be completed only by the coordinator.*

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)

No

If yes, please mention the amount (in €)

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)

153332,16

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)

Yes

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)

No

If No, what is the periodicity covered by this(those) audit certificate(s)?

From – To

01/03/2004-30/06/2007

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)

Legal name of the audit firm

Internal Auditor Mr B Granger

Cost of the certificate

745,00

Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1: Legal name of the audit firm

Cost of the certificate

Y2: Legal name of the audit firm

Cost of the certificate

Y3: Legal name of the audit firm

Cost of the certificate

Y4: Legal name of the audit firm

Cost of the certificate

Add Audit Firm

Total (Z) = (X) + (Ys)

745,00

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party(ies) (if necessary)**Third Party 1 (Y1)**

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 2 (Y2)

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 3 (Y3)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Third Party 4 (Y4)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Add Third Party

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Dr Panayiota Apostolaki	Mr Steve Rogers
	Date	Date
	19/07/2007	19/07/2007
	Signature	Signature

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	FISBOAT	Contract n°	502572

Contractor's Legal Name	IMPERIAL COLLEGE		
Legal Type	Non-profit		
Contact Person	Tom Bowker	Telephone	+44(0)2075948775
Telecopy	+44(0)207 5945543	E-mail	tom.bowker@imperial.ac.uk

Cost model used (AC//FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20

Period from	01/03/2004	To	30/06/2007
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1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	
Third Party 5 (Y5) Legal Name		Cost model used	
Third Party 6 (Y6) Legal Name		Cost model used	

Add Third Party

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;

- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

Type of Activity												
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	106730,03										106730,03	0,00
Of which subcontracting											0,00	0,00
Indirect costs	21345,99										21345,99	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	128076,02	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	128076,02	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

4- Declaration of interest generated by the pre-financing (in €)

To be completed only by the coordinator.

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)

No

If yes, please mention the amount (in €)

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)

128076,02

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)

Yes

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)

No

If No, what is the periodicity covered by this(those) audit certificate(s)?

From – To

01/03/2004-30/06/2007

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)

Legal name of the audit firm		Cost of the certificate	728,74
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Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1: Legal name of the audit firm		Cost of the certificate	
Y2: Legal name of the audit firm		Cost of the certificate	
Y3: Legal name of the audit firm		Cost of the certificate	
Y4: Legal name of the audit firm		Cost of the certificate	
Y5: Legal name of the audit firm		Cost of the certificate	
Y6: Legal name of the audit firm		Cost of the certificate	

Add Audit Firm

Total (Z) = (X) + (Ys)

728,74

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor	
- Conversion rate of the Date of incurred actual costs?	No
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	Yes
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 5 (Y5)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 6 (Y6)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Add Third Party	

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	David Agnew	Tom Bowker
	Date	Date
	06/07/2007	10/07/2007
	Signature	Signature

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	FISBOAT	Contract n°	502572

Contractor's Legal Name	SFI		
Legal Type			
Contact Person	Andrzej Orlowski	Telephone	+48587356215
Telecopy		E-mail	orlov@mir.gkynia.pl

Cost model used (AC//FC or FCF)	FC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Real indirect cost
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Period from	01/03/2004	To	30/06/2007
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1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

Add Third Party

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	34999,64										34999,64	0,00
Of which subcontracting											0,00	0,00
Indirect costs	22500,36										22500,36	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	57500,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	57500,00	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

4- Declaration of interest generated by the pre-financing (in €)*To be completed only by the coordinator.*

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)

No

If yes, please mention the amount (in €)

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)

28750,00

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)

No

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)

If No, what is the periodicity covered by this(those) audit certificate(s)?

From – To

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)

Legal name of the audit firm

Cost of the certificate

Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1: Legal name of the audit firm

Cost of the certificate

Y2: Legal name of the audit firm

Cost of the certificate

Y3: Legal name of the audit firm

Cost of the certificate

Y4: Legal name of the audit firm

Cost of the certificate

Add Audit Firm

Total (Z) = (X) + (Ys)

0,00

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor

- Conversion rate of the Date of incurred actual costs?

No

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

Yes

Third Party(ies) (if necessary)**Third Party 1 (Y1)**

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 2 (Y2)

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 3 (Y3)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Third Party 4 (Y4)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Add Third Party**8- Contractor's Certificate**

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Dr. Andrzej Orłowski	Rafał Geremk
	Date	Date
	06/07/2007	06/07/2007
	Signature	Signature

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	FISBOAT	Contract n°	502572

Contractor's Legal Name	SIBM		
Legal Type			
Contact Person	Prof; Angelo Tursi	Telephone	+390805443350
Telecopy	+390805443350	E-mail	a.tursi@biologia.uniba.it

Cost model used (AC//FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20

Period from	01/03/2004	To	30/06/2007
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1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

Add Third Party

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	122820,01						5000,00				127820,01	0,00
Of which subcontracting	16500,00						5000,00				21500,00	0,00
Indirect costs	21264,00										21264,00	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	144084,01	0,00	0,00	0,00	0,00	0,00	5000,00	0,00	0,00	0,00	149084,01	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

4- Declaration of interest generated by the pre-financing (in €)*To be completed only by the coordinator.*

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)	No
If yes, please mention the amount (in €)	

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)	149084,01
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6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)	Yes
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If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)	Yes
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If No, what is the periodicity covered by this(those) audit certificate(s)?	From – To
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What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)	
Legal name of the audit firm	Alessandro Pinto
Cost of the certificate	240,00
Audit certificate(s) of the third party(ies) (Ys) (if necessary)	
Y1: Legal name of the audit firm	
Y2: Legal name of the audit firm	
Y3: Legal name of the audit firm	
Y4: Legal name of the audit firm	
Add Audit Firm	
Total (Z) = (X) + (Ys)	240,00

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Add Third Party

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Giuseppe Lembo	Angelo Tursi
	Date	Date
	28/01/2008	28/01/2008
	Signature	Signature

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	FISBOAT	Contract n°	502572

Contractor's Legal Name	HCMR		
Legal Type	Other		
Contact Person	Chrissi-Yianna Politou	Telephone	2109856704
Telecopy		E-mail	c-y@ath.hcmr.gr

Cost model used (AC//FC or FCF)	FC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Real indirect cost
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Period from	01/03/2004	To	30/06/2007
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1- Resources (Third party(ies))

<i>Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No)</i>	No
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If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

Add Third Party

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;*
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.*

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	63593,83						2788,96				66382,79	0,00
Of which subcontracting							800,00				800,00	0,00
Indirect costs	37796,21										37796,21	0,00
Adjustments to previous period(s)	-5909,61										-5909,61	0,00
Total costs	95480,43	0,00	0,00	0,00	0,00	0,00	2788,96	0,00	0,00	0,00	98269,39	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

4- Declaration of interest generated by the pre-financing (in €)*To be completed only by the coordinator.*

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)

No

If yes, please mention the amount (in €)

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)

50529,18

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)

Yes

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)

No

If No, what is the periodicity covered by this(those) audit certificate(s)?

From – To

01/03/2004-30/06/2007

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)

Legal name of the audit firm

Cost of the certificate

800,00

Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1: Legal name of the audit firm

Cost of the certificate

Y2: Legal name of the audit firm

Cost of the certificate

Y3: Legal name of the audit firm

Cost of the certificate

Y4: Legal name of the audit firm

Cost of the certificate

Add Audit Firm

Total (Z) = (X) + (Ys)

800,00

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party(ies) (if necessary)**Third Party 1 (Y1)**

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 2 (Y2)

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 3 (Y3)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Third Party 4 (Y4)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Add Third Party

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Dr. Chrissi-Yianna Politou	Mrs I. Georgiadou
	Date	Date
	02/07/2007	02/07/2007
	Signature	Signature

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	FISBOAT	Contract n°	502572

Contractor's Legal Name	AZTI		
Legal Type			
Contact Person	Andres Uriarte	Telephone	+34 943004800
Telecopy	+34 943004801	E-mail	auriarte@pas.azti.es

Cost model used (AC//FC or FCF)	FC	Indirect costs(Real or Flat Rate of 20% of Direct costs, except subcontracting)	Real indirect cost
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Period from	01/03/2004	To	30/06/2007
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1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

Add Third Party

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	85573,50						4185,80				89759,30	0,00
Of which subcontracting							3625,80				3625,80	0,00
Indirect costs	77526,00										77526,00	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	163099,50	0,00	0,00	0,00	0,00	0,00	4185,80	0,00	0,00	0,00	167285,30	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

Type of Activity

	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	8000,00

4- Declaration of interest generated by the pre-financing (in €)*To be completed only by the coordinator.*

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)	No
If yes, please mention the amount (in €)	

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)	85735,55
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6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)	Yes
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If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)	Yes
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If No, what is the periodicity covered by this(those) audit certificate(s)?	From – To
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What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)			
Legal name of the audit firm		Cost of the certificate	2452,00
Audit certificate(s) of the third party(ies) (Ys) (if necessary)			
Y1: Legal name of the audit firm		Cost of the certificate	
Y2: Legal name of the audit firm		Cost of the certificate	
Y3: Legal name of the audit firm		Cost of the certificate	
Y4: Legal name of the audit firm		Cost of the certificate	
Add Audit Firm			
		Total (Z) = (X) + (Ys)	2452,00

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor	
- Conversion rate of the Date of incurred actual costs?	No
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	Yes
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Third Party 3 (Y3)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Third Party 4 (Y4)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Add Third Party

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Andres Uriarte Seminario	Javier Aramburu Mateos
	Date	Date
	10/07/2007	10/07/2007
	Signature	Signature

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	FISBOAT	Contract n°	502572

Contractor's Legal Name	ARMINES		
Legal Type			
Contact Person	Arnaud Helleux	Telephone	33 (1) 40 51 93 85
Telecopy	33 (1) 46 34 23 05	E-mail	

Cost model used (AC//FC or FCF)	FC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Real indirect cost
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Period from	01/03/2004	To	30/06/2007
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1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) Yes

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name	ECOLE NATIONALE SUPERIEURE DES MINES DE PARIS	Cost model used	FC
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

Add Third Party

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

	Type of Activity											
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	100708,14	52613,98					2176,00				102884,14	52613,98
Of which subcontracting							2176,00				2176,00	0,00
Indirect costs	29426,80	64944,99									29426,80	64944,99
Adjustments to previous period(s)	-5051,87	-867,18									-5051,87	-867,18
Total costs	125083,07	116691,79	0,00	0,00	0,00	0,00	2176,00	0,00	0,00	0,00	127259,07	116691,79

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

	Type of Activity											
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

4- Declaration of interest generated by the pre-financing (in €)*To be completed only by the coordinator.*

Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)

No

If yes, please mention the amount (in €)

5- Request of FP6 Financial contribution (in €)

For this period, the FP6 Community financial contribution requested is equal to (amount in €)

123063,43

6- Audit certificates

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)

Yes

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)

Yes

If No, what is the periodicity covered by this(those) audit certificate(s)?

From – To

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

Audit certificate of the contractor (X)

Legal name of the audit firm

GBA AUDIT ET FINANCE

Cost of the certificate

2176,00

Audit certificate(s) of the third party(ies) (Ys) (if necessary)

Y1: Legal name of the audit firm

GBA AUDIT ET FINANCE

Cost of the certificate

0,00

Y2: Legal name of the audit firm

Cost of the certificate

Y3: Legal name of the audit firm

Cost of the certificate

Y4: Legal name of the audit firm

Cost of the certificate

Add Audit Firm

Total (Z) = (X) + (Ys)

2176,00

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium".

The required audit certificate(s) is(are) attached to this Financial Statement.

7-Conversion rates

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.

Contractor

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party(ies) (if necessary)**Third Party 1 (Y1)**

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 2 (Y2)

- Conversion rate of the Date of incurred actual costs?

Yes

- Conversion rate of the first day of the first month following the period covered by this Financial Statement?

No

Third Party 3 (Y3)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Third Party 4 (Y4)

- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

Add Third Party

8- Contractor's Certificate

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
- the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Jacques RIVOIRARD	Emmanuelle LAFOUGE
	Date	Date
	24/07/2007	24/07/2007
	Signature	Signature

Section 3 – Summary financial report

Summary table

Summary Financial Report

Type of Instrument		STReP	Project Title (or Acronym)		FISBOAT								Contract N°		502572					
Reporting period number			Total period	From (dd/mm/yyyy)	01/03/2004				To (dd/mm/yyyy)				30/06/2007		Page	1/1				
Contractor n°	Organisation Short Name	Cost model used	Eligible costs (in €)	Type of activities										Total eligible costs (F)=(A)+(B)+(C)+(D)+(E)		Receipts		EC contribution		
				Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the consortium (D)		Other Specific Activities (E)								
				Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Maximum	Requested	
1	IFREMER	FC	Direct eligible costs	414 831,61	0,00	0,00	0,00	0,00	0,00	77 826,47	0,00	0,00	0,00	492 658,08	0,00	0,00	0,00	440 847,50	440 847,50	
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					
			Indirect eligible costs	216 262,15	0,00	0,00	0,00	0,00	0,00	0,00	47 474,15	0,00	0,00	0,00	263 736,30					0,00
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Total eligible costs	631 093,76	0,00	0,00	0,00	0,00	0,00	0,00	125 300,62	0,00	0,00	0,00	756 394,38					0,00
2	FRS	FC	Direct eligible costs	135 950,03	0,00	0,00	0,00	0,00	0,00	1 413,37	0,00	0,00	0,00	137 363,40	0,00	0,00	0,00	133 442,45	133 442,45	
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					
			Indirect eligible costs	128 108,13	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	128 108,13					0,00
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Total eligible costs	264 058,16	0,00	0,00	0,00	0,00	0,00	0,00	1 413,37	0,00	0,00	0,00	265 471,53					0,00
3	IMARES (RIVO)	FC	Direct eligible costs	101 014,72	0,00	0,00	0,00	0,00	0,00	4 875,00	0,00	0,00	0,00	105 889,72	0,00	0,00	0,00	93 694,41	93 694,41	
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					
			Indirect eligible costs	76 624,10	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	76 624,10					0,00
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Total eligible costs	177 638,82	0,00	0,00	0,00	0,00	0,00	0,00	4 875,00	0,00	0,00	0,00	182 513,82					0,00
4	IMR	FC	Direct eligible costs	165 011,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	165 011,00	0,00	0,00	0,00	121 247,50	121 247,50	
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					
			Indirect eligible costs	77 484,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	77 484,00					0,00
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Total eligible costs	242 495,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	242 495,00					0,00

5	CEFAS	FC	Direct eligible costs	182 254,76	0,00	0,00	0,00	0,00	0,00	3 433,83	0,00	0,00	0,00	185 688,59	0,00	0,00	0,00	153 332,16	153 332,16	
			<i>of which direct eligible costs of subcontracting</i>	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Indirect eligible costs	114 411,55	0,00	0,00	0,00	0,00	0,00	0,00	1 565,17	0,00	0,00	0,00	115 976,72					0,00
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Total eligible costs	296 666,31	0,00	0,00	0,00	0,00	0,00	0,00	4 999,00	0,00	0,00	0,00	301 665,31					0,00
6	IMPERIAL COLLEGE	AC	Direct eligible costs	106 730,03	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	106 730,03	0,00	0,00	0,00	128 076,02	128 076,02	
			<i>of which direct eligible costs of subcontracting</i>	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					
			Indirect eligible costs	21 345,99	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	21 345,99					0,00
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Total eligible costs	128 076,02	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	128 076,02					0,00
7	SFI	FC	Direct eligible costs	34 999,64	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	34 999,64	0,00	0,00	0,00	28 750,00	28 750,00	
			<i>of which direct eligible costs of subcontracting</i>	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					
			Indirect eligible costs	22 500,36	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	22 500,36					0,00
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Total eligible costs	57 500,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	57 500,00					0,00
8	SIBM	AC	Direct eligible costs	122 820,01	0,00	0,00	0,00	0,00	0,00	5 000,00	0,00	0,00	0,00	127 820,01	0,00	0,00	0,00	149 084,01	149 084,01	
			<i>of which direct eligible costs of subcontracting</i>	16 500,00	0,00	0,00	0,00	0,00	0,00	5 000,00	0,00	0,00	0,00	21 500,00	0,00					
			Indirect eligible costs	21 264,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	21 264,00					0,00
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Total eligible costs	144 084,01	0,00	0,00	0,00	0,00	0,00	5 000,00	0,00	0,00	0,00	0,00	149 084,01					0,00
9	HCMR	FC	Direct eligible costs	63 593,83	0,00	0,00	0,00	0,00	2 788,96	0,00	0,00	0,00	66 382,79	0,00	0,00	0,00	50 529,18	50 529,18		
			<i>of which direct eligible costs of subcontracting</i>	0,00	0,00	0,00	0,00	0,00	800,00	0,00	0,00	0,00	800,00	0,00						
			Indirect eligible costs	37 796,21	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					37 796,21	0,00
			Adjustment on previous period(s)	-5 909,61	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					-5 909,61	0,00
			Total eligible costs	95 480,43	0,00	0,00	0,00	0,00	2 788,96	0,00	0,00	0,00	0,00	0,00					98 269,39	0,00

10	AZTI	FC	Direct eligible costs	85 573,50	0,00	0,00	0,00	0,00	0,00	4 185,80	0,00	0,00	0,00	89 759,30	0,00	0,00	8 000,00	85 735,55	85 735,55	
			<i>of which direct eligible costs of subcontracting</i>	0,00	0,00	0,00	0,00	0,00	0,00	0,00	3 625,80	0,00	0,00	0,00	3 625,80					0,00
			Indirect eligible costs	77 526,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	77 526,00					0,00
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00
			Total eligible costs	163 099,50	0,00	0,00	0,00	0,00	0,00	0,00	4 185,80	0,00	0,00	0,00	167 285,30					0,00
11	ARMINES	FC	Direct eligible costs	100 708,14	52 613,98	0,00	0,00	0,00	0,00	2 176,00	0,00	0,00	0,00	102 884,14	52 613,98	0,00	0,00	123 063,43	123 063,43	
			<i>of which direct eligible costs of subcontracting</i>	0,00	0,00	0,00	0,00	0,00	0,00	0,00	2 176,00	0,00	0,00	0,00	2 176,00					0,00
			Indirect eligible costs	29 426,80	64 944,99	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	29 426,80					64 944,99
			Adjustment on previous period(s)	-5 051,87	-867,18	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-5 051,87					-867,18
			Total eligible costs	125 083,07	116 691,79	0,00	0,00	0,00	0,00	0,00	2 176,00	0,00	0,00	0,00	127 259,07					116 691,79
Total eligible costs				2 325 275,08	116 691,79	0,00	0,00	0,00	0,00	150 738,75	0,00	0,00	0,00	2 476 013,83	116 691,79	0,00	8 000,00	1 507 802,20	1 507 802,20	
				2 441 966,87		0,00			0,00	150 738,75		0,00	2 592 705,62		8 000,00					
Maximum calculated EC contribution for the reporting period (in €) without taking into account receipts				1 298 717,56	58 345,90	0,00	0,00	0,00	0,00	150 738,75	0,00	0,00	0,00	1 507 802,20						
				1 357 063,45		0,00			0,00	150 738,75		0,00								
Amount of the financial interests generated by the prefinancing															0,00					
Requested EC contribution for the reporting period (in €)																1 507 802,20				