

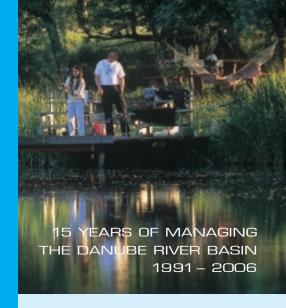
OR MORE INFORMATION ABOUT

E DANUBE REGIONAL PROJECT, PLEASE CONTACT

UNDP I GET DANIUSE REGIONAL PROJECT
Vienna International Centre, PO Box 500, A-1400 Vienna, Austria
www.undp.drp.org

Philip Waller, Executive Secretary INTERNATIONAL COMMISSION FOR THE PROTECTION OF THE DANJUSE RIVER Visiona International Centre, PO Box 500, A-1400, Visiona, Austria

Rost by Paul Csagoly Design by 7 • Wahningerstrasse 48/7 • A-1090 Vienna, Austri











# FOREWORD WIN WIN DANUBE RIVER BASIN MANAGEMENT

In 2007, the first international Waters regional programme to have received funding from the Global Environment Facility (GEF) will end. Ingested in the Danube River Beain and begun in 1991, this programme is a flegship model of good practice for applying integrated river basin management (RBM) to other transplandary view basin smooth the dock.

Before massive political changes transformed Control and Enterten Europe. Distruct countries had experienced minimal IRBM collaboration. After 1980, the need for increased coperation and political will be up the nontrienting for IRBM because class. The Danuba was not only the most international river beauting the control of the control of the control of the control of the political polit

From the start, international donor interventions were essential as a catalyst for progress, especially from GEF/UNDP and the European Commission. Nitial efforts focused on assessing information, building capacities and institutions and supporting the creation of the legally binding Danube River Protection Convention.

In time, the accession of many of the Danuble contributes to the EU and the requirement that they fulf EU directions [based] became the main drivers and incentives for improved multi-country (SRM) in the Danuble Basin in addition to the lay trans-boundary concerns related to GEF-Anded interventions. After 2000, the main priority of the Danuble Donverticin's implementing body, the interventional Commission for the Protection of the Danuble River (IDCRI) created in 1998, become the implementation of the EU Motor Fernances (Treatment 1998).

The interventions of GEF\_UNDOP continued to be critical in helping to drive the accession process and in fulfilling Damable country obligations, from enhancing the IPBM capacities of institutions to advising on national legislative reform to testing better agricultural processes and supporting public participation. Clearly, after 15 years of IPBM development in the Damable Basin, a win-value students had resulted between the CEF\_UNDOP\_UPDOP, EU and the Damable countries and their develope peoples.

This document presents the key political decisions made and heir results – from the development of new programmes, institizions and the convention to environmental progress. Lessons learned in applying IRBM will be presented with the hope of their transferability to other basins, as will the Danube outlook for the next 15 years.

Shaped by two institutions that took a lead role in facilitating the containt of an IRRM framework for the Durabe, this document celebrates the upcoming and and outputs of GEF-UNDP efforts in the Dambe Blass). It also presents the strong distors for the future work of the DPDR which is sure to achieve progress in managing this intermotionally shared interest and continue providing valuable leasons learned for other intermational work of the control waters providing valuable leasons learned for other intermational works or provided.

RIS Waller

Philip Weller Executive Secret Alfred Dude Senior Advisor, International Waters GEF Secretariat





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# DANUBE RIVER BASIN



# THE MOST INTERNATIONAL RIVER BASIN IN THE WORLD



# THE MOST INTERNATIONAL RIVER BASIN IN THE WORLD

### GEOGRAPHY

The Danube River Basin is Europe's second largest with a total area of 801,483 km². Now including the territories of 19 countries, it is the world's most international river basin. It is also home to 81 million people with a variety of languages and historical backgrounds.

The Canube River stretches 2,780 km from Germany's Black Forest to the Gambe Delta Causties other-inver driven the basin riso the Danube River such as the first River in Austrian and Germany. The Morrors in the Caro-Reguldic, Austrian and Germany, the Morrors in the Caro-Reguldic, Austrian Stookler, the Taza in Hungary, Romania, Stookler, Serbia and Ulrarine; the Salva in Blownisi, Crostal, Searia and Herengaria, Serbia and Montenegor; and the Prut. River in Romania, Middows and Ulrarine.

The basis is divided into upon, middle and lower basins. The Upper Basin centerfor from the source of the Chande in Germany to Brestelane, Stonkia. The Middle Basin is the largact, extending to the dams of the lonn Gaze Borge on the border between Bertale and Remansi. The lowlands, plateaus and mountains of Romania and Bugaries form the Lower Basin. Finally, the nine dubbles into the three main brunches of the Danuka Data, with an area of about 6,750 sq lim., before entering the Black Sea.



### NUMBER IN A COURT

The basis shows a tremendous disensity of habitats and ecosysstems through which rivers and streams flow including glicisstem through which rivers and streams flow including glicisted high gradient mountains, forested mildsed mountains and his, spland plateaus and plates and wet toderalds near sea look. Some remain relatively uttached with species and habitats of catastanding coolingial value, constakting a unique heritage to be greatment. In many cases, the level of biodiversity is higher in the lower contents of the sixth.

Roodplain forests, marshinds, debas, floodplain corridors, lakeshrons and other wetlands are sensential components the basin's biodiversity and hydrology. Many are transboundary in nature and represent valuable divising water reserves for millions of people. The 675,000 he Danués Debas is the important wetland in the basin and is a transboundary UNESDO World Hertage Size and Man and Sicophere Reserve.

# HUMAN IMPACTS

Over the last 150 years, Danube aquatic ecosystems, blodversity and water quality and quantity have been significantly impacted by human activities. For example, some 60% of the Danube's wetlands and floodplains have been lost since the end of the 15th century, threatening habitats of key species such as pelcans in the Danuble Delta and beavers in the Upper Danube.

Pollution remains a serious problem, especially from organic substances and nutrients. In the 1970s and 1980s, excessive nutrient; pollution resulted in a severe ecological imbalance in, and the large-scale eutrophication of, tens of thousands of sq.km of waters in the western Black Sea, as the depiction of oxygen decreased biodiversity and worsened water quality.

A large proportion of this originated from the Danube Basin through agriculture, municipal westewater (human waste and detergenta) and industry. Toxic substances are a key threat, made worse by mining and chemical accidents. The occurrence and neoable impacts of floods continues to increase in the recion.



tion, groundwater exploitation and climate change also pose key threats to the Danube environment.

The significant decline in industry and farming following the

policial transition after 1989 reduced human pressures on the Dunche Basin and the Black Bea. However, the potential for pollution to increase as economies recover still requires introducing good presticos that minimise the impacts of flavoring and productions that minimise the impacts of flavoring extending the production that minimise the impacts of passance of waster-water treatment prairies in the middle and lower Danube countries also still pose a significant threat.

# Given the complexity of the Danube River Basin - the many

countries, differences in economic performance, biological assets, past damages and continued threats from human impacts – it was clear that one overall framework or mechanism was required to sustainably manage the basin environment.

Increasingly, "integrated river basin management", otherwise known as IRBM, gained acceptance as the primary mechanism to address the issues and their impacts.







# THE DANUBE'S 'MANAGERS'

From 1991 to 2006, major efforts were made by the following Danube 'managers' to help lay the foundations for IRBM in the Danube Basin: Danube country governments, ICPDR, GEF/ UNDP EU and NGOs.

# DANUBE COUNTRY GOVERNMENTS

The following 13 countries are all "Contracting Parties! to the Danuble River Protection Convention: Austral, Bosini and Herregovina, Bulgaria, Crossia, the Caech Republic, Germany, Hungary, Middow, Romania, Slowenia, Slowelia, Sorbia and Mortanegro and Ulivaine. In 2005, Serbia and Mortanegro divided rich two countries — efforts are now morteway to secure the accession of Mortanegro to the Convention.

# THE INTERNATIONAL COMMISSION FOR THE PROTECTION OF THE DANUBE RIVER

The intermination Commission for the Protection of the Clausel Per (IPSPR) is a removal to locate PI, 1988 to conser the custameter and equation use of water and refundant recovers in the Dunnel Beam is it invariant to reprince the Dunnel Beam is it is marketed to reprisent the Dunnel Beam is it is marketed to reprisent the Dunnel Beam is invariant to represent the Dunnel Beam, as well as the Water the representation of the Dunnel Beam, as well as the Water Permisson's Dictoria for the Dunnel Beam, as well as the Water Dunnel Beam is the Dunnel Beam, as well as the Water Dunnel Beam is the Dunnel Beam, as well as the Water Dunnel Beam is the Dunnel Beam, as well as the Water Dunnel Beam is the Dunnel Beam, as well as the Water Dunnel Beam is the Dunnel Beam, as well as the Water Dunnel Beam is the Du

It is formally comprised of the Delegations of all Contracting Persians to the DIPC. Representations from ministries, civil society and the scientific community also cooperate in the ICDPR. Technical expert groups provide the ICPDR with technical linformation and strategic input. The Fernmaners Secretarist performs functions to administrar the Convention and realise the ICPDR programme.

### GEF/UNDP

The Global Environment Facility (EEF), established in 1991, helps developing countries, and those in economic transition, to fund projects that protect the global environment. Since 1991, (EEF has provided greates for more than 1,300 projects in 1.400 countries. The (EEF heternational Waters (IVI) focal area targests transitionarily vaster systems. Examples of concerns addressed include water pollution, protection of fishery habitats and balancing composing water uses.

GEF projects help countries to learn to work together on key transboundary concerns, set priorities for joint action and to implement those actions. It plays a catalytic role in helping nations make the full use of policy, legal and institutional reforms and investments necessary to address their complex concerns.

The Danube Basin was a first for GEF IVI – size of the first IVI regional programm? ever funded by the GEF in 1982. The United Nations Development Programme (UNDP), well established in the region before 1980, has implemented GEF projects supporting the Danube. Oher time, Danube Basin countries detrified reducing nutrient pollution as one of the basin's key transboundary water concerns.











# EUROPEAN UNION

The European Union (EU) has been a main driver for IRBM in the Danubs since 1981. The European Commission (EC) is also an original Contracting Party to the DRPC. As time went by, EU accession and the fulfilment of the EU's environmental directives became, as it is today, the main driving force for environmental change in the Danubs Basin.

While Germany was one of the founding members of the EU, Aurities acceled in 1995. Most of the post communical Brauke states began processes to join the EU axon after transition began processes to join the EU axon after transition countries principled and 1996. In 2001, for Danubles Blassin and Slossia. The once Danuble countries, Belgaria and Peramasi, principle 1,000. The countries is private in 2001 and the player EU axosses more Danuble countries. Belgaria and Peramasi, private in 2007. Creates applied in 2002 and the player EU axosses more Eularia countries in 1,000 and the EU axon player. EU axosses more of Eularia and the EU axon The for Cambac countries in 1,000 and the EU axon Mortanego, Ularnies and Middoon have not yet made any formal application so access to the EU.

Membership to the EU obligas a country to fulfil the EUs package of laws or "fleedeviest", including environmental directives. The first step is for a country to develop institutional capacity and harmonise EU laws. The second is implementation, a costly process and one where meeting environmental directives has been the most expensive.

EU water protection legislation came in three waves. The first wave, starting in 1975, set brinding water quality targets for drivining water and other uses and limits on emissions. The second wave in the early 1990s is to to the L'han Wister Water Treatment Derective (LIWWT) and Westers Derective. The third wave in the min'1990s resulted in the Water Framework Treatment Operating (LIWWT) and Wester Derective (1998).

In response, significant technical and financial support for the accession process came, and continues to come, from international donors such as GEF/UNDP and the EC.

In December 2000, the EU adopted the WFD - a new and effective tool for water management. The operational tool of a thronoughly restructured European Water Policy, it sate objectives for water protection well into the 21st century and is seen by many as the strongest water protection legislation in the world.

Covering surface and ground seaters (fresh, treatboard and constall, it am to surface a good state for ell Ecropsen souther, and comparem by 2015. It obliges Member States was consistent to \$2.015. It obliges Member States and accession concentrates to use a river being approach for managing useful reconstance. It requires cross-form cooperation of entouragement desidentification cooperation, with 100th and board obtains included. It also obliges are very EU new texts of the contraction of the contract

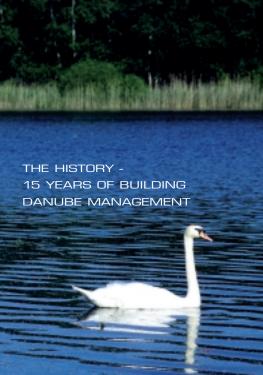
### DANUBE NGO:

Prior to 1990 in the former communist countries, civil society representation and non-governmental organisations (NGOs) were almost non-existent. Upstream, Germany and Austria experienced NGO participation in environmental decisionmaking and as government and private sector 'watchdogk'.

After 1991, international NGOs such as WWF began to participate in Danuborelated matters. National and local Danubo NGOs also began to take shape to the point that NGOs were involved in key decisions and programmes from the start, shaning the table with Danubo country governments, GEF/UNDP and the EC.

With time, the Danube Environmental Forum (DEF) was created and is today the umbrella organisation for the largest network of NGOs in the Danube Basin with 174 member orga-





# THE HISTORY 15 YEARS OF BULDING DANUBE MANAGEMENT

# KEY POLITICAL DECISIONS

From 1991 to 2006, Danube countries, international organsations and other partners negotiated key political decisions that led to agreements, conventions and work programmes based increasingly on FBM approaches. The result of these was a number of institutional and environmental outputs and achievements.

### 1001 - 2000

In 1985, Danube countries had agreed on the 'Bucharest Declaration on Water Management of the Danube River' to coordinate water management activities. The goals were ambitious but the political and economic situation in the region at the time hindered effective implementation.

Not long after the massive regional political changes affected Central and Eastern Europe (CEE), the idea to create a Tanube River Protaction Convention (DRPC) was supported by Danube countries at the first UNECE 'Environment for Europe' conference held at the Dobris Casatie in the Czech Republic in June 1991.

Building on this momentum, 24 countries, GEF/LNDP Eta next NDDs met in Solis, Builprain in Segumber 1981 to plan ext staps. The result was the birth of the jointly agreed Environmental Programme for the Danube River Basin (EPDRE), a fremework initiative for regional cooperation in water management that would initiate priority studies and actions supporting the establishment of the DRPC.

The EPDRB was managed and mainly funded by the EU Phare Multi-Country Programme for Environment and UNDR which planned to draw funds from the emerging Global Environment. Facility (GEF) to implement EPDRB activities. The EPDRB was extremely important in that it was the first regional programme ever to be accrowed by both covariastions. The need for a DRPC was turther driven by Danube countries becoming Persies to the new UNDEC Convention on the Protection of Trensboundary Rivers and Lakes signed in Helistini in March 1982. It obliged Persies to prevent persion boundary impacts on watercourses and encouraged them to cooperate through river hashin management agreement, in effect, the Helistin's Convention' would become the basis for the Tiber.

On June SB, 1994 in Stells, Bulgers, 11 Durabe courses (Junetins, Bulgers, Contest, the Center, Bergales, Germany, Hungary, Motione, Romans, Bookels, Bloomia and Ultraval) and the Ellingeth of PSPCE: Elections the countle light fromework for protecting and statistically using water and other handed ecologies! Interesting the Stell Stell Stell June 1994 and Stell June 1994 and Stell for the Protection of the Durabe Rev (EOPR) and the Protection of the Durabe Rev (EOPR) and the 20000, the OPPR, chiefly through its Expert Concept. Coopertre of the Protection of the Stell 2000, the OPPR, chiefly through its Expert Concept. Coopertre of the Stell PSPC 1995 of the Stell 2000, the OPPR, chiefly through its Expert Concept. Cooper-





In 2000, the EPDRB officially ended. This proved to be a major milestone whereby the lead in managing the Danube Basin shifted from donors to the ICPDR and the Danube countries themselves, with GBF/UNDP support.

Also in 2000, the ICPOH heads of National Delegations agreed to the total representation of the ILLE Water Fermions of the Click Water (IVPCI) should become the highest privity for the ICPOH for the IVPCI should become the highest privity for the ICPOH for the third in IVPCI should become the highest privity for the ICPOH for the third is IVPCI should become the IVPCI should be IVPCI for the IVPCI should be their last commitment to back the addition, including members are of the IVPCI should be IVPCI should be IVPCI should be IVPCI should be their last the IVPCI should be IVPCI shoul

Begun in 2001, through its Danube Regional Project (IRPA). GEF/LINDP contributed to support the ICPOR with its EMPL efforts and in strengthening cooperation between Danube countries. A second key focus of the ICPP was on reducing nativest politicis in the Danube Basis and thereby the ecologically damaged Black Sea. The ICPP and significant visionment of the GEF/LINDP in Danube Basis management and in 2007.

Internal conflicts between some of the former nations of Vigodalaia prevented their formal participation in either the DIRPC or ICPDR processes. After the wers, the DIRPC work into force in Serbia and Montanegro in 2003 and in Bosnia and Alteragoniva in 2005. By 2005, all of the Danube Basin's 13 biggest countries had become Parties to the DIRPC.





# PROGRAMMES

# 1991 - 2000

The first programmes from 1991 to 2000 were primarily down-driven by institutions such as GEF/LINDP and SEE European Commission (ECI, hi September 1991, following their European Commission (ECI, hi September 1991, following their Danube River Basin (EPORBI), participants at the Selfer meeting of Danube River Basin (EPORBI), participants at the Selfer meeting of the Selfer Basin (EPORBI), participants at the Selfer meeting of the Selfer Basin Selfer Selfer (EPORBI) participants at the Selfer sel

The main role of the Task Force was to support the programme until the earlier proposed DRPC came for effect. The EX, estated to shirt the Task Force, was seen as a neutral party that could guarantee a balance of Internets between upstream Demake countries and economically weaker downstream cross. EX participation was also seen by many countries in transition as a claser signal that they would be included in the filters enlargement of the EU, thereby adding incentive to their active previouslation.

The PCU was established to coordinate and implement the EPDRB and support the Task Force. A new venture for international operations, it was jointly managed and funded by GEF/UNDP and the EU.

The programme goal was to establish an operational basis for strategic and Integrated management of the Danube Basin environment, focusing initially on priority environmental issues. It was intended to collect all available information and fill gaps, abull relativors for cooperation, and carry out institutional strengthening and capacity building activities to set the stage for later implementation and investments.

The main activities for the PCU included support for water quality monitoring, early warning systems for accidents, information management, donor coordination and establishing an effective NGO network.

By 1994, denors and countries were anxious to move from planning to implementation. To fill the gap, a Strategic Action Plan (SAP) would identify objectives, targets and priority actions and give overall strategic guidance – no easy job, as there was no global precedent in preparing a SAP for a large multi-country river basin programme.

In Documber 1994 in Bucharier, Danuber ministers and the EC acceptant the SRP for far strategy goals were: the improvement of aquatic ecceptations and biodiversity in the basis and the reduction of pollution loads entering the Back Sac, maintaining and improving the quantity and quality of water; control of damage from accidental legist, and the development of regional cooperation in water management.

The necessary measures needed to meet the above goals were: construction of municipal sewer systems and wastewater treatment plants; reductions of industrial wastewater, harmful substances from agriculture and the risks of accidents; restoration of wetlands and floodplains; and integrated water management.

Working in cooperation with the new ICPDR, the SAP led to two main projects: the GEF/UNDP-led Danuba River Basin Pollution Reduction Programme (DPRP) and the Phare-led Strategic Action Plan Implementation Programme.

DPRP efforts led to the preparation of the first GEF Transboundary Diagnostic Analysis' (TDA) for the Danube Basin with a focus on nutrient pollution. This analysis would become an important building block for subsequent Danube analyses.

### 2000 - 2006

As planned back in 1991, the Danube PCU and EU Phare programme for the Danube ended when the Danube Convention went into force and responsibilities were handed over to the new ICPDR Secretariat.

In 2000, the results from the EPDRB and the Danube River Basin Pollution Reduction Programme were transferred to the IDPDR to prepare its Joint Action Programme (JAP). The JAP, corresponding to a Strategic Action Plan' in GEF terminology, built on the GEF TDA prepared earlier in 1999.

The LMP outlined the steps to be taken between 2001 and 2005 to achieve the DPPCs environmental objectives. They included measures to reduce water pollution, promote nature conservation and restore ecosystems. Joint action by countries was seen as essential to reduce the flow of pollutaris from agricultural, domestic and industrial sources into the Donube and Black See.

Also in 2000. Danket courters had agreed that the first propring of the DPGR for the coming yourse should be implementated on of the EU Water Foremouse Dructure (WFE) using RRMs as the gading agreement. White the removalescent courters of floating and reference of the courter of the courter of floating and reference of the courter of the courter of the courter of floating and reference of the courter of the courter of the floating and the courter of the courter of the courter of the floating of the CPD removales of the courter of the courter of the CPD representation. By this discission, the strends for the most Floating of the CPD removales of the courter of the courter of the CPD representation of the courter of the CPD removales of the CPD representation of the CPD removales of the CPD removales of the CPD representation of the CPD removales of the CPD removales of the view of the CPD removales of the CPD removales of the CPD removales of the view of the CPD removales of the CPD removales of the CPD removales of the view of the CPD removales of the CPD remova

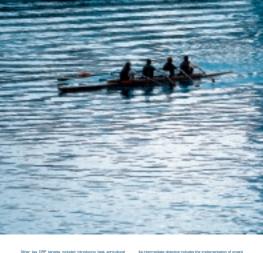
The first key deadline to be met, in 2004, was the development of the Danube River Basin Analysis, the first comprehensive characterisation and pressure/impact analysis of the entire basin, and the biggest step towards developing the Danube River Basin Management Plan (DRRHP) by 2008. By 2006, the WFD required the establishment of an international mortion network, and by 2015, the method of the VFD delections.

The DRBMP will include information on the: characteristics of the Danube Basin; significant pressures and impacts of human activities on the status of surface water and groundwater; monitoring networks; environmental objectives; economic analysis of water use; programme of measures; and public information and consultation measures taken.

The Danke Black Bas I has From (DABLAS) was set up in 2001 to provide a plant from cooperation or neares the protection of water and water-related acosptame in the Danke CHOPR Secretaria. Black Sea Commission, International Principle Institution (Black Sea Commission, International Principle Institution (Black Sea Commission, International States, other International Commission, International States, other International Commission in International Commission International Commission (Black Sea Commission). International Commission International Commission (Black Sea Commission) in International Commission (Black Sea Commission).

On December 1 2001, the Neywor Danube Regional Project (DIPP) was launched to be supplied of EPI/MDP longstomer support for FRBM in the Danube Blasin, executed through LIDPOR. Its man goal was to strengthen the capacity of the LIDPOR and Danube countries to copperate in fulfilling their commitments to implement the Danube Convention and ELI WORD. It would baild on the GEF TIDA proposed in 1999 and the LIDPOR AND 60000 to high develop the 2000 C fanube. Per Blasin Analysis and eventually the Danube River Blasin Management Plan.

Reducing nutriesr polition was especially important for the DIPP given the expended interest of GET in househouse users, DIPP given the expended interest of GET in househouse users, phastian problems in the Black Sian. Furthermore, nutriesr, reduction activities usual benefit all Dusable countries given the fact that nutriesr polition was one of force by issuess that Dunable countries related in not being able to meet the VRTP's requirments. Contries were also obligat to refuse the VRTP's requirments. Contries were also obligat to refuse the VRTP's requirments. Contries were also obligat to refuse the VRTP's requirted to the value of the VRTP's requirements. The value of the VRTP's requirements of the VRTP's requirements. Contries were also obligated to the value of the VRTP's requirements. Outside some also obligated to the VRTP's requireted to the VRTP's requirements. The VRTP's requirements are also obligated to the value of the VRTP's requirements. As the VRTP's requirements are also obligated to the value of the VRTP's requirements. The VRTP's requirements are also obligated to the value of the VRTP's requirements. The VRTP's requirements are also obligated to the value of the VRTP's requirements. The VRTP's requirements are also obligated to the value of the VRTP's requirements. The VRTP's requirements are also obligated to the value of the VRTP's requirements.



Uniter way Line\* targets included introducing best agricultural practices, conserving wetlands, improving the financial operations of water and wastewater utilities, reducing phosphate use in laundry detergents, improving public awareness and strengthening public participation and NGOs.

The DPP is part of the larger USD 885 million USF Strategic Partnership for Nariers Reduction in the Dambac-Black See Black see control 8001.1. It surptis assistance in Dambac land Black See countries to address translanding vocames from nariers polution. One of GEPs largest and perhaps most ambibias water-related projects in the world, its long-term objective is for countries to take measures to reduce nutrient. polution levist and other hazardous subdances to such levisle necessary to permit Black Sea ecospetents to recover to smaller continues as those observed in the 1900s. Its intermediate objective includes the implementation of urgent control measures by the countries to reduce nutrient discharges to the Black Sea to levels at or below those observed in 1997. The Pertnership also aims to put in place austrandels governace and investment formeworks to prevent the renewed ecosystem deterioration that might occur with sepected future economic improvement in DBB and Black Sea countries.

The Partnership includes three components. The first is the DRP The second is the Black Sea Ecosystem Recovery Project for the six Black Sea listoned countries. The third is the Insestment Fund for Nutrient Reduction implementate by the Vorlet Bank, general supporting single-country, single-sector insestment sub-projects for nutrient reduction as well as well-tend and foologish restoration.







# INSTITUTIONAL ACHIEVEMENTS

- 1 Meeting EU requirements
- 2 Mature regional coordinating institut
- 3 Water quality monitoring system
- 4 Accident early warning syste
- 5 Reducing pollution emissions
- 6 Reducing nutrient poll
- 7 Conserving wetlands
- 8 Enhanced public participation and communicat
- 9 Sub-basin IRBI
- 10 Flood managemen



# 1 MEETING EU REQUIREMENTS

As the years went by, accession to the EU and the fulfillment of the water protection legislation became the main drivers for improving Danube IRBM. Political and according incentives for environmental compliance thas applianmented requirements and abide by the Danube Convention. To date, many Danube coutries have already acceded to the EU, and others will pin soon. They are on truck in meeting most EU environmental directives.

A model example is the Davuke River Basin Analysis. Building on the earlier TDA and JAP exceptability coordinated by the IDPDR, completed in 2003 and delivered to the EU in Movert. DSOS, the analysis met the first algorithmat reporting requirement of the WFD. It includes the characterisation of surface waters and groundwater, an inventory of protected arrange an economic analysis, public participation activities and a future outlook.

to key conclusion was that pollution by organic, nutrient alterabanazionas substances, as well as hydromorphological atterations, are the ficure key water management issues in the basintion, are the ficure key water management issues in the basinfor- example, some 65% of the basin was found to be at mixof not meeting the WFDs objectives due to nutrient pollution. In effect, these issues became the focus for developing to RBMP by 2003, also now on track, and again coordinated by that ICPDR with GEFLANDP support.

The capacity of the Danube countries to contries to consultate to LEI Sa accession and legislative, challenges were significantly LEI Sa accession and legislative, challenges were significantly strengthment by all of the decisions, proprint 5 years of broth 5 y



Throughout the 15 years, GET/NIDP targeted interventions judged a catality-on in Indept on Dunchet countries and ICDPB to reach this state of readiness, including providing detailed information for the Dunche Analysis. A see sign of the wiven situation that had resulted between the GET/NIDP ICDPB, ICD and Dunche countries — in April 2005, the BLH pillyleted the ICPP as a modified for transcribing valeting opennance in its report to the U.N. Commission on Sustainable Development.

# 2 MATURE REGIONAL COORDINATING INSTITUTION

Since the creation, the ICPOR has grown into one of the largest, and most active international bodies of experts on IPSM in the world, promoting policy agreements and setting joint priorities and strategies to improve the basin. The permanent, financially sustainable body is now vital to maintaining continuity, momentum and country commitment.

All Danche countries have actively participated in CPDR expert groups. It has recoverage public percentaged in the production in its descriptation in its descriptation in the descriptation in the descriptation in the descriptation in the descriptation making, including representatives from acceleration, the private sector and NOLOs executives from acceleration, the private sector and NOLOs acceleration in the production of inputs from the production of inputs from a final floration contribution in the floration Fine Station Programme. 2004, annual Clarable Day versits, the Jost Action Programme.

The ICPDR also has a Memorandum of Understanding with the Black Sea Commission. This includes agreement on both sides to cooperate through a Joint Technical Working Group to monitor, and develop indicators for impacts from activities in the Danube River Basin on the Black Sea.

# 3 WATER QUALITY MONITORING SYSTEM

After the Bucharest Convention in 1985, a series of monitoring stations and a programme of sampling and analysis were created for the basin. Stations focused mainly on boundaries between nations and a limited range of chemical determinands.

After 1989, efforts focused on developing the Trans-National Monitoring Network (TNAN) and adding ampling status and determinants to be monitored. The main objective of TNAN was to provide an overall wise of pollution and long-term trends in water quality and pollution loads in the major invers of the Danube Basin. It would also ensure comparable data and techniques to exchange information in a common format.

Formally learnched by the ICPOR in June 1988 in Brateslass, Souvails, the TMNn network now comprises over 75 water quality monitoring stations. Libraristly, it gave decision-makers data to make the right policy and investment decisions to improve water quality. Monitoring upgrades supported by ICEFALIDP, will help ensure the TIMM will meet the WPD requirements, especially by breadening its scope to consider biologisal monitoring.





### 4 ACCIDENT EMERGENCY WARNING SYSTEM

The first stage of the Accident Emergency Werning System (LAKWI) use made opensible in April 1952. To objective use to enable indoors authorities to protect visiter users against accidental polition and other emergency stations. A web bease communication system ensures the quick transmission of messages between countries to the just Ambrides downstream put environmental and public safety measures stop action. In Juniury 2000, the ARWS proved highly effective in warring downstream countries of an approaching large cyanide split from Romania.

A data bank of dangerous chemicals and the Danube Basin Alarm Model assist experts to assess the environmental impacts of accidental pollution. In 2001, the first leg of the Accident Risk Spots Inventory was finalized by the ICPDR, encompassing operational industrial sites associated with a major risk of accidental pollution.

# 5 REDUCING POLLUTION EMISSIONS

was initiated in 1955 through the EPORB. Early successes included identifying the most significant types of water pollution; proparing insentionise of municipal, asynchrant and industrial discharges; making proposals for appropriate measures including guistence for the best available between prologies; a let of proring pollutants to be reduced or eliminated; and evaluations of the pollution leads from non-point sources (e.g., nutrients from agriculture).

The identification of measures to reduce polluting emissions

New production methods and technologies leading to reduced industrial pollution were implemented at three industrial hotspots including a leather tannery in Bulgaria, pulp and paper plant in Romania, and chemical plant in Slovakia.

The GEF\_UNIOP Danuble Pollution Reduction Programme later developed a Transboundary Diagnostic Analysis (TDA) of pollution loads in the basin and their effects. Main pollution sources were identified and a list of hot apote was divided. The programmer report of 1998 give an overall view of the most important on-going and planned measures for the reduction of solution in the basin.





# 6 REDUCING

The UPDIT's Joint Action Programme, with DABLAS support, prepared a prioritised list of investments for nutrient pollution reduction. The estimated total costs of these projects were in excess of 4,000 M USO with expected reductions of nitrogen emissions by 50 kilotoness/year and of phosphorus emissions by 9 kilotoness/year.

A model (MONERIS) was developed with support from Germany, the EC and GEF/UNDP to estimate nutrient loads in rivers. It helps to fill in data gaps resulting from trans-national and national monitoring programmes in the basin.

Owe the last 15 years, GET/AIDPD and ICE programmes make specificant fear-versions to resident natives plottine. It was both received and strategically important for CEF programmes to take of the effects of the Cup on the ICE programmes to the man shring fere as for gramme (PRI) countries to reprose the man shring fere for gramme (PRI) countries to entre the man shring fere for the grammes of the man and the ICE labeled resident experiments. In shrink though other and the ICE labeled resident experiments of and the ICE labeled resident experiments of year freedings of the shrink the shrink the policy and residential residence were facilitated and translocations, numbers of publicant reduction in strategies were mainternanted into manifest publicant reduction in strategies were mainternanted into manifest publicant reduction in strategies were mainternanted into manifest and publicant in the control of manifest publicant reduction in strategies were mainternanted into manifest publicant and publicant manifest publicant in the control of manifest publicant in the

All Davuka and Black Sea countries will have implemented one or more new policies and legislation supporting nutrient publish reduction. Three countries declared all surface water resources sensible under the BE Urban Water Water Prestrence Directives, thus requiring redops and phosphora normousl for waters water plants in communities of over 10,000 inhabitants. The IPOR is also actively encounting a wider introduction of banning inpolyphase free detargents in the basin.

### NUTRIENT POLLUTION AND AGRICULTURE

Significant efforts were geared to reducing nutrient pollution from agriculture. In the early years, awareness was related, new tools were developed, and procedures for appropriate ferbiliser applications, manure handling and organic farming were tested at demonstration farms to help reduce nutrient loads.

In 2004, the DPDRs Dancke River Basin Analysis found approximate to be the biggest source of Irrigion in the Drawlar Basin with a 38% share, and the second biggest source for phosphorus emissions with a 32% share. More receiving it was observed that, while the EL Common Agricultura Policy (DPL) has historically been a leg driver for internise agricultural project toos that corributed to excess nature political, reserved. Pur reform now provides apportunities for supporting EU water protection efforts.

Since 2001, aucresses include assessments of the use of number for the number of the second second

BAPs are currently being tested at demonstration farms in Serbia, the results of which have been transferred to other Danube countries through national training workshops. A total of 53 NGOs in the Danube River Basin have received DRP financial grants to support activities in disseminating information about and applying BAPs.



# NUTRIENT POLLUTION AND MUNICIPAL WASTEWATER TREATMENT

While sufficient wastewater treatment has already been deviloped in Germany and Austria, major efforts are still required for central and lower Danube countries. BU legislation and local demands are driving them to expand treatment capacity. The EU thean Wastewater Treatment Entertois (EUWTI) is designed to protect the environment from the adverse effects of wastewater from chies and the acer/food industry.

Building on earlier DABLAS efforts, an insentory of municipal wastaneater breatment plants is being compiled by the DFOst provide information such as location, politation loads, treatment technologies and cost efficiencies. The fact saw hite by to cost technologies and cost efficiencies. The fact saw hite byte contribution that the contribution of the cost subject of the cost subject costs of the cost subject costs of the cost subject subj

quality requirement to implement, many utilizies need help in making the right prior and invastment edications to profer cleaner water. A DRP sub-project is missing awareness among Danube River Beats wateriest relifty manages about reforms to reduce internal costs, providing financial tools to assist in making decisions about investing in experiences, and testing now products at demonstration lates in Oracita and Pomania.

# NUTRIENT POLLUTION AND PHOSPHATES IN LAUNDRY DETERGENTS

Recommendations are being provided to Danube national governments on how to react to the use of phosphates in household laundly detergents and how consumers and industry can exact to all demander products. Early studies found detergent phosphates to be a major urban contributor under the contributor of the products. Early studies found detergent phosphates to be a major urban contributor and the contributor will would be the fact and when per supplications and the their removal would be the fact and chappest, way for significant reductions of phosphorus currently released into the basin.

# 7 WETLANDS

promising results in one of the most valuable wetfand areas in Europe. It contributed in 1989 to the establishment of 3 Inlustrant Barniar Platform headed by environment ministries. It also helped point the way for additional rehabilitation projects to be supported by the ECPAR. The Project was complimitated by an EEF\_UNLPP accept plus distributed by an EEF\_UNLPP accept plus distributed and floorpian rehabilitation states between Bavaria and the Clanube Data.

Early efforts raised the importance of wetland rehabilitation.

The Morava Roodplain Restoration Project in particular had

The next milestone in wetland conservation was the development of an inventory of the most important water-related protected areas for species and habitat protection in the Danube Basin, many of which were wetland areas.

After 2000, a key focus of GEF-UNIDP efforts was on assessing the potential of wetlands to absorb nutrient pollution. Durube water managers were targeted by relating their awareness of the need to conserve wetlands as part of their overall RRBM activities. This included promoting the multiple benefits of wetlands through vertical products and activities such as quidence documents, training and demonstration projects.

Support for Danube NSO wetland conservation efforts included help for the international campaign of the Danube Environmental Forum (DEF), a basin-wide NSO network, and DEF national efforts in Creatia. Serbia. Streakia and Sovereia.



### 8 ENHANCED PUBLIC

PARTICIPATION AND COMMUNICATION

Raising awareness about Danube issues and solutions through information dissemination and strategic communications, and encouraging public participation in environmental decisionmaking, have been key features of building IRBM in the basin.

For example, NODs were included in the landmark 1991 Scale meeting and helped to develop the EPCRB. Soon after, they (e.g. WMF and ILDN) were involved with the EPDRB Task For co = n rowel idea and ground/brealing decision to equate State NOD status with that of government representatives at the table. The active involvement of the public in sustainable water management, was later recognized as a core principle with the 1994 casinos of the Banke Piece Protection Convention and the WFD.

Early achievements included the first "Danube Watch" quarterly news bulletin in 1994, financial grants to NGOs and the establishert of DEF. After 2000, the cooperation of NGOs was essential for achieving the goals of the ICPDR and GEF-JUNDP.

INTERNATIONAL COMMISSION FOR THE PROTECTION OF THE DANUBE RIVER (ICPDR)

Given that the EU WFD requires public involvement in IRBM, the ICPDR defined a 'Danube River Basin Strategy for Public Participation in River Basin Management Planning 2003 – 2009' to be implemented by Danube countries with ICPDR audiance. Activities were aimed at raising awareness about IRBM and opportunities for public involvement and developing networks for public participation experts and media.

Today, Dancke Watch' continues to be the official quarterly magazine of the DPDR International Danke Digs launched by the ICPDR on 29 June 2004 to celebrate the 10th environment of the signing of the DPPC, is now an annual exert, paying thotas to the Dancke and its inhibitance. It is celebrated by organizations at every level of society through a diverse range of activities to oreast stronger connections between Dancke people, the basis and its biodiversity, and to mobilise them to trate entries.

The opended LIDPR website includes comprehensive and detailed information on a vide range of issues affecting the Dunche and LIDPR. To date, 12 organisations are observers to the ILDPR including NSDs and private sector vester seek (e.g., hydropower). This LIDPR has also been proactive in involving the public and stakeholders in conferences and working the public and stakeholders in conferences and vertical publications on a vider range of IRBM issues in multiple languages.





GEF/UNDP DANUBE REGIONAL PROJECT (DRP)

ness-reising activities.

Considerable DRP resources were provided to the ICPDR for its communications activities including assistance for workshops, Denube Watch publications, Danube Day activities and media support.

Particular attention was also given to strengthening the capciose of the Danube Environmental Forum (DEF), created earlier through GEF/UNDF interventions. Closy the DEFs is the unthrelia organisation for the largest network of NDDs in the busin with a strong Secretaries, 174 member organisations and national boal pointer from 13 Danube countries. The DEP helped strengthen the DEF through extending the network, communication spectry, training and support for public aware.

The DIPP Final Strates Programme was the DIPP main wholes for engaging local states/dests. 120 National Gerates and 10 Regional Gerates and 10 Regional Gerates were distributed to NSDs in 11 countries. Many projects were generated soxiety and trainer and stole political may be provided to the properties of the properties from the properties of the prop

The DRP used communications as a strategic tool to help reach project goals and target audiences. This included widespread media outreach, encouraging national decision-makers to endorse DRP products and training trainers at the national level.

In 2004, the DRP initiated a component to build the capacities of government authorities to provide water-related information to the public. Demonstration projects at calected local publishon has spots are 'read testing' reinforced community involvement, in solving water politicien issues. The project also aims to strengthen the capacities of the IDPDR to provide public information.





# 9 SUB-BASIN IRBM

Given the immensity and internal complexities of the extre-Demuhe Basin, effectivencies can be given and by managing smaller Demuhe Basin, effective basin. Sub-dot be implemenated provide lessons for strengthenics. Sub-dot be implementation of the EU WFD. Early efforts helped develop a framework. To the Collaboration between the five countries sharing the Tizas sub-basin. Another efforts threightened statisholder participation for the fetter Representation of the Collaboration for the Collaboration for the Vetter Representation of the Substrict Presentation of the Collaboration of

Since 2000, activities have supported the enhancement of ERMI at the substant level, repositing for the Tizza and seal river basins, and more recently for the Danube Delta and Prut. River Basin, under the unbreal of the IDPIR. For example, the Sixe Basin countries are being assisted in developing a Sixe RBM Plan under the coordination of the new Sava River Basin Commission and in reporting to the MPED.

# 10 FLOOD MANAGEMENT

The devastating floods impacting the Danube Basin since 1997, from the Moreva to the Tisza, triggered a process of rethinking fundamental attitudes – from dominating nature to co-existence with floods. In response, ICPDR efforts were accelerated in co-ordinating basin-wide actions with inclusion of the issue in its Joint Action Programme (JAP).

In December 2004, the Action Programme for Sustainable Rood Procedure for the Drusbe was released by the ISPOR. Its four basin-wide targets are: improvement of flood forecasting and early flood warring systems, insert helping related or regional systems; export for the proparation of and coordination between sub-basin-wide flood action plans; creating forums for the earlings of longer triouxidage, and a common approach in the exchange of longer triouxidage, and a common approach in the excessment of flood-prine areas and the evaluation of flood risk.



# ENVIRONMENTAL ACHIEVEMENTS

Danube countries and international institutions were successful in establishing programmes and carrying out activities to support IRBM. One of the key results coming from the effective application of IRBM should assumedly be environmental progress.

In the Danube Basin, there are already signs of environmental improvement. There is also still much to be done. One 150 years prior to 1990, human activities caused significant damage to the niver, its tributaries and ecosystems. The old adage therefore applies well here – it takes much longer to rebuild something than to damage it. Nonethideas, the necessity featurement and foundations have been put in place so more improvements are executed soon.

Most importantly, all of the Clambale constructs, with DCPM construction, are not than in matering ILU MP requirements. The first significant milestone was the completion of the Dandar-River Blass hardpain in 2004. When it now well under way to dender the Clambal River Blass Managamer Riva 1908/MHH js 2003. Blast are on mask with the hope that by 2015, the ERRAP and this Programmer of Measures (queretic and another processes and accomply remarks in the basis with beast purchased to the programmer of the state of the Dandar Water most WHO requirements, including good accide post states.

At the same time, many of the observed positive environmental trends in both the Black Sea and the Danube Basin stem from the impacts of the economic downturn following the collapse of the former Soviet Union in the 1990s and associated reductions in fertiliser use, livestock-reising and industrial emissions



# IMPROVED BLACK SEA ECOLOGICAL STATUS

Having cooperated in numerous joint efforts, the GEF Strategic Pertheratings, (CPG). Et and Danuke countries can take operations for recent measurable improvements in the Black Sea's northter the countries of the countries of the countries of the countries of the countries quality and ecosystem improvements been obtained in a large properties of the countries of the coun

Nahmer his such ritrogen and prosphorus positions reduction on been actived and such restress the document deal according depiction in the Black Beat northwest shelf. Diggin depiction in the beat level of the sea accident in the 1970s and 1980s has been versuly eliminated, with origin or not set or seas startions in most areas. Exploitant progress was made towered actively grade on accessing the prosphorus seas made towered actively grade or season and the depiction of stabilities in article tools or the depiction of stabilities in the Charles Beat in 1987 and 1987 and 1987 and 1987 are to the season of the depiction of stabilities in the Charles Beat in 1987 and 1987 are to the season of the

The frequency of algae blooms has decreased markedly compared to levels in the 1990x, and surface chlorophyli comtradions have also shown measurable decreases. The number of benthic species observed in the early 2000s was 1.5x - 2x higher than levels found in the late 1990s, but still more than 1.5k lower than conditions in the 1990s.





# NUTRIENTS REMOVED IN THE DANUBE BASIN

The table below represents the summaries of fully financed projects that were underway or completed recently, total investments and nutrients removed according to time period.

Timeframe	Number of Projects	Total Investment Mio. USD	Nutrient Removal, t/a	
			Nitrogen	Phosphorus
Completed by Dec 2003	56	803	5,300	1,000
Completed in 2004 & 2005	35	475	4,500	800
Completed after 2005 (fully financed)	50	1,365	>10,000	>2,000
World Bank	8	214	5,500	375
Total	149	2,857	>25,300	≻4,175

Annong the 148 fully financed projects, 128 are situated within the EU member countries: Putatris, Germany, the CHP Republic, Hungary, Slovakia, and Slovenia. Municipal sector projects account for the majority of the fully financed projects, and national cofforming provided more than 50% of and municipal investments. Most GEF-WB investments were instead concentrated on noEU countries and the apprictuation and

Total emissions to the Danube Basin, prior to taking the projects into account, were estimated as 700 kilotonnes/year (kt/a) for nitrogen and 70 kt/a for phosphorus, with the measured loads to the Black Sea estimated as 400 kt/a for nitrogen and 12 kt/a for phosphorus.

# REDUCED RISK

# IN UPPER DANUBE REACHES

Most of the upper reaches of the Danube are no longer considered 'at risk' of not achieving the EU WFD objectives for hazar-dous substances, nutrients and organic loads. This can largely be attributed to the widespread construction or improvement of westewater treatment cultilios, driven by country obligations to meet the EU Urban Wassawater Treatment Directive.



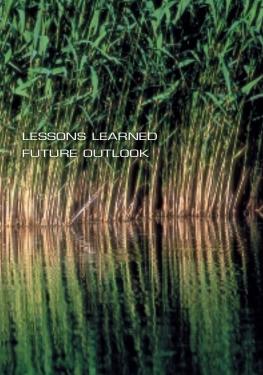
# LOCAL IMPROVEMENTS

Numerous environmental improvements were made at the local level, especially where demonstration and pilot projects were implemented during various programmes and sub-projects. Concrete local results also came from NGOs that received financial grants.

As examples, nutrient pollution was reduced through demonstration projects testing best agricultural practices (BAPs) in north Serbia. About half of all of the DRP Small Grants went to NGOs performing agriculture-related activities, some of which had concrete reductions. Regarding phosphates in detergents, measurable reductions resulted through NSO efforts in Sarajevo, Bosnia and Herzegovina. Concrete gains in wetland rehabilitation and protection were also made.

In January 2000, messages sent by Romania to Hungary through the AEWS drove Hungary to open sluices to significantly dilute the massive plume of cyanide entering the country from a Romanian mining accident, thus reducing the impacts of the toxins.





# LESSONS LEARNED

Lessons have been learned in implementing IRBM in the Danube Basin. Some are transferable to other river basins worthaldle. Some are Canubespecific, the result of political and economic processes occurring within the Danube Basin over the last 15 years [e.g. EU accession]. It is therefore important to consider every basin as different plan and properties.

Yea let pre-conditions were required to make it work. Dec. Durate countries had the political will cooperate with each other and apply RBM. Two, international donor assistance was valuable in highing the countries by the early foundations, as was the importance of ensuring donor conditions to maintain strategie focus and benefits, and a winnin shaston, for all Durated managers. These pre-conditions causiyaed the development of the following fluiding blocks' required for Danube RBM to function.

- Regional legal framewor
- 2 Regional coordinating in
- 3 Joint programmes and actio
- Evidence-based information
- 5 Best technologies and practice
  - Public participation and communications

Therefore, in other river basins where the political will exists to apply IRBM, donors such as GEF/UNDP can facilitate the development of the necessary building blocks.

# 1 REGIONAL LEGAL FRAMEWORK

The political will of the Danube countries, and of the EU, was remeded to jointly again or staffy the Danube River Protection Convention. The agreement legally bound countries to cooperation on fundamental water management issues by taking "all appropriate legal", administrative and technical measures to at labout maintain and water possible improve the current water quality and environmental conditions of the Danube were and of the waters in its cultivarient area, and not proviet and reduce as fire as possible adverse impacts and changes occurring or Illady to be caused.

All Danube countries that had already become EU members or which had beguing become EU members or which had beguing process also become process and become process and become or more contained to meet EU environmental water-related directions of which water formworks, Nutrates and Utban more notably the Water Formwork Danuber, Nutrates and Utban more notably the Water Formwork Danuber to be abled by the Water Formwork Danuber outside by the Water Formwork Danuber countries agreed to abled by the Water Formwork Danuber countries were to be guided by one common over-arrithm resident water-related lead of armswork.

# 2 REGIONAL COORDINATING INSTITUTION

Again, it was the political will of the Danube countries that led to their agreeing to the creation of one regional institution mandated to coordinate and provide guidance for their joint efforts, especially to implement the DRPC and EU WFD.

Today, the multi-country cooperation and coordination reached through the ICPDR is a great success for the most international river basin in the world.



# 3 JOINT PROGRAMMES AND ACTIONS

The regional legal framework and coordinating institution that were put into place by 1997-98 depended on the preparations made and milestones achieved in the preceding seven years. This time period was doministed by the EPDBB and its subsprayments which had been jointly agreed on by the Danube countries, GEF/LINDE, EC and other key partners such as NSOs.

The early development of a Strutegic Action Plan and then Joint Action Programme provided significant benefits through improving the understanding about issues and assessing solutions. The JAP will be transformed under the WFD to become part of the Programme of Measures of the Danube River Basin Management Pin (IPBBMP).

Exceptional cooperation between the GEF/UNDP and EC ranged from their agreement to jointly manage the EPBAD to their support of the Danube River Basin Analysis. Even though they had

different technical assistance priorities, they shared the same overall objectives. This became a successful model for the implementation of other trans-boundary projects worldwide (e.g. Black Sea, Caspian Sea).

It was shown that environmental programmes should include a mix of strategies, activities and policies to be effective. For exemple, to reduce nativities politices, short-term politicescures inestiments in improved weakewater treatment and policies regulating probagates in detargents should be mixed with longerterm strategies aimed at reducing non-point pollution from sorticularial process.

The need to ensure programmatic and sectoral inter-linkages also increased, especially between upstream and downstream countries, the Danube and Black Sea Commissions, and environment and agriculture ministries.



# 4 EVIDENCE-BASED INFORMATION

Effective RBM begins with quality information about the status of the environment and pressures impracting E. From 121, numerous efforts were made to improve and harmonise discollection among all 13 courties of the beam. Significant information-related outputs were achieved such as the Danube Filmer Basen Analysise 2004, the international water quality monitoring system, the DANUBIS electronic information system, and confidence reports, maps and inventories.

The attention given to the production of quality information is now being channelled by the ICPGR and Danube countries to the development of appropriate evidence-based measures, or strategies, that will be most effective in improving water body health in order to meet EU WFD requirements by 2015, to be presented in the ICPERMP by 2009.

# 5 BEST TECHNOLOGIES AND PRACTICES

In many cases, the availability of quality data and information depends on the use of best technologies and practices. In the Danube Busin, technologies have continuously been enhanced to provide the best information possible, from those involved in the international water quality monitoring system to progress with the web based accident early warning system.

Wastewater treatment utility managers in the basin will have access to a mathematical tool. VASTEC, that enhances their ability to make routial cost, princip and investment decisions. Another example is the demonstration sites testing best agricultural practices to help farmers in seven countries reduce nutrient injust.

# 6 PUBLIC PARTICIPATION AND COMMUNICATIONS

Information about major decisions and programmes was regularly disseminated to Danubo stakeholders through various formats. Information added transparency to processes and important public input. NSOs enhanced information collection, incorporated local level realities, reised local awareness and mobilsed local action.





After 15 years of building FBM, the Danube Basin now attracts major interest both within the EU and worldwide. Within the EU, it is seen as a model for how to effectively poply RBM through the Water Framework Directive (WFD). 'All eyes are on the Danube' as water managers apply lessons to managing

their own water bodies.

Given that the WFO is probably the most comprehensive and integrated water legislation in the work; this also makes the Danube a global flagship model for how to get. PBM right, especially for GEF and for reducing nutrient politicen. Ultimately, GEF/INIPP efforts in the Danube-Block Sea area could be a progressive model for expanding public awareness of the threats from nutries collution workfulde.

Therefore, the pressure is on for the Danube to have concrete results. The next 15 years will continue to see challenges. IRBM is now commonly accepted as the best means to ensure

that gains from the last 15 years are not reversed, and that economies grow without environmental destruction. To help pave the way, wise strategies and continued collaboration between the ICPDR, Danube countries and donors is needed.

WFD implementation is on track. Next steps include improving the international water quality monitoring network, preparation and agreement on the DRBMP and its Programme of Measures, and implementing the measures to meet the WFD by 2015.

Regarding agriculture, economic improvements could lead to an increase in fertilear and persistice use by farmers, and thus water pollution, even though EU agricultural reforms are intent on reducing subsidies for intensive farming. In response, Duralise managers should continue offerts to increase farmer awareness and the application of "best agricultural practices (BAPA); and BBAP, and BBAP, and BBAP.)





# POTENTIAL ACTIVITIES OVER THE NEXT 15 YEARS INCLUDE:

- > Increased investments in middle and lower Danube wastewater treatment.
- > Continued efforts to reduce nutrient pollution in the Danube-Black Sea region
- > Accident prevention, especially of toxic pollution
- > Implementation of the Action Programme for Sustainable Flood Protection
- > Increasing awareness, protection and restoration of wetlands
- > Enacting a ban on the use of phosphates in detergents

- > Overall enforcement of existing and new policies and legislation
- > Expansion of sub-basin initiatives (e.g. Prut, Danube Delta)
- > Development of a Danube GIS and continued production of the 'Danube Watch' magazine and coordination of Danube Day
- > Improved collaboration between the Danube and Black Sea Commissions, as well as between national agriculture and environment ministries

# GLOSSARY OF ACRONYMS

Accident Emergency Warning System The World Conservation Union Accounts Simulation for Tariffs International Waters Programme and Effluent Charges Joint Action Programme Best Agricultural Practices Joint Danube Survey Common Agricultural Policy MONERIS Modelling Nutrient Emissions DARLAS Danube Black Sea Task Force Into River Systems DANI IRIS Danube Information System Non-governmental organisation Danube Environmental Forum Programme Coordination Unit Danube Pollution Reduction Programme Strategic Action Plan Danube Regional Project Transboundary Diagnostic Analysis Danube River Basin Management Plan Trans-National Monitoring Network Danube River Protection Convention Water Framework Directive Furnnean Commission United Nations Development Programme Environmental Programme for the LINECE United Nations Economic Commission Danube River Basin for Furone European Union UNESCO United Nations Educational, Scientific Global Environmental Facility and Cultural Organization Geographical Information Systems UNOPS United Nations Office for Project Services International Commission for the Urban Waste Water Treatment Directive Protection of the Danube River World Bank Integrated River Basin Management

World Wide Fund for Nature

