

# ENVIRONMENTAL PROTECTION OF INTERNATIONAL RIVER BASINS PROJECT

EUROPEAID/131360/C/SER/MULTI



This project is funded by  
the European Union

## PROTECTION OF FRESHWATERS AND MARINE ENVIRONMENT IN THE WIDER BLACK SEA REGION (ENPI/2009/021-924)

### Component A:

## Environmental Protection of International River Basins



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This project is implemented by a Consortium led by Hulla and Co. Human Dynamics KG

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## Project Objectives

### Overall Objective:

- To improve water quality in the trans-boundary river basins of the wider Black Sea region and Belarus

### Specific Objectives:

- To improve availability and quality of data on the ecological, chemical, and hydro-morphological status of trans-boundary river basins including groundwater
- To develop River Basin Management Plans for selected river basins / sub-river basins according to the requirements of the WFD.

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## Project Location and Partners

**Armenia:** Ministry of Nature Protection

**Azerbaijan:**

- Ministry of Ecology and Natural Resources
- *State Water Agency, Ministry of Emergency Situations*

**Belarus:** Ministry of Natural Resources and  
Environmental Protection

**Georgia:**

- Ministry of Environment Protection;
- *Ministry of Energy and Natural Resources*

**Moldova:** Ministry of Environment

**Ukraine:** Ministry of Ecology and Natural Resources



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## THE PROJECT TEAM

<b>KE1: Team Leader</b>	<b>Mr. Andriy Demydenko</b>
<b>KE2: Deputy Team Leader/River Basin Management Expert</b>	<b>Mr. Zurab Jincharadze</b>
<b>KE3: Ecology and Biology Expert</b>	<b>Mr. Ralph Jackman</b>
<b>KE4: Hydro-morphology Expert</b>	<b>Ms. Tatjana Kolcova</b>
<b>KE5: Groundwater Expert</b>	<b>Mr. Bernardas Paukstys</b>
<b>Country Water Management Experts</b>	<b>Armenia, Azerbaijan, Belarus, Moldova</b>
<b>Senior Short Term Mom-Key Experts</b>	
<b>Junior Short Term Non-Key Experts</b>	

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## Project Implementation

- The project implementation will be guided by a **Regional Steering Committee (RSC)** and **National Coordination Committees (NCC)**, which will play an advisory role.
- **RSC** and **NCC** will meet and review implementation of the activities within the work programme and to provide guidance on the next period planning **once a year**.
- In addition the project will coordinate implementation of the activities with the **Component B** through the **Joint Steering Committee (JSC)** meetings.
- The final approval and decision-making authority remains with the **Contracting Authority** represented by the EC Project Manager.

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## Expected Results :

1. Increased capacities of the respective national authorities for hydro-biological, chemical, and hydro-morphological monitoring of water quality including groundwater; quality assurance procedures in laboratories in place
2. Increased technical capacities by means of development and implementation of River Basin Management Plans for selected rivers.

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## **Activity 1: Improvement of hydro-biological, chemical, and hydro-morphological monitoring and assessment of surface water bodies, including groundwater**

- Activity 1.1: Review the national monitoring systems and tools for assessing data obtained from monitoring activities
- Activity 1.2: Support the implementation of countries obligations under Danube and Water Conventions.
- Activity 1.3: Develop WFD-compliant monitoring programmes including hydro-biological and hydro-morphological elements and groundwater
- Activity 1.4: Assist in the development of WFD-compliant tools for assessing data obtained from monitoring activities (ecological, chemical, hydro-morphological classifications).
- Activity 1.5: Support the analytical quality control assurance procedure
- Activity 1.6: Assess the needs regarding laboratory infrastructure, equipment and training

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## Expected Result 1: Increased Capacity for WFD Compliant Monitoring

- Report on the progress in water quality classifications, types of monitoring, parameters measures, monitoring network, legal changes, etc. by country (on-going, to be submitted by end of June);
- Relevant countries' reports submitted to ICPDR and UNECE Water Conventions Bureau (by end of 2013);
- Proposals on updated WFD-compliant monitoring programmes including hydro-biological and hydro-morphological elements and groundwater and training developed (by end of 2013);
- Draft guidelines on ecological, chemical and hydro-morphological status assessment (2013 - first half of 2014);
- Comprehensive training programme on monitoring methods and quality assurance conducted (2012 - June 2013);
- Assessment of needs regarding laboratory infrastructure, equipment and training done (October 2013).



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## **Activity 2: Development of joint River Basin Management Plans (RBMPs) for selected river basins**

- Activity 2.1: River basin analyses
- Activity 2.2: Water body identification and typology
- Activity 2.3: Analysis of baseline situation.
- Activity 2.4: Joint field surveys to cover the gaps
- Activity 2.5: Development of national and basin-wide Programmes of Measures
- Activity 2.6: Implementation of selected measures from the programme for pilot projects
- Activity 2.7: Public involvement and awareness raising activities

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## Expected Result 2: RBMPs Developed for the Selected Pilot Basins

- River basin analysis, including water body delineation and typology (Sept 2012 – June 2013), analysis of baseline situation, joint field surveys and chemical and ecological status assessment (2014), conducted for selected river basins;
- National and basin-wide Programmes of Measures (as defined by Art. 11 of the WFD) developed and implementation started (end of 2014 - beginning of 2015);
- A minimum of five pilot projects implemented on selected measures from Programmes of Measures (2015);
- Awareness raising campaigns involving a wide range of stakeholders for selected river basins implemented (Sept 2012 - 2015).

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Timetable of Activities	Inception Period						Implementation Period																																																Phase-out period
	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
<b>Project Management</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48							
<b>Result 1: Improved data availability and quality</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48							
<b>Activity 1.1</b> Review the national monitoring systems and tools for assessing data obtained from monitoring activities. Schedule milestone (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																							
<b>Activity 1.2</b> Support the implementation of countries obligations under Danube and Water Convention. Schedule milestone (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																							
<b>Activity 1.3</b> Develop WFD-compliant monitoring programmes including hydro-biological and hydro-morphological elements and parameters. Schedule milestone (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																							
<b>Activity 1.4</b> Assist in the development of WFD-compliant tools for assessing data obtained from monitoring activities. Schedule milestone (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																							
<b>Activity 1.5</b> Support the analytical quality control assurance procedure. Schedule milestone (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																							
<b>Activity 1.6</b> Assess the needs regarding laboratory infrastructure, equipment and training. Schedule milestone (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																							
<b>Result 2: RBMP for the pilot basins</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48							
<b>Activity 2.1</b> River Basin Analysis are undertaken. Schedule milestone (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																							
<b>Activity 2.2</b> Water body identification and typology Schedule milestone (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																							
<b>Activity 2.3</b> Analysis of baseline situation. Schedule milestone (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																							
<b>Activity 2.4</b> Joint field surveys to cover the gaps. Schedule milestone (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																							
<b>Activity 2.5</b> Development of national and basin-wide Programme of Measures. Schedule milestone (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																							
<b>Activity 2.6</b> Implementation of selected measures from the programme for pilot projects. Schedule milestone (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																							
<b>Activity 2.7</b> Public involvement and awareness raising activities Schedule milestone (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																							

The indicative start date, as per the Instructions to Tenderers, January 2011

Preparation Phase of the activity  
Implementation Phase of the activity  
Completion Phase of the activity

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## Inception Period Activities :

- Work with the beneficiaries to confirm or select the most appropriate pilot basins or sub-basins.
- Undertake a gap analysis of the extent to which the Principles, Approaches and Environmental Objectives, have been / or could be adopted into national legislation and where WFD compliant data are available – to help focus the project resources.

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## Selection Criteria for Pilot Trans-boundary Basin Areas

1. Reflect upstream to downstream trans-boundary relationships;
2. Significant value for conservation and integrity of aquatic and other important natural ecosystems;
3. Visible anthropogenic pressure on river regime change;
4. Demonstrated linkages between surface and groundwater hydrological regimes;
5. Existing Basin District Authority or strong regional/municipal environment leadership in place;
6. Well established and equipped technical monitoring networks at basin or regional levels, trained laboratory staff and strong institutional capacity;
7. Where coordination and, when possible, joining of forces with on-going or planned projects in the region can be achieved;
8. Avoid overlapping with already accomplished results, select areas where similar pilot activities have not been carried out yet;
9. Pilot areas should be of a manageable size and implementation process should be realistic

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CNTR	Pilot Basin	CRT 1	CRT 2	CRT 3	CRT 4	CRT 5	CRT 6	CRT 7	CRT 8	CRT 9
AM	<u>Akhuryan</u>	*	↑	↑	↑	↑	*	*	↑	↑
	<u>Aghstev</u>	↑	*	↑	↑	↑	*	↓	↓	↑
AZ	Middle Aras ( <u>Nakhichevan</u> )	*	↑	↑	↑	↑	*	↓	↑	↑
	Downstream Aras (Kura confluent)	↑	↑	↑	*	*	*	↓	*	↑
	Central Kura ( <u>Mingechavir</u> )	*	↑	↑	↑	*	*	↓	*	↑
	<u>Alazan/Ganikh</u>	↑	↑	*	↑	*	*	↓	↓	↑
BY/UA	Upper Dnieper	↑	↑	↑	*	↑	↑	↑	↓	↓
	<u>Pripyat</u>	↑	↑	↑	↑	*	↑	*	↓	↓
GE	<u>Chorokhi-Adjaristskali</u>	*	↑	*	↓	↑	↑	↓	↑	↑
	<u>Alazani</u>	↑	↑	*	↑	*	*	↓	↓	↑
MD/UA	Prut	↑	↑	↑	↑	↑	↑	↑	↑	↑
	Dniester	↑	↑	↑	↑	↑	↑	↓	↓	*

### Dynamics of Selection Criteria:

↑ - Positive Dynamic

↓ - Negative Dynamic

\* - Neutral

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**Prut River Basin Overview Map**

Sub-basin of the Danube River Basin District



**THE DNIESTER RIVER BASIN**



This project is implemented by a Consortium



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## Selection of Pilot Trans-boundary Basin Areas in the Caucasus





BLACK SEA

CASPIAN SEA

R K E Y

ARMENIA

A Z E R B A I J A N

I R A N

SOKHUMI

BATUMI

Aspaha

Mts

NALCHIK

Stepanavand

Almaty

Yerevan

Arax Hydroelectric Res.

GROZNY

Stepanavand

Almaty

Yerevan

Arax Hydroelectric Res.

MAKHACHKALA

Stepanavand

Almaty

Yerevan

Arax Hydroelectric Res.

MAKHACHKALA

Stepanavand

Almaty

Yerevan

Arax Hydroelectric Res.

MAKHACHKALA

Stepanavand

Almaty

Yerevan

Arax Hydroelectric Res.

MAKHACHKALA

Stepanavand

Almaty

Yerevan

Arax Hydroelectric Res.

Mt. Karpal 3439

Mt. Kakar 2937

Mt. Greater Ararat 5156

Mt. Lesser Ararat 3014

Mt. Artn 3623

Lake Paravani

Lake Childir

Lake Bask

Lake Van

Lake Paravani

Lake Childir

Lake Bask

Lake Van

Lake Paravani

Lake Childir

Lake Bask

Lake Van

Lake Paravani

Lake Childir

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Lake Paravani

Lake Childir

Lake Bask

Lake Van

Lake Paravani

Lake Childir

Lake Bask

Lake Van

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## Inception Period Activities (cont.):

- Set-up the management structure including holding an initial Kick-off meeting in each beneficiary country and establishing the regional steering committee, the national steering committees;
- Put in place the necessary administrative, logistical, financial and human resource management arrangements to ensure the smooth running of the project, including the hiring of the office administrators and CWMEs;
- Introduce planning, reporting and monitoring systems for the project and complete the inception report and revised implementation plan;