

EDT	Nombre de tarea	2008		2009		2010		2011		2012		2013	
		M2	M1										
I	<i>I.-Strengthening basin-wide cooperation capacity for integrated hydro-climate management</i>												
I.1	I.1-Harmonizing the institutional and legal framework												
I.1.1	Strenghtened technical insititutional capacity for LPB-IWRM												
I.1.1.A	I.1.1.A.-Facilitate basin-wide cooperation for adaptative-IWRM												
I.1.1.A.i	I.1.1.A.i-Steering Committee Meetings												
I.1.1.B	I.1.1.B.-Balancing national capabilities for TDA and SAP preparation												
I.1.1.C	I.1.1.C.-Implement institutional capacity building program												
I.1.1.D	I.1.1.D.-Organize inter-institutional knowledge exchange Program												
I.1.2	I.1.2-Conceptual legal framework												
I.1.2.A	I.1.2.A.-Compile and prepare an adaptative-transboundary IWRM conceptual legal framework												
I.1.2.B	I.1.2.B.-Agree on recommendations for conceptual legal framework												
I.1.3	I.1.3-The LPB-Decision Support System (LPB-DSS)												
I.1.3.A	I.1.3.A.-Coordinate and assess LPB national daabases under institutional and legal agreements												
I.1.3.B	I.1.3.B.-Operationalize LPB-Decision Suport System (LPB-DSS)												
I.1.3.C	I.1.3.C.-Complete water resources uses and stakeholders reference system												
I.1.3.D	I.1.3.D.-Compile Digital Map for LPB												

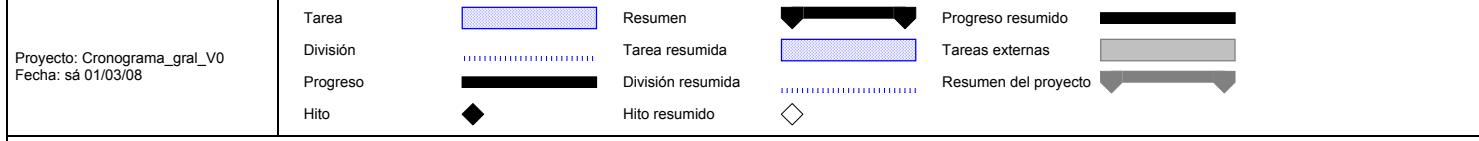
Proyecto: Cronograma_gral_V0 Fecha: sá 01/03/08	Tarea		Resumen		Progreso resumido	
	División		Tarea resumida		Tareas externas	
	Progreso		División resumida		Resumen del proyecto	
	Hito		Hito resumido			

EDT	Nombre de tarea												
		2008		2009		2010		2011		2012		2013	
		M2	M1										
I.2	I.2-Stakeholder Participation, Communication and Education												
I.2.1	I.2.1-Public Participation Program												
I.2.2.A	I.2.1.A.-Engage stakeholders involvement in managing the LPB												
I.2.1.B	I.2.1.B.-Document good practices and lessons learnt for preparing the TDA and SAP												
I.2.1.C	I.2.1.C.-Prepare and implement the communication plan												
I.2.1.D	I.2.1.D.-Engage local participation in priority activities and pilot demonstrations												
I.2.2	I.2.2-Public awareness education programme												
I.2.2.A	I.2.2.A.-Compile and prepare education and training material												
I.2.2.B	I.2.2.B.-Sign conventions and agreements between CIC and institutions for knowledge exchange												
I.2.3	I.2.3-Public Participation Fund (PPF) for IWRM												
I.2.3.A	I.2.3.A.-Establish a PPF for IWRM												
I.2.3.B	I.2.3.B.-Organize and facilitate the first call for proposals												
I.2.3.C	I.2.3.C.-Organize and facilitate the second call for proposals												

Proyecto: Cronograma_gral_V0 Fecha: sá 01/03/08	Tarea		Resumen		Progreso resumido	
	División		Tarea resumida		Tareas externas	
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	Hito		Hito resumido			

EDT	Nombre de tarea			2008		2009		2010		2011		2012		2013	
		M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1
I.3	I.3-Monitoring and Evaluation Plan														
II.3.2	I.3.1..-Project progress monitoring network														
II.3.2	I.3.2..-Performance evaluations														

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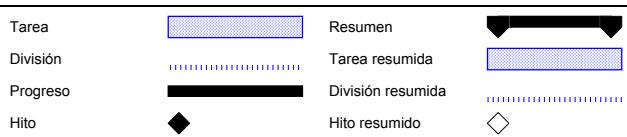


EDT	Nombre de tarea	2008		2009		2010		2011		2012		2013
		M2	M1	M2								
II	II.-Integrated Water Resources Management											
II.1	II.1-LPB integrated water balance methodology											
II.1.1	II.1.1-Operational integrated water balance (IWB) methodology											
II.1.1.A	II.1.1.A.-Develop a IWB methodology											
II.1.1.B	II.1.1.B.-Agree to adopt IWB methodology											
II.1.2	II.1.2-IWB LPB											
II.1.2.A	II.1.2.A.-Compile information and generate database											
II.1.2.B	II.1.2.B.-Develop capacity for understanding LPB's water balance											
II.1.2.C	II.1.2.C.-Calculate Phase I: surface water balance											
II.1.2.D	II.1.2.D.-Asses water use and demand											
II.1.3	II.1.3-IWB information disseminated											
II.1.3.A	II.1.3.A.-Disseminate water balance information											

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EDT	Nombre de tarea												
		2008		2009		2010		2011		2012		2013	
		M2	M1										
II.2	II.2-Water quality assessment and monitoring												
II.2.1	II.2.1-Information												
II.2.1.A	II.2.1.A.-Strenghten water quality riparian institutions												
II.2.1.A.i	II.2.1.A.i-Identification of Institutions												
II.2.1.A.ii	II.2.1.A.ii-Identification of necessities												
II.2.1.B	II.2.1.B.-Integrate basin-wide water quality monitoring network (in coordination with I.1.3 (b))												
II.2.1.B.i	II.2.1.B.i-Design and implementation of computation tools												
II.2.1.B.ii	II.2.1.B.ii-Taking Samples												
II.2.1.B.iii	II.2.1.B.iii-Analysis of the Samples												
II.2.1.B.iv	II.2.1.B.iv-Equipment acquisition												
II.2.1.B.v	II.2.1.B.v-Monitoring and evaluation of the operation of the Network												
II.2.1.C	II.2.1.C.-Inventory sources of pollution												
II.2.1.C.i	II.2.1.C.i-Evaluation and inventory of urban and rural discharges												
II.2.1.C.ii	II.2.1.C.ii-Evaluation and inventory of urban and rural discharges - Urban Sewage Discharges												
II.2.1.C.iii	II.2.1.C.iii-Evaluation and inventory of urban and rural discharges - Mining and Industrial Discharges												
II.2.1.C.iv	II.2.1.C.iv-Evaluation and inventory of urban and rural discharges - Disperse urban and passive rural discharges												
II.2.1.C.v	II.2.1.C.v-Evaluation of clean technologies employed in the basin -												
II.2.1.C.vi	II.2.1.C.vi-Evaluation of clean technologies employed in the basin - Sewer System exit discharges												
II.2.1.C.vii	II.2.1.C.vii-Evaluation of clean technologies employed in the basin - Mining and Industrial Discharges												
II.2.1.C.viii	II.2.1.C.viii-Evaluation of clean technologies employed in the basin - Management of agrochemical and dangerous residues												
II.2.1.C.ix	II.2.1.C.ix-Evaluation of the norms and limits in direct discharge dumping -												
II.2.1.C.x	II.2.1.C.x-Evaluation of the norms and limits in direct discharge dumping - Norms and permits for the control of sewage discharges												
II.2.1.C.xi	II.2.1.C.xi-Evaluation of the norms and limits in direct discharge dumping - Norms and permits for the control of industrial and mining discharges												
II.2.1.C.xii	II.2.1.C.xii-Evaluation of the norms and limits in direct discharge dumping - Norms and permits for the control of diffuse discharges												
II.2.1.C.xiii	II.2.1.C.xiii-Proposal for limits on dumping in transboundary rivers												
II.2.1.C.xiv	II.2.1.C.xiv-Updating of the database												
II.2.2	II.2.2-LPB environmental degradation model												
II.2.2.A	II.2.2.A.-Inventory existin environmental degradation models used in the LPB												
II.2.2.A.i	II.2.2.A.i-Inventory of the existing ecological models in the Basin												
II.2.2.A.ii	II.2.2.A.ii-Application of the available models												
II.2.2.A.iii	II.2.2.A.iii-Selection of the models and incorporation of the results												
II.2.2.A.iv	II.2.2.A.iv-Identification of critical zones												
II.2.2.B	II.2.2.B.-Develop an environmental degradation forecasting model												
II.2.2.B.i	II.2.2.B.i-Design and implementation of the ecological models												
II.2.2.B.ii	II.2.2.B.ii-Identification of information gaps. Identification of relevant organizations												
II.2.2.B.iii	II.2.2.B.iii-Identification of critical zones												
II.2.2.C	II.2.2.C.-Consolidate and integrate data systems into the LPB-DSS												
II.2.2.C.i	II.2.2.C.i-Integration and consolidation of the existing data within the Basin												

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		M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1
II.2.2.C.ii	II.2.2.C.ii-Critical Areas for future Projects														
II.2.2.C.iii	II.2.2.C.iii-Formulation of Future Scenarios														
II.2.3	II.2.3-Water quality action plan														
II.2.3.A	II.2.3.A.-Identify legal framework for water quality objectives														
II.2.3.A.i	II.2.3.A.i-Creation of a water quality objectives proposal														
II.2.3.A.ii	II.2.3.A.ii-Definition and calibration of the water quality objectives														
II.2.3.B	II.2.3.B.-Prepare a water quality management training program														
II.2.3.B.i	II.2.3.B.i-Technical Training														
II.2.3.B.ii	II.2.3.B.ii-Professional Exchange Programs														
II.2.3.B.iii	II.2.3.B.iii-Field Training														
II.2.3.B.iv	II.2.3.B.iv-Intercalibration														
II.2.3.C	II.2.3.C.-train and disseminate water quality information														
II.2.3.D	II.2.3.D.-Prepare water quality action plan														

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EDT	Nombre de tarea	2008		2009		2010		2011		2012		2013
		M2	M1	M2								
II.3	II.3-Integrated groundwater management											
II.3.1	II.3.1-Priority Activity: Sustainable Management of the Yrenda-Toba-Tarijeño Aquifer (SAYTT) System											
II.3.1.A	II.3.1.A.-Establish technical coordination unit											
II.3.1.B	II.3.1.B.-TDA: Conduct a transboundary hydro-geological analysis											
II.3.1.C	II.3.1.C.-Analyze the transboundary groundwater's legal, institutional and socio-economic situation											
II.3.1.D	II.3.1.D.-TDA: conduct consultation syntheze information											
II.3.1.E	II.3.1.E.-Prepare a SAYTT strategy											
II.3.1.F	II.3.1.F.-prepare and execute a SAYTT pilot demonstration											
II.3.2	II.3.2-Guidelines for integrated basin-wide groundwater management for the LPB											
II.3.2.A	II.3.2.A.-Conduct transboundary hydro-geological analysis for the entire basin											
II.3.2.B	II.3.2.B.-Characterize basin aquifers											
II.3.2.C	II.3.2.C.-Integrate regional experiences											
II.3.2.D	II.3.2.D.-Prepare Guidelines for conjunctive management of surface and groundwater											

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EDT	Nombre de tarea												
		2008		2009		2010		2011		2012		2013	
		M2	M1	M2									
II.4	II.4-LPB ecosystem management												
II.4.1	II.4.1-North-south wetland corridor management strategy												
II.4.1.A	II.4.1.A.-Compile and integrate existing basin ecosystem information												
II.4.1.B	II.4.1.B.-Design a North-South wetland corridor management strategy												
II.4.2	II.4.2-Priority Activity: "Cultivando Agua Boa" in the Itaipu dam's reservoir sub-basin												
II.4.2.A	II.4.2.A.-Plan and design CAB priority activity												
II.4.2.A.i	II.4.2.A.i-Planning												
II.4.2.A.ii	II.4.2.A.ii-Workshop												
II.4.2.B	II.4.2.B.-Identify and plan specific farm interventions												
II.4.2.C	II.4.2.C.-Implement specific farm interventions												
II.4.2.C.i	II.4.2.C.i-Farms conditions												
II.4.2.C.ii	II.4.2.C.ii-Farms investment												
II.4.2.D	II.4.2.D.-Monitor and evaluate intervention activities												
II.4.2.D.i	II.4.2.D.i-Monitoring and evaluation												
II.4.2.D.ii	II.4.2.D.ii-Evaluations												
II.4.3	II.4.3-Sustainable biodiversity management strategy for the LPB												
II.4.3.A	II.4.3.A.-Prepare sustainable management framework for biodiversity / fisheries / aquaculture resources												
II.4.3.B	II.4.3.B.-Desing sustainable management strategy for the upper catchment area												

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EDT	Nombre de tarea	2008		2009		2010		2011		2012		2013	
		M2	M1										
II.5	II.5-Controlling Land Degradation												
II.5.1	II.5.1-Land degradation diagnostic analysis												
II.5.1.A	II.5.1.A.-Assess and compile basin-wide data and information on land degradation												
II.5.1.B	II.5.1.B.-Evaluate the soil erosion processes in the basin												
II.5.1.C	II.5.1.C.-collect, compile and disseminate informationon best-practices for land degradation control for the LPB												
II.5.2	II.5.2-Priority Activity: "Selva Misionera Paranaense (SMP)"												
II.5.2.A	II.5.2.A.-Compyle and analyze available technical technical information												
II.5.2.B	II.5.2.B.-Prepare SMP pilot activity												
II.5.2.C	II.5.2.C.-Implement SMP pilot activity												
II.5.3	II.5.3-Basin-wide land degradation control stategy												
II.5.3.A	II.5.3.A.-Compile and integrate information and lessons learnt												
II.5.3.B	II.5.3.B.-Prepare basin-wide land degradation control strategy												

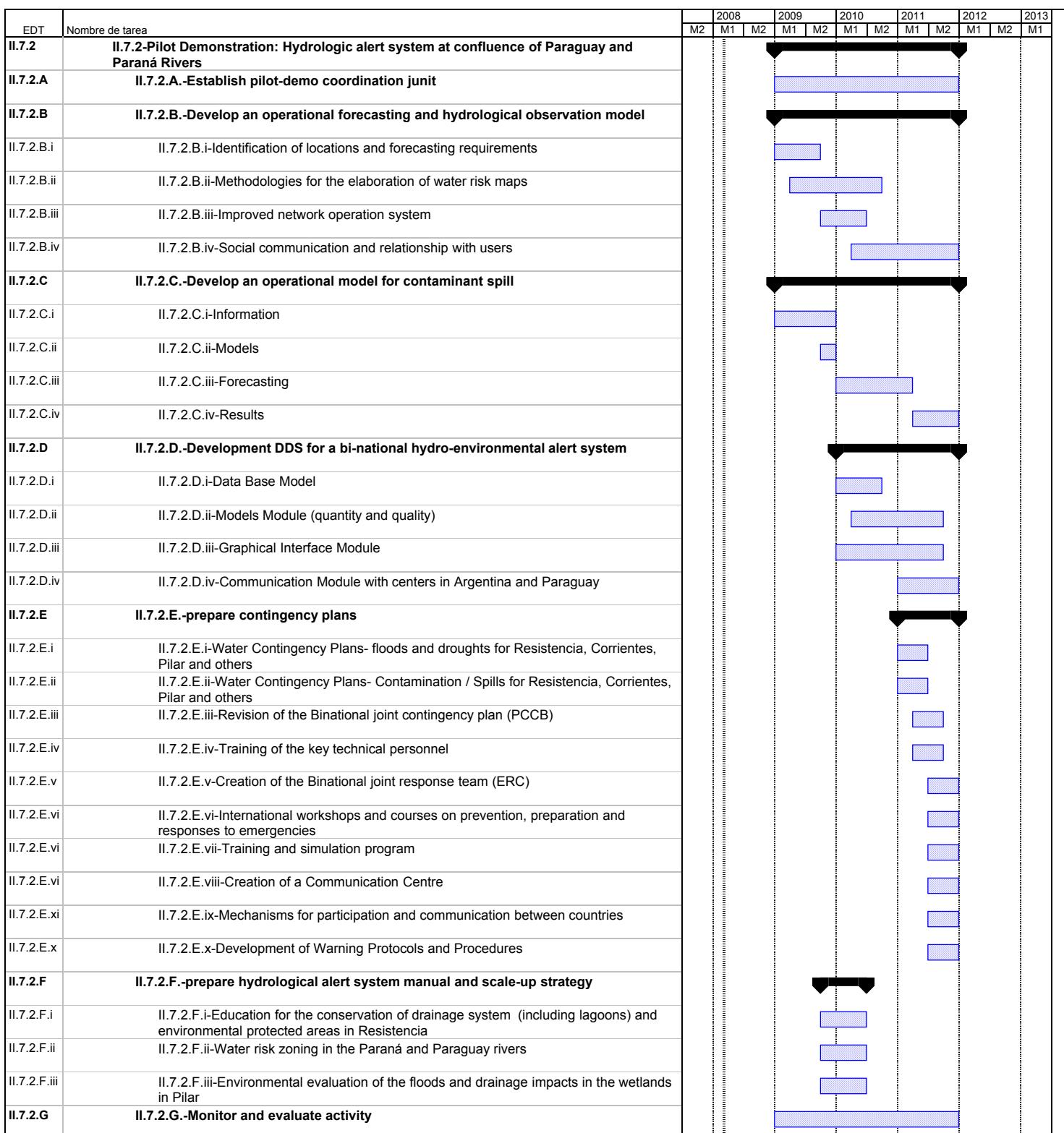
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EDT	Nombre de tarea			2008		2009		2010		2011		2012		2013
		M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2
II.6	II.6-Sustainable Development Opportunities													
II.6.1	II.6.1-Priority Activity: Clean technologies to mitigate climate change													
II.6.1.A	II.6.1.A.-Explore opportunities for clean technologies to mitigate climate change													
II.6.1.B	II.6.1.B.-select areas for mutual cooperation and secure financing													
II.6.2	II.6.2-Priority Activity: Nautical Ecotourism (NE) in the Lower Uruguay River/Parana Delta													
II.6.2.A	II.6.2.A.-Study the socio-economics aspects of nautical/cultural tourism													
II.6.2.B	II.6.2.B.-Study the environmental aspects of nautical/cultural tourism													
II.6.2.C	II.6.2.C.-Asses the opportunitiesand investment potential													
II.6.2.D	II.6.2.D.-Develop proposals for eco.cultural nautical tourism													
II.6.2.E	II.6.2.E.-Implement and prepare implementation and financial framework to replicate priority activity													

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EDT	Nombre de tarea	2008		2009		2010		2011		2012		2013
		M2	M1	M2								
II.7	II.7-Pilot demonstration and scaling-up strategy											
II.7.1	II.7.1-Pilot demonstration: Control Contamination and Erosion in the Pilcomayo River											
II.7.1.A	II.7.1.A.-Establish a pilot-demo coordination unit											
II.7.1.B	II.7.1.B.-Identify control and mitigation measures for mine contamination in Tans and train Tasna stakeholders on environmental management systems											
II.7.1.B.i	II.7.1.B.i-Environmental liabilities in the mining district of Tasna. Implementation of project "Control and environmental mitigation of Dam Colas Tasna Buen Retiro"											
II.7.1.B.ii	II.7.1.B.ii-Training of the Tasna Mining Association for the implementation of the environmental management system											
II.7.1.C	II.7.1.C.-Evaluate and approved integrated management plan for the Tupiza and Cotagaita basins											
II.7.1.C.i	II.7.1.C.i-Evaluation and approval of the Integrated Management Plan for the Tupiza and Cotagaita basin											
II.7.1.C.ii	II.7.1.C.ii-Incentives to farmers for conservation practices, biomechanics and reforestation											
2.7.1.3.3	II.7.1.C.iii-Implementation of conservation practices, biomechanics and reforestation											
II.7.1.D	II.7.1.D.-Design and implement, in coordination with sub-component II.2, a water quality monitoring system for the pilot area											
II.7.1.D.i	II.7.1.D.i-Design and implementation											
II.7.1.D.ii	II.7.1.D.ii-Efficient and effective dissemination of results											
II.7.1.E	II.7.1.E.-Monitor and evaluate and prepare scale-up strategy											
II.7.1.E.i	II.7.1.E.i-Final Report											

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Tarea Resumen Progreso resumido
División Tarea resumida Tareas externas
Progreso División resumida Resumen del proyecto
Hito Hito resumido

EDT	Nombre de tarea	Cronograma de ejecución											
		2008		2009		2010		2011		2012		2013	
		M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1
II.7.3	II.7.3-pilot demonstration: Water Use Conflict resolution in the Río Cuareim/Quarai Basin												
II.7.3.A	II.7.3.A.-establish pilot-demo coordination unit												
II.7.3.B	II.7.3.B.-Formulate an integrated management system												
II.7.3.B.i	II.7.3.B.i-Management Instruments												
II.7.3.B.ii	II.7.3.B.ii-Information Systems												
II.7.3.B.iii	II.7.3.B.iii-Social Participation												
II.7.3.B.iv	II.7.3.B.iv-Environmental Education												
II.7.3.C	II.7.3.C.-Asses sustainable use of water resources in pilot area												
II.7.3.C.i	II.7.3.C.i-Multiple uses of water												
II.7.3..ii	II.7.3.C.ii-Environmental monitoring												
II.7.3.C.iii	II.7.3.C.iii-Extreme situations												
II.7.3.D	II.7.3.D.-Put in place mechanisms for water resources conservation												
II.7.3.D.i	II.7.3.D.i-Mitigation of impacts												
II.7.3.D.ii	II.7.3.D.ii-Environmental conservation												
II.7.3.D.iii	II.7.3.D.iii-Land use planning												
II.7.3.E	II.7.3.E.-Monitor and evaluate and preare scale-up strategy												
II.7.3.E.i	II.7.3.E.i-Monitoring of progress												
II.7.3.E.ii	II.7.3.E.ii-Evaluation of performance and results												

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		M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2
II.7.4	II.7.4-Pilot Demonstration: Biodiversity Conservation in the Regulated Parana River													
II.7.4.A	II.7.4.A.-Establish pilot-demo coordination unit													
II.7.4.B	II.7.4.B.-Evaluate of basin's ichthyic fauna habitats													
II.7.4.B.i	II.7.4.B.i-Determination of critical aquatic habitats for fishes													
II.7.4.B.ii	II.7.4.B.ii-Determination of biodiversity and abundance of fishes													
II.7.4.B.iii	II.7.4.B.iii-Study on the migration of fishes													
II.7.4.B.iv	II.7.4.B.iv-Determination of the environmental parameters and calibration of simulation models													
II.7.4.B.v	II.7.4.B.v-The golden mussel and its relation with ichthyic fauna													
II.7.4.B.vi	II.7.4.B.vi-Simulation of habitat under different hydro climatic and management scenarios													
II.7.4.B.vii	II.7.4.B.vii-Determination of demographic parameters of fish population													
II.7.4.C	II.7.4.C.-Define a socio-economic legal framework for the basin's biodiversity													
II.7.4.C.i	II.7.4.C.i-Characterization of fishing activities													
II.7.4.C.ii	II.7.4.C.ii-Harmonization with legislation													
II.7.4.C.iii	II.7.4.C.iii-Training of participating stakeholders													
II.7.4.D	II.7.4.D.-prepare a biodiversity management plan and scale-up strategy													
II.7.4.D.i	II.7.4.D.i-Preparation of the preliminary management plan													
II.7.4.D.ii	II.7.4.D.ii-Proposal of final management plan													
II.7.4.E	II.7.4.E.-Monitor and evaluate pilot demonstration													

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		M2	M1	M2								
III	III.-Hydroclimatic Models and Scenarios for adaptation planning											
II.1	III.1-Hydroclimatic scenarios											
III.1.1	III.1.1-Basin-wide climate scenarios											
III.1.1.A	III.1.1.A.-Plan and provide training for climate issues											
III.1.1.B	III.1.1.B.-Complete a basin-wide gap analysis of basins models											
III.1.1.C	III.1.1.C.-Using the LPB-CLARIS model, develop hydro-climatic scenarios for the LPB											
III.1.2	III.1.2-Vulnerability assessment											
III.1.2.A	III.1.2.A.-Prepare hydrological alert risk map from hydro-climatic scenarios											
III.1.2.B	III.1.2.B.-Estimate climate change impacts											
III.1.3	III.1.3-Adaptation measures and public awareness											
III.1.3.A	III.1.3.A.-Formulate a set of adaptation measures to be incorporated into the SAP											
III.1.3.B	III.1.3.B.-Communicate with public on issues and adaptation measures											

Proyecto: Cronograma_gral_V0 Fecha: sá 01/03/08	Tarea		Resumen		Progreso resumido	
	División		Tarea resumida		Tareas externas	
	Progreso		División resumida		Resumen del proyecto	
	Hito		Hito resumido			

EDT	Nombre de tarea	2008		2009		2010		2011		2012		2013
		M2	M1	M2								
IV	<i>IV.-Transboundary Diagnostic Analysis (TDA) and Strategic Action Programme (SAP) Formulation</i>											
IV.1	IV.1-TDA and SAP											
IV.1.1	IV.1.1..-Hydro-climatic Assessment for TDA											
IV.1.1.A	IV.1.1.A.-Prepare hydro-climatic assessment for TDA											
IV.1.1.B	IV.1.1.B.-Generate forecasts and adaptation scenarios											
IV.1.1.C	IV.1.1.C.-Identify vulnerabilities and risks											
IV.1.1.D	IV.1.1.D.-Compile and integrate supplemental studies that support the TDA											
IV.1.1.E	IV.1.1.E.-Riparian counterparts endorse the TDA											
IV.2	IV.2-SAP Formulation											
IV.1.2.A	IV.1.2.A.-Collaborate with stakeholders, incorporate TDA-identified issues, and findings from priority activities and pilot-demonstrations into the SAP											
IV.1.2.B	IV.1.1.B.-Riparian counterparts endorse the SAP and pledge financing											

Proyecto: Cronograma_gral_V0
Fecha: sá 01/03/08

