

	REQUEST FOR TWINBASIN^{xn} SUPPORT	Number of pages : 1 / 7
--	---	----------------------------

Last Call for Proposals

Please return by Electronic way to twinbasin@oieau.fr.

• Names and References of Twinned Basin Organisations

1. Basin Organisation: *IVL, Swedish Environmental Research Institute*.....
Street/ PO Box: *Valhallavägen 81,*
Postal Code: *100 31*..... **City:** *Stockholm*.....
Country: *Sweden*.....
Contact Person: *Dr.*.....
Name: *Ekstrand* **First Name:** *Sam*.....
Telephone: *+46 8 59856345*..... **Fax:** *+46 8 59856390*.....
E-mail: *sam.ekstrand@ivl.se*.....


Objective of your basin organism in this twinning:

- 1. To promote capacity building of river basin organizations, to improve their expertise, and to help them, through twinning, to overcome water management problems.*
- 2. To learn from the Latin-American members, the water management problems at local level and the feasibility of applying the EU Water Framework Directive*

2. Basin Organisation: *DNH, Dirección Nacional de Hidrografía*.....
Street/ PO Box: *Rincón 575, Piso 2*.....
Postal Code: **City:** *Montevideo*
Country: *Uruguay*.....
Contact Person: *Mr.*
Name: *Arcelus*..... **First Name:** *Alejandro*.....
Telephone: *+598 2 916 4783*..... **Fax:** *+598 2 916 4783*
E-mail: *arcelus@dnh.gub.uy*

Objective of your basin organism in this twinning:

- 1. To improve the DNH's technical capacities for granting water rights (water quantity) in the Cuareim basin*
- 2. To develop a more efficient database (design and utilisation)*

	REQUEST FOR TWINBASIN^{xn} SUPPORT	Number of pages : 2 / 7
--	---	----------------------------

3. To develop better communication tools (stakeholder involvement)

3. Basin Organisation: CIEMA, Centro de Investigación y Estudios del Medio Ambiente

Street/ PO Box: Avenida Universitario, de la Rotonda Rubén Darío 200 m al Oeste y 100 m al Norte

Postal Code: _____ City: Managua

Country: Nicaragua

Contact Person: Mr.

Name: Gámez _____ First Name: Sergio

Telephone: +505 270 1515 _____ Fax: +505 270 1515

E-mail: sergio.gamez@ciema.uni.edu.ni

Objective of your basin organism in this twinning:

1. To improve the technical capacities in database construction and modelling tools in order to use them in the IWRM for Nicaragua Lake
2. To apply hydrological models for water quality issues
3. To learn new technological tools for better stakeholder involvement

5. Basin Organisation: UNIGECC, Unidad de Gestión del Proyecto de la Cuenca Binacional Catamayo-Chira

Street/ PO Box: Avenida Chirichigno s/n

Postal Code: _____ City: Piura

Country: Perú

Contact Person: Ms.

Name: Alonso _____ First Name: Mercedes

Telephone: +51 73 32 33 71 _____ Fax: +51 73 32 33 71

E-mail: malonso@aeci.org.pe

Objective of your basin organism in this twinning:

1. To improve technical capacities in the erosion and transport of sediment aspects for better IWRM in the Catamayo-Chira basin (transboundary basin)
2. To develop better communicational tools helping the IWRM for transboundary basins
3. To apply hydrological models for water quality issues

	REQUEST FOR TWINBASIN^{xn} SUPPORT	Number of pages : 3 / 7
---	---	----------------------------

- **Programme of exchanges 2007 :**

- ➔ **Mission 1**

- **Topic :**

Exchange of expertise, knowledge and technical personnel promoting the strength and effectiveness of integrated water management within organizations. The main expected result is the strengthening of the effectiveness for integrated water management within the national network of the agreement members.

- **Main objectives (Please provide sufficient details):**

During a period of three weeks, the experts/professionals coming from the Latin-American basins will receive theory and practice in: database design/construction and the connection to different simulation models. The Latin-American members of this mission are already working in the implementation of IWR Plans in 3 basins and their main technical interest are related to:

- a) UNIGECC (Catamayo-Chira basin): Water Quality and Erosion modelling mainly through the use of SWAT and WATSHMAN models.*
- b) DNH (Cuareim basin): Water distribution (quantity). Use of MODSIM water distribution model mainly for granting water rights (rice production).*
- c) CIEMA (Nicaragua Lake basin): Water quality modelling. Implementation of source distribution and nutrients modelling (WATSHMAN).*

Additionally, one of the main problems in Latin-American countries is the weak structure promoting public participation and stakeholder involvement. Advanced tools and new development promoting an integral view are not applied in most of the Region. A web tool for public participation and stakeholder involvement has been further developed by IVL and it will be transferred to the Latin-American partners of this proposal.

A second exchange will be carried out as a follow up. This follow up will be done by two of the IVL experts who will assist the Latin-American participants in more specific problems (on-job-training). This activity will occur within four months following the first exchange.

It is important to mention that two of the Latin-American members of this proposal (Catamayo-Chira and Cuareim basins) are transboundary basins with specific problems when coordinating activities and implementing action for IWRM. The need for technical tools for communicating environmental and hydric problems between basin organisations is scarce in those countries making difficult the consensus for implementing sustainable solutions.

The activities mentioned to be carried out in this proposal are also part of the overall objectives of the TWINLATIN project where the members of this proposal are partners.

	REQUEST FOR TWINBASIN^{xn} SUPPORT	Number of pages : 4 / 7
--	---	--------------------------------

TWINLATIN has been in operation since September 2005 with a three-year duration. During the first year efforts have focused on defining prioritised needs from each of the basins, the stakeholder involvement, the data availability, and the construction of a harmonised database. The current relationships are aimed at filling knowledge gaps and providing the basis for the establishment and improvement of integrated water resources management plans (IWRP).

However, the current funding is limited compared to the gaps in knowledge identified. The partners have decided to look for additional sources of financing a more concrete training program where the central issues are: Database construction and Modelling applications.

Specific Objectives:

- 1. To start a training program held by IVL having as central topics database construction and Modelling Applications (simulation models for IWRM). More specifically, to develop a harmonised Database and its connections to different model tools (SWAT, PCRaster, MODSIM, Watshman, other).*
- 2. To strengthen technical capacities in the use and management of different models, supporting a more effective Integrated Water Resources Management.*
- 3. To implement innovative communication tools in the basins: Nicaragua Lake (Nicaragua), Catamayo-Chira (Perú/Ecuador) and Cuareim (Uruguay/Brazil) and to create links to the other basins in the Region.*

• Missions' outputs:

- a) 6 professionals trained with theory and practice of database design/construction and the connection to different simulation models*
- b) 6 professionals trained with theory and practice in using modelling tools adapted to their respective local problems*
- c) A working plan (detailed activity program) for the 6 professionals including the gaps and methods and knowledge to be used as a bridge for covering the gaps identified.*
- d) A preliminary web tool design (ArcIMS) for stakeholder involvement and public participation*
- e) Identification of data requirements for running different simulation models and their restrictions*
- f) Creation of a Latin-American network of experts that could assist other basins in their or outside of their countries in the topics mentioned.*
- g) Better understanding of the Latin-American water management problems and the identification of adjustments required for the model tools that are being transferred.*

• Results indicators:

Application and evaluation of simulation models in each of the basin
A working plan for each of the basins
.....

	REQUEST FOR TWINBASIN^{xn} SUPPORT	Number of pages : 5 / 7
--	---	----------------------------

A preliminary web tool design (ArcIMS) for stakeholder involvement and public participation

Organisation of a workshop in each of the basins participating in this Twinbasin proposal as a way of transferring the knowledge gained (target group: basin organisations and stakeholders).

• Host Basin Organisation: IVL Swedish Environmental Research Institute

• Place: Stockholm, Sweden

• Duration of stay within Twinned organisation: 3 weeks

• Estimated calendar about mission implementation (month/year): March 2007

• Number of experts involved: 6 experts from Latin-American basins and 4 experts from IVL

• Expert profile (attach CV):

In the attachment are included 6 CV from the Latin-American experts/professionals

• Twinbasin cost:

(The cost of IVL experts will be covered by other financial sources). The table below shows the cost concerning the Latin-American experts/professionals participation.

Air ticket (€) (per expert)	Per diem (per expert)		Number of experts involved	TOTAL (€)
	Days	x 70 €		
1000	21		6	14820

	REQUEST FOR TWINBASIN^{xn} SUPPORT	Number of pages : 6 / 7
---	---	----------------------------

• **Programme of exchanges 2007 :**

➔ **Mission 2**

• **Topic :**

Follow up - exchange of expertise, knowledge and technical personnel promoting the strength and effectiveness of integrated water management within organizations. This follow up will be carried out by 2 experts from IVL who will travel to one or two of the River Basins.

• **Main objectives (Please provide sufficient details):**

1. To evaluate the application of the new knowledge in the respective basin
2. To support the implementation of IWRM in the basins, helping in solving technical problems
3. To design a work plan in each of the basin with a detailed activity program for future technical training
4. To identify knowledge and methods gaps for implementing IWRM using the EU WFD.
5. To solve specific problems in each of the basins

• **Missions' outputs:**

Technical evaluation of the knowledge gained
Technical evaluation of the application of model tools in the basins according to the areas of interest of each basin (water quality, quantity, erosion, etc).
Evaluation of the dissemination of knowledge within the basin organisation participating in this Twinbasin proposal

• **Results indicators:**

Use of the knowledge gained into the IWRM in the respective basins
Increase of the number of stakeholder in the discussion of IWRM in the respective basins

• **Host Basin Organisation: To be agreed by the LatinAmerican members.**

• **Place: To be agreed by the LatinAmerican members.**

• **Duration of stay within Twinned organisation: 2 weeks**

• **Estimated calendar about mission implementation (month/year): August 2007**

• **Number of experts involved: 6 experts from Latin-American basins and 2 expert from IVL**

• **Expert profile (attach CV):**

In the attachment are included the CV of the IVL experts. Two of them will be part of this second exchange

• **Twinbasin cost:**

	REQUEST FOR TWINBASIN^{xn} SUPPORT	Number of pages : 7 / 7
--	---	----------------------------

(The cost of the Latin-American experts/professionals will be covered by other financial sources). The table below shows the cost concerning the 2 IVL experts participation.

Air ticket (€) (per expert)	Per diem (per expert)		Number of experts involved	TOTAL (€)
	Days	x 70 €		
1000	14		2	3960