



EAST AVERT **FROM AGREED WATER** **MANAGEMENT** **THROUGH** **GREEN INFRASTRUCTURE** **TO SUSTAINABLE REGIONAL** **DEVELOPMENT IN** **TRANSFRONTIER RIVER** **BASINS**

Cluj-Napoca



Programme funded by the
EUROPEAN UNION



Romania-Ukraine-Republic of Moldova
CROSS BORDER COOPERATION

Săngeorgiu
de Mureș

Sovata

Bălan

Dr. Zinoviy BROYDE zinoviy.broyde@gmail.com +38-050-5128698

Viktor GAVALESHKO itstrukt@Gmail.com +38-050-6758135

Vladimir ORLENKO orlenko49@mail.ru +38-050-8471945



On Regional and Municipality level
are converged global,
national & transfrontier
interests together with
concrete issues,
opportunities &
available solutions

COMMON “MODUS VIVENDI” FOR EUROPE OF REGIONS





**Each Region
Potential & Role**

General Development Scheme

Spatial Territorial Planning

**Water
Natural
Resources**

**Human capital
Institutions**

**Geolandscape
Energy**

Environmental Management

Управління станом довкілля

Culture, Education, Science, ICT

Water & other Resources consumption

Architecture

Tourism Recreation

Environmental Management

Agro-Food complex

Industrial-Energetic sector

Small & middle Business Services sphere

Mobility Transit

Infrastructure

Sustainable Socio-Economic Development

Сталий соціо-економічний розвиток

Інфраструктура

Мобільність Транспорт

Малый и средній бізнес Сфера послуг

Виробничо-енергетичний сектор

Управління станом довкілля

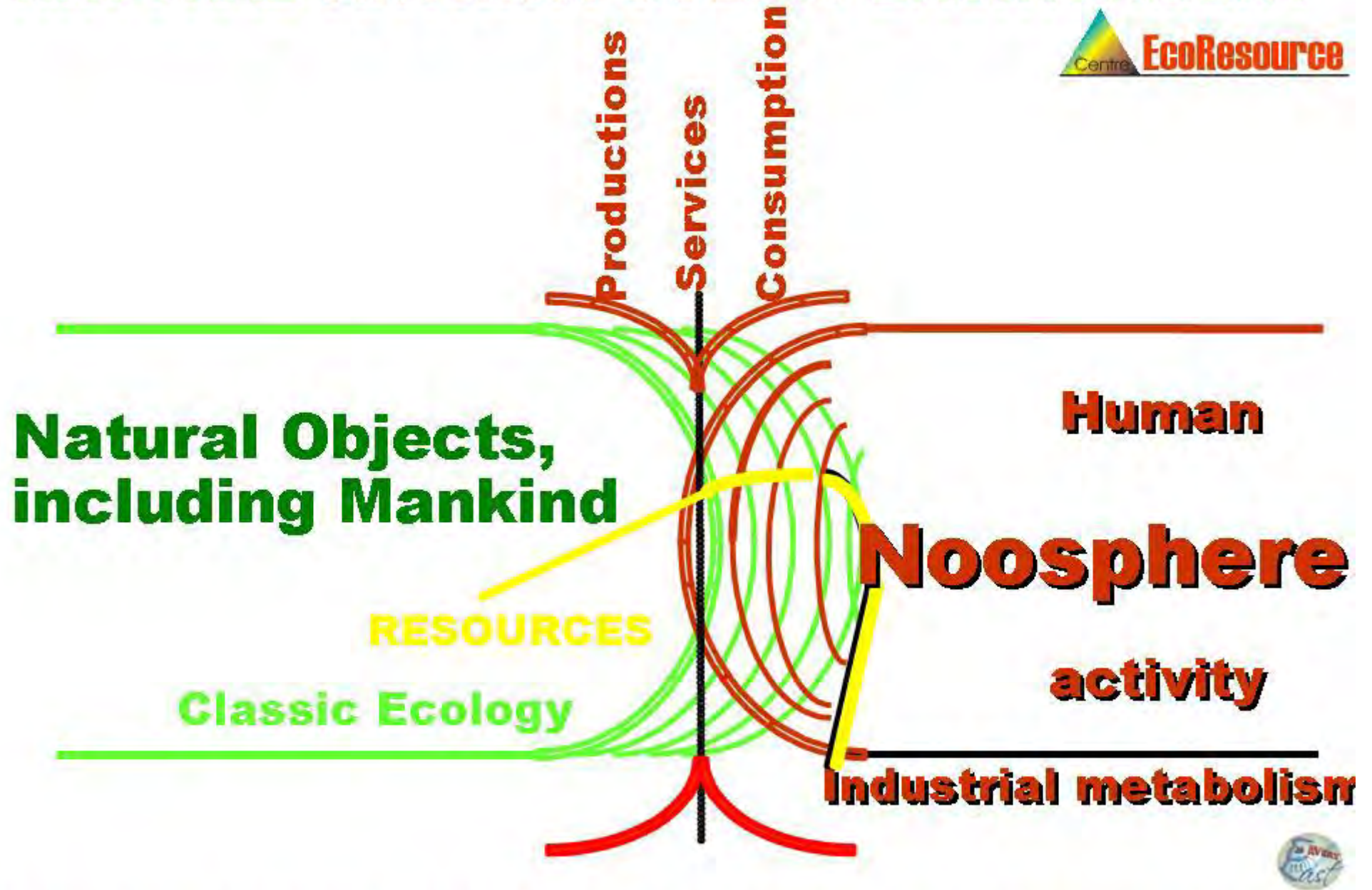
Туризм Рекреація

Архітектура

Водо- і ресурсокористування

Культура, Освітв, Наука, ІКТ

NATURAL-ANTHROPOGENIC ENVIRONMENT



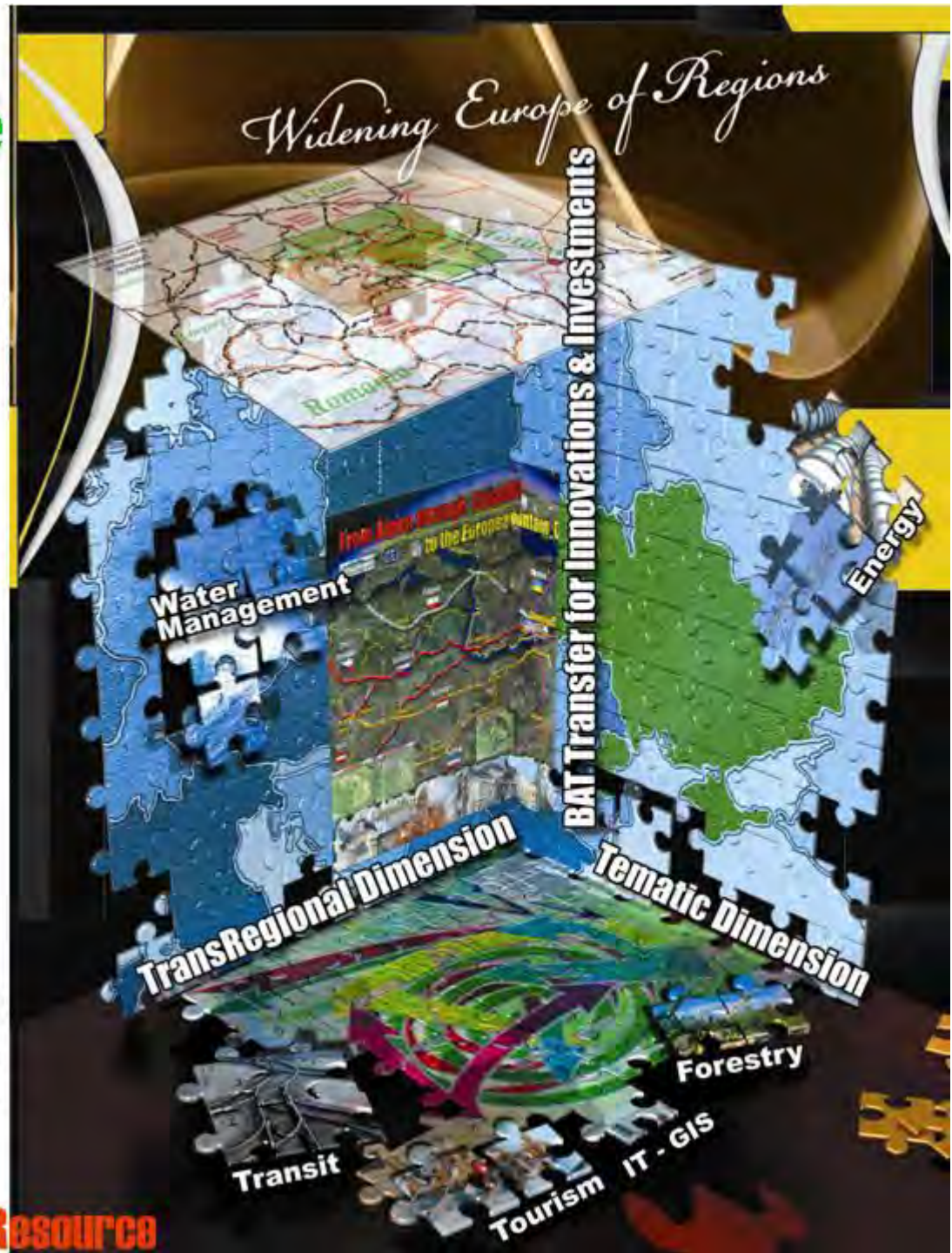
Liquid, Solid, Gaseous, Radiation & Energy Wastes

TECHNOLOGY -

**any kind of Human Activity
in Natural-Anthropogenic
Environment directed to
transformation of Natural,
Human, Material, Energy &
Informational Resources for
concrete aim(s)**

Multifunctional Green Infrastructure

is a facility for synchronization of the environmental capacity, available resources & technological means, aimed to boost each territory response to actual challenges, e.g. labor & demographic problems, climate change, transit needs etc. through appropriate Clusterization in Spatial and Socio-Economic spheres



Transfrontier dimension of Regional Sustainable Spatial & Socio-Economic Development in border river basins



*GIS
tehnology
of control*



*tehnology
+substance
(materials)*



RESOURCES:
*human,
energy
(materials) etc*



Territorial coverage of the Danube region
for the Danube region strategy (EUSDR)

**Carpathian Euroregion
(Tisa, Prut & Siret basins)**

**Euroregion
"Dnister-
Nistru"**

**Euroregion
"Upper Prut"**

**Transfrontier
interregional
collaboration is
mostly actual
in cross-border
river basins**

**Euroregion
"Siret, Prut,
Nistru"**

**Euroregion
Kris, Mures,
Tisa**

**Euroregion
"Lower
Danube"**

[http://www.coe.int/t/dgap/localdemocracy/Areas_of_Work/Transfrontier Cooperation/SWOT Central Europe Final.pdf](http://www.coe.int/t/dgap/localdemocracy/Areas_of_Work/Transfrontier_Cooperation/SWOT_Central_Europe_Final.pdf)

Preliminary pilot developments in



CABINET OF MINISTERS OF UKRAINE
DECREE
of February 14, 2002 Nr. 59-p

Kyiv

Some issues concerning the development of transfrontier co-operation within the frames of the Euroregion "Upper Prut"

1. To support the proposal of the Council of the Euroregion "Upper Prut" concerning the **experimental elaboration of transfrontier co-operation mechanisms as the elements of the process of European integration and development of the regional policy** within the frames of the above-mentioned Euroregion..

2. Ministry of Foreign Affairs in co-operation with the Ministry of Economics and European Integration to negotiate with the Romanian and the Moldovian Parties the determination of experimental status of the Euroregion "Upper Prut" and experimental elaboration of transfrontier co-operation mechanisms as the elements of the process of European integration and development of the regional policy within the frames of the above-mentioned Euroregion..

operation mechanisms as the elements of the process of European integration and development of the regional policy within the frames of the above-mentioned Euroregion..
proposals to the Council of the Euroregion "Upper Prut".
3. Chernivtsy Regional Council in co-operation with the Ministry of Economics and European Integration to negotiate with the Romanian and the Moldovian Parties the determination of experimental status of the Euroregion "Upper Prut" and experimental elaboration of transfrontier co-operation mechanisms as the elements of the process of European integration and development of the regional policy within the frames of the above-mentioned Euroregion..
executive bodies of the Euroregion "Upper Prut" and the Ministry of Ukraine within the framework of the above-mentioned Euroregion..
program of transfrontier co-operation within the frames of the Euroregion "Upper Prut".

8/2000
DREGIUNII
US »
are ale activității
nă «Prutul de Sus»

30 noembrie 2000
5 și 6 ale Acordului
utul de Sus»

următoarele domenii
că și socială reciprocă

de transport și
marilor trans-europene

energetice la nivel
stat și surselor de

de apă și a sistemelor

dezvoltarea industriei
are a lemnului, a
și industriei ușoare;
mărfurilor la nivel

DECISION № 8/2000
OF THE COUNCIL OF EUROREGION
«UPPER PRUT »
«On the priority spheres for the Social & Economical activities in Euroregion «Upper Prut»

city Edinets November 30, 2000
Accordingly to the Articles 5 and 6 of the Agreement regarding the setting up of the Euroregion «Upper Prut»

I. Council of the Euroregion adopts the follows list of priority spheres for the linked Economical & Social activities in the Euroregion:

- * development of transport & communications infrastructure on the levels of Trans-European corridors and local traffic;
- * development of energetic infrastructure on the levels of state systems and local sources;
- * update of the water supply and canalisation systems;
- * forestry and development of the timber and wood-working industries, agro-industrial complex and light industry;
- * development of transfrontier trading on the local

1. Council of the Euroregion adopts the follows list of priority spheres for the linked Economical & Social activities in the Euroregion



Міністр України

A.Kinah

UA-RO-MD Euroregion "Upper Prut"

Main objectives of Euroregion “Upper Prut” (2000) are totally conform to Priority areas of EUSDR and Carpathian Convention (<http://cppk.cv.ua/i/2018723.pdf>)

2. В якості основних механізмів взаємодії у вищезначених сферах діяльності в Єврорегіоні, що мають реалізовуватися через спільні проекти і програми з врахуванням особливостей статусу депресивних регіонів Рада Єврорегіону визначає:

2. Consiliul Euroregiunii stabilește următoarele mecanisme principale de colaborare în aceste domenii de activitate în cadrul Euroregiunii, care urmează să fie realizate prin proiecte și programe comune, avându-se în vedere particularitățile statutului regiunilor defavorizate:

2. As the main mechanisms for interaction in the aforesaid areas of activity in the Euroregion, which should be realised through the common projects & programs, taking into account the particular status of depressive regions, Council of the Euroregion defines:

- providing of the Sustainable Development for the territories – components of the Euroregion and in the transfrontier basins by means of more rational usage of the Resources, implementation of the Technogenic & Environmental Safety modern facility as well as establishment of the Regional Cleaner Production Centre;

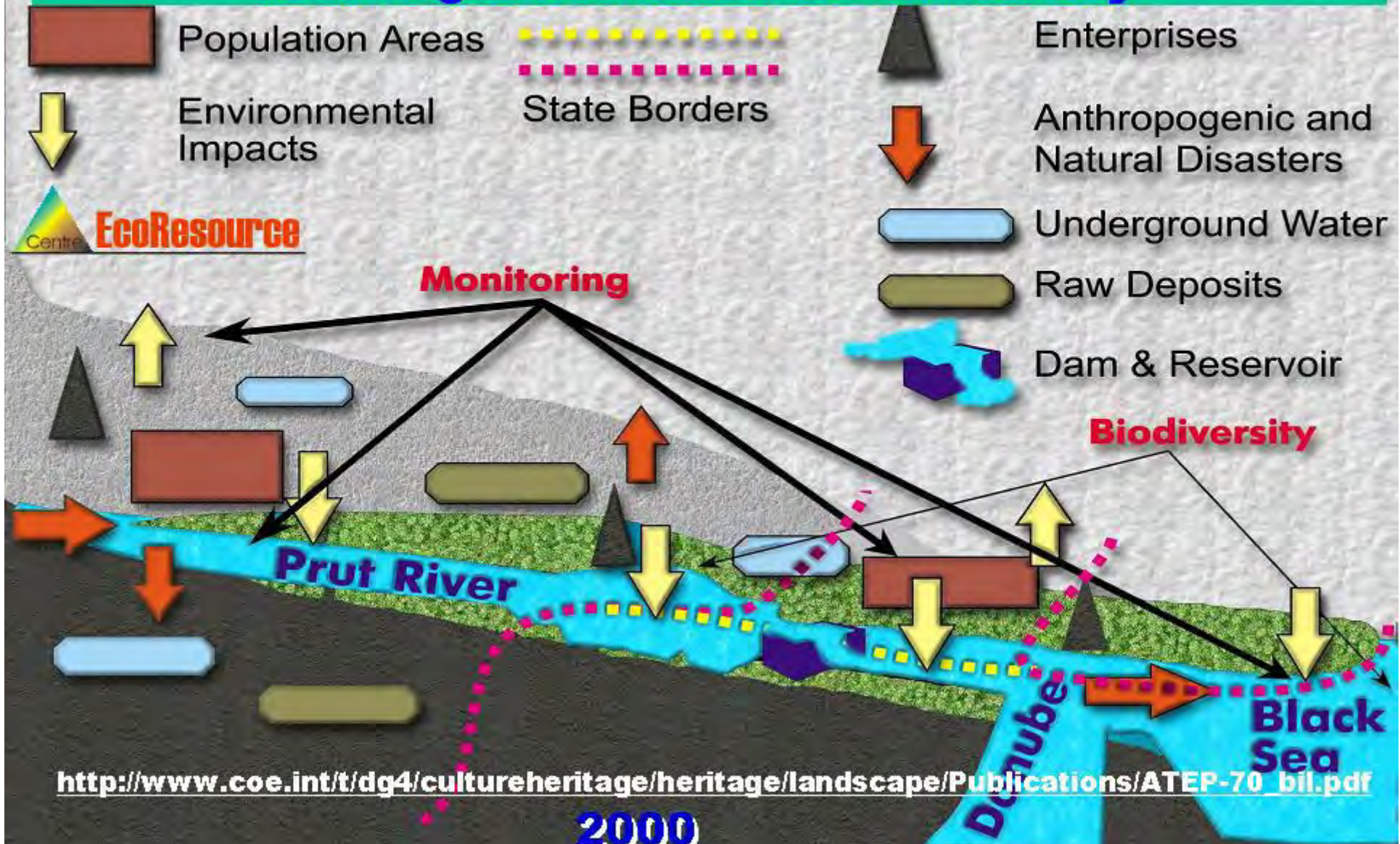
зв'язків між впливовими політичними організаціями в Єврорегіоні;
налагодження взаємодії між ЗМІ членів Єврорегіону для забезпечення поінформованості населення і широкої підтримки ним діяльності Єврорегіону.

între organizațiile politice influente din cadrul Euroregiunii;
stabilirea unor legături reciproce între mijloacele de informare publică ale membrilor Euroregiunii pentru asigurarea informării populației și

connections between authoritative political organisations in the Euroregion;
• tune of collaboration between mass-media of Euroregion members to provide the interest of population and their broad support for Euroregion activity.

EcoEuroRegion (Prut basin)

Model for River Basin Sustainable Development & Technogenic-Environmental Safety



WATER RESOURCE MANAGEMENT



DANUBE POLLUTION REDUCTION PROGRAMME

NATIONAL PLANNING WORKSHOP

UKRAINE

Black Sea, July 13-19, 1998

www.icpdr.org/icpdr-files/8277

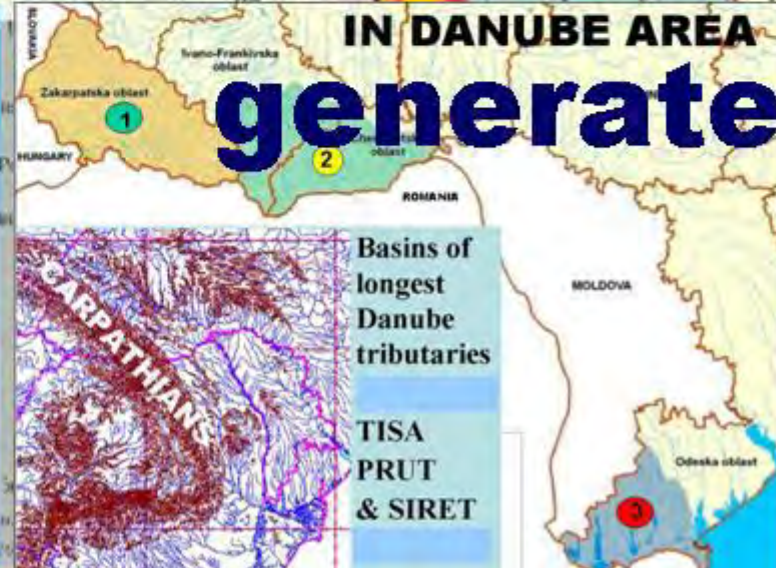
Ministry of Environmental Protection and Nuclear Safety

in cooperation with:

Programme Coordination Unit
UNDP/GEF Assistance

Concept for the Water Supply in Chernivtsi
Концепція водоснаблення міста Чернівці

Logos: TIS, WFP, UNDP, EEC, EcoResource



generated

Common roots (2001) for Carpathian Convention (2003) & the EU Danube Strategy (2010)

Adopted at Summit on 30 April 2001

Declaration on Environment and Sustainable Development in the Carpathian and Danube Region - Bucharest, 30 April 2001 -

We, Heads of State and High Representatives of the States participating in the Summit on Environment and Sustainable Development in the Carpathian and Danube Region*

Bearing in mind the Stockholm Declaration of the United Nations Conference on Human Environment of 1972 and the Rio Declaration of the United Nations Conference on Environment and Development of 1992;

Reaffirming the importance of the implementation of the political and legal commitments undertaken by the international community following those and subsequent conferences, especially at the Pan-European level;

Being aware that the 10-year review and evaluation of the Rio Declaration commitments and the implementation of Agenda 21 to be conducted at the World Summit on Sustainable Development in Johannesburg in 2002 will provide a momentous opportunity for further action to strengthen international co-operation towards coping with the challenges of sustainable development in the twenty-first century;

Being convinced that renewed efforts are required toward that goal on the part of all Carpathian and Danubian countries in a spirit of regional solidarity;

Upholding the principle of common, yet differentiated responsibility, to manage the environment and natural resources so as to promote sustainable development to the benefit of present and future generations;

Acknowledging that the Carpathian region is a natural treasure of great beauty and ecological value, a reservoir of biodiversity, the headwaters of major rivers and Europe's largest area of virgin forest;

Acknowledging also the special economic and social importance of the Danube River and its tributaries as a major European river with multiple uses and functions, as well as its ecological significance and its value as a natural habitat for numerous wildlife species;

Recognizing that a world wide scientific assessment of biodiversity by World Wide Fund for Nature identified the Carpathian Mountains and the Danube Delta as two of the world's most important ecoregions with a representative selection of the world's most outstanding and distinctive biological resources;

Being aware of the fact that efforts to protect, maintain, and sustainably manage the natural resources of the Carpathian Mountains and the Danube River Basin cannot be achieved by one country alone and require regional co-operation;

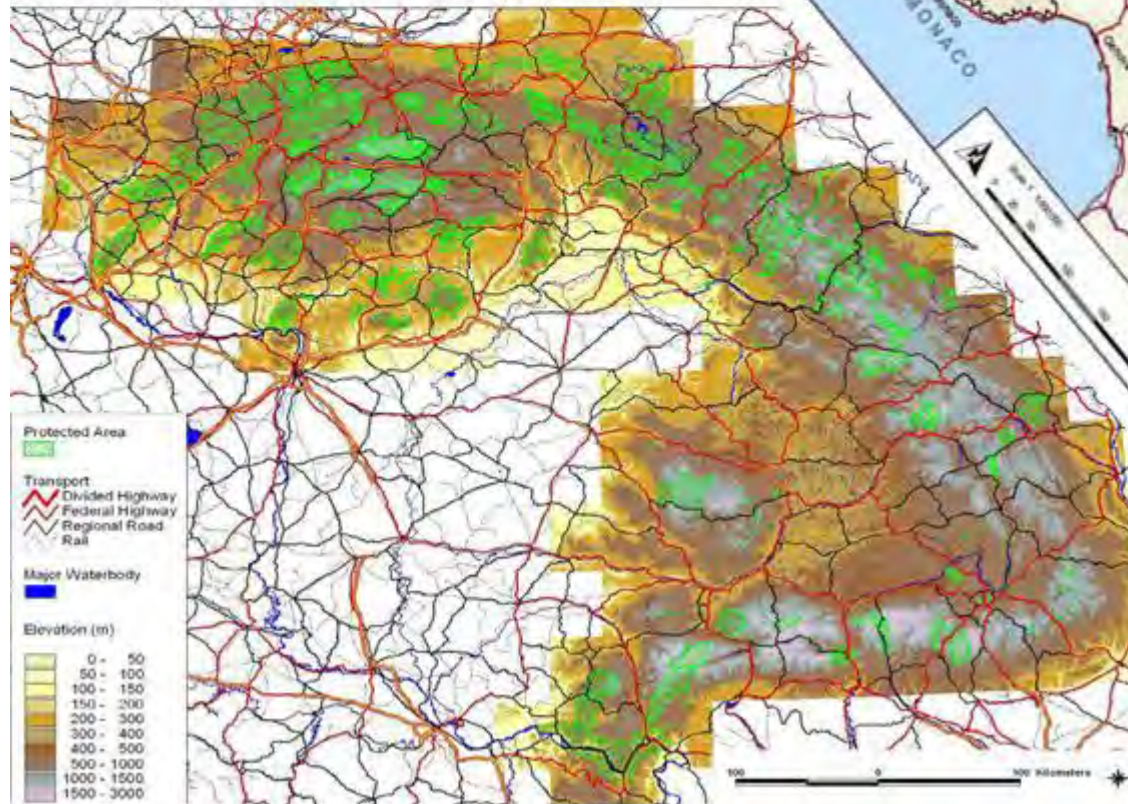
Emphasizing that co-operation on environment and sustainable development will assist the efforts towards stability and peace in the region;

Appreciating the efforts that have been undertaken at international, regional, national and local level to enhance co-operation and support for the maintenance and protection of the natural assets and resources;



<http://www.carpathes.org/sub/Info1.html>

**Alpine historical experience
in water management,
transporting, forestry-
agricultural and
other sectors, being
implemented in
Carpathians,**



**became a ground of
Ukrainian initiatives
for joint Carpathian
Convention &
EUSDR embodiment**

TRANSREGIONAL ALPINE- CARPATHIAN DIMENSION OF DANUBE STRATEGY

Consultation on the EU Strategy for the Danube Region

Partner States, their regions, geo-landscapes and habitats. This disparity can be perceived in social-economic and spatial conditions, mentalities/traditions, approaches and accessibility to resources, energy, education, mobility, information and other "creature comforts".

Such "patchwise cohort" has, first of all, to find common fields of interests on the way to joint synergic solutions to prevent further face-off barriers for macro-regional Sustainable Development. At the moment Danube Strategy (EUSDR) establishment can be qualified by term "betweenness" as "a place or a time where differences and borders are redefining themselves" (D. Sibony).

This betweenness overcoming opportunity was formulated by EU Commissioner O. Rehn: "Borders are restrictive. Borders limit our minds, chain actions, and reduce our influence. Frontiers are innovative. Frontiers free our minds, stimulate action, and increase our influence. Frontiers are much more substantive and functional – even mental – than geographic". From such point of view successful start up of EUSDR embodiment should be conform to the principle proclaimed by the EU Article 177 of the ENPI: "Community assistance may be used for common benefit of Member States and partner countries and their regions, for the purpose of promoting cross-border and transregional cooperation through different EU Programs and other tools.

Further development of this EU approach was formulated in the ENPI Eastern Regional Program Strategy Paper 2007 – 2013: "seems that the most successful projects have been those which from the outset have benefited from a sustained high level political support provided from a regional institutional framework. By contrast, projects that have been implemented through a bottom-up approach, i.e. as a result of demand from individual partner countries, rather than within a well-defined political multi-lateral framework, have tended to remain isolated, even when successful, and in general have not succeeded in fostering a genuine regional spin-off".

The "natural" challenge of Climate Change in Danube area should receive "anthropogenic" answer through Sustainable Development mechanisms. Using experience of "Industrial Metabolism Refinement" in Rhine basin we can act "implementing our climate and energy package showing how tackling climate change is a dynamic element in a strategy for growth by creating jobs and boosting energy security under the Europe 2020 approach", how it was proposed by President Barroso to EU Heads of State and Government after Copenhagen.

Water is the general common Resource in Danube basin. It's evident that EUSDR will concert those activities, which are realised immediately in the river bed space, e.g. navigation, or hydro-technical processes in the river basin (irrigation, moderation, powers exploitation and mining water pumping, river beds regulation, dredging, sand/gravel mining, or the river banks etc.).

In parallel should be revised all other anthropogenic activities impacting river basin both on more or less constant value and through emergency risks generation (probable accidents). For instance in the industrial sphere they are: production in mining and ore-dressing, chemical, forestry-wood-cellulose, all kinds of food, construction materials, electronic and machine building sectors etc. And especial attention will be paid to hazardous waste generators, waters polluters and potentially danger manufactures.

But the most general topic of EUSDR concerns Clean Water Sources in Alps and Carpathians. Under Climate Change this beautiful problem very soon will became more then obvious.



Transregional Alpine-Carpathian interaction in Danube basin

Taking into account actual Alpine and Carpathian Conventions - their last years collaboration should become a "Common Generator" for further EUSDR project's topics. It means utilisation of common and individual achievements and agreements of these Conventions for Sustainable Development of Transport, Energy, Water, Forests, Agriculture and other sectors. As well as both Conventions also foresee intercultural and interethnic reciprocal actions aimed to augment common heritage.

EcoResource
Centre for Environmental and Carpathian Forestry

From Alpen Through Carpathian to the European Mountain Convention

THE EUROPEAN CLUSTER MEMORANDUM
Promoting European Innovation through Clusters

THE CONCEPT OF CLUSTERS AND THEIR POLICIES AND THEIR ROLE FOR COMPETITIVENESS AND INNOVATION.
STATISTICAL RESULTS AND LESSONS LEARNED

CLUSTER POLICY

CLUSTER DEFINITION

CLUSTER TYPES

CLUSTER BENEFITS

CLUSTER CHALLENGES

CLUSTER SUPPORT

CLUSTER EVALUATION

CLUSTER DEVELOPMENT

CLUSTER NETWORKS

CLUSTER GOVERNANCE

CLUSTER LEGISLATION

CLUSTER RESEARCH

CLUSTER INNOVATION

CLUSTER EXPORT

CLUSTER SUSTAINABILITY

CLUSTER RESILIENCE

CLUSTER ADAPTABILITY

CLUSTER FLEXIBILITY

CLUSTER DIVERSITY

CLUSTER SPECIALIZATION

CLUSTER COOPERATION

CLUSTER COLLABORATION

CLUSTER COMPETITION

CLUSTER INFLUENCE

CLUSTER REPUTATION

CLUSTER ATTRACTIVENESS

CLUSTER CREDIBILITY

CLUSTER RELIABILITY

CLUSTER ACCOUNTABILITY

CLUSTER TRANSPARENCY

CLUSTER INTEGRITY

CLUSTER ETHICALITY

CLUSTER LEGITIMACY

CLUSTER CREDIBILITY

CLUSTER RELIABILITY

CLUSTER ACCOUNTABILITY

CLUSTER TRANSPARENCY

CLUSTER INTEGRITY

CLUSTER ETHICALITY

CLUSTER LEGITIMACY

The background is a map of Europe. A central region, covering parts of Poland, Slovakia, Hungary, and Ukraine, is highlighted in a light green color. An inset map, showing a topographic view of the Carpathian Basin, is overlaid on this green region. The text is overlaid on the map in various colors and sizes.

**Overlapping of EU macroregional
Danube & Baltic Strategies,
Neighbourhood Facility and Carpathian
Convention area
EUSBSR + EUSDR**

**Carpathian
Convention**

**should be reflected in EU Programs
2014-2020 for common sphere of
EUSDR and Eastern Partnership under
EU Association Agreements
with Ukraine and Republic of Moldova**

EUSDR, Alpine & Carpathian Conventions have enough common Priority Areas for regional Water Management & synergic projects implementation

[PA 1B | Mobility | Rail-Road-Air \(http://groupspaces.com/MobilityRail-Road-Air/\)](http://groupspaces.com/MobilityRail-Road-Air/)

[PA 02 | Energy \(http://groupspaces.com/Energy2/\)](http://groupspaces.com/Energy2/)

[PA 03 | Culture & Tourism \(http://groupspaces.com/CultureTourism/\)](http://groupspaces.com/CultureTourism/)

[PA 04 | Water Quality \(http://groupspaces.com/WaterQuality/\)](http://groupspaces.com/WaterQuality/)

[PA 05 | Environmental Risks \(http://groupspaces.com/EnvironmentalRisks/\)](http://groupspaces.com/EnvironmentalRisks/)

[PA 06 | Biodiversity, landscapes, quality of air and soils \(http://groupspaces.com/BiodiversityLandscapesAirSoil/\)](http://groupspaces.com/BiodiversityLandscapesAirSoil/)

[PA 07 | Knowledge Society \(http://groupspaces.com/KnowledgeSociety/\)](http://groupspaces.com/KnowledgeSociety/)

[PA 08 | Competitiveness \(http://groupspaces.com/Competitiveness/\)](http://groupspaces.com/Competitiveness/)

[PA 09 | People & Skills \(http://www.peopleandskills-danuberegion.eu/\)](http://www.peopleandskills-danuberegion.eu/)

[PA 10 | Institutional capacity and cooperation \(http://groupspaces.com/CapacityandCooperation/\)](http://groupspaces.com/CapacityandCooperation/)



EcoResource

[PA 11 | Security \(http://groupspaces.com/Security/\)](http://groupspaces.com/Security/)

**Conformably to EUSDR PAs 4 & 5 (Pillar II)
 large scale transfrontier project East Avert of
 Joint Operational Program “RO-UA-MD”
 should become a “trigger” for synergic EU
 Water Management, Regional Development &
 Acquis Communautaire implementation in
 main boundary Danube tributaries**

**Prevention and protection
 against Floods & Stormwater
 in the Upper Prut ,Tisa & Siret
 River Basins, through the
 implementation of a modern
 monitoring system with
 automatic stations, GIS,
 Systems Water Security and
 Management**



Specific objectives of East Avert:

1. Ensuring of a high quantitative monitoring level of the Siret and Prut River Basins for prevention and protection against floods and accidental pollution events;
3. Elaboration of the maps representing the flooded areas during the historical flood events in the Siret and Prut River Basins, of the hazard and vulnerability maps at a adequate scale (using the high-resolution satellite images) and of the risk maps for Siret and Prut River Basin.
4. Providing of the River Basin Plan for the protection against ice-floods, hydrological drought, accidents occurred at the hydrotechnical constructions and accidental pollutions for the Siret and Prut River Basins.
5. Improving the warning system by a better common forecasting procedures and modeling.
6. Increasing the reaction capacity by a better data and forecasts dissemination, public information about flood hazard and risk.



Programme funded by the
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Results:

1. Developing a modern integrated monitoring and warning system to protect localities and population living in the border areas of Prut and Siret River Basins.
2. Long-term development of the integrated approach to prevent and protect localities and population against floods, by a strategic land development planning taking into consideration the flood hazard and vulnerability/risk maps.
3. Elaboration of the „River Basin Protection Plan against ice-floods, hydrological drought, accidents occurred at the hydrotechnical constructions” through the cooperation of the responsible stakeholders on the territory of Romania, Ukraine and Republic of Moldova;
4. The improvement in the management of the floods, accidental pollutions in the river basin and quality of the water resources, for the prevention of emergency situations;
5. The adjustment and implementation of the national strategy for the fight against flood risk, by informing the local communities, local public authorities and the public on the issues regarding the protection against floods in the Siret and Prut River Basins, and also on the vulnerable areas by realizing the vulnerability and risk maps for both Prut and Siret River Basins in the areas with transboundary impact.
- 6. Review of the bilateral agreements in the field of water management – to improve the part for data exchange, warning and coordination of the preventive activities.

Through these actions, the local authorities from the areas with high vulnerability in case of flood events or related potential pollution events will be better protected, and also a better protection of the cultural, historical and natural protected areas patrimony within these river basins will be ensured.



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Romania-Ukraine-Republic of Moldova
CROSS BORDER COOPERATION

Початок створення АІВС ТИСА

- 1986 р технічне завдання на I чергу АІВС



Угода між Мінводгоспом УРСР і Держвідомством водного господарства Угорської На по темі "Інформаційно-вимірювальна система для прогнозу паводки і управління водними ресурсами басейнів рік", підписана в м. Будапешт 16 грудня 1986 р.

Following achievements of Ukrainian-Hungarian transfrontier cooperation 28 years experience in Tisa basin on Water Management and Floods Prevention, EAST AVERT

should promote well coordinated systems monitoring, GIS mapping, floods & risks modeling, as well as based on this facility synergic activities of public

Впровадження паводкової директиви ЄС в басейні р. Тиси



Моделювання затоплення паводковими водами
с. Петрово Виноградівського р-ну



emergency and disaster regimes, to construct protective installations and to provide permanent interaction between these structures

emergency bodies, regional & local authorities and population in rural communes & municipalities, aimed to create efficient plans for ordinary,

Моделювання затоплення паводковими водами
с. Петрово Виноградівського р-ну





MODERNIZATION OF CONTROL SYSTEM AICS

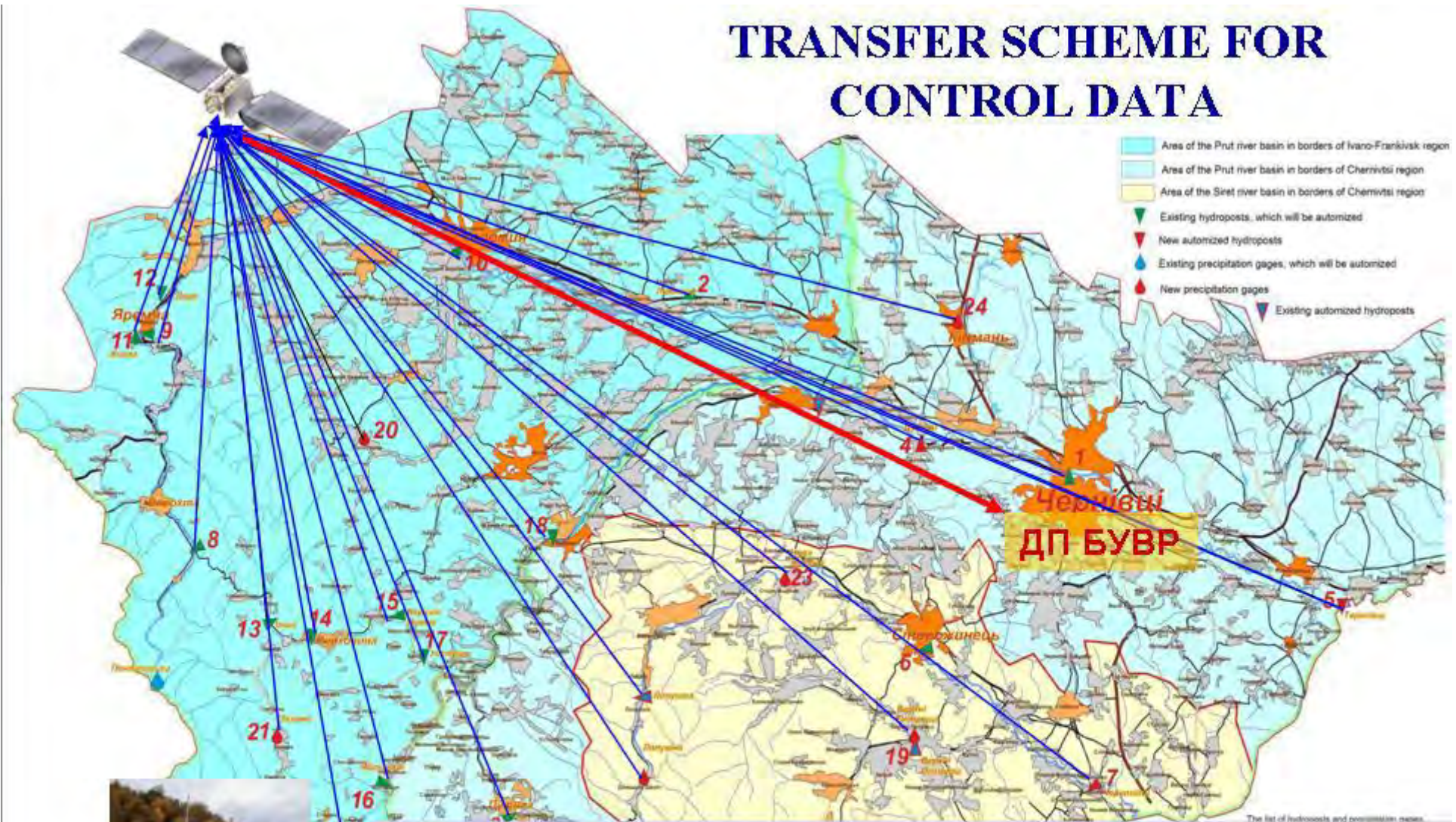
- *In the framework of East Avert is foreseen automatization of 24 control points in the basins of Prut & Siret, including:*
- *17 check-points on water level control,*
- *5 hydrometric crossings,*
- *19 precipitations meters, both on the check-points or separately;*
- *Establishment of 3 Dispatching Centres for information collection, analysis and transfer*



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Romania-Ukraine-Republic of Moldova
CROSS BORDER COOPERATION

TRANSFER SCHEME FOR CONTROL DATA



Data transfer reliability is provided by usage of mobile system for batch communication GPRS (through 2 channels modem of 2 different mobile operators) and by satellite communication.



ESTABLISHMENT OF GIS FOR FORECASTING AND WATER RESORURCE MANAGEMENT

Implementation of *GIS in Prut and Siret basins* together with modeling emergency situations .

Structure of the System

- digital model of eminences,
- detailed vector maps,
- inundation zones maps,
- thematic layers (hydrographic objects, settlements, relief, hydrotechnical constructions),
- geographic and attributive data bases),
- model of probable risks forecasting

GIS Portal creation to provide unified access point to geo-informational resources



Romania-Ukraine-Republic of Moldova
CROSS BORDER COOPERATION



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IMMEDIACY BOOSTING FOR MANAGEMENT DECISIONS MAKING



1 година



3 години



4-5 години



5 хвилини

Збір даних



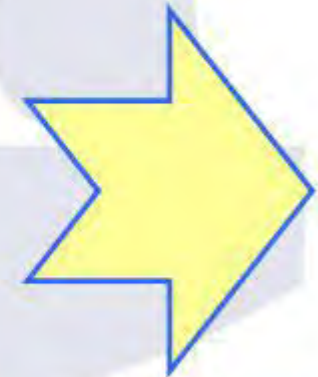
< 1 хвилини

Передача даних



1-2 години

Обробка даних, прогнозування, моделювання



Прийняття рішень

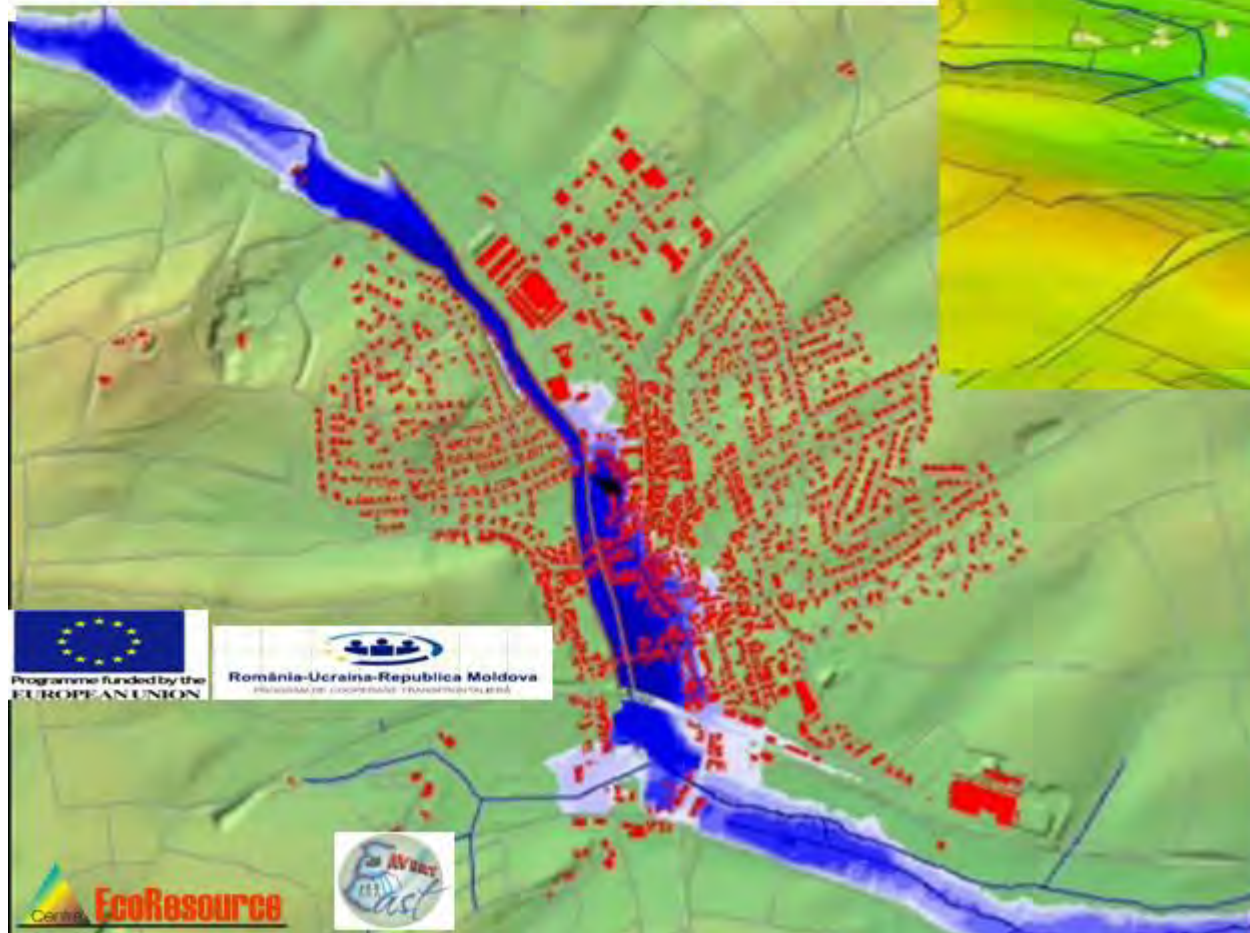
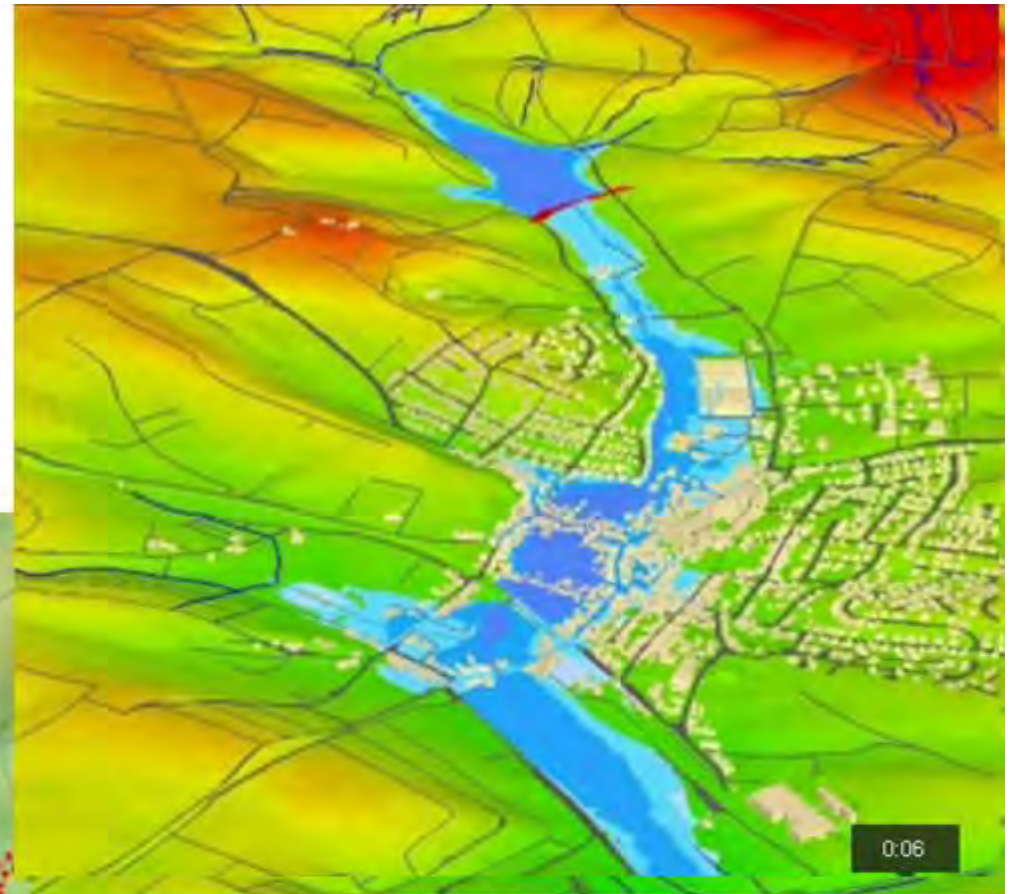


Programme funded by the
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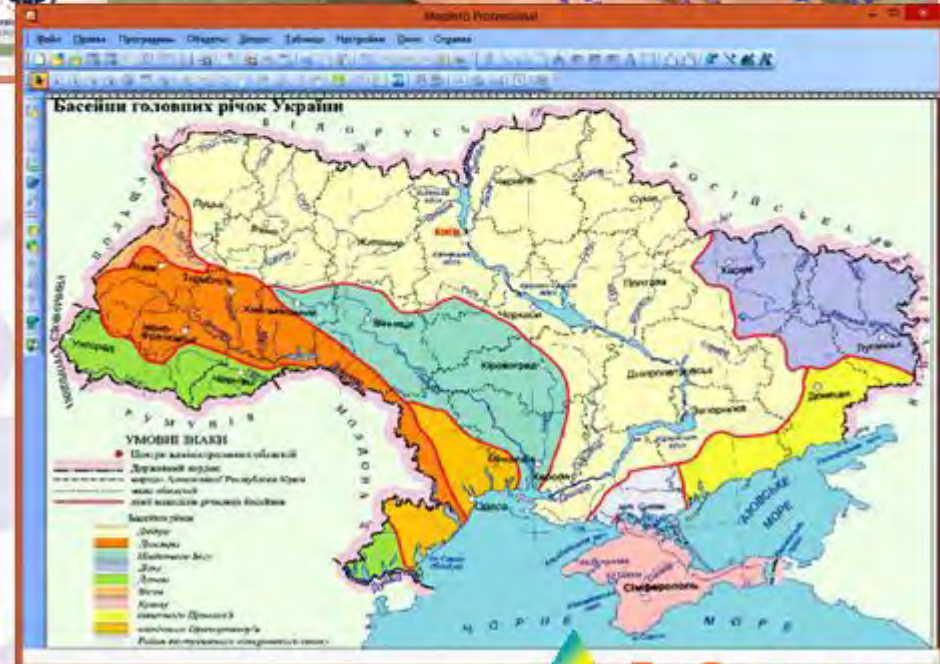
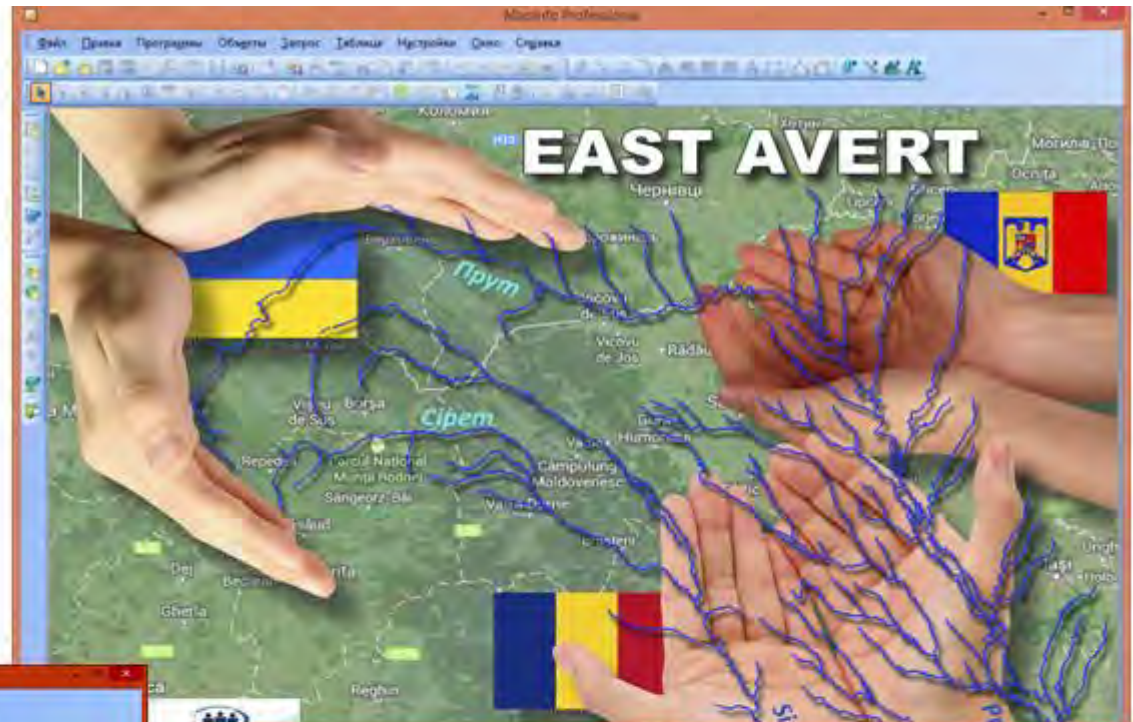
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Modeling & Scenarios of riverbed & storm-water floods & associated events development on GIS basis and mapping for

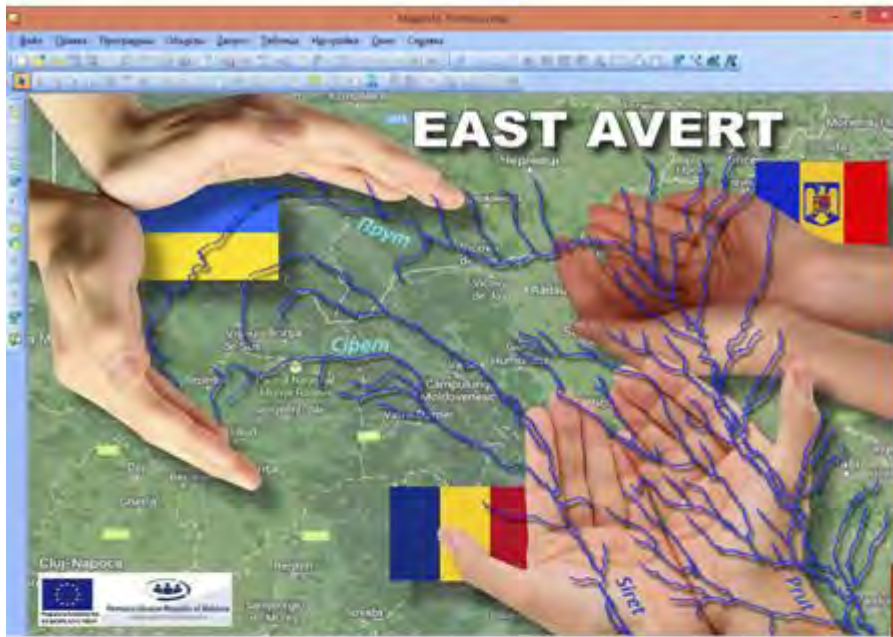


**territorial
prevention,
protection &
actions planning
by specialized
bodies &
communities**

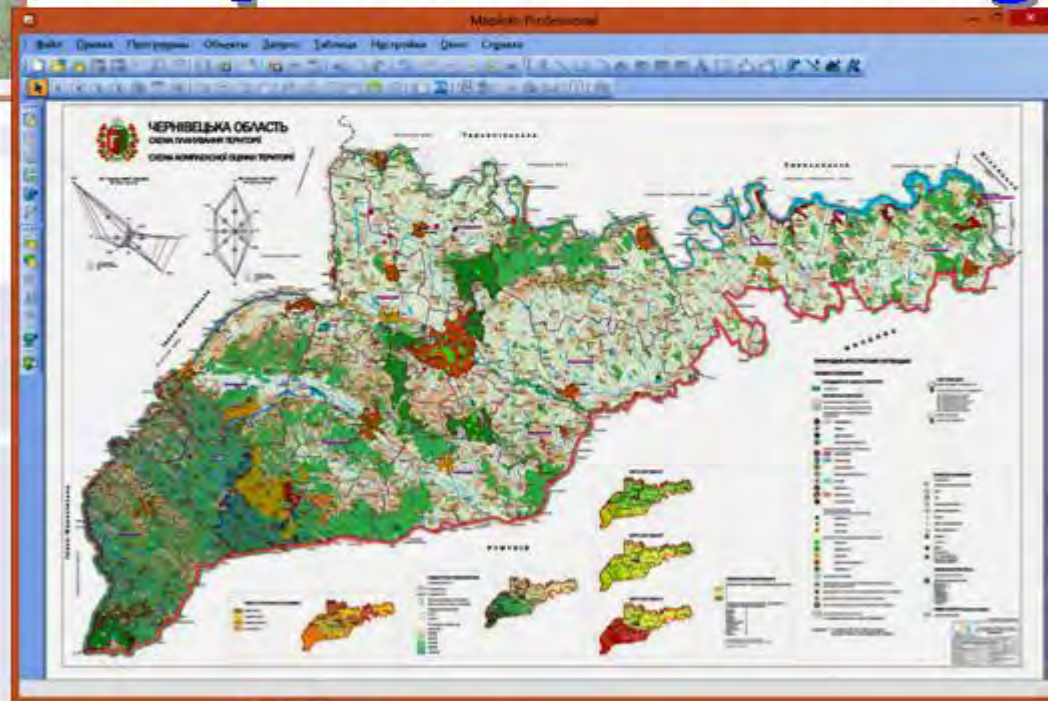
Basin Management improvement for Prut & Siret, following Tisa, and further spreading to East



Through Flood & Stormwater risks mapping, GIS integrated facility & Spatial Planning



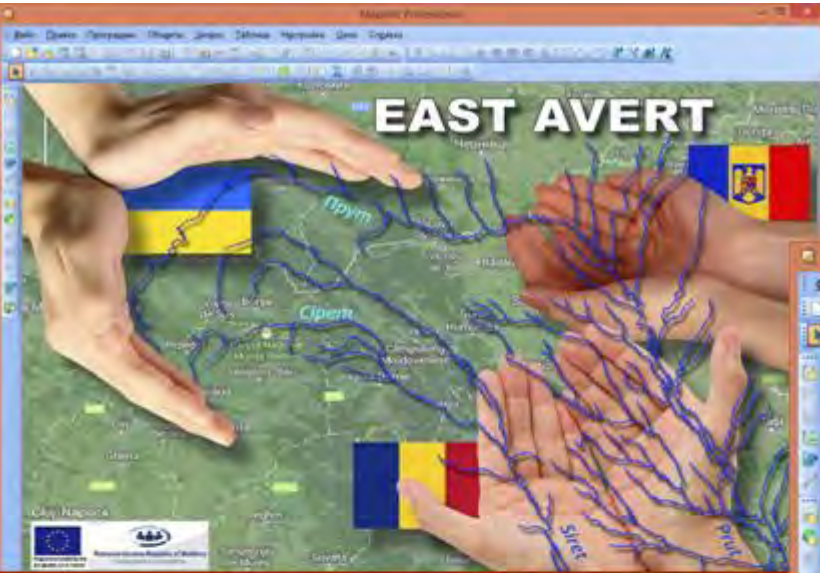
EAST AVERT
promotes
Regional
Sustainable
Development



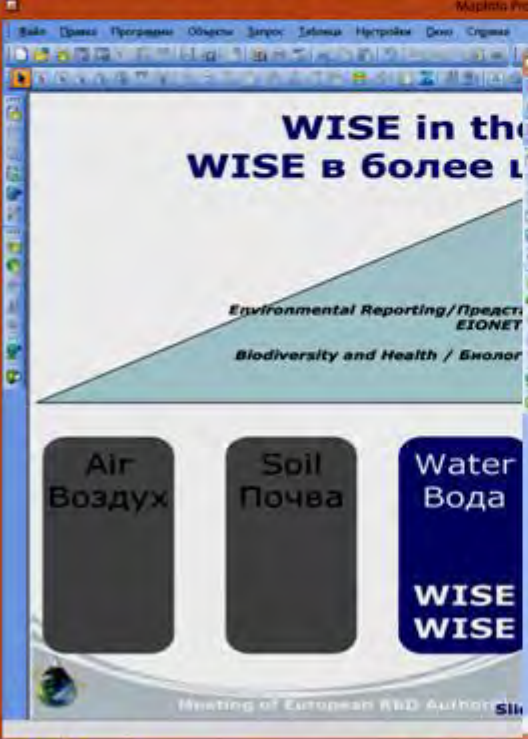
Romania-Ukraine-Republic of Moldova
CROSS BORDER COOPERATION



& accelerates EU Directives rooting



Directive 2007/60/EC of the European Parliament and of the Council of 23 October 2007 on the assessment and management of flood risks

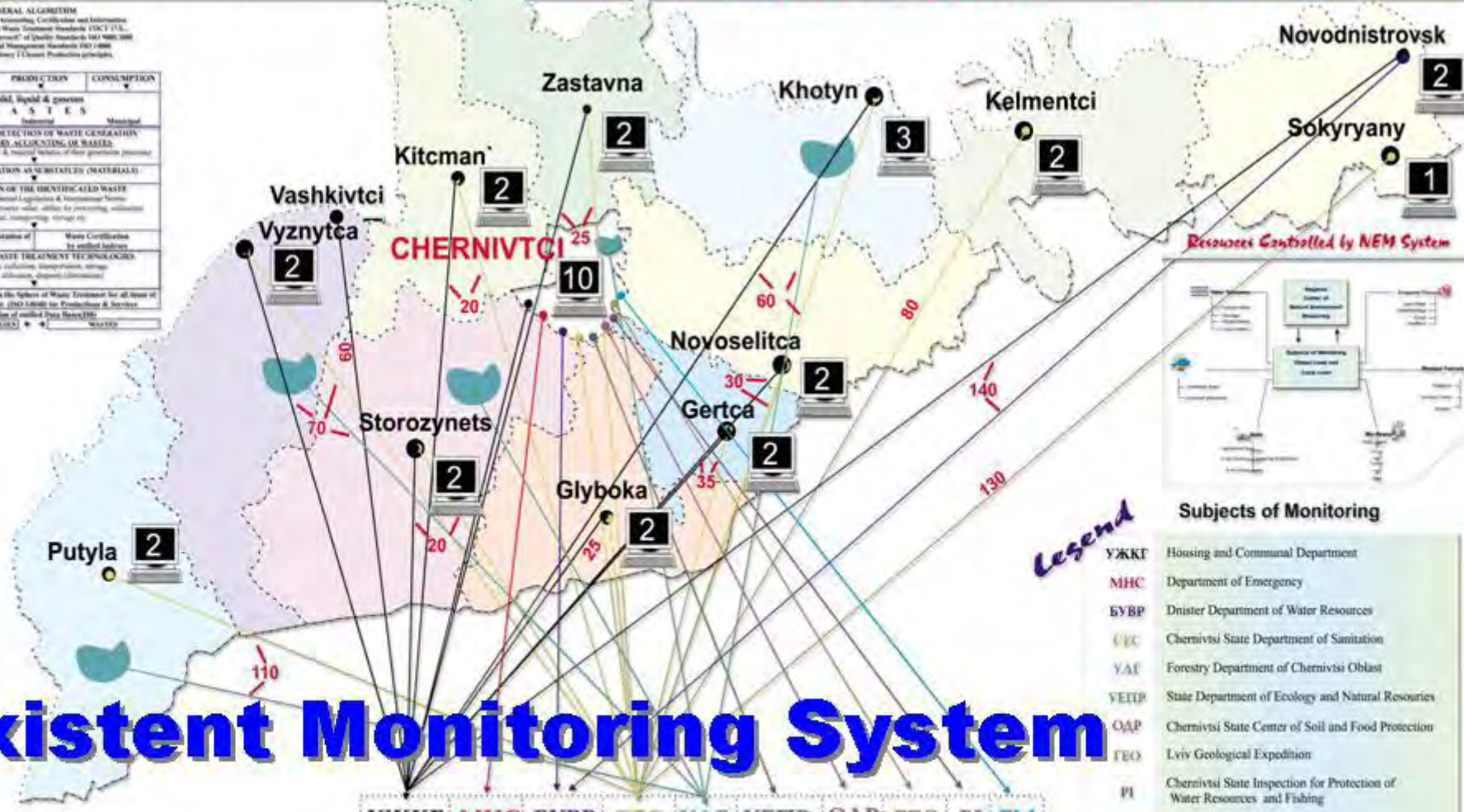


ВОДНИЙ КОДЕКС УКРАЇНИ



GENERAL ALGORITHM
for Waste Monitoring, Accounting, Certification and Information Support under the EU Waste Treatment Standards (TCT) (i.e. in accordance "system approval" of Quality Standards ISO 9001:2000 & Environmental Management Standards ISO 14001 to ensure Eco-Efficiency (Cleaner Production principles).

RESOURCES	PRODUCTION	CONSUMPTION
Solid, liquid & gaseous WASTES		
Raw	Industrial	Municipal
FORECASTING & DETECTION OF WASTE GENERATION PREDICTION & ACCOUNTING OF WASTES by treatment of the energy & material balance of their generation process		
WASTE IDENTIFICATION AS SUBSTANCES (MATERIALS)		
CLASSIFICATION OF THE IDENTIFIED WASTE Accordingly to National Legislation & International Norms on indices of danger, resource value, ability for processing, utilization (thermal, incineration, storage etc.)		
Waste Management & Quantities of Generation	Waste Certification by unified Address	
SELECTION OF WASTE TREATMENT TECHNOLOGIES Maximums: collection, transportation, storage (processing, utilization, deposit, incineration)		
Change of value relations in the Sphere of Waste Treatment for all types of Life Cycle Assessment (LCA) related to Production & Services Cooperation of unified Data Storage		
TREATMENT TECHNOLOGIES		



Subjects of Monitoring

УЖКГ	Housing and Communal Department
МНС	Department of Emergency
БУВР	Dnister Department of Water Resources
СЕС	Chernivtsi State Department of Sanitation
УЛГ	Forestry Department of Chernivtsi Oblast
УЕПР	State Department of Ecology and Natural Resources
ОАР	Chernivtsi State Center of Soil and Food Protection
ГЕО	Lviv Geological Expedition
ПІ	Chernivtsi State Inspection for Protection of Water Resources and Fishing
ГМ	Chernivtsi Meteorological Center
Server NEMS	

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Romania-Ukraine-Republica Moldova

Distance to Chernivtsi

existent Monitoring System



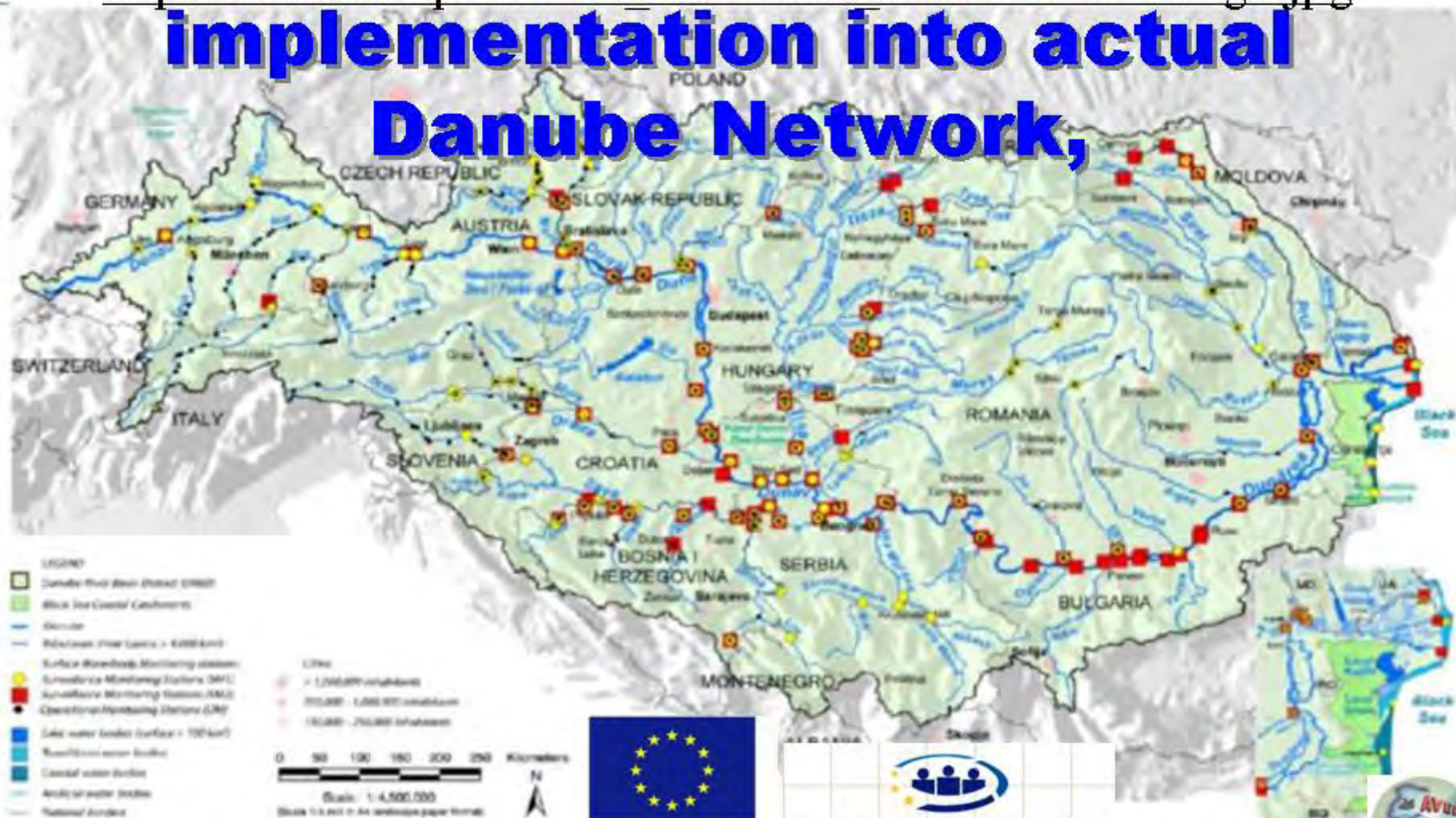
Trans National Monitoring Network - TNMN

icpdr iksd

International
Commission
for the Protection
of the Danube River
Internationale
Kommission
zum Schutz
der Donau

http://enlib.exdep.com/tw_files2/urls_5/18/d-17496/img5.jpg

implementation into actual Danube Network,



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as well as – into Danube Emergency Warning System

DANUBE BASIN MAP

ACCIDENT EMERGENCY WARNING SYSTEM

- P11 Principal International Alert Centre
- Danube Secretariat
- Catchment boundary
- State boundary
- City
- River
- Water level measuring station
- Hydropower dams



Date: January 1996

Prepared by:

<http://www.meteo.md/newmejd1/dunai/azmap.jpg>





Trilateral project "The prevention and protection against floods in the upper Siret and Prut River Basins, through the implementation of a modern monitoring system with automatic stations - EAST AVERT",
MIS-ETC Code 966



**Questionnaire for specialists of authority bodies,
involved into the System of Floods prevention and counteraction**

I. Specialist

Last name, initials	Place of work	Position	Phone	E-mail
1	2	3	4	5

Fulfilled « » 2014 Working experience in the System ___ years
Functional field: Emergency, Water management, executive body, self-government body, scientific-
underline the necessary
technical, engineering, IT, medical, social, another (*specify*)

Category: chief, specialist, rescuer, medic, worker, another (*specify*)
underline the necessary

2. List of Emergences, which were observed or are known to specialist

Nr of event	Nomination of the Emergency situation	Year, month, day, time	Data source
6	7	8	9

3. Essential information about each event, which was observed or is known to specialist

Nr of event accord to head.6	Place, where the event was observed	Maps/schemes availability (coordinates)	Actions & pre- vention plans availability	Informing sources & schemes	Event characterization	Event periodicity
10	11	12	13	14	15	16

4. Special peculiarities of each event, which was observed or is known to specialist

Nr of event accord to head.6	Flood generation mechanism in the place head.11	High-water marks in the place head.11	Water rise continuation & high water duration	Were & how long was water abatement	Concrete impoundment objects list	Floods aftermaths in the place head.11
17	18	19	20	21	22	23



5. Informing & planning concerned prevention and action plans

Nr of event accord to head.6	Preparing measures & informing	Sources & content of the information through event	Information about the aftermath & elimination	Measures & means of counter- measures & actions	Estimate of engineering structures efficiency	The necessity of changes & follow-up actions
24	25	26	27	28	29	30



Through population, authorities & specialized bodies surveying in vulnerable

zones were determined both most adjusted methods for Floods & concerned Risks mapping and the sectors of Upper Prut and Siret basins for further detailed historical floods and potential risks evaluation as a basis for





Historical floods & risks reference points in settlement Stata Zhadova Storozhinets district 29/05/2014

**Risks
assessment &
emergency
planning,
verified
through
floods
modeling**



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© OpenStreetMap (and) contributors, CC-BY-SA

For such modeling successful implementation and further development it's necessary to have adjusted methodology for maximally precise data collection both on the historical floods and through the future emergency situations. For modeling establishment, verification and further utilization in emergency planning activity, risks assessment and immediacy through running disasters -the most important to know dynamic changes of the real water level “mirror” in anthropogenic zones, vulnerable to floods and stormwater.

As it shown below – the previous flood maps, as well as population and specialists inquiring, don't give such precise data. E.g. typical watermarks on the bridge footings don't provide real water level “mirror” for modeling.

Therefore for historical floods mapping, GIS modeling and risk assessments we use logically revealed chains of investigated digital photos & video-records, allowing to determine precise place, level & time of flood water “mirror”.



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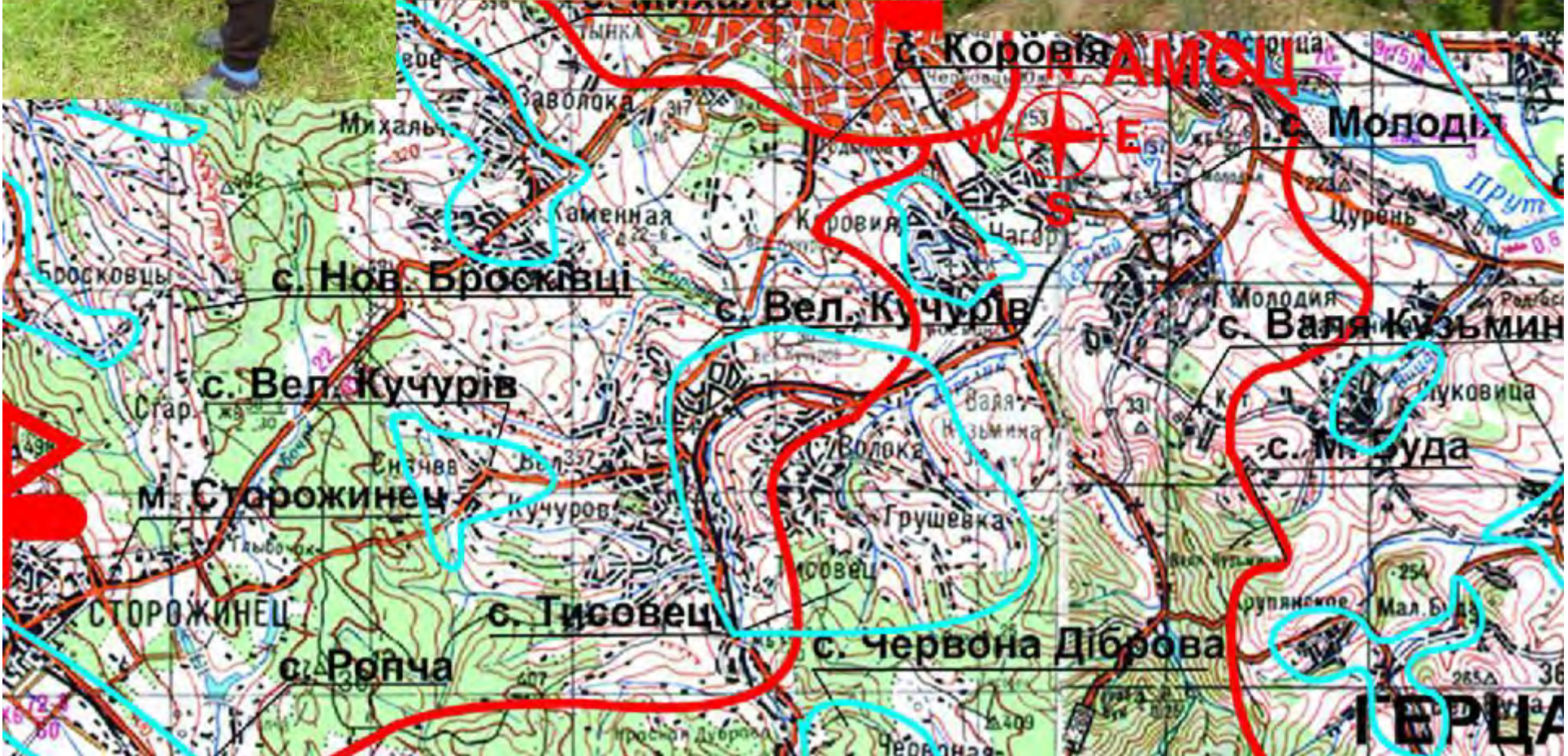


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Romania-Ukraine-Republic of Moldova

CROSS BORDER COOPERATION







**ASSOCIATION AGREEMENT
BETWEEN THE EUROPEAN UNION AND ITS
MEMBER STATES, OF THE ONE PART, AND
UKRAINE, OF THE OTHER PART**

**TITLE V
ECONOMIC AND SECTOR COOPERATION**

**CHAPTER 27
CROSS-BORDER AND REGIONAL COOPERATION**

Article 446

The Parties shall promote mutual understanding and bilateral cooperation in the field of regional policy, on methods of formulation and implementation of regional policies, including multi-level governance and partnership, with special emphasis on the development of disadvantaged areas and territorial cooperation, with the objective of establishing channels of communication and enhancing exchange of information between national, regional and local authorities, socio-economic actors and civil society.

Article 447

The Parties shall support and strengthen the involvement of local and regional level authorities in cross-border and regional cooperation and the related management structures, to enhance cooperation through the establishment of an enabling legislative framework, to sustain and develop capacity building measures and to promote the strengthening of crossborder and regional economic and business networks.

Article 448

The Parties shall strengthen and encourage development of cross-border and regional elements of, *inter alia*, **transport, energy, communication networks, culture, education, tourism, health and other areas covered by the present agreement which have a bearing on cross-border and regional cooperation. In particular, the Parties shall encourage the development of cross-border cooperation in the modernisation, the equipping and the coordination of emergency services.**

Article 449

A regular dialogue will take place on the issues covered by [CHAPTER 27 of TITLE V: ECONOMIC AND SECTOR COOPERATION] [of this Agreement].

**New approach
for Ukraine & RM
common work
with EU on the
regional/local
level for
EU Acquis
Communautaire
step-by-step
implementation**

**ASSOCIATION AGREEMENT
BETWEEN THE EUROPEAN UNION AND ITS
MEMBER STATES, OF THE ONE PART, AND
UKRAINE, OF THE OTHER PART**

**TITLE V
ECONOMIC AND SECTOR COOPERATION
CHAPTER 6**

Article 360

The Parties shall develop and strengthen their cooperation on environment issues, thereby contributing to the long term objective of sustainable development. It is expected that enhanced environment protection will bring benefits to citizens and businesses in Ukraine and in the EU, including through improved public health, preserved natural resources, increased economic and environmental efficiency, integration of environment into other policy areas, as well as higher production as a result of modern technologies. Cooperation shall be conducted considering the interests of the Parties on the basis of equality and mutual benefit as well as taking into account interdependence existing between the Parties in the field of environment protection and multilateral agreements in the field.

Article 361

Cooperation shall aim at preserving, protecting, improving, and rehabilitating the quality of the environment, protecting human health, prudent and rational utilisation of natural resources and promoting measures at international level to deal with regional or global environmental problems, including *inter alia* in the areas of:

- (a) climate change;
- (b) environmental governance and horizontal issues, including education and training, and access to environmental information and decision-making process;
- (c) air quality;
- (d) water quality and water resource management, including marine environment;
- (e) waste and resource management;
- (f) transboundary and cross-border issues;
- (g) industrial pollution and industrial hazards;
- (h) chemicals;
- (i) geological and hydrological hazards, including the effects of climate change;
- (j) noise pollution;
- (k) civil protection, including natural and man-made hazards;
- (l) urban environment;

ENVIRONMENT

Article 362

1. The Parties shall, *inter alia*:
 - (a) exchange information and expertise;
 - (b) implement joint research activities and exchange of information on cleaner technologies;
 - (c) plan the handling of disasters and other emergency situations;
 - (d) implement joint activities at regional and international level, including with regard to multilateral environment agreements ratified by the Parties and joint activities in the framework of relevant agencies as appropriate.
2. The Parties shall pay special attention to transboundary issues.

Article 363

Gradual approximation of Ukrainian legislation with EU policy and legislation on environment shall proceed in accordance with Annex [XXIX] [of this Agreement].

Article 364

Cooperation in the protected sector shall include the implementation of specific agreements in this field concluded between the Parties according to the respective powers and competences of the EU and its Member States and in accordance with the legal procedures of each Party. It shall aim *inter alia* at:

- (a) exchanging a wide range of information, including on trans-border emergencies, including requests for and offers of assistance;
- (b) exchanging a wide range of information, including on trans-border emergencies, including requests for and offers of assistance;
- (c) cooperating on the assessment of the environmental impact of disasters;
- (d) exchanging a wide range of information, including on trans-border emergencies, including requests for and offers of assistance;
- (e) inviting, on a case by case basis, observers to specific exercises and training organised by the EU and/or Ukraine;
- (f) strengthening of cooperation on the most effective use of available civil protection capabilities.

**EUSDR PILLAR II AS A TOOL
FOR ANTICIPATORY INTEGRATION
INTO EU ENVIRONMENTAL POLICY**

**DIRECTIVE 2000/60/EC OF THE
EUROPEAN PARLIAMENT AND
OF THE COUNCIL
of 23 October 2000
establishing a framework for
Community action
in the field of water policy**

(22) This Directive is to contribute to the progressive reduction of emissions of hazardous substances to water.

**Synergy of the EU
framework Water,
Flood Risk, Urban
Waste Water
Treatment and
Integrated Pollution
Prevention & Control
(IPPC) Directives**

**DIRECTIVE 2007/60/EC OF THE
EUROPEAN PARLIAMENT AND
OF THE COUNCIL
of 23 October 2007
on the assessment and
management of flood risks**

Article 1 The purpose of this Directive is to establish a framework for the assessment and management of flood risks, aiming at the reduction of the adverse consequences for human health, the environment, cultural heritage and economic activity associated with floods



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PROGRAM DE COOPERARE TRANSFRONTALIERĂ

**DIRECTIVE 2000/60/EC OF THE
EUROPEAN PARLIAMENT AND
OF THE COUNCIL
of 23 October 2000
establishing a framework for
Community action
in the field of water policy**

Decisions should be taken as close as possible to the locations where water is affected or used. Priority should be given to action within the responsibility of States through the drawing up of programmes of measures adjusted to regional and local conditions.

**DIRECTIVE 2007/60/EC OF THE
EUROPEAN PARLIAMENT AND
OF THE COUNCIL
of 23 October 2007
on the assessment and
management of flood risks**

3) It is feasible and desirable to reduce the risk of adverse consequences, especially for, the environment, cultural heritage, economic activity and infrastructure associated with floods. However, measures to reduce these risks should, as far as possible, be coordinated throughout a river basin if they are to be effective



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**DIRECTIVE 2000/60/EC OF THE
EUROPEAN PARLIAMENT AND
OF THE COUNCIL
of 23 October 2000
establishing a framework for
Community action
in the field of water policy**

(14) The success of this Directive relies on close cooperation and coherent action at Community, Member State and local level as well as on information, consultation and involvement of the public, including users.



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PROGRAM OF COOPERATION TRANSFRONTALIERĂ



**DIRECTIVE 2007/60/EC OF THE
EUROPEAN PARLIAMENT AND
OF THE COUNCIL
of 23 October 2007
on the assessment and
management of flood risks**

6) Effective flood prevention and mitigation requires, in addition to coordination between Member States, cooperation with third countries. This is in line with Directive 2000/60/EC and international principles of flood risk management as developed notably under the United Nations Convention on the protection and use of transboundary water courses and international lakes,

**DIRECTIVE 2000/60/EC OF THE
EUROPEAN PARLIAMENT AND
OF THE COUNCIL
of 23 October 2000
establishing a framework for
Community action
in the field of water policy**

(40) With regard to pollution prevention and control, Community water policy should be based on a combined approach using control of pollution at source through the setting of emission limit values and of environmental quality standards.



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PROGRAM DE COOPERARE TRANSNATIONALĂ



**DIRECTIVE 2007/60/EC OF THE
EUROPEAN PARLIAMENT AND
OF THE COUNCIL
of 23 October 2007
on the assessment and
management of flood risks**

(12) In order to have available an effective tool for information, as well as a valuable basis for priority setting and further technical, financial and political decisions regarding flood risk management, it is necessary to provide for the establishing of flood hazard maps and flood risk maps showing the potential adverse consequences associated with different flood scenarios, including information

**DIRECTIVE 2000/60/EC OF THE
EUROPEAN PARLIAMENT AND
OF THE COUNCIL
of 23 October 2000
establishing a framework for
Community action
in the field of water policy**

Article 5 Characteristics of river basin district review of environmental impact of human activity & economic analysis of water use

1. Each Member State shall ensure that for each river basin district or for the portion of an international river basin district falling within its territory:

- an analysis of its characteristics,
- a review of the impact of human activity on the status of surface waters and on groundwater,



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PROIECTUL COOPERĂRII TERESTRE

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**DIRECTIVE 2007/60/EC OF THE
EUROPEAN PARLIAMENT AND
OF THE COUNCIL
of 23 October 2007
on the assessment and
management of flood risks**

(12) In order to have available an effective tool for information, as well as a valuable basis for priority setting and further technical, financial and political decisions regarding flood risk management, it is necessary to provide for the establishing of flood hazard maps and flood risk maps showing the potential adverse consequences associated with different flood scenarios, including information on potential sources of environmental pollution as a consequence of floods. In this context, **States should assess activities that have the effect of increasing flood risks**

ДСТУ 3910-99
(ГОСТ 17.9.1.1-99)

ДЕРЖАВНИЙ СТАНДАРТ УКРАЇНИ

ОХОРОНА ПРИРОДИ
ПОВОДЖЕННЯ З ВІДХОДАМИ
КЛАСИФІКАЦІЯ ВІДХОДІВ

Порядок найменування відходів
за генетичним принципом
і віднесення їх до класифікаційних категорій

ОХРАНА ПРИРОДЫ
ОБРАЩЕНИЕ С ОТХОДАМИ
КЛАССИФИКАЦИЯ ОТХОДОВ

Порядок наименования отходов
по генетическому принципу
и отнесения их к классификационным категориям

NATURE PROTECTION
WASTE TREATMENT
WASTE CLASSIFICATION

Order of waste denomination
according to their genesis
and their reckon with classification categories

Чинний від 2001-01-01

ВІЯВЛЕННЯ ВІДХОДІВ
І ПОДАННЯ ІНФОРМАЦІЙНИХ ДАНИХ
ПРО ВІДХОДИ

Загальні вимоги

ОХРАНА ПРИРОДЫ.
ОБРАЩЕНИЕ С ОТХОДАМИ

ВЫЯВЛЕНИЕ ОТХОДОВ
И ПРЕДСТАВЛЕНИЕ ИНФОРМАЦИОННЫХ ДАННЫХ
ОБ ОТХОДАХ

Общие требования

NATURE PROTECTION
WASTE TREATMENT
WASTE DETECTION

AND SUBMISSION OF THE INFORMATION
DATA ABOUT WASTE

General requirements

using actual in UA & MD
Standards harmonized
with AC

ДСТУ 2195-99
(ГОСТ 17.9.0.2-99)

ДЕРЖАВНИЙ СТАНДАРТ УКРАЇНИ

ОХОРОНА ПРИРОДИ.
ПОВОДЖЕННЯ З ВІДХОДАМИ

ТЕХНІЧНИЙ ПАСПОРТ ВІДХОДУ

Склад, вміст, виклад
і правила внесення змін

ОХРАНА ПРИРОДЫ.
ОБРАЩЕНИЕ С ОТХОДАМИ

ТЕХНИЧЕСКИЙ ПАСПОРТ ОТХОДА

Состав, содержание, изложение
и правила внесения изменений

NATURE PROTECTION
WASTE TREATMENT

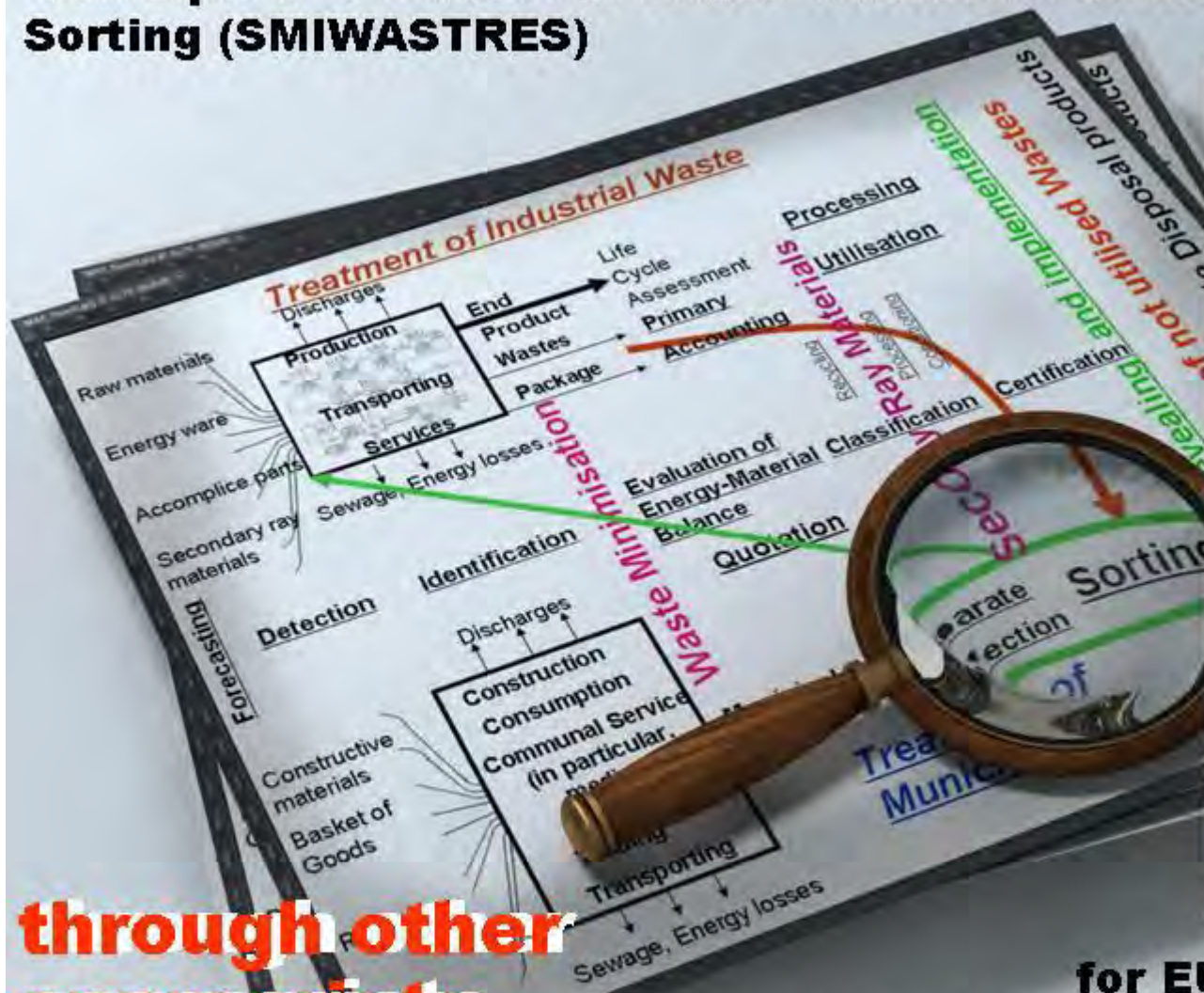
TECHNICAL CERTIFICATE OF WASTE

Make-up, content, writing
and alteration rules

Чинний від 2001-0



Transfrontier collaboration for establishment of efficient System for Municipal and Industrial Waste Treatment on the basis of their Sorting (SMIWASTRES)



through other appropriate EUSDR priority projects,
EcoResource



for EUSDR principal project Cross-border cooperation on establishment of effective system of sorting waste products, farm waste and municipal waste on the base of the best available techniques (BAT)"

which provide step-by-step transformations



FROM DISPARITY



**TO CONVERGENCE
OF REGIONAL
ENVIRONMENTAL &
ANTHROPOGENIC
SPHERES**

These developments of GIS grounded integrated Water Policy – Flood Risks – Pollution Prevention Management can serve as a basis for synergic transfrontier & national projects selection & implementation accordingly to common priorities of EUSDR, Alpine & Carpathian Conventions and other available international toolkits for Sustainable Regional Development

see examples of binding projects & initiatives, which simultaneously answering to EUSDR Priority Areas (PA) & Carpathian Convention Articles (Art)



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CROSS BORDER COOPERATION

TEN-T completion by Via Carpathia and Transit path Ukraine

PA 1 - Art. 5, 8

Energy Save Transit

PA 2 - Art. 10

Production

CHERISH JOINT HERITAGE

PA 3 - Art. 9, 11

WATER RESOURCES

PA 4 - Art. 6

EAST AVERT

PA 5 - Art. 5, 12

SWOT of Forestry - Wood Life Cycle

PA 6 - Art. 4, 5, 7

PA 7, 9 - Art. 13

ENERGY PRODUCTION TRANSIT

TRANSIT MULTIREGIONAL COOPERATION

TOURISM RECREATION

AGRO PRODUCTION PROCESSING

MUNICIPAL DEVELOPMENT SERVICES

FOREST - WOOD REVENUE PROCESSING

PA 8, 10 - Art. 5

BORDER CROSSING POINTS MODERNIZATION

PA 11

Examples of Acquis Communautaire acts, foreseen by the EU Association Agreements with UA & MD, which implementation mechanisms can be fine-tune through appropriate projects under the EUSDR Priority Areas

<p>(EC)1315/2013 on Union guidelines for development of TEN-T 91/440/EEC on the development of the Community's railways 2001/14/EC on the allocation of railway infrastructure capacity 2008/57/EC on interoperability of the rail system</p> <p style="text-align: center; color: green; font-weight: bold;">PA 15</p>	<p>(EC) 1228/2003 on conditions for access to network for cross-border exchanges 2006/32/EC on energy end-use efficiency and energy services 2004/8/EC on the promotion of cogeneration</p> <p style="text-align: center; color: green; font-weight: bold;">PA 2</p>	<p>Association Agreement between European Union and its Member States and Ukraine TITLE V ECONOMIC AND SECTOR COOPERATION CHAPTER 16 TOURISM CHAPTER 24 CULTURE</p> <p style="text-align: center; color: green; font-weight: bold;">PA 3</p>
<p>2000/60/EC establishing a framework for Community action in the field of water policy 91/271/EEC on urban waste water treatment 98/83/EC on quality of water intended for human consumption</p> <p style="text-align: center; color: green; font-weight: bold;">PA 4</p>	<p>2007/60/EC on the assessment and management of flood risks 91/676/EC concerning the protection of waters against pollution; 96/82/EC on control of major accident hazards involving dangerous substances</p> <p style="text-align: center; color: green; font-weight: bold;">PA 5</p>	<p>2008/98/EC on waste 2006/21/EC on the management of waste from extractive industries; 2010/75/EU on industrial emission (integrated pollution prevention and control)</p> <p style="text-align: center; color: green; font-weight: bold;">PA 6</p>
<p>Association Agreement between European Union and its Member States and Ukraine Title V Economic & Sector Cooperation CHAPTER 9 Cooperation in Science & Technology CHAPTER 23 Education, Training, & Youth</p> <p style="text-align: center; color: green; font-weight: bold;">PA 7, 9</p>	<p>Association Agreement between European Union and its Member States and Ukraine TITLE V ECONOMIC AND SECTOR COOPERATION CHAPTER 10 INDUSTRIAL AND ENTERPRISE POLICY</p> <p style="text-align: center; color: green; font-weight: bold;">PA 8, 10</p>	<p>Association Agreement between European Union and its Member States and Ukraine Article 16 Cooperation on migration, asylum and border management</p> <p style="text-align: center; color: green; font-weight: bold;">PA 11</p>



**CONSILIUL EUROREGIUNII
„PRUTUL DE SUS”
REZOLUȚIA Nr. 85-R**

**„Cu privire la integrarea activității
Euroregiunii „Prutul de Sus”
în Strategia UE pentru regiunea
Dunării**

mun. Bălți

14 mai 2014

**РАДА ЄВРОРЕГІОНУ
«ВЕРХНІЙ ПРУТ»
РЕЗОЛЮЦІЯ № 85-R**

**«Про інтегрування діяльності
Євро регіону «Верхній Прут» до
Стратегії ЄС для Дунайського
регіону»**

м. Бєльш

14 травня 2014 року

Conducându-se după art. 3-6 și 8.1 din Acordul privind crearea Euroregiunii „Prutul de Sus”, capitolul 8 din Statutul Euroregiunii, Declarațiile Summit-urilor de la București ale celor 14 țări din regiunea Dunării din 30.04.2001 – pentru mediu și dezvoltarea durabilă a regiunii Carpato-Dunărene și din 08.10.2010 și Concluziile Consiliului UE din 13.04.2014 privind Strategia UE pentru regiunea Dunării (în continuare – EUSDR), Consiliul Euroregiunii însărcinează pe Președintele în Exercițiu al Consiliului:

1. de comun acord cu membrii Euroregiunii să înainteze propuneri către guvernele celor 3 țări privind:

1.1 selecția și promovarea comună prin lobby a proiectelor transfrontaliere fundamentale, care corespund domeniilor prioritare ale EUSDR, inclusiv ținând cont de experiența părților ucraineană și română conform Convenției-cadru privind protecția și dezvoltarea Carpaților (în continuare – Convenția Carpatică);

1.2 oglindirea la următorul Forum EUSDR de la Viena (Austria) din 26-27 iunie 2014 a inițiativelor de susținere cu prioritate a unor astfel de proiecte prin instrumentele disponibile ale politicii regionale și politicii de vecinătate a UE și de extindere a proiectelor similare și asupra bazinului râului Nistru;

Керуючись положеннями статей 3-6 і 8.1 Угоди про утворення Євро регіону «Верхній Прут», розділу 8 Статуту Євро регіону, Декларацій Бухарестських Самітів 14 країн Дунайського регіону від 30.04.2001 - з довідки і сталого розвитку Карпатсько-Дунайського регіону і від 08.10.2010 та Висновків Ради ЄС від 13.04.2014 - щодо Стратегії ЄС для Дунайського регіону (надалі EUSDR) Рада Євро регіону доручає Виконавчому Голові Ради:

1. узгоджено з членами Євро регіону внести пропозиції до Урядів 3-х країн:

1.1 щодо спільного відбору та лобювання ключових транскордонних проектів, які відповідають пріоритетним сферам EUSDR, а урахуванням також напрацювань української та румунської сторін за Рамковою конвенцією із захисту та сталого розвитку Карпат (надалі Карпатська конвенція);

1.2 щодо висвітлення на черговому Форумі EUSDR у м. Відні (Австрія) 26-27 червня 2014 року ініціатив щодо пріоритетної підтримки таких проектів наявними інструментами регіональної політики і політики сусідства ЄС та про поширення дії таких проектів також і на басейн р. Дністер;

These prospective opportunities for synergic EU association projects've stimulated initiative on spreading EUSDR activities also on the whole Dnister/Nistru basin in Ukraine and Republic of Moldova,

Lviv

Ternopol

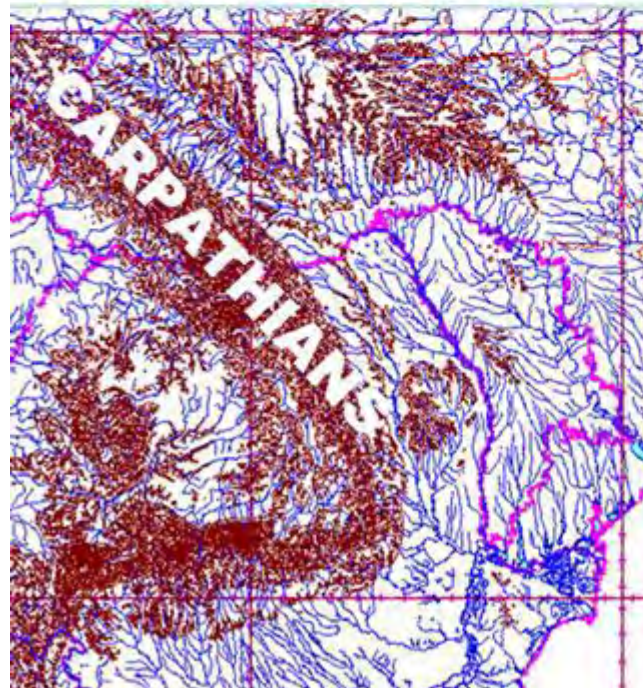
Khmel'nitsky

Vinnitsa

**Oblasts of
Ukraine**



**which find wide support on
the III Annual Forum of
EUSDR in Vienna
(25-27 of June 2014)**



**Basins of
longest
Danube
tributaries
in Ukraine:
TISA
PRUT
& SIRET
+ DELTA**



For this approach further discussion, as a toolkit for acceleration of Acquis Communautaire implementation in Ukraine and Republic of Moldova, we propose to organize on the East Avert platform for key regional stakeholders, national and international experts the

INTERNATIONAL CONFERENCE
“East Avert - promoting integrated
★ Management for Water Policy,
★ Flood Risk and Pollution Prevention
in Ukraine and Republic of Moldova”

CHERNIVTSI, Spring 2015



Programme funded by the
EUROPEAN UNION



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Romania-Ukraine-Republic of Moldova

CROSS BORDER COOPERATION



**bringing
together
opinions
of public
society,**



**professionals
& authorities**



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10.10.2012



Офіційний веб-портал



EAST AVERT

Thanks for your attention!

zinoviy.broyde@gmail.com

