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Text by Paul Daagoly Design by 7 • Wahningerstnesse 48/7 • A-1090 Vienna, Austria T +43 1 319 3777 • E office@agentur-sieben.at 15 YEARS OF MANAGING THE DANUBE RIVER BASIN 1991 – 2006



FOREWORD WIN WIN DANUBE RIVER BASIN MANAGEMENT

In 2007, the first International Waters regional programme to have received funding from the Global Environment FacIby (GEF) will end. regreted in the Danube River Basin and begun in 1991, this programme is a flagship model of good practice for applying integrated river basin management (FRM) to other transboundary river basins across the globa.

Before massive potical changes transformed Cartral and Eastern Europe, Durance countries land appendent minimal FRM collaboration. After 1990, the need for increased cooprostant and potical will be lay the conductors for FRM bacabasin in the world started by 18 countries - our the last 150 systems, it had also statisted numerous damages and yst preservand nordeb biological assists. Environmental threats constinaid including tanks and numerous the Black Sais into which the Damake toxes.

From the start, international donor interventions were essential as a catalyst for progress, especially from GEF/UNDP and the European Commission. Initial efforts focused on essessing 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 Danuke contrives to the EII and the neightness that the fullifield Directions (loss) became the main drivers and incentives for improved mulbocantery RBM in the Danuke Basin in addition to the lay transboundary concerns related to EFE-Media Interventions. Atten-2000, the main priority of the Danuke Convertion's implementing body, the interventional Commission for the Protection of the Danuke River (IDCPR) routed in 1989, became the implementation of the UN Water Francesse Chrockie. The intervention of GEP/LNDP continued to be oritical in helping to drive the accession process and in helfing Dambe constry edilgations, from enhancing the FBM capacities of institutions to advising on national legislative reform to testing beak agricultural practices and supporting pakle participator. Daming after 15 years of FBM development in the Dambe Basin, a winnin statution had rescaled between the GEP/LNDP, CPDR, EU and the Dambe countries and their diverse people.

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

Shaped by two institutions that took a leaf role in facilitating the reastion of an IRM formwork for the Ibankeb, this document celebrates the upcoming and and outputs of GEF/LINDP efforts in the Dankeb Basis. It also presents the strong foundators for the future work of the ICPOR which is sure to achieve up progress in managing this instruminously shared river and continue providing valuable leasons learned for other intermational waters projects.

Philip Weller Executive Secretary

Alfred Duda 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 8D1,4B3 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 Banuke River stretches 2,780 km from Germany's Bluck Forest to the Danke Delta. Curdees other niver drain from the basin its the Danuke River such as the Inn River in Austin and Germany; the Morrow in the Caroline Republic, Austria and Stooklay, the Taza in Hunggrey, Romania, Strokia, Bartia and Huranice, Hasiwa Rilovani, Ortakia, Bartia and Horsegarina, Serbia and Montanegore, and the Pruf. River in Romania, Middoa and Utrane.

The basin is dekided into upper, middle and lower basins. The Upper Basin careful from the source of the Dankee In Germany to Bratistaw, Shoakia, The Middle Basin is the largest, exending to the dams of the Iron Base Barge on the border between Basins and Romania. The lawlands, plateaus and mountains of Romania and Bugeris form the Lower Basin. Result, the irred dekis in sith the three main humides of the Dankee Date, with an area of about 6,750 sq km, before enter into the Basis.



ENVIRONMENTAL ASSETS

The basin shows a tremendous diversity of hattats and accousame through which rivers and dreament flow including glaciatean through which rivers and dreament flow including glaciatean hybrid streament mountains, forestated middle mountains and like. glaced plateaus and plates and web lowlands near seas level. Some remain relatively uttructhed with species and habtasd or dustanting ecological value, constatuting a unique hertage to be preserved. In many cases, the level of biodhersity is higher in the lower reaches of the river.

Rookjain forests, marrhinks, detas, floodpillo contidors, lakeshnes and other wetfands are secarital components in the basin's biodiversity and hydrology. Many are transboundary in nature and represent valuable driving water reserves for milliors of people. The 6975,000 he Banube Data is the most important wetfand in the basin and is a transboundary URESDU Vord Hertage Steam Mdm and Booghere Reserve.

HUMAN IMPACTS

Over the last 15G years, Danube aquatic ecosystems, biodversity and water quality and quantity have been significantly impacted by human activities. For example, score BO% of the Danube's wetlands and floodplains have been last since the end of the 15th century, threatening habitats of key species such as pelacens in the Danube Obta and beavers in the Upper Danube.

Polution remains a serious problem, especially from organic substances and nutrients. In the 1970s and 1980s, excessive nutrient pollution resulted in a server ecological imbalance in, and the large-scale eutrophication of, tans of thousands of sq km of waters in the western Black Sea, as the depiction of oxygen decreased biodynerally and vorsened water ouality.

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



Navigation, hydropower dams, river channelling, gravel extraction, groundwater exploitation and climate change also pose key threats to the Danube environment.

The significant decline in industry and farming following the objical transition than 1988 robusch human pressures on the Danube Basin and the Black Sea. Howeve, the potential for publich to inverse as economics recover all requires introducing good practices that minimise the impacts of farming an industrial existies. The indificancy or absence of wastewater treatment plants in the middle and lower Danube countries also all pose a significant threat.

THE NEED FOR IRBM

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 negured 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'

To

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/ UNDR, EU and NGDs.

DANUBE COUNTRY GOVERNMENTS

The following 13 countries are all 'Contracting Parties' to the Denube Piker Protoction Convertient'. Austria, Bosmia and Harzegovina, Bulgaria, Croatia, the Caech Republic, Germany, Hungary, Moldowa, Romania, Sloweita, Sorbia and Montanegor and Uluraina. In 2006, Serbia and Montaneyor to Autorateneyor to Montaneyo to scenre the accession of Montaneyor to the Convention.

THE INTERNATIONAL COMMISSION FOR THE PROTECTION OF THE DANUBE RIVER

The International Commission for the Protection of the Banke River (IPOR) is a rom-androat body acadebled Dottober (7), 1998 to ensure the austainable and explatels use of waters and featureater reaccess in the Danke Bank. Is its mardiade to inglement the Danke River Protection Convention (DFPG), the major legal internation for cooperation and transloandage water management in the Danke Baain, as well as the Witter Framework Direction of the LL is in the dayly regonable inicition for further development of Danke water management and rangemic cooperation in Danke ReM.

It is formaly comprised of the Delegations of all Contracting Parties to the DDPC. Representatives from ministries, civil society and the scientific community also cooperate in the DPDR. Technical appert groups provide the DPDR with technical information and strategic input. The Remnanter Beoretanut performs functions to administer the Convention and realise the DPDR programme.

GEF/UNDP

The Bobal Environmer-Recity (EEP), established in 1991, helps developing curries, and Hose in economic transition, to fund projects that protect the global environmer. Since 1991, GEF has provided grants for more than 1,300 projects in 1400 countries. The GEF International Weters (IV) focal area targets transhorder) water systems. Examples of concerns addressed include water polition, protection of fahrey habitats and balancing competing water users.

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 Danke Basin was a first for GEF W – site of the first. Wire regional programme² were funded by the GEF in 1992. The United Nations Development Programme (UNDP), well established in the region bathors 1996. These implemented GEF projects supporting the Danke. Over time, Danuel Basin countries identifeat reducing nutrient politicion as one of the basin's key transboundary water concerners.





EUROPEAN UNION

The European Union (EU) has been a main driver for IRBM in the Danuba since 1991. The European Commission (EQ) is allow an original Contracting Party to the DPPC. As time were by, EU accession and the fulfiment of the EU's environmental directives became, as it is today, the main driving force for environmental change in the Danuba Basin.

While Germany was one of the founding neutrons of the EU, harm scatceler 1995. Note of the postcommune Unablash states legan processes to part the EU ason, their transland controls point the EU and the EU ason, their transland controls point the EU and the EU and the EU and the Harman, joint in Control Control and the EU and the tagen EU accession negatistics, transport of the EU and the Baback controls in a sequential sconging the tait number of the EU and the EU and the EU and the EU and the The Euclidean Scott and the EU and the EU and the The Euclidean Scott and the EU and the EU and the The Euclidean Scott and the EU and the EU and the The Euclidean Scott and the EU and the EU and the The Euclidean Scott and the EU and the EU and the The Euclidean Scott and the EU and the EU and the Found acquisation to exact to the EU.

Membership to the EU obliges a country to fulfil the EU's package of laws or 'directives', including environmental directiwes. The first star is for a country to develop institutional cognicity and harmonise EU laws. The second is implementation, a costly process and one where meeting environmental directives has been the most sepenate.

EI water protection legislation came in three waves. The first waves, starting in 1975, set binding water quality targets for drinking water and other uses and limits on emissions. The second wave in the early 1980billed to the Urban Matter Water Transmer Direction (UWVT) and Network Direction. The third wave in the mid-1980b resulted in the Water Premover Direction (WFO) (2000) and Direling Water Direction (1996).

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 thronoghy restructured European Water Policy, is sets objectives for water protection well into the 21st century and is seen by many as the strongest water protection legislation in the world.

Channya partena and grood waters (herbi, transitional and costal), a term to source loss of all Ecropean waters and accession controls. It is adipter Merridre Tassar and accession controls to use a rive herbit approach for managing water resources. It requires cross-border cooperation and ensourceges mail development and with MOA and and ensourceges mail development and ensources and accession controls and an ensources and accession controls and accession and and the management and the source of the source of the source of the accession for the 2015 depletion.

DANUBE NGOs

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

After 1991, international NBOs such as WWF began to participate in Danuberelated matters. National and local Danube NBOs also began to take shape to the point that NBOs were involved in key decisions and programmes from the start, shaning the table with Danube country governments, GBF/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 organisations.



THE HISTORY -15 YEARS OF BUILDING DANUBE MANAGEMENT

THE HISTORY -15 YEARS OF BULDING DANUBE MANAGEMENT

KEY POLITICAL DECISIONS

From 1991 to 2006, Danube countries, International organisations and other partners negotiated key political decisions that lied to agreements, conventions and work-programmes based increasingly on IRBM approaches. The result of these was a number of institutional and environmental outputs and achievements.

1991 - 2000

In 1995, 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 policial and economic situation in the region at the time hindered effective implementation.

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

Building on this momentum, 24 countries, GEF_VINDP EC and NOEs met h Golds, Builgrain in September 1931 to plan next staps. The result was the birth of the jointly agreed "Environmental Programme for the Danube Rever Bailin (PDHB), a forware/k initiate bir regional cooperation in water management: that would initiate priority studies and actions supporting the establishment of the DBPC.

The EPDRB was managed and mainly funded by the EU Phere Multi-Country Programme for Environment and UNDP, which planned to drew funds from the emerging Global Environment Facility (GEF) to implement EPDRB activities. The EPDRB was astremely important in that it was the first regional programme ever to be approved by both organisations. The need for a DFPC was lutther driven by Danube counties becoming Parties to the new UNEE Convention on the Protection of Transboundary Rivers and Lakes signed in Heliaria in March 1982. It obliged Parties to prevent transboundary impacts on watercourses and encouraged them to cooperate through new hain management, agreements. In effect, the Heliaria Convertion' would become the basis for the DPPC.

On June 20, 1994 in 504a, Bayran, 11 Danabe correles (Jacras, Bayra, Casta, the Casta Papeala, Garmany, Hangany, Madosa, Romania, Boakia, Boavria and Linnieo) and the C Eiged the INPC: L becare the ownel leagl the means/the original metal and an analysis of the second leage that exception and second to the second community of Castade 20, 1985. Days Law, the terminoted Community Databes 20, 1986. Days Law, the terminoted Community Research Society and the second community of the Databes 20, 1997. A second to the second community Research Society and the Cast Castade Second Community 2000, the DPGR, chiefly through the Eigent Drage, cooperties of the EIG Community and the Cast Castade Second Community.



2000 - 2006

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 GEF/UNDP support.

Also in 2000, the CPRH Hads of National Delegations agreed that the in regimenration of the LUS Water. Premiservit Direction (WFD) shaukd become the highest priority for the CPRH for the comming years. Ministers from all of the Dunch countries gas that has a commitment to back the decision, including members of the LU, prospection members and non-mortax. They Inferpledget to develop a single, beamvide Damber River Blain Management Films (DRMM) and committed the (CPRH as is coordination bady. The decision made same given that both the WPD and (CPRH were based on using FIBM).

Begun in 2001, through ta Danube Rejonal Project (DRP), DEF/LNPC orchited to apport the IPCR whit ta WFD efforts and in strengthening cooperation between Danube courteirs. A second key focus of the DRP was on reducing nutrient poliution in the Danube Basin and threndy the ecologically damaged Black. Bas: The DPP and significant involvement of the GEF/LNDP in Danube Basin management end in 2007.

Internal conflicts between some of the former nations of Vagotaka prevented their formal participation in either the DBPC or ICPRC processes. After the wars, the DBPC veric into force in Serbia and Montenegro in 2003 and in Bosnia and Herzegovina in 2005. By 2005, all of the Danube Basifix 13 bioastic countries had become Parties to the DBPC.





PROGRAMMES AND ACTIVITIES

1991 - 2000

The first programmes from 1991 to 2000 were primarily donor-drive by institutions such as GEF/UNDP and the European Commission (EC) in Signature-1991, Isolaving their decision to create the Environmental Programme for the Danuck Paver Basin (IPDRB), participants at the Sofan meeting also agreed to create a Take Force to guide the programme and a Programme Coordination Linit (PCU) to manage daily committions.

The main role of the Task Force was to support the programme und the averies proposed DBPC comes into effects. The EQ could guarantee a balance of internets between updrawn Danales countries and encommodally evaluation of working to a clear signal that they would be individed in the future enlargement of the EU, thereby adding incentive to their accele participaton.

The PCU was established to coordinate and implement the EPCRB 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 anticommental lasses. It was intended to collect all available information and fili gape, build networks for cooperation, and carry out institutional strengthming 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 NGD network.

By 1994, donors and countries were anxious to move from planning to implementation. To fill the gap, a Strategic Action Plan (SAP) would identify objectives, tampts and principa 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 basis programme.

In December 1994 in Buchareae, Danuber ministera and the EC acceptant the SAP Its foar strategic goals were: the improvment of aquatic ecceptames and biodiversity in the basin and the reduction of polician loads entering the Black Sae, maintaning and improving the quarkty and quality of water: control of damage from accelerate applics and the development of regional cooperation in water management.

The necessary measures needed to meet the above goals were: construction of municipal sever 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/ed 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 politician. 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 ICPDR 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 LHP outlined the staps to be taken between 2001 and 2005 to achieve the DHPC's environmental objectives. They included measures to reduce water polation, promote nature conservation and restore ecosystems. Joint action by countries was seen as easemilia to reduce the flow of polataries from applicaturel, domestic and industrial sources into the Danuke and Black Sea.

Also in 2000, Danube countres has depresed that the first purtique of the DROH for the coming users advance to implementation on of the SU Water Fremework Denetation (Work) using 16M as the guiding approach. While the non-accession countries of Borean and Hostizengue users to taight request on a data by any EU and Monteringer users on taight request on advance and directions. It may all formitly and indexing larger and and directions for the guiding advanced and the second direction of the direction of the second direction of the second direction of the second direction of the second direction of the direction of the second direction of the second direction were larger direction of the second direction of the second direction direction of the second direction of the second direction of the direction of the second direction of the second direction of the direction of the second direction of the second direction of the direction of t

The first key deadline to be met, in 2024, was the development of the Danuba River Basin Analysis, the first comprehensive characterisation and pressure/impact analysis of the entre basin, and the biggest step towards developing the Danuba River Basin Management Pilan (DBRMP) by 2020, by 2020, the WED required the establishment of an international montrion network, and by 2010s. the method of the WED objectives 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 See Taa Frong (DABLAG) was set up to DCD to provide a patient or cooperation to marke the protection of water and water-related ecosystems in the Danke and the Black Sea. Commission, International CPCR Benergins Laboration (ER), the CL, International Danker, Black Black Black Black (Black Danker) Robert Search Search Robert Tegener/International to Danker Black Black Black Danker regional/international water black Black Danker regional/international water black Black Danker Black Black Danker water black Black Danker Robert Danker water black Black Danker Black Danker water black Black Danker Black Danker water black Black Danker Black Dank

In December 1 2001, the file-year Danke Regional Project (DPI) was launched: The laux phase of DE/I/NDP longstm support for FRM in the Danke Basin, executed through UMPRs. Is man goal was to strengthen the capacity of the CPRR and Danke countries to cooperate in Halfing their commitments to implement the Danke Danceton and EU WDL 1 k wold build on the GEF TDA prepared in 1995 and the CPRRs JAP 2000 to hip develop the 2000 Annue Reve Basin Analysis and exercutly the Danuke River Basin Maragement Plane.

Relacing nutriest polition was especially important for the DPP guest me supported interest of GPT in homotenan accurphoson problems in the Black Blas. Furthermore, nutriest matching activities and benefits a Daruskin annager including GEF/ANDP EC, DPDF and the Bun-ban course is given the fact that narrivet politicity was and of the guest but Danked countries risked in not being able to meet the WDFs requirements. Duartine was also drived to mode, but notifice based to the start of the start of the start of the the Netate Water Tratement Detroes InVMPT and Netate Derobes



Other key DPP targets included introducing best agricultural practices, conserving wetlands, improving the financial operations of water and wastswater utilities, reducing phosphate use in laundry detergents, improving public awareness and strengthening public participation and NGOs.

The DRP is part of the larger USD \$85 million TGP Strategic Perturbuting for Murkern Reduction in the Danuka-Rilleck Bea Basir approach in 2001. It targets assistance in Danuka and Black Bea counters to defees the measurement of the series mathewise politicity. The of GPPs largest and pertugan most ambibus water-related projects in the work, la forogrammatices politicity in the measurement to reduce nativers objective is for countries to take measurement to reduce nativers enclosed by the perturbation set of the series of the Its intermediate objective includes the implementation of urgent control measures by the countries to radiace nutrient discharges to the Black Sea to levels at or below those observed in 1987. The Partnership also aims to put in place austandels governance and investment frameworks to prevent the remeved ecosystem deterioration that, might occur with equoted future economic improvement in DRB and Black. Sea countries.

The Partnership includes three components. The first is the DRP. The second is the Black Sea Ecosystem Rescovery Project' for the six Black Sea Istanal countries. The third is the Investment Fund for National Reduction implemented by the World Bank, generation as supporting subjectionary single-sectors investment sub-projects for nutrient reduction as well as well and and foodplane restoration.



ACHIEVEMENTS

ACHIEVEMENTS

INSTITUTIONAL ACHIEVEMENTS

- Meeting EU requirements
- 2 Mature regional coordinating institution
- 3 Water quality monitoring system
- 4 Accident early warning system
- 5 Reducing pollution emissio
- 6 Reducing nutrient poli
- 7 Conserving wetlands
- 8 Enhanced public participation and communications
- 9 Sub-basin IRBN
- 10 Flood management



1 MEETING EU REQUIREMENTS

As the years work by, accession to the EU and the fulfilment of its water protocolin oligibilition became the main drivers for improving Danuba IRBM. Political and economic incentives for environmental compliance thus auplementation. To data adde by the Danuba Consertion. To data may any advantation takes have already acceded to the EU, and others will pin scon. They are on track in meeting match the intervine directives.

A model example is the Danuke Filver Basin Anapise, Building on the savier TDA and JAP, successfully coordinated by the DPDR, completed in 2004 and delivered to the EU in Meerh 2005, the analysis most the first algorithmat regularization waters and groundwater, an investry of protected areas, an economic analysis, public participation activities and a future codeole.

Its key conclusion was that pollution by organic, nutrient and hurardous substances, as will as hydromorphological alterations, are the future key water management issues in the basin. For example, some 65% of the basin was found to be at rais of not meeting the WED's objectives due to nutrient pollution. In effect, these issues became the focus for developing the DEBMP by 20209, also now on truck, and again coordinated by the IDPD with GEPLANDP support.

The capacity of the Danube ocurrities to contrinuously meet the EU's accession and heightable challings were significarily strengthmed by all of the decisions, programms, activities, outputs and achievements resulting from 15 years of building an IRBM framework, in the basin. The Danube's 'manageric' were highly programmed for, and in a state of excellent madresis, to meet EU requirements, perhaps more so than any other rise table in Danue. There continue to be ac.



Throughout the 15 years, GET/NIDP targeted interventions played a catalytic relia in helping the Dunck constress and EVPH to reach this state of readinese, including providing datalet information for the Danube Anajasi. A see sign of the winvin situation that had resulted between the GET/AIROP ICPOR IC and Danube countries – in April 2005, the bL highighted the DIP as a modil for transloomly waters goernance in its report to the U.N. Commission on Sustainable Development.

2 MATURE REGIONAL COORDINATING INSTITUTION

Since its creation, the ICPOR has grown rite one of the largest, and most active international bodies of experts on IRBM 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 Danube countries have actively participated in ICPRP expert groups. It has encouraged public participation in its decisionmaking, expert group and planning processes, including representatives from academin, the private sector and NDLS. Some kay successes that far include the coordination of inputs from all Danube countries into the Danube River Bain Analysis 2004, annual Danube Day events, the Joint Action Programme 2001/2006 and the Fixed Action Programme

The ICPDR also has a Memorandum of Understanding with the Black See 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 rance of chemical determinands.

After 1982, efforts focused in developing the Trans-National Monicority Network (TINMW) and adding sampling stations and determinants to be monitored. The main objective of TNMM was to provide an overall were of politicion and integratem terneds in water quality and politicion loads in the major invess of the Danube Beain. It would also ensure comparable data and techingest to exchange information in a common format.

Formally launched by the LPDR in June 1998 in Bratalisas, Stowlas, the TMNN network non comprises over 75 water quality montoring stations. Liberately, it gave decision-nativer data to make the right poly and investment decisions to improve water quality. Montoring upgrades supported by EFC/LNDP with bey ensure the TMNN will meet the WHD requirements, especially by broadening its scope to consider biological montoring.





4 ACCIDENT EMERGENCY WARNING SYSTEM

The first stage of the Accident Enrengency Wenning System (4KW) as small comparise in April 1975. The depictive was to enable national authorities to protect water users against accidential polition and other emergency statutors. A web based communication system ensures the quick transmission of messages between contrarts to hig authorities downstream put environmental and public stafety measures into a short and the AMS proved highly effective in warming downstream countries of an approaching large cyande split from Remains.

A data bank of dangerous chemicals and the Danuke Basin Alarm Model assist experts to assess the environmental impacts of accidental polution. In 2001, the first, leig of the Accident Risk Spots Inventory was finalised by the ICPOR, encompassing operational industrial sites associated with a major risk of accidental collision.

5 REDUCING POLLUTION EMISSIONS

The identification of measures to reduce polluting emissions was initiated in 1995 through the EPORE. Early accesses included identifying the most significant types of water pollution; preparing investmess of municipal, agricultural and industrial discharges; making proposals for appropriate measures iniciding galatomes for the best available technologies; a last of prorify pollutaris to be reduced or eliminativi, and evaluation of the pollution basis from non-point sources (e.g. nutrients from agricultura).

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

The GEF_UNIDP Danuele Polution Reduction Programme tates developed a Transboundary Diagnetic Analysis (TDA) of polition loads in the basin and their effects. Main politicion sources were identified and a lat of hot spotal was diverted. The programmer's report of 1999 gives an overal view of the most importance on-going and planned measures for the reduction of polition in the basin.





6 REDUCING NUTRIENT POLLUTION

The ICPDPs 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 USD with expected reductions of nitrogen emissions by 50 kitconnes/year and of phosphorus emissions by 9 kitconnes/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.

Our the last 15 years, GEY/LARD and 12 programmes make spectrum stravershort modern strave publics. It was both measures and strategically inportant for GEP programmes to that on the effects of the CL genth that (Dynames laberanis the main effects of public quarters to improve the environment galance schemes, in which the CL and the environment galance schemes data which the CL and the environment galance schemes data which the CL and the environment galance schemes data which the CL and the environment galance schemes and the schemes and and environment galance schemes and the schemes and nuclear publics reduction strategies are maintrasmed reto matoma schemes and plane.

All Danube and Black Sea countries will have implemented on or more new policies and legislators apporting nutriere policion reduction. Three countries declared all surface water resources exositive under the EU Luban Wates Water Treatment Direction, thus requiring nitrogon and phosphorus removal for watertweet plants in communities of over 10,000 inhabitants. The ICPDR is also actively encouraging a wider introduction of bainming phosphater destingents in the basin.

NUTRIENT POLLUTION

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

In 2004, the IDPDFs Danuke Fiver Bann Analyse found agriculture to the the biggest source of trigging in the Catabase Basin with a 38% share, and the second biggest source for phosphone emissions with a 38% share. More recently, it was observed that, which the LI Common Apricultural Palos (CPDF) has historically been a key driver for internies agricultural proc toos har corritoriate to access nutritor policion, nexer CEA referm new provides opportunities for supporting EU water protection efforts.

Since 2001, successes include assessments of the use of numeric freditare, manuer and peaketides in the basin and identifying bad agricultural practices and their environmental impacts. Recommendations were made regarding the implementation of bast agricultural practices (BAP) and of EU and individual policies and eligibilities that could support agricultural reform. Furthermore, GET through the World Bank, supports agricultural policies control projects in the Danuke countries.

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 NBOs in the Danube River Basin have received DRP financial greats to support activities in disseminating information about and applying BAPs.



NUTRIENT POLLUTION AND MUNICIPAL WASTEWATER TREATMENT

While sufficient variationater treatment has already bein dowlogical in Germany and Austria, mayor efforts are sail required domands are driving them to expand treatment capacity. The EU Lichan Variasevent Treatment Encience (LIVMVI) is designed to protect the environment from the adverse effects of wasteweater from cities and the agendood industry.

Building on earlier DABLAS efforts, an inventory of municipal wastawater treatment plants is being compiled by the IOPOR to provide information such as location, pollution loads, treatment technologies and cost efficiencies. This data will help to identify the future measures needed in the DRBMP such as expanding utility capacity.

Given that the UNW/T may be the most expense EU waterqualey requirements to implement, many utilities need help in making the right price and investment decisions to pay for cleaner water. A DPP sub-price to insteing avernees among Danube River Basin waterwater utility managers about reforms to reduce iteramic costs, providing financial tools to assist in making decisions about investing in expensions, and testing we product at chromotration abate in Orcatia and Rhamaia.

NUTRIENT POLLUTION AND PHOSPHATES IN LAUNDRY DETERGENTS

Recommendations are being provided to Danube national genermitration hole to treact to the use of plosphates in household laurdy detargents and how consumera and industry can asolut to abarrance prosphates here products. Early studies found atergent phosphates to be a major urban contributor to unifient publics, and that their enrewal would be the fasteat and changest way for significant reductions of phosphorus currently reliased into the basin.

7 WETLANDS

Early efforts reade the importance of wetlind rehabilitation. The Morva Roopking Instanction Program (L parcular has promiting results in one of the most walkable wetlind areas in Europe. In contribution 11989 to the exabilitations of all hateral Remark Platform headed by environment ministries. It also headpoint has well on disclose inholization projects to be supported by the ICPGR. The Project was complianed the Optime Trabibilitation sites between Bavaria and the Danuel Data.

The next milestone in wetland conservation was the development of an inventory of the most important weter-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/UNDP efforts was on assesing the potential of wetlands to abach nurriers polition. Danube water managers were targeted by raising their exerness of the need to convert wetlands as part of their overall RBM activities. This included promoting the multiple banefits of wetlands through versious products and activities such as advance documents, turning and domantariation projects.

Support for Danube NGO wetland conservation efforts included help for the international campaign of the Danube Environmental Forum (DEF), a basin-wide NGO network, and DEF national efforts in Creatia, Scrokia, Stovakia and Slovenia.



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 FBM in the basin.

For example, NBCs were included in the landmark 1991 Solar meeting and height of develop the PEORE. Soon after, they (e.g., WMF and ILCN) were involved with the EPORE Task Foror = a row lide and ground/treating decision to equate NSD status with this of government representatives at the table. The active involvement of the public in sustainable water mangement was later recognized as a core principle with the 1994.

Early achievements included the first 'Danube Watch' quarterly news bulletin in 1994, financial grants to NGDs and the establishent of DEF. After 2000, the cooperation of NGDs was essential for achieving the goals of the ICPDB and GE7/UNDP.

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 Partcipation in River Basin Management Planning 2003 - 2009' to be implemented by Danube countries with ICPDR guidance. Activities were aimed at raising awareness about IRBM and opportunities for public involvement and developing networks for public participation experts and media.

Today, Danuke Watch continues to be the efficial quarterly magaine of the CPC International Calandee Day, launched by the ICPON no 28 June 2004 to colebrate the 10th intervieway of the signing of the DPPC, is now an annual overt paying trabute to the Danuke and its trabutaries. It is celebrated by organizations at every level of acousty through a diverse range of activities to oreas stronger connections between Danue papels, the basis and Lie biodiversity, and to mobiles them to tate acoton.

The equinds (CPDR) website includes comprehensive and detailed information on a vide range of issues affecting the Danube and CPDR. To data, 12 organizations are observers to the ICPDR Includes (MoSs and provides sector visiter users (e.g., hydropower), The CPDR has also been protection in moltry the public and attakeholdres in conferences and workshops and in deleging numerous brochures and technical publications on a vide name of ERDR librase in molice lencauses.





GEF/UNDP DANUBE REGIONAL PROJECT (DRP)

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

Periodial stantish was also given to strengthening the capcises of the Danke Informmental Form (IER) created antient through GE7/JINDP instructions. Today, the DEF is the unthential expension. For the largest network of NDDs in the basin with a streng Secretaria. 17.4 member organizations and national local points from 13 Danabe countries. The DPP helped strengthen the DEF through extending the network, communication support, training and support for public awaremenariation activities.

The DPP Proof Grazes Programme was the DPP- main vehicle for engaging load stakehedres. T-20 Narson Grazes and 10 Regional Grazes were derbacked to NDDs in 11 countries. May projects were grandro taking narkiner and totice plation problems through inferez politikon reduction, improved moritrong systems and noreased public avareness. Dher examples include Sava Basin NDDs public participation in the development of the Sava FBMP, end an NDG in Sargino, Banina and Herragonian, reising local avareness about prosplates in detargenta. 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 DPP initiated a component to half the capacities of generrinnet autoholisate provides under-related information to the public. Demonstration projects at selected local pollution has spots are 'read tastudy reinforced community involvement in solving water politation issues. The project also aims to strengthen the capacities of the ICPDR to provide public information.





9 SUB-BASIN IRBM

Given the immensity and internal complexities of the entire Danche Basin, efficiencies can be gained by managing smaller areas based on natural sub-river basins. Sub-basin initiatives allo provide lascosific of strengthering (RML and the implementation of the EU WPD. Early efforts helped develop a farwaverk, for colaboration basement the five countries sharing the Tizza sub-basin. Another effort strengthering that Tizza sub-basin. Another effort strengthering that Tizza for for the Yetra's New Basin Council in Bubaria.

Since 2020, activities have supported the enhancement of IEMM at the subban level, separating for the Tizze and Sava river basins, and more recently for the Danube Deta and Prut. River Basin, under the unthreals of the IDPOR. For example, the Sava Basin countries are being assisted in developing a Sava REM Plan under the coordination of the new Sava River Basin Commission and an properting to the VMED.

10 FLOOD MANAGEMENT

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

In December 2004, the Action Programme for Sustainable Roof Preaction for the Danubu sen released by the IVCPR. Its four basin-wide targets are: improvement of flood forecasting and safty flood warming spitzms, inter-Inking radioral or regional spitzms, support for the proparation of and coordination batesem aubisativelia flood action plane; creating forrums for the eachange of experit invavidage; and a common approach in the assessment of flood-prone areas and the evaluation of flood ratio.



ENVIRONMENTAL ACHIEVEMENTS

Datube 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 sall much to be done. Dow 150 years prior to 1950, human activities caused significant damage to then rune, its tributaries and ecosystems. The old adage therefore applies well here - t takes much longer to rebuild something than to damage it. Nonetheless, the necessary framework and foundations have been put in place so more improvements are expected soon.

Mose importantly, all of the Danake coverties, with CPOT seatances, and not the matering DLI Work transmission. The first significant militation was the completion of the way to dender the Danake New Bean Management Film (2015), the EBMMP and the Ney York the New York Statistics (2015), the EBMMP and the Ney York the New York Statistics (2015), the EBMMP and the Ney York the York the York Statistics (2016) and Statistics and on the New York the York Statistics (2016) and Statistics (2016) and the Ney York Statistics (2016) and Statistics (2016) and the Ney York Statistics (2016) and Statistics (2016) and the Ney York Statistics (2016) and Statistics (2016) and the Ney York Statistics (2016) and Statistics (2016) and the Ney York Statistics (2016) and Statistics (2016) and the Ney York Statistics (2016) and Statistics (2016) and the Ney York Sta

At the same time, many of the observed positive environmental trends in both the Black Sea and the Danke Basin stem from the impacts of the economic downtant following the collapse of the former Seviet Union in the 1990s and associated reductors in fertiliser use, livestock-reising and industrial emissions.



IMPROVED BLACK SEA ECOLOGICAL STATUS

Having cooperated in numerous part efforts, the GEF Strategic Pertrentryis, ICPR, EC and Danked countries can take credit for neart measurable improvements in the Black Seak northwest theil. Navhere on Earth have such demonstratile water quality and ecosystem improvements been obtained in a large river and adjecent sea is in the Danube and Black Seas cosystems over the last decade. The Black Sea is showing initial eidence of neourcy.

Nowhere has such nitrogen and prosphrane patietan induction on seven athered and a new remain the documental data and of original diptican in the Black Balan northwest sheft. Duggen diptication in the balance of the sea advanced in the 1070tand 1980 has been virially attended programs are made to and a statemental, with original leads main made toward a delating and serve causaful gift proceedings are made toward a delating and serve causaful gift proceedings and the second advanced balance towards and the prodemand of the second second second second second second 1007 feeds. In the document balance towards and documental process and advanced balance balance and documental patients and proceedings and the second seco

The frequency of algae blooms has decreased markedly comparest to levels in the 1980s, and surface chlorophil concentrations 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 1980s, but still more than 1.5k lower than conditions in the 1980s.





NUTRIENTS REMOVED

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
	56	803	5,300	1,000
Completed in 2004 & 2005	35	475	4,500	800
Completed after 2005 (fully financed)	50	1,365	s10,000	>2,000
World Bank	8	214	5,500	375
	149	2,857	>25,300	>4,175

Among the 148 fully financed projects, 128 are stauted within the EU monther countries: Autricia, Garmany, the Dach Republic, Hungary, Stovalia, and Stovenia. Municipal sector projects account for the majority of the fully financed projects, and national cohrancing provided more than 50% of total municipal investments. Most GEF-WB investments were instead concentrated on nocEL countries and the agrinolutural sector.

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 hazendous substances, nutrients and organic loads. This can largely be attributed to the widespread construction or improvement of wastewater treatment utilises, driven by country obligations to meet the EU Uhan Wastewater Treatment Directive.



LOCAL IMPROVEMENTS

Numerous environmental improvements were made at the local level, especially where demonstration and plot projects were implemented during various programmes and sub-projects. Concrete local results also came from NGDs 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 NGO 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 FUTURE OUTLOOK

LESSONS LEARNED

Lessons have been learned in implementing IRBM in the Danube Basin. Some are transferable to other niver basins worklowle. Some are Danubespecific, the react of policial 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.

Two key pre-conditions were required to make it work, Dex, Dounde courcirs lead the policial will no cognetia with asakother and apply IRBM. Two, international donor assistance was valuable in hipfing the courcins lay the early foundations, as was the importance of ensuining donor coordination to maintain strategic focus and benefits, and a win-win statator, for al Dounder managers, "These pre-conditions calleaded the donlogement of the following building blocks' required for Danube IRBM to function:

- Regional legal framework
- 2 Regional coordinating institutio
- 3 Joint programmes and actions
- 4 Evidence-based information
- 5 Best technologies and practices
- 6 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 policieal will of the Dankee countries, and of the EU, was meeted to picty jay and raity the Dankee River Protection Convention. The agreement legisly board occurrises to cooperate on hardmental water management issues by taking all appropriate legisl, administrative and tachnical measures to at laster, maratrain and where possible improve the current water quality and environmental conditions of the Dankee new and of the waters in its calcularities areas and the Dankee new and of the waters in its calcularities areas and the Dankee new and of the waters in its calcularities areas and the Dankee new and of the waters in its calcularities areas and the Dankee new and of the waters in its calcularities and changes occurring or likely to be caused.*

All Davuka countries that had already become EU members or which had begin their EU accession process also been obliged to mest. EU environmental water-related directions, most notably the Water Fernemwork. Notates and Uthan Wateswater directives. Teen non-accession countries agreed builded by the Mater Fernemwork (Davuter Fernemwork). Davuke countries were to be guided by one common overarchitra relationary diater relatives (directives).

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, aspecially to implement the DPPC 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 milestances achieved in the preceding seven years. This time period was dominated by the EPDRB and its sub-programmes which had been jointly agreed on by the Danube count, sites, (EEF/UNDP; EC) and other key partners such as NSOs.

The early development of a Btrategic Action Plan and then Joint Action Programme provided significant benefits through involuing 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 Plan (DRBMP).

Exceptional cooperation between the GEF/UNDP and EC ranged from their agreement to jointly manage the EPBRD 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 polaries to be effective. For example, to reduces nativitar, polarization, shortkerm polieisource investments in improved wastewater treatment and policies regulating programs in designed should be mixed with longerterm strategies aimed at reducing non-point, pollution from apricultural sources.

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 FBIM begins with quality information about the status of the environment and pressures impacting a. From 1991, numerous efforts were made to improve and harmonies data collection among all 13 courcives of the basis. Significant information-related outputs were achieved such as the Danbe River Basis Anapliss 2004, the international watter quality monitoring system, the DANUBE electronic information system, and courties reports, mage and invertories.

The attantion given to the production of quality information is now being channelied by the IDPDR 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 mees EU IVMD requirements by 2015, to be presented in the IDPBMP by 2008.

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 Basin, technologies have occiliauously been enhanced to provide the best information possible, from those involved in the international water quality monitoring system to progress with the webbased accidence early warring system.

Wastewater treatment utility managers in the basin will have access to a mathematical tool, 'ASTEC', that enhances their ability to make crucial cost, pricing and investment decisions. Another example is the demonstration sites tasting best agricultural practices to help farmers in seven countries reduce mathematical practices to help farmers in seven countries reduce mathematical countries and the seven countries reduce on mathematical countries and the seven countries reduce on the seven countries reduce on

6 PUBLIC PARTICIPATION AND COMMUNICATIONS

Information about major decisions and programmes was regularly disseminated to Danube stakeholders through various formats. Information added transparency to processes and important public input. NSDs enhanced information collection, incorportand local level realities, raised local awareness and mobilsed local action.



FUTURE OUTLOOK

After 15 years of building HBM, 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 apply HBM through the Water Framework Diractive (WFD). 'All eyes are on the Danuba' as water managers apply lessons to managing their own water bodies.

Given that the WFD is probably the most comprehensive and integrated water leightation in the work: this also makes the Danube a global flagship model for how to get FBM right, especially for GBF and for reducing nutrient policion. Utimatally, *GET/NUPP* efforts in the DanubeEtics. Sea areas could become a progressive model for expanding public awareness of the threats from nutries policion workwide.

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 bewene the IIOPR, 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 Intralian and pacticular use by farmerse, and thus water pollution, even though EU agricultural reforms are inters on reducing subsidies for interavier farming, in response, Danuber managere should continue differs to increase farmer awareness and the application of best agricultural practices (RAPA); and BMPs need to be promoted by governments.





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

- AEWS Accident Emergency Warning System ASTEC Accounts Simulation for Tariffs and Effluent Charges DAD Best Apricultural Practices CAR Common Agricultural Policy DABLAS Darube Black Sea Task Force DANLIRIS Danube Information System
- DEE Danube Environmental Forum DPRP Danube Pollution Reduction Programme
- DRP Danube Regional Project
- DRBMP Danube River Basin Management Plan
- Danube River Protection Convention DRPC
- Furnnean Commission EC.
- FPDRR Environmental Programme for the
- Danube River Basin
- EU European Union CEE
- Global Environmental Facility GIS Geographical Information Systems
- International Commission for the ICPDR
 - Protection of the Danube River
- IRBM Integrated River Basin Management

- IUCN The World Conservation Union w
 - International Waters Programme
 - Joint Action Programme
- JDS Joint Danube Survey

JAP

- MONERIS Modelling Nutrient Emissions Into River Systems
- NGO
- Non-governmental organisation PCII Programme Coordination Unit
- Strategic Action Plan
- SAP TDA Transboundary Diagnostic Analysis
- TNMN Trans-National Monitoring Network
- WFD Water Framework Directive
- INDP United Nations Development Programme
- LINECE United Nations Economic Commission
- for Europe UNESCO United Nations Educational, Scientific
 - and Cultural Organization
- UNOPS United Nations Office for Project Services Urban Waste Water Treatment Directive
- LIMONT World Bank
- WB WAVE
- World Wide Fund for Nature

