

# 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						
<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 milestones (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 Conventions. Schedule milestones (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 riparian zones. Schedule milestones (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 milestones (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 milestones (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 milestones (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 milestones (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																								
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<b>Activity 2.5</b> Development of national and basin-wide Programme of Measures. Schedule milestones (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 milestones (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 milestones (M1;M2); Outputs (O1,O2); Reports (R1,R2); Results (RES1,RES2); Dependencier (Dep Act 2.1)																																																								

The indicatives start date is 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



THE DNIESTER RIVER BASIN



This project is implemented by a Consortium



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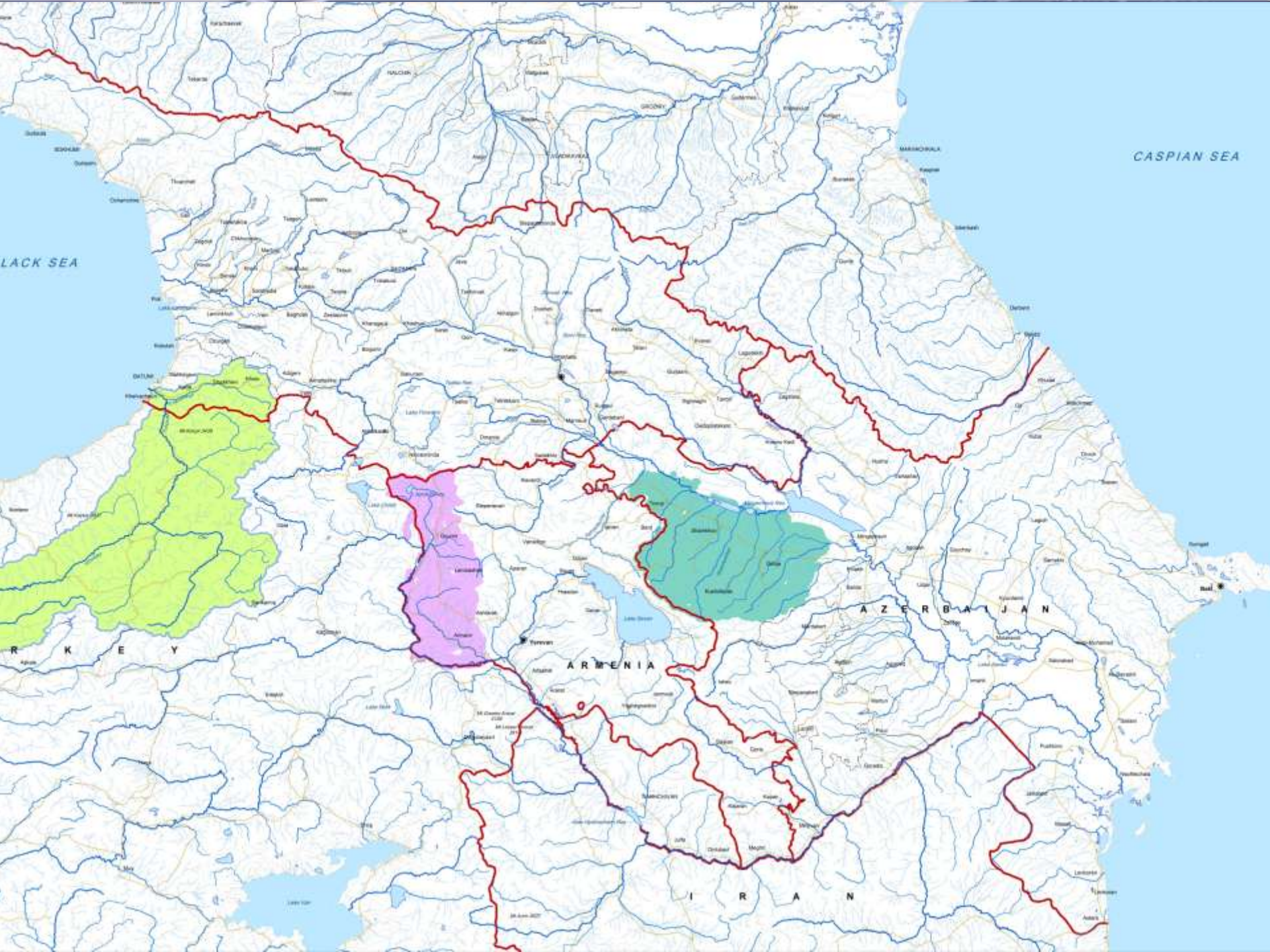
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## Selection of Pilot Trans-boundary Basin Areas in the Caucasus





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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;

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