

STANDARD SUMMARY PROJECT FICHE

1. Basic Information

1.1 CRIS Number: BG2003/004-937.07.02

1.2 Title:

Institutional strengthening of the River Basin Authorities in Bulgaria for Implementation of the EU Water Framework Directive in the Danube River Basin (pilot River Basin and sub-River Basins)

1.3 Sector: **Environment**
Twinning Code **BG03/IB-EN-02**

1.4 Location: Danube River Basin - Bulgaria

2. Objectives

2.1 Overall Objective(s):

First Implementation of the EU Water Framework Directive in the Danube River Basin, with establishment of methodologies and guidelines for generalisation to all Bulgarian River Basin Authorities: Directorates and Councils

2.2 Project purpose:

The overall project purpose is to co-ordinate all WFD implementation activities through a WFD Implementation Unit, established within MoEW

2.3 Short summary of the results:

The project will give a draft river basin management plan, according to the requirements of WFD for the Danube river basin.

After the implementation and testing the existing EU guides, the project will provide guidelines, methodologies, schemes and training for Water management, defining existing elements and information, common to all River Basins in Bulgaria, elements and information of importance, absent in the Danube River Basin area, elements which can be used after some adaptation in all River Basin Authorities in Bulgaria.

The project will assure training of staffs and experts to work in compliance with the WFD and will contribute to their efficient and rapid cooperation and understanding for implementation of future tasks, according to the rules of WFD.

Stakeholders, involved in the project will contribute to the public adaptation of the having better understanding of the process of implementation of WFD and to raising the public awareness.

2.4 Accession Partnership and NPAA priority

Accession Partnership 2003 refers to:

- Development of implementation plans, together with financing strategies, to outline the steps needed to ensure full implementation of the acquis in the medium and longer term; these plans should take into account all available resources and institutional training and further elaborate mechanisms to monitor effective implementation, with particular emphasis on air quality, waste management, *water quality*, industrial pollution and risk

management. Focus on planning, identification and availability of financial resources to prepare for the significant investments needed to ensure implementation of the acquis.

- Continue implementation of the acquis with particular emphasis on access to information, air quality, waste management, *water quality*, nature protection, industrial pollution and risk management as well as nuclear safety and radiation protection. Ensure that the environmental acquis is properly implemented in preparing large scale infrastructure projects.
- Ensure and reinforce the administrative structures necessary for the full implementation, monitoring and enforcement of the acquis, in particular through further strengthening of regional inspectorates, municipalities and other public bodies at the local level, with an emphasis on water quality, industrial pollution and risk management, as well as waste management. Reinforce staffing of the Ministry and other public bodies. Ensure adequate training and staff development plans.

The National Program for the Adoption of the Acquis, adopted by the Bulgarian Government in 1998 and updated 1999, was the first major step in the process of approximation of the legislation and outlined the required activities of the governmental institutions.

To meet the expectations on practical implementation of such legislation and intensify the accession process the Bulgarian Government adopted a National Program for the Adoption of the Acquis Communautaire (NPAA) in September 2000. There are specified necessary legislative, institutional and investment obligations for EU membership. The National Economic Plan 2000-2006 sets the economic priorities for the accession period.

2.5 Contribution to National Development Plan

For "Investment Support to Economic and Social Cohesion" projects only – Outline the relevant parts of the National Development Plan and identify how the project contributes to the strategy of the target region

2.6 Cross Border Impact

(For Cross Border Co-operation projects only)

3. Description

3.1 Background and justification:

The first step of River Basin Management in Bulgaria was conducted with the help of the first Twinning project between France and Bulgaria BG EN 99 from 1999 to 2002 with institutional establishment of the River Basin Authorities.

The second step is currently going in Twinning Project BG EN 2000 (BG2000EN01A – Institutional strengthening at national and regional level for implementation of the drinking water, fish water and shellfish water, bathing water and dangerous substances discharges directives) by the development of appropriate tools and methodologies for implementation of Acquis Communautaire in the field of drinking water, surface water, bathing, fish and shellfish water and dangerous substances.

The proposed project will contribute to the concrete organisation of the River Basin Directorates in the implementation of the EU WFD.

The Ministry of Environment and Water (MoEW) is overall responsible for implementing the EU WFD. The Water Directorate is acting as spearhead in this process as directorate and also co-ordinates activities with the River Basin Directorates.

Integrated Water Management in general, and specifically in Bulgaria, attempts to bring together water sector actors traditionally tied to different ministries. In addition, a new regional

management authority has been introduced with the River Basin Directors in full accordance with the EU WFD. At the River Basin level, actual implementation work will have to be done within a tight time schedule. The resources and capacity of the River Basin Directorates are still likewise limited.

The regular meetings of the River Basin Management Expert Group at the International Commission for the Protection of the Danube River (ICPDR) discuss the River Basin Management Plans. Using the outcomes of these meetings and ANNEX VII of Water Framework Directive about the River Basin Management Plans the Danube River Basin is the most favorable one for implementation of the project being practical, not theoretical.

Within the frame of the objective region – Danube River Basin the richest amount of basic information is available on site to be used for preparation of the River Basin Management Plans (inventory of the sources of pollution in the frame of ICPDR activities, pre-investment studies for the main tributaries of the Danube River, pilot project in the frame of Twinning project activities, etc).

Of course the project will be implemented within the Danube River Basin, but the other 3 River Basin Authorities will be fully associated to the work of this project. This will be achieved by the establishment of interbasin working group.

Integrated Water Management as a ruling Principle of the EU WFD was introduced into Bulgarian legislation through the Water Act (1999, come into force in January 2000) and its implementing Regulations:

- Regulation on the way and order of industrial waste water discharge in the urban sewerage systems (Dir. 76/464/EEC; 91/271/EEC);
- Regulation on the quality of the water intended for humane consumption (Dir. 98/83/EEC);
- Regulation on the quality requirements to surface water intended for drinking purposes (75/440/EEC);
- Regulation on the prevention of the waters from nitrates pollution caused by agriculture (Dir. 91/676/EC);
- Regulation on the quality of bathing water (Dir. 76/160/EC);
- Regulation on the quality of fish and shellfish water (Dir. 78/659/EEC and 79/923/EEC);
- Regulation on the quality of coastal sea water (Dir. 79/923/EEC; 76/464/EEC; 91/271/EC and 76/160/EEC);
- Regulation on the emission limit values of dangerous and hazardous substances in the discharged waste water (Dir. 76/464/EEC);
- Regulation on the way and order of the development of the networks and National Water Monitoring System activity ;
- Regulation on the research, use and prevention of the ground water (Dir. 80/68/EEC and 76/464/EEC);
- Regulation on the sanitary protected areas (Dir. 75/440/EEC; 80/68/EEC; 91/676/EEC);
- Regulation on the wastewater discharge permits issue and individual emission limit values for point sources of pollution (Dir. 80/68/EEC; 76/464/EEC and 91/271/EC).

3.2 Linked activities:

In parallel with the legal transposition of the EU WFD, a number of EU WFD related actions have been initiated. Strong co-ordination by the MoEW is needed in order the stakeholders involved and the EU WFD projects to benefit the most to the overall goal of implementing the EU WFD in Bulgaria.

Co-ordination has to be a key word when the EU WFD implementation in this context.

There are some prior and on-going projects with direct bearing to the water sector, implementation of the EU WFD in the Danube region:

- Phare Twinning project 1998: Transposition of the EU Directives dealing with Urban Wastewater discharges, Dangerous Substances and Permit issuing.
- Phare Twinning project 1999: Establishment and strengthening of the Bulgarian River Basin Authorities: Directorates and Councils.
- Phare TBC project BG9904-04.02.02 – Preliminary survey on the identification of the sensitive areas in the basins of rivers Mesta, Struma, Arda, Tundja and Maritza according to the criteria of Directive 91/271/EEC.
- Phare Twinning project 2000: Institutional strengthening at national and regional level for implementation of the drinking water, fish and shellfish waters, bathing water and dangerous substances directives.

The Phare Twinning project 1999 addressed important issues regarding institutions creation, organisation and development of the four River Basin Directorates (RBD), functions evolution, organising water data access and exchanges, water management policy involving representatives of public society and water users groups as part of a consultative body, the River Basin Councils (RBC).

At the end of the twinning it was still considered that efforts over a long period will be needed to achieve improvement of data exchanges, capacity for elaborating the river basin management plan and carrying out of the WFD programme of measures.

This current project will continue with strengthening the cooperation between the new staffs of the RBD and other stakeholders in water sector.

In the frame of this project, project experts have produced a number of documents and information for water sector expert training. The materials should be focus on practical training for accomplishing the tasks related to WFD Directive requirement, elaborate and preferably translated.

This conclusion is considered in the time schedule of implementing and will reflect on the choice of the management staff of the project.

Phare Twinning project 2000 is planned for completion until the end of 2003. In the process of current work the project team consider that the river basin management system is new to Bulgaria and the combination of this major change with the WFD demands represent a major issue and challenge in the country EU integration process.

This lesson is transposed to the overall objective of the project institutional strengthening and co-ordination WFD activities.

The proposed project will be in full continuity with the previous Phare Twinning projects, enlarging the scope of work and focusing mainly on practical implementation of the "Acquis communautaire" and particularly of the EU Water Framework Directive.

3.3 Results:

Establishment of co-ordination unit and guidelines prepared – MoEW Co-ordination unit shall permanently liaise with the main EU WFD stakeholders, i.e. WFD Inter Ministerial Working Groups, initiatives holders for on-going projects, NGO'S etc.

Based on practical – and not theoretical – orientations, the pilot implementation in the Danube Basin Directorate will consist of:

- Developing elements for the Danube River Basin Management Plans (RBMPs) according to Water Framework Directive, as follows:
 - A general description of the characteristics of the river basin district for surface and ground waters, incl. Defining and map-drawing of the sub-basins boundaries, pollution, natural and human pressures, protected areas ;
 - Developing typology and defining reference conditions;
 - Adaptation and testing the 10 EU guidelines of the relevant working groups:
 - Analysis of pressures and impacts. Lead: UK, Germany
 - Reference conditions inland surface waters. Lead: Sweden
 - Typology, classification of transitional coastal waters. Lead: Spain, European Environmental Agency
 - Heavily modified water bodies. Lead: Germany, UK
 - Geographical Information Systems. Lead: JRC Ispra
 - Intercalibration. Lead: JRC Ispra
 - Monitoring. Lead: Italy, European Environmental Agency
 - Economic analysis. Lead: France, Commission
 - Tools on assessment, classification of Groundwater. Lead: Austria
 - Best practice in river basin planning. Lead: Spain
 - Establishment of the WFD required criteria for ecological quality, significant influence of water uses, pressure and impact, economic justification;
 - Improving the methodology of the monitoring and assessment activities;
 - Establishment of criteria for protected areas identification, in accordance with the WFD;
 - Analysing economics and financial elements;
- Elaboration of ToR for the preparation of River Basin Management Plan, with the participation of all thematic working groups
- Preparation of the first draft of Danube River Basin Management Plan;

- Definition of a valuable assessment for the practical implementation of the Water Management Plan and possibilities for using the Plan at the other basin authorities (in the country and in the frame of international Danube river basin)
- Preparation of guidelines, methodologies, based on the pilot studies summarising all results for Water management which will insist on:
 1. existing elements and information, common to all River Basins;
 2. elements and information of importance, absent in the Danube River Basin area;
 3. elements which can be used after some adaptation in all River Basin Authorities.

The project will provide guidelines, methodologies, schemes and training, directly applicable to all four River Basins.

3.4 Activities:

A working group at the central level will be established to co-ordinate and implement the activities on the project.

Several thematic working groups will be established to work on every component of the WFD.

Intermediate seminars will be organized after receiving successful results on development for every component of WFD.

The working group at the central level will define the number of the thematic working groups and their members at the central and river basin level.

The thematic working groups that will adapt and test EU guidelines will work with the EU guidelines for:

- Analysis of pressures and impacts. Lead: UK, Germany
- Reference conditions inland surface waters. Lead: Sweden
- Typology, classification of transitional coastal waters. Lead: Spain, European Environmental Agency
- Heavily modified water bodies. Lead: Germany, UK
- Geographical Information Systems. Lead: JRC Ispra
- Intercalibration. Lead: JRC Ispra
- Monitoring. Lead: Italy, European Environmental Agency
- Economic analysis. Lead: France, Commission
- Tools on assessment, classification of Groundwater. Lead: Austria
- Best practice in river basin planning. Lead: Spain

NGO's and stakeholders, related to the subject of the working groups and seminars will be invited to participate.

3.4.1 At Central level

- Conduction of an internal start-up seminar, oriented towards all related authorities and stakeholders at central, regional and local level;
- Implementation of the guidelines, worked out by the established EU Working Groups for every component of the WFD;
- Preparation of Bulgarian implementation guidelines based on the findings of the EU Working Groups and time schedule for implementation;
- Analysis and strengthening of the institutional collaboration;
- Identification and liaison of/with the main stakeholders to be included in the WFD implementation;
- Conduction of workshops, oriented towards all River Basin Authorities for the need of adaptation important elements and information for all River Basins in Bulgaria.

3.4.2 At Danube River Basin level

- Implementation of practical structuring of the Danube Basin Directorate and Council - general frame, departments, activities and objectives, tasks and expected results for each department;
- Preparation and activation of internal work plan for the Danube River Basin Directorate and Council;
- Purchasing and Installation of hardware and software for the elements of the River Basin Management Plans;
- Mapping of the existing data on water management including monitoring system;
- Estimation of sources of pollution and pressures on the quantitative status of water and analysis of other impact of human activity on the status of water at sub-basins level - geographic, demographic, social, economic, development plans etc.;
- Review and analysis of the existing reports and projects for the water objects management plans (or drafts) in the Danube River Basin;
- Inventory of water resources and water supply and treatment facilities;
- Preparation of drinking water strategy for the Danube basin;
- Review and analysis of the existing waste water discharges (urban, industry, agriculture etc.);
- Review and analysis of the existing information on the irrigation sources and needs;
- Review and analysis of the existing information about surface waters, ground waters, mineral waters; identification of the needs of information;
- Definition of the boundaries of the sub-basins with:
 1. typology and referent conditions for surface water bodies;
 2. identification of artificial and heavily modified water bodies;

3. description of groundwater bodies;
4. impacts on surface and groundwater bodies; inventory of protected areas; economic analysis;
5. monitoring and information systems development,

- | - Interested NGO's and stakeholders will be informed about the project activities;
- Co-ordination, collaboration, training and education of the competent authorities and stakeholders at Basin level;
- Elaboration of ToR for integrated River Basin management plan;
- First draft of the Danube River Basin Water Management Plan (whole River Basin and sub-basins)
- Plan and programme of the River Basin's investments with regard of the water management activities;

3.4.3 At Danube River Basin level and at Central level:

- Preparation of guidelines, manuals and other reference documents for generalisation of the methods to all the River Basin Authorities: Directorates, and Councils.
- Preparation of training and education materials directed towards River Basin Directorate's technical experts
- Preparation of training and education material directed towards the partners (RIEW, municipalities, NGOs and other State administrations and institutions at Regional and Local level).

3.5 Inputs:

Profile of the project staff.

It is essential that the team have sufficiently broad expertise to cover all the areas included in the project description.

The overall composition of the team could be as follows:

- Team leader (expatriate)
Senior consultant with a background in project management and implementation of EU legislation in water sector, experience in capacity building with strong interpersonal, co-ordinating and negotiating skills
- Project Manager (local)
Senior specialist with a background in project management and implementation of EU legislation in the water sector. Strong interpersonal, co-ordinating and negotiating skills.
- information management and IT planner
Environmental IT specialist with a background in the environmental sector with working experience in environmental data management, databases and GIS

- water quality and data management planner
senior consultant with a strong background in water related technical issues, with expertise in GIS and experience in status reviews at river basin or sub-river basin level
- water quality specialist
specialist in surface waters, very well acquainted with the details and specific conditions in the Danube River Basin
- IT specialist
IT specialist with a strong background in GIS and with working experience in databases, data management (environmental)
- institutional specialist
senior consultant with a strong background in institutional analysis within water sector, with expertise and project experience in institutional issues at regional or national level
- ground water quality specialist
specialist in ground waters, very well acquainted with the details and specific conditions in the Danube River Basin
- specialist in economics and financing
Senior consultant with background in analysing economics and financial elements, feasibility studies, economic appraisal and financing in water sector.

In addition funds are available to engage short terms specialists to assist for a successful project implementation.

The necessary office and furniture for the needs of the twinning advisors will be provided by the Bulgarian party.

4. Institutional Framework

The administrative structure of authorities in Bulgaria exists at three levels:

- National (Ministries, Agencies and Institutes);
- Regional (Regional Authorities, River Basin Directorates and Councils, Regional Inspectorates of Environment and Waters etc.)
- Local level (Municipalities, Water Companies).

The project stakeholders will include all institutions related to water management (drinking water supply, wastewater treatment, water resources protection, irrigation, energy etc.) with the MoEW and River Basin Directorates as main responsible authorities for implementing the EU WFD. The Ministry of Health, Ministry of Regional Development and Public Works, Ministry of Finance, Ministry of Economy, Ministry of Agriculture and Forestry etc. will participate as significant stakeholders.

The water companies, the largest industries, irrigation unions' etc. represent important partners. In addition, representatives of a number of NGO's involved in specific water environmental issues will be incorporated.

The outputs of the project will benefit to a series of beneficiary institutions: the Bulgarian Government in the search for global integration of water management, incorporating all stakeholders, the River Basin Authorities: Directorates and Councils in their development, developing a direct collaboration with the public, private and civil society partners interested in the integrated water management activities. The primary beneficiary is Danube River Basin Directorate. The secondary beneficiaries are the other River Basin Authorities in Bulgaria and the Bulgarian Government - MOEW.

5. Detailed Budget

COMPONENT	PHARE Support		Total PHARE (=I+IB)	National Cofinancing *	IFI*	TOTAL EURO
	Investment Support	Institution Building				
Contract 1 Twinning TA Service Contract for Establishment of the System		900,000	900,000	**	0	900,000
Contract 2*** Supply	75,000		75,000	25,000	0	100,000
Total	75,000	900,000	975,000	25,000 +**	0	1,000,000 +**

**In cases of co-financing only*

***Twinning co-financing is up to 10 % - from the National budget*

****Contract 2 (supply) –technical equipmentfor the Central Water Unit and the RBANote: expenditure for equipment should be put under Investment
Additional operational costs will be provided by the Bulgarian National Budget.*

Financial breakdown of technical equipment in euro (planned)			
Component and accessories	Quantity	Price*	Total price (euro)
Hardware			
Desktop Personal Computer Specification: Mainboard:SG Intel 1845 GL for Pentium IV 478P – SDRAM m ATX, ADD/P Processor Intel Celeron 1700/400 MHz Int PGA 128K RAM Memory: 256 MB 168/184p RAM Flopy Disk Drive: 3.5" 1.44MB Hard Disk Drive 20 GB S/M ATA 100 7200, IDE Video Card: GeForse4 MX-440 128MB DDR TV out, AGPx4 CD-ROM Drive 52X speed IDE Sony Case: ATX Midi Tower Keyboard, mouse	3	450	1350
CD-RV TIC	2	100	200
Laser Printer 600 dpi, 14p/min, USB, 1 MB, 48 MHz embedded RISC	2	280	560
Color Laser Printer HP	1	1400	1400
Desktop Personal Copier Indirect electrostatic copying Fixed copyboard Automatic exposure Zoom ratio 70-141% Copy speed: 12 copies/min	1	1010	1010
Flatbed Scanner Standard 35 mm Transparency Unit Print Image Matching technology OCR software bundle	1	130	130

Software			
Microsoft Windows XP - Professional	3	220	660
Microsoft Office XP	3	410	1230
Arc GIS additional tools	1	4000	4 000
Arc GIS basic	3	2000	6 000
Improved software**	3		100 000
Total:			116540

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6. Implementation Arrangements

6.1 Implementing Agency

The CFCU of the Republic of Bulgaria is the Implementing Agency (IA) for this project. The financial management of the twinning arrangements will be also responsibility of CFCU. MOEW is the beneficiary. A specific work plan defining tasks, competencies, role and time schedule of the Bulgarian Authorities will be agreed with the twinning partner prior to the start of the assistance and will be part of the twinning covenant.

6.2 Twinning

The duration of the Twinning is foreseen for the period August 2004 – June 2006.

National Twinning Co-ordinator:

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Overall management of the Project:
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7. Implementation Schedule

Start of tendering	Start of project activities	Completion
Twinning - <i>February 2004</i>	<i>August 2004</i>	<i>June 2006</i>
Supply Tender– <i>August 2004</i>	<i>April 2005</i>	<i>June 2006</i>

8. Equal Opportunity

Ensuring that gender equality is promoted within all the components of the project. The project will provide participation of the staff and experts at national and regional level from all River Basins in Bulgaria to the training seminars.

9. Environment

The project will not have any unfriendly effect on the environment.

Application of the principles of the Integrated Water Resources Management, that is implemented through the WFD will improve the environmental situation and will be instrumental in raising the public concern.

10. Rates of return

There is not available rate of return.

The training of staffs and experts to work in compliance with the WFD will contribute to their efficient and rapid cooperation and understanding for implementation of future tasks, according to the rules of WFD.

Stakeholders, having better understanding of the process of implementation of WFD, will contribute to the public adaptation.

11. Investment criteria

11.1 Catalytic effect:

Without Phare assistance, the project would have been delayed up to 3 years.

11.2 Co-financing:

The project is co-financed by the National Budget by *up to* 10 % of the cost of Twinning component and 25% of the cost of supply.

11.3 Additionality:

No other financing sources from the private sector or from IFIs were available for financing this project

11.4 Project readiness and Size:

Some of the appropriate tools and methodologies are already available in the Frame of the Previous Twinning projects, assuring the readiness for implementation of the project and starting according to the implementation chart (Annex 2).

If a necessity of additional data and information appears, the need will be met within the official obligations of the competent authorities.

11.5 Sustainability:

Applying the project at a governmental level.

11.6 Compliance with state aids provisions:

Full compliance

11.7 Contribution to National Development Plan:

The overall objective of the project for WFD implementation is an obligatory part to fulfill within the frame of the National Development Plan

12. Conditionality and sequencing

12.1 Conditionality

- Bulgarian party to provide on own expenses the missing data necessary for the implementation of the project.

- Staff in the RBD to be recruited on time
- Establishment of the River Basin Councils on time

The project leader assures that the participation of experts, according to Annex 4, from the Danube River Basin Directorates and Councils will be provided.

The most important milestones of the project in terms of impact will consist in:

- Basic operation of the Danube River Basin Authority, Directorate and Council
 - Involvement of stakeholders, interested in the integrated water management process.
 - Monitoring and assessment activities;
 - Analysing economics and financial elements.

12.2 Sequencing

Short list of project activities	Duration, quarters
Assessment of the information available for the biggest sub-river basins – Ogosta, Iskar, Vit, Osam, Iantra, Rusenski Lom (gaps analyses)	Second Quarter 2004
Organising the necessary data, covering the elements for the Danube River Basin Management Plans according to Water Framework Directive	Third-Forth Quarter 2004
Adaptation and testing of EU guidelines	First-Second Quarter 2005
Preparation of the first draft of Danube River Basin Plans	Third-Forth Quarter 2005
Evaluation of the implementationality/practicality of the Water Management Plans	First Quarter 2006
Preparation of guidelines, methodologies, based on the pilot studies for adaptation to all River Basins in Bulgaria.	First-Second Quarter 2006
Review and evaluation of the project	Second Quarter 2006

Based on practical pilot studies, at the Danube River Basin and River sub-basin levels, at the end of the project most important results would be accomplished:

- Definition of the sub-basins boundaries;
- Developing typology and defining reference conditions;
- Adaptation and testing EU guidelines;
- Monitoring and assessment activities;
- Economics and financial elements analysis;
- First draft of the Danube River Basin Water Management Plan (whole River Basin and sub-basins)
- Developed guidelines, methodologies, schemes and training for Water management;
- Training of staffs and experts to work in compliance with the WFD;

Contact person responsible for control:

Danube River Basin Directorate	
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Annexes to the project Fiche

1. Logical framework matrix
2. Detailed implementation chart
3. Contracting and disbursement schedule by quarter
4. Administrative capacity

Annex 1

Phare log frame

LOGFRAME PLANNING MATRIX FOR Project			
Twinning Project “<i>Institutional strengthening of the River Basin Authorities in Bulgaria for Implementation of the EU Water Framework Directive in the Danube River Basin (pilot River Basin and sub-River Basins)</i>”		Contracting period expires November 2005	Disbursement period expires November 2006
		Total budget :1,000,000	Phare budget : 975,000
Overall objective Implementation of the EU Water Framework Directive in the Danube River Basin	Objectively verifiable indicators First Integrated Water Management Plan in the Danube River Basin	Sources of Verification Danube River Basin Directorate and MoEW	
Project purpose Co-ordination of all WFD implementation activities through a WFD Implementation Unit established within MoEW	Objectively verifiable indicators WFD implementation unit within MoEW, Meetings minutes, Dissemination of decisions to all four River Basin Directorates Methodological guidelines and training material	Sources of Verification MoEW – Water Protection Department, River Basin Directorates	Assumptions Support and active contributions from other relevant State Institutions and stakeholders Adequate provision from State budget and adequate staffing in the MoEW and River Basin Directorates

Results	Objectively verifiable indicators	Sources of Verification	Assumptions
<p>Establishment of co-ordination unit and guidelines prepared Pilot implementation in the Danube Basin Directorate:</p> <p>➤ Developing elements for the Danube RBMPs, according to WFD, as follows:</p> <p>➤</p> <ul style="list-style-type: none"> • A general description of the characteristics of the river basin district for surface and ground waters; • Developing typology and defining reference conditions; • Adaptation and testing EU guidelines: <ul style="list-style-type: none"> • Analysis of pressures and impacts. Lead: UK, Germany • Reference conditions inland surface waters. Lead: Sweden • Typology, classification of transitional coastal waters. Lead: Spain, European Environmental Agency • Heavily modified water bodies. Lead: Germany, UK • Geographical Information Systems. Lead: JRC Ispra • Intercalibration. Lead: JRC Ispra • Monitoring. Lead: Italy, European Environmental Agency • Economic analysis. Lead: France, Commission • Tools on assessment, classification of Groundwater. Lead: Austria • Best practice in river basin planning. Lead: Spain 	<p>Creation and operation of River Basin Councils, Inter-Ministerial Working Groups and thematic working groups</p> <p>Definitions and map-drawings of the sub-basins boundaries, pollution, natural and human pressures, protected areas Criteria and their application for typology and reference conditions</p> <p>WFD EU/Bulgarian guidelines</p>	<p>MoEW – Water Protection Department, River Basin Authorities</p> <p>MoEW – Water Protection Department, Danube River Basin Authority</p> <p>idem</p> <p>idem</p> <p>MoEW – Water Protection Department, River Basin Authorities</p>	<p>Support and active contributions from other relevant State Institutions and stakeholders</p> <p>Adequate provision from State budget and adequate staffing in the MoEW and River Basin Directorates</p> <p>Availability of adequate technical resources, financial and human resources for the Danube River Basin Directorate</p> <p>Involvement of the stakeholders and NGOs existing in the Danube River Basin territory</p> <p>Active contribution by all the actors of the water and environment domains</p>

<ul style="list-style-type: none"> • Establishment of the WFD required criteria for ecological quality, significant influence of water uses, pressure and impact, economic justification; • Improving the methodology of the monitoring and assessment activities; • Establishment of criteria for protected areas identification, in accordance with the WFD; • Analysing economics and financial elements; <p>➤ Elaboration of ToR for the preparation of River Basin Management Plan, with the participation of all thematic working groups</p>	<p>Assessment of sub-basins in the Danube River Basin area maps and assessment of groundwater bodies</p> <p>Criteria, identification</p> <p>Criteria, identification and maps</p> <p>Economics impacts on water management at sub-basin level</p> <p>ToR for preparation of the Danube River Basin Management Plan</p>	<p>MoEW – Water Protection Department, Danube River Basin Authority MoEW – Water Protection Department, Danube River Basin Authority MoEW – Water Protection Department, Danube River Basin Authority</p> <p>MoEW – Water Protection Department, Danube River Basin Authority MoEW – Water Protection Department, Danube River Basin Authority</p>	
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Results	Objectively verifiable indicators	Sources of Verification	Assumptions
<p>➤ Preparation of the first draft of Danube River Basin Management Plan;</p> <p>➤ Definition of a valuable assessment for the practical implementation of the Water Management Plan and possibilities for using the Plan at the other basin authorities (in the country and in the frame of international Danube river basin)</p> <p>➤ Preparation of guidelines, methodologies, based on the pilot studies summarising all results for Water management which will insist on:</p> <ul style="list-style-type: none"> existing elements and information, common to all River Basins; elements and information of importance, absent in the Danube River Basin area; elements which can be used after some adaptation in all River Basin Authorities. 	<p>First draft of the Danube River Basin Management Plan</p> <p>Reports about methodologies extrapolation to other Bulgarian River Basin Authorities</p> <p>Methodological and training material</p> <p>Information elements, criteria for extrapolation</p>	<p>MoEW – Water Protection Department, Danube River Basin Authority MoEW – Water Protection Department, River Basin Authorities</p> <p>MoEW – Water Protection Department, River Basin Authorities</p>	<p>First draft of Danube River Basin Management Plan,</p> <p>Full analysis by all national and regional partners in the domains concerned</p> <p>Positive involvement of all partners in the preparation of materials</p>

Activities	Means	Assumptions and Preconditions
<p>At Central level</p> <ul style="list-style-type: none"> ➤ Conduction of an internal start-up seminar, oriented towards all related authorities and stakeholders at central, regional and local level; ➤ Implementation of the guidelines, worked out by the established EU Working Groups for every component of the WFD; ➤ Preparation of Bulgarian implementation guidelines based on the findings of the EU Working Groups and time schedule for implementation; ➤ Analysis and strengthening of the institutional collaboration; ➤ Identification and liaison of/with the main stakeholders to be included in the WFD implementation; ➤ Defining common, absent or with need of adaptation important elements and information for all River Basins in Bulgaria. <p>At Danube River Basin level</p> <ul style="list-style-type: none"> ➤ Implementation of practical structuring of the Danube Basin Directorate and Council - general frame, departments, activities and objectives, tasks and expected results for each department; ➤ Preparation and activation of internal work plan for the Danube River Basin Directorate and Council; ➤ Installation of hardware and software for the elements of the River Basin Management Plans; ➤ Mapping of the existing data on water management including monitoring system; 	<p>MoEW – Water Protection Department, Human Resources,</p> <p>MoEW – Water Protection Department, River Basins Directorates active contributions, working groups</p> <p>MoEW – Water Protection Department, River Basins Directorates active contributions</p> <p>PAA and short-term experts</p> <p>PAA and short-term experts</p> <p>workshop, oriented towards all River Basin Authorities</p> <p>Danube River Basin Directorate and Council Decisions</p> <p>Adequate technical resources, financial and human resources for the Danube River Basin Directorate</p> <p>Adequate technical resources,</p>	<p>Based on practical pilot studies, at the Danube River Basin and River sub-basin levels, prescriptions of the ICPDR and the technical outline for the DRBM Plan from regular meetings of the River Basin Management Expert Group, the partners should execute the following most important activities in order to achieve the project's objectives:</p> <ul style="list-style-type: none"> – Defining the sub-basins boundaries; – Developing typology and defining reference conditions; – Adaptation and testing EU guidelines; – Monitoring and assessment activities; – Analysing economics and financial elements; – First draft of the Danube River Basin Water Management Plan (whole River Basin and sub-basins) <p>which will depend on the basic operability of the Danube River Basin Authority, Directorate and Council as well as the involvement of stakeholders interested in the integrated water management process.</p>

➤ Estimation of sources of pollution and pressures on the quantitative status of water and analysis of other impact of human activity on the status of water at sub-basins level - geographic, demographic, social, economic, development plans etc.;	data, financial and human resources for the Danube River Basin Directorate
➤ Review and analysis of the existing reports and projects for the water objects management plans (or drafts) in the Danube River Basin;	Local expertise
➤ Inventory of water resources and water supply and treatment facilities;	
➤ Preparation of drinking water strategy for the Danube basin;	
➤ Review and analysis of the existing waste water discharges (urban, industry, agriculture etc.);	Contribution from public and private stakeholders of the domains
➤ Review and analysis of the existing information on the irrigation sources and needs;	PAA and short-term experts
➤ Review and analysis of the existing information about surface waters, ground waters, mineral waters; identification of the needs of information;	Danube River Basin Directorate and Council Decisions Adequate technical resources, data, financial and human resources for the Danube River Basin Directorate
➤ Definition of the boundaries of the sub-basins with: <ul style="list-style-type: none"> • typology and referent conditions for surface water bodies; • identification of artificial and heavily modified water bodies; • description of groundwater bodies; • impacts on surface and groundwater bodies; inventory of protected areas; economic analysis; • monitoring and information systems development, 	Adequate technical resources, data, financial and human resources for the Danube River Basin Directorate
➤ Interested NGO's and stakeholders will be informed about the project activities;	Local expertise
➤ Co-ordination, collaboration, training and education of the competent authorities and stakeholders at Basin level.	

➤ Elaboration of ToR for integrated River Basin management plan;	Contribution from public and private stakeholders of the domains	
➤ First draft of the Danube River Basin Water Management Plan (whole River Basin and sub-basins)	PAA and short-term experts Human Resources,	
➤ Plan and programme of the River Basin's investments with regard of the water management activities;	Danube River Basin Directorate and Council Decisions Adequate technical resources, data, financial and human resources for the Danube River Basin Directorate Local expertise	
At Danube River Basin level and at Central level:		
➤ Preparation of guidelines, manuals and other reference documents for generalisation of the methods to all the River Basin Authorities: Directorates, and Councils.	Contribution from public and private stakeholders of the domains	
➤ Preparation of training and education materials directed towards River Basin Directorate's technical experts	PAA and short-term experts	
➤ Preparation of training and education material directed towards the partners in RIEW, municipalities, NGOs and other State administrations and institutions at Regional and Local level.	MoEW – Water Protection Department, PAA and short-term experts	
	River Basins Directorates active contributions	
	MoEW – Water Protection Department, Human Resources, River Basins Directorates active contributions, Stakeholders and NGOs contributions PAA and short-term experts	

ANNEX 2 – DETAILED IMPLEMENTATION CHART

Project title: Twinning Project “Institutional strengthening of the River Basin Authorities in Bulgaria for Implementation of the EU Water Framework Directive in the Danube River Basin (pilot River Basin and sub-River Basins)”

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Annex 3 – CONTRACTING AND DISBURSEMENT SCHEDULE BY QUARTER

Project title: Twinning Project “Institutional strengthening of the River Basin Authorities in Bulgaria for Implementation of the EU Water Framework Directive in the Danube River Basin (pilot River Basin and sub-River Basins)”

CONTRACTING SCHEDULE in Million euro (planned)

Date / Year	2003		2004				2005				2006		Total Phare Allocation
Quarters			I	II	III	IV	V	VI	VII	VIII	IX	X	
Contract 1 Twinning TA					0.9								0.9
Contract 2 Supply							0.075						0.075
Total contracting					0.9		0.975						0.975

CUMULATIVE DISBURSEMENT SCHEDULE in Million euro (planned)

Date / Year	2003		2004				2005				2006		Total Phare Allocation
Quarters			I	II	III	IV	V	VI	VII	VIII	IX	X	
Contract 1 Twinning TA						0.4		0.6		0.7		0.9	0.9
Contract 2 Supply								0.04		0.06		0.075	0.075
Total disbursement*						0.4		0.64		0.76		0.975	0.975

CUMULATIVE DISBURSEMENT SCHEDULE in Million euro (planned)

Date / Year	2003		2004				2005				2006		Total National budget Allocation
Quarters			I	II	III	IV	V	VI	VII	VIII	IX	X	
Contract 1 Twinning TA						**		**		**		**	**
Contract 2 Supply								0.010		0.015		0.025	0.025
Total disbursement*						**		0.010 +**		0.015 +**		0.025 +**	0.025+**

NB: 1. All contracting should normally be completed within 6-12 months and must be completed within 24 months of signature of FM

2. All disbursements must be completed within 36 months of signature of the FM

* On these stage of programme fish the amounts are planned as request for payment

**Twinning co-financing is up to 10 % - from the National budget

ANNEX 4

?ADMINISTRATIVE CAPACITY

Level of coordination	Institutions involved	Number of staff
National level	Ministry of Environment and Water	2
Regional level - Danube River Basin level	River Basin Directorate River Basin Council Regional Inspectorates of Environment and Water	5 To be coordinated in the course of the project 6
Local level	Municipalities, Irrigation Unions	To be coordinated in the course of the project
Other participants from all River Basins at all levels	Other River Basin Directorates and Councils Other Regional Inspectorates of Environment and Water Other government authorities and their regional structures - Ministry of Health, Ministry of Regional Development and Public Works, Ministry of Agriculture and Forestry, Ministry of Finance, Ministry of Economy, etc. NGO's	To be coordinated in the course of the project