

STREAM

Support to Regional Aquatic Resources Management

Promoting participation, communication, and policies in support of livelihoods of poor aquatic resource users in the Asia-Pacific

Back to Office Report

Pakistan

30.5-3.6.04

Graham Haylor



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1 Background

The 'Support to Regional Aquatic Resource Management' – STREAM Initiative is a long-term multi-lateral, multi-donor initiative of the intergovernmental organization the Network of Aquaculture Centers in Asia Pacific (NACA) in support of poverty alleviation through aquatic resources management. This initiative is not funded by the core NACA budget but by donor funds. Membership of STREAM is not automatic, although NACA member governments can request to become partners.

Some of the funding for the initiative currently comes from an FAO Regional Technical Cooperation Program project TCP/RAS/2908(T). At the time of designing the TCP proposal, Pakistan had not made a request to join the STREAM Initiative and therefore was not at that time included in the activities for which funding was requested from FAO.

Following the onset of the TCP, the NACA Director General and the STREAM Director received an e-mail (25.6.03) from Mr. Jacob Sterringa Country Project Officer Operations Branch, RAPR Bangkok requesting if NACA and STREAM could accommodate Pakistan more fully in the RTCP activities.

Initially, we were unable to accommodate this request as NACA had received no request from Pakistan to become a partner country of the STREAM Initiative. We were therefore very happy that NACA received a request from Pakistan at its Technical Advisory Committee meeting in July 2003 to become members of the STREAM Initiative.

I am happy to report that FAO have provided funds for me to visit Pakistan for 5 days to negotiate a Partnership Agreement agree a National Co-ordinator for STREAM in Pakistan and begin the process of recruiting a Communications Hub Manager. We have also obtained agreement for funds from FAO for supporting the establishment of the Communications Hub and to conduct an Aquatic Resources and Poverty Review and a Country Strategy Paper.

What STREAM is (and isn't):

- The STREAM Initiative is a learning and communications initiative within the 5-year work programme of NACA.
- STREAM's reports to the Governing Council of NACA but also to the donors which fund its work.
- STREAM provides a platform for improved regional communications amongst national partners and for national as well as regional development support for poverty alleviation through support to aquatic resources management. It operates currently in Cambodia, India, Indonesia, LaoPDR, Myanmar, Nepal, Philippines, Sri Lanka, Vietnam and Yunnan (China).
- Each of the national STREAM partners will already have the role of communications and (sharing) learning within their country (e.g. extension, networking, sharing experiences and learning amongst farmers, fisher or organisations to support these)
- STREAM is not itself a donor but can provide useful support to accessing donor funds.

What happens next?

As the STREAM Initiative has developed we have proposed a way of working with new national partners called the Country Strategy Paper Planning Kit. This is not a *blue print* but a guide to the first 6-9 months of proposed activities which are related to developing a strategic plan. The final output of this process is a **Country Strategy Paper** (CSP) and the outcome is a **national network of informed partners** linked with similar networks in other countries through the Regional STREAM Initiative. This CSP planning process has 11 steps and includes **establishing a Communications Hub** with a suitable partner organisation, conducting **an aquatic resource and poverty review, linking with different stakeholders**

nationally and regionally and more. The CSP Planning Kit has been provided to provincial fisheries heads and the Federal Fisheries Commission and can also be downloaded from www.streaminitiative.org (look under STREAM Overview > Ways of Working).

There are 2 key positions associated with STREAM work, a National Co-ordinator usually a senior member of the appropriate line agency, this is not a full time post but more a key contact person (often an *in kind* form of support from the national government). The second position is full time for a communications specialist (see below). Finally the STREAM Initiative partners are linked to the internet and the possibility to join "Netmeetings" which link Communication Hub Managers through the internet. STREAM has obtained donor support for this equipment.

2 Meetings and discussions

The visit schedule to Pakistan is shown in Appendix 1; this involved meeting in Islamabad with the federal government, the FAO representative Dr Ronny Adhikarya and representatives of the fisheries administrations of three of the four provinces. This was followed by a visit to Punjab Department of Fisheries, the Joint Secretary and the Fisheries Research and Training Institute near Lahore. The inter-provincial meeting was held on Tuesday 1 June in the NARC meeting room, Islamabad. The following people attended the STREAM meeting in Islamabad:

Ghulam Muhammad Mahar	Director of Fisheries Sindh
Dr Muhammad Ayub	DG Fisheries Punjab
Raja Habib-Ur-Rehman	Dept Director Fisheries (Fish Hatchery) Punjab
Umar Hayat	Director of Fisheries NWFP
Jameel Ahmad	Fisheries Development Commissioner MINFAL
Dr Muhammad Hayat	Assistant Fisheries Development Commissioner - I
Noor Elahi	Assistant Fisheries Development Commissioner

Following an introduction by the Fisheries Development Commissioner, the STREAM Director presented information about the STREAM initiative. This highlighted the relationship between STREAM and NACA, sources of funds (see figure 1), partnerships and the countries where STREAM is currently operating (see figure 2).

Next Umar Hayat Director Fisheries NWFP, Dr Ayub Director General Fisheries Punjab and Ghulam M Mahar Director Fisheries discussed and presented information about their provinces.

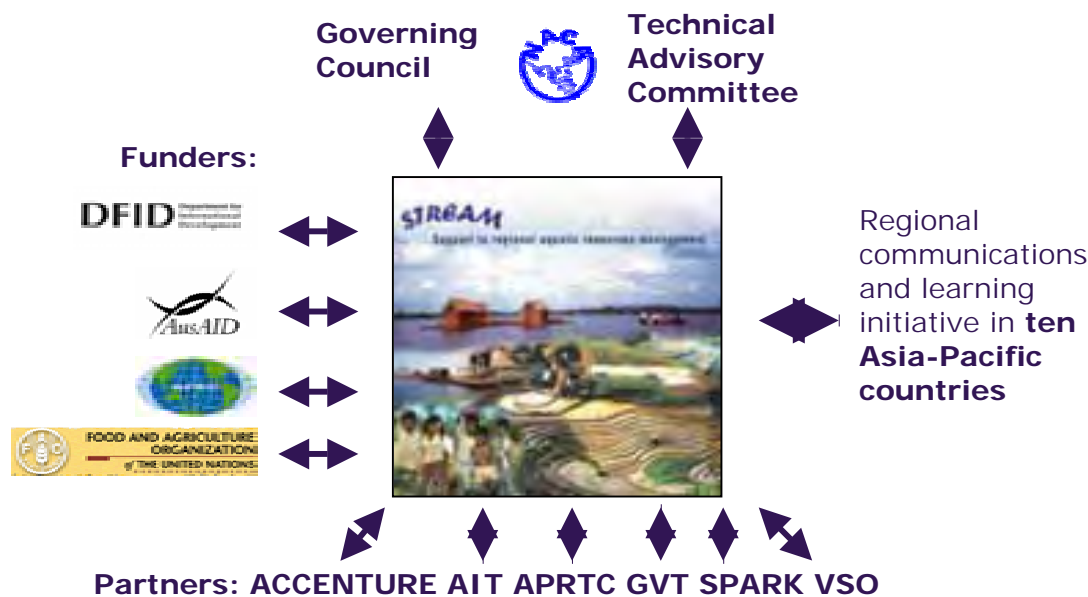


Figure 1: Partnerships and relationships with STREAM

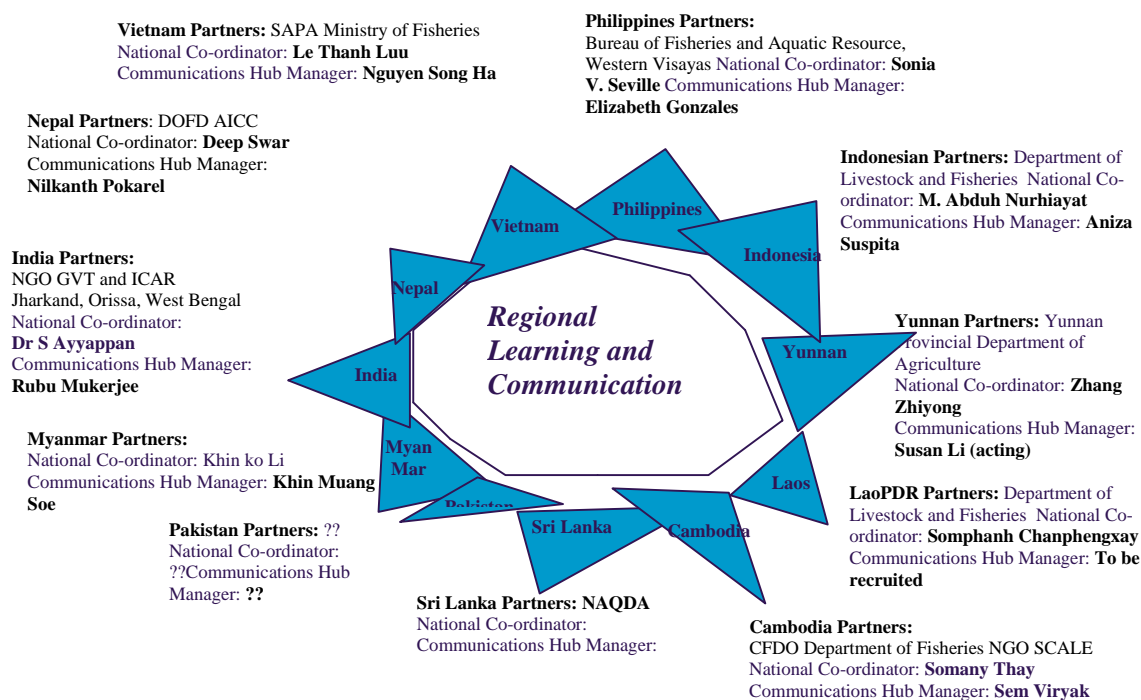


Figure 2: STREAM country partners in regional communication and learning

The provinces of Pakistan are quite varied in terms of their climate, ecology, ethnicity and governance. Ranging from the mountainous North Western Frontiers Province to the plains of Punjab irrigated from five major rivers contiguous with the hotter Sindh province running down to the southern coast of Pakistan and bordering the more remote and dryer Baluchistan province. Through presentations and discussion the provincial fisheries directors highlighted the contemporary issues for them.

In NWFP many people's livelihoods opportunities are highly seasonal, April to October. The rest of the year is either snow bound or the tourist industry related options are unavailable. In addition, recent political events within Afghanistan and between Pakistan and India have diminished tourist numbers. This has impacted the many people working as fishing guides in the Kaghan Valley and around Naran town in Manshera District and around Kalam town and Mingora town in Swat District. Swat District is also home to people fishing for Snow trout with Cast Nets. There are up to 12 carp farms, and some 6-10 trout farms servicing a small tourist market. The price for trout Rs 250/kg is considerably higher than carp though the market is small.

Umar Hayat picked up on some of the work presented by STREAM from other countries, especially areas from which Pakistan could learn lessons. He said that leasing of water bodies in Pakistan disadvantages poor people because rich people capture leases and sub-contract at low wages to fishers. He asked if STREAM experiences from India relating to changes in leasing policy might be shared with Pakistan. He said that voices of poor people who fish as described from India, are also little heard in Pakistan again he hoped Pakistan could learn from others through STREAM. He said that community co-management of fisheries described as emerging now in Cambodia was highly relevant also to Pakistan. Especially in places like Manshall Lake which had decreased greatly in size with the recent four years of drought (which has shrunk from 200km² to 30 acres) and instead of being leased is being managed by the Fisheries Department. Dr Hayat said there is a need for support in how best to manage this situation with few fish and many livelihoods dependent on fishing. He said that like Hun Sen in Cambodia, President Musharref himself saw a need to intervene.

He highlighted other issues related to water management and impacts on fisheries, citing Chotiari reservoir created from a series of water bodies called Bakar lakes by WAPDA raising dykes. Fish which previously entered the system now by-passed through the Nara Canal so now there was no flood and no new stock to replenish the reservoir. A similar situation was described from the 60 km² Kinjher Lake.

The Hilsha fishery had been much reduced by barrage construction, like the Kothar Barrage which cuts off the Hilsha migration 200 km from the sea and prevents the flood which provides the fishes with their spawning ground.

Some of the very poorest fishers are to be found around Chashma Barrage between NWFP and Punjab and with fishing rights administered by WAPDA, as well as Taunsa Barrage and Balloki Barrage.

Dr Ayub (DG Fisheries Punjab) said that essentially NWFP has a cool water ecosystem as well as some warm waters, Sindh has some very large lakes and reservoirs whilst in Punjab one finds the largest continuous canal irrigation system in the world as well as a series of mini dams constructed originally for irrigation but with more than 300 dams principally used for fisheries. He said that Punjab also has more than 8,000 mostly small-scale private sector fish farms. Most of these farms draw water from shallow tube-wells, and recent droughts have lowered the water table causing difficulties for poor farmer. Most waterlogged areas are now dried up and currently reclaimed for agriculture.

In Baluchistan most fishing is in coastal regions with some small-scale fresh water farms fed from small streams or sub-surface water.

From an administrative perspective canal and river fishing leases in Punjab are for one year only but reservoirs are under study with a view to extending fishing leases to 3 years. In Sindh, main rivers, canals and drainage waterways are all leased for 1 year and lakes, flood control compartments and abandoned river limbs are leased for 3 years.

Fish seed remains an arm of government support to the sector, although 70 hatcheries have been developed by the private sector in Punjab alone. Fourteen Government hatcheries produce an annual average of 60 million seed supplying Punjab, Sindh and Baluchistan as well as water bodies built and operated by the Water and Power Development Administration (WAPDA).

Research and training is especially provided by the Federal National Agricultural Research, Centre Animal Sciences Institute near Islamabad and in Punjab by the Fisheries Research and Training Institute near Lahore. Links to academia include the Masters Student projects at NARC and the 6 month diploma at FTRI.

The STREAM Director met with the Secretary to the Ministry to brief him on the STREAM Initiative and Dr Hayat provided an update on the arrangements for STREAM implementation within Pakistan. The team visited the FAO Resident Representative, FAO are funding the STREAM start-up. There were broad ranging discussions regarding livelihoods approaches and also monitoring and evaluation.

The STREAM Director then met separately with the Dept Director General Animal Sciences Institute at National Agricultural Research Centre (NARC). Discussions were held regarding research, training and extension. NARC was proposed as a location for the STREAM Communications Hub.

Agreements reached in Islamabad:

- A STREAM Partnership Agreement was drafted between STREAM and MINFAL to be signed by both parties within a month.
- STREAM agreed to support the development of a Communications Hub.
- A National Co-ordinator (Dr Hayat) was proposed by the Secretary to the ministry and agreed by the STREAM Director.
- Dr Hayat and the Provincial Fisheries administrators agreed to highlight the available post of Communications Hub Manager. It was agreed that candidates CVs will be forwarded to the STREAM Regional Office for consideration for the post of CHM. The process would involve a written language test and a telephone interview.
- A location in MINFAL and one in NARC were discussed for the office location. It was discussed that such an office with air-conditioning, a telephone line and furnishing would be necessary to be provided either by MINFAL or by NARC.
- It was agreed that bilingual communications skills and a high degree of computer literacy were the key competences for the CHM post with some knowledge of fisheries/aquaculture and development.

In Lahore the STREAM Director met with the Fisheries Directors for Planning and Development, Extension, Hatcheries and other administrative functions.

The following people attended the STREAM meeting in Lahore:

Dr Muhammad Ayub	DG Fisheries Punjab
Muhammad Tariq Hashmi	Dept Director Planning and development Punjab
Amjad Rasheed	Assist Director Fisheries
Iftikhar Ahmad Qureshi	Director Fisheries extension
Ms Sumaira Siddiqui	Assistant Director Fisheries

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The Punjab Fisheries Department explained that there had been some delays with the implementation of the 9th 5year plan (98-03) and that the 10th plan was due to run from 2004. They highlighted the effects of drought on water bodies and the irrigation system and associated land. They highlighted that the marine catch was declining and that some fresh water fish exports were taking place but that there was as yet no legal framework for quality certification. A particular issue for small-scale farmers is the limited availability of micro-credit

In mid 2004 Punjab Department of Fisheries is to launch a strengthened publicity wing under the Director Extension.

Dr Ayub and Graham Haylor visited Tariq Ayub, the Secretary for Forests, Wildlife and Fisheries for the Government of Punjab. Thereafter they visited the Fisheries Research and Training Institute. The following persons attended a meeting at FTRI:

Dr M Ayub	DG Fisheries
M Ata Ullah Khan	Principal / DDG
Amjad Rashid	Fisheries research assistant
M Ashraf	Director Fisheries (Hatchery Management)
Akhtar Ali Shah	Deputy Director Fisheries
S Mujeeb Ali Bokhari	Librarian
Riaz Ahmed Janjua	Senior Chemist
M Javed Ali	Fisheries research assistant
M Hanif	Asst Director R and T
Asif Ali	Principal Chemist
Rana Amanadt Ali	Assistant Director Fisheries
Muneer Ahmed	Assistant Director Fisheries
Irfamul Siddiqe	Fisheries research assistant
Tariq Rashid	Fisheries botanist

The concept of improved regional communications was discussed and it was agree to send STREAM literature to FTRI, as well as DOF Punjab, Sindh and NWFP.

Graham Haylor then met with the NGO Human Care and its Director Margaret Bashir for discussions about potential future collaboration. The NGO deals with many issues and sometimes these include aquaculture and fisheries.

Appendix I: Schedule of STREAM visit schedule to Pakistan

Date	Time	Activity	Outcomes	Persons met
Sunday 30 May 04	20.00	depart BKK for Lahore	arrive Lahore	-
Monday 31 May 04	8.30	<ul style="list-style-type: none"> - Depart for Islamabad - Check in at Hotel - Meeting with MINFAL 	<p>Discussion of STREAM Initiative</p> <p>Meeting with Fisheries development Commissioner and deputy Fisheries Development Commissioner</p> <p>Meeting with secretary MINFAL and Additional Secretary</p> <p>Meeting with FAO representative</p>	<p>Jameel Ahmed Fisheries Development Commissioner</p> <p>Muhammad Hayat Ass. Fisheries Development Commissioner</p> <p>Dr Muhammad Hanif Agricultural Development Commissioner/Additional Secretary</p> <p>Tariq Mahmud Secretary MINFAL</p> <p>Dr Ronny Adhikarya FAO Representative</p>
Tuesday 1 June 04	09.00 – 16.00	<ul style="list-style-type: none"> - Meeting with Director General Punjab and Directors NWFP and Sindh, and other staffs: Presentation by Dr. Graham Haylor followed by provincial presentations and discussion 	<p>Briefing on STREAM Initiative to provincial Directorates. Preliminary agreement reached with FDC on NC, location of hub, CSP planning process.</p> <p>Agreement reached over need for STREAM Initiative especially capacity building, networking with international community, technical and social support. Highest priority communications including Federal to Provincial and Provincial to poor people, poverty alleviation, institution building, income generation and environmental sustainability.</p>	<p>Ghulam Muhammad Mahar</p> <p>Dr Muhammad Ayub</p> <p>Raja Habib-Ur-Rehman</p> <p>Umar Hayat</p> <p>Noor Elahi</p>
	16.00 – 17.00	<ul style="list-style-type: none"> - Visit to Rawalpindi fish hatchery 		
	17.00	<ul style="list-style-type: none"> - meeting with Dr Nasim Akhtar visit to Animal Sciences Institute and Aquaculture and Fisheries research Institute 	Discussions about role of NARC and on-going fisheries research.	<p>Dr Nasim Akhtar Dept Director General Animal Sciences Institute</p>
Wednesday 2 June 04	09.00-12.00	<ul style="list-style-type: none"> - Wrapping up meeting - Travel to Lahore 	Muhammad Hayat regarding Partnership agreement	
Thursday 3 June 04		<ul style="list-style-type: none"> - Meeting DOF 	Wide ranging discussions	<p>Dr Muhammad Ayub, DG Fisheries Punjab</p> <p>Muhammad Tariq Hashmi, Dept Director Planning and Development Punjab</p> <p>Amjad Rasheed, Assist Director Fisheries</p> <p>Iftikhar Ahmad Qureshi, Director Fisheries extension</p> <p>Ms Sumaira Siddiqui, Assistant Director</p>

		<ul style="list-style-type: none"> - Meeting Secretary GoP - Meeting FTRI 		<p>Fisheries</p> <p>Tariq Ayub</p> <p>M Ata Ullah Khan, Principal / DDG Anjad Rashid, Fisheries research assistant M Ashraf, Director Fisheries (Hatchery Management) Akhtar Ali Shah, Deputy Director Fisheries S Mujeeb Ali Bokhari, Librarian Riaz Ahmed Janjua, Senior Chemist M Javed Ali, Fisheries research assistant M Hanif, Asst Director (R and T) Asif Ali, Principal Chemist Rana Amanadt Ali, Assistant Director Fisheries Muneer Ahmed, Assistant Director Fisheries Irfamul Siddiqe, Fisheries research assistant Tariq Rashid, Fisheries Botanist</p> <p>Margaret Bashir Director</p>
		<ul style="list-style-type: none"> - Meeting Human Care 		

Appendix II: Follow up actions

Actions	Responsible persons	Timeframe
Immediate business		
Draft partnership agreement edited and signed	Muhammad Hayat Graham Haylor	Aim to concluded 12.6.04
write and circulate BTO report	Graham Haylor (This report)	3.6.04
Agree National Co-ordinator	Muhammad Hayat	Agreed 31.5.04
Agree Communications Hub Management	Muhammad Hayat and other to identify candidates and forward CVs to Graham Haylor	TOR appended below recruitment procedure to be set up short-listed candidates to be interviewed by telephone Dr Hayat to play a role in language translation test
Put Dr Ayub in touch with GIS specialists	Graham Haylor	ASAP
Plan Aquatic Resources and Poverty review (A R and P R).	Graham Haylor Muhammad Hayat others	TOR appended; look at options, contract CHM to do this
Begin CSP process and search for funds from donors to support this process	Graham Haylor all	ASAP

First Draft STREAM Pakistan work plan

Action	Timing	Responsibility	Other
1 Identify office inform STREAM of location and details	June	Dr Hayat	Pakistan to provide
2 Recruit CHM	June-July		
Collect candidates CVs: Forward to STREAM Regional Office	June-July	Dr Hayat	GH to draw up short list
Provide language test for putative Hub Managers STREAM Director to provide, Dr Hayat to administer, CHM candidates to undertake	ASAP	Dr Hayat	forward results to Regional Office
final selection		STREAM Director	
3 Inform people about STREAM	from now	all	Over the coming months
-Send STREAM literature to DOF, FTRI, NARC and Human Care	ASAP	Paul Bulcock	Develop draft stakeholder list in Pakistan
- Draw up stakeholder list with contact persons	ASAP	CHM	
- Translation of STREAM Folder and booklet into local language	ASAP	CHM	
- Translation of STREAM Journal, STREAM Update and Media Monitoring into local language	ASAP	CHM	
- Print out Pakistan translations and add to STREAM folder	ASAP	CHM	
Consider use of TV and radio		CHM	
4 Supply hardware, software and digital literacy training	ASAP	Dr Hayat (and CHM) to contact Reby	ASAP Reby to liaise with FAO
5 Draw up CSP in English and local language (this process includes AR & P Review)	Over 6-9 months	Dr Hayat and CHM	
Follow CSP planning kit			
Seek donor and Government funds for key meetings and actions in CSP process		Dr Hayat Graham Haylor others	

Appendix III: Pakistan contact details

Federal Government	
Tariq Mahmud Secretary MINFAL	+92 51 9203307/9210351 3 rd Floor, B Block Pakistan Secretariat Islamabad
Jameel Ahmad FDC	+92 51 9204824 (t) 9221357 (f) MINFAL 38, W Khalid Plaza Blue Area Islamabad
Dr Muhammad Hayat AFDC	+92 51 9204824 (t) 9221357 (f) 38, W Khalid Plaza Blue Area Islamabad
Dr Nasim Akhtar DDG Animal Sciences Institute NARC	nasimakhtar_2000@yahoo.com +92 51 9255221 (Off) +92515591037 (res) NARC Park Road Chak Shahzad Islamabad
FAO	
Dr Ronny Adhikarya FAOR	+92 51 280 0032 Ronny.Adhikarya@fao.org UN House 5 th floor SaudiPak Building 61-A Jinnah Ave PO Box 1476 Islamabad
Punjab	
Dr Ayub DG Fisheries	+92 9212379 fishres@hotmail.com fishdept@wol.net.pk 2 Sanda Rd Lahore 54000
Sindh	
Ghulam M Mahar Director Fisheries	+92 221 9200054 Opp Old State bank Nr Rani Bagh Thandi Sarak Hyderabad Sindh
NWFP	
Umar Hayat Director Fisheries	+92 91 9212096 (T/F) Shami Rd Peshawar

Appendix IV: Partnership agreement

PARTNERSHIP AGREEMENT BETWEEN MINISTRY OF FOOD, AGRICULTURE AND LIVESTOCK (MINFAL) AND STREAM (NACA) ON STREAM IMPLEMENTATION

The Agreement

This document details the agreements and conditions for the implementation of the STREAM initiative. STREAM is designed within the Network of Aquaculture Centres in Asia-Pacific's (NACA) 5-year Work Programme cycle to support stakeholders to achieve these long-term objectives. It is a regional initiative that will:

- Support capacity building among local government institutions, NGOs, and community groups involved in aquatic resources management, including the provision of training and long-term practical support in livelihoods analyses and participatory approaches, support to poor aquatic resource users to participate more effectively in policy-making processes, and encouraging the development of more responsive government institutions.
- Support a number of new community-based learning initiatives, the practical experiences from which will combine with lessons learned from existing case studies and feed into STREAM's communication strategy to influence policy and practice in the region.
- Develop a regional communications and learning strategy to realise the considerable potential that exists to facilitate lesson-learning and improved co-ordination between current aquatic resource initiatives in the region, increase the participation of poor aquatic resource users in decision-making processes (through the use of innovative communication approaches), and ensure policy-making is informed by lesson learning
- Support on-going policy and institutional changes in the region, by facilitating policy development at the national level, increasing exposure to lessons and experience at the community level, maximising utilisation of the existing regional knowledge base, and providing capacity-building support to the change process.

The initiative is based around partnerships, involving at the outset a coalition of founding partners (AusAID, DFID, VSO, FAO) supporting NACA. It will adopt an inclusive approach, reaching out to link stakeholders engaged in aquatic resources management and supporting them to influence the initiative's design, implementation, and management. The current Partnership Agreement begins June 2004 and will be reviewed regularly by both parties, and can be revised at this time.

We the undersigned, agree that this document will form a Memorandum of agreed conditions on implementation.

From MINFAL

Name: Jameel Ahmad,
Fisheries development Commission
MINFAL, Pakistan

From STREAM:

Name: Graham Haylor
Director, STREAM

.....
2 June 2004

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2 June 2004

Aim of the collaboration STREAM will adopt an inclusive approach, reaching out to link stakeholders engaged in aquatic resources management and supporting them to influence the initiative's design, implementation, and management. The diverse coalition of partners supporting the start-up of STREAM have worked together over many months to negotiate a shared vision, input different experiences and expertise into the planning process, and implement activities in Cambodia, India, Indonesia, LaoPDR, Myanmar, Nepal, the Philippines, Sri Lanka, Vietnam and Yunnan (China). This coalition will continue to increase in size and diversity as STREAM expands into other countries, and awareness and understanding of the initiative increases among other stakeholders.

The aim of this collaboration is to support a partnership between the Ministry of Food, Agriculture and Livestock and STREAM in building a network to co-ordinate and share lessons learnt amongst those responsible for supporting the livelihoods of poor people who depend upon aquatic resources management in Pakistan, and also regionally through the STREAM initiative.

This will involve continuing building capacity to support networking and communications, strategic planning and policy development.

The collaborators The diverse coalition of partners supporting the start-up of STREAM includes the FAO, DFID, VSO, NACA, government agencies, and local NGOs. The details of these collaborators are found in the STREAM memorandum. This Partnership Agreement refers to collaboration between the Ministry of Food, Agriculture and Livestock and the partners of the STREAM initiative.

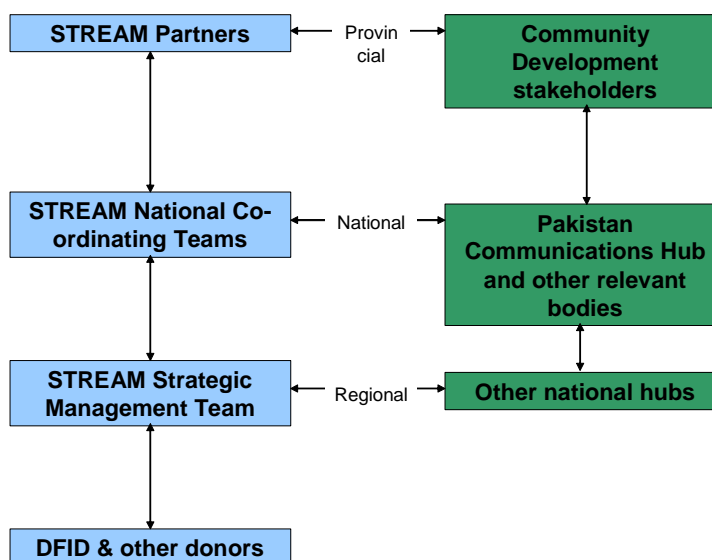
The new STREAM Communications Hub will be established by the Ministry of Marine Affairs to address the need of poor people who manage aquatic resources. Its establishment follows negotiations between Ministry Food, Agriculture and Livestock and STREAM around supporting the objectives of poor people who manage aquatic resources, on which their livelihoods depend.

Within Pakistan the role of MINFAL is to advise the government in the promotion and rational development of marine and inland fisheries; co-ordinate Federal and Provincial policies and programs and formulate priorities for reducing regional disparities; assist in preparing fisheries development and management policy; promote co-operation between fisheries institutions involved in planning and development; supervise federal fisheries institutes; identify areas for surveys studies and assistance and liaise with international agencies See also annex 1.

Scope of the collaboration *The scope of geographical collaboration:*
The geographical spread of collaboration has broadened from pilot countries, which were Cambodia and Vietnam and now includes the India, Indonesia, Laos Myanmar, Nepal, the Philippines, Sri Lanka and Yunnan. In terms of regional communication, lessons learned will be shared more broadly with all 15 NACA member countries.

The scope of institutional collaboration:

Institutional collaboration will be at different levels, as detailed below:



Roles and responsibilities Support to Regional Aquatic Resources Management (STREAM) is an Initiative designed within the five-year Work Programme cycle of the Network of Aquaculture Centres in Asia-Pacific (NACA). It aims to support agencies and institutions to:

- Utilize existing and emerging information more effectively
- Better understand poor people's livelihoods, and
- Enable poor people to exert greater influence over policies and processes that impact on their lives.

STREAM will do this by supporting the development of policies and processes of mediating institutions, and building capacity to:

- Identify aquatic resources management issues impacting on the livelihoods of poor people
- Monitor and evaluate different management approaches
- Extend information, and
- Network within and between sectors and countries.

The STREAM Initiative is based around partnerships, involving at the outset a coalition of founding partners (AusAID, DFID, FAO and VSO) supporting NACA. It has adopted an inclusive approach, reaching out to link stakeholders engaged in aquatic resources management and supporting them to influence the Initiative's design, implementation and management.

The partnerships' work is coordinated in each country through National Coordinating Teams comprising the National Coordinator (a senior national colleague agreed with the government) and the Communications Hub Manager (a full-time national colleague supported in the first year by STREAM), and linking a range of national stakeholders. The Communications Hub is provided with support which will include strategic planning, hardware, software, training, information-technology support, and

networking and human resources support, and is expected to build and link a network of national stakeholders with an Internet-based virtual regional network linked through the Communication Hubs.

National coordination is guided by a regularly-reviewed Country Strategy Paper (CSP) to be drawn up by the National Coordinator and Communications Hub Manager in consultation with stakeholders with whom they regularly network. A CSP identifies key issues, highlights regional linkages, proposes and prioritizes key actions, and seeks funding for these with STREAM support.

The STREAM Regional Office (at the NACA Secretariat in Bangkok) directs the Initiative, provides a regional coordination function, and manages cross-cutting activities dealing with livelihoods, institutions, policy development and communications, the four STREAM themes.

STREAM implementation is expanding within Asia-Pacific where opportunities exist to tackle poverty and promote good governance in poverty alleviation through aquatic resource management, as experience is gained, lessons are learned, impact is demonstrated and additional funding is secured. STREAM's communications strategy aims to increase impact by ensuring that existing knowledge and expertise inform ongoing change processes around the region, and that the lessons learned are disseminated throughout Asia-Pacific. The *STREAM Journal* and the STREAM website are components of this strategy.

The STREAM Country Strategy Paper (CSP) will be developed through a participatory process:

- STREAM's CSP planning kit will support identification of needs, which can be best addressed by the STREAM national co-ordinating team (MINFAL in association with concerned government and NGO partners).
- The national Communications Hub will identify and highlight needs, which it feels can be best addressed through STREAM.

STREAM and the national partners will negotiate and mutually agree logistics to ensure its input contributes to the four STREAM outputs (Livelihoods, Institutions, Policy Development and Communications).

How the collaboration will be managed This partnership will be managed at the regional level through the STREAM Strategic Management Team.

managed In Pakistan, this partnership will be managed by MINFAL. The National Co-ordinator will be **Dr Muhammad Hayat**. The Communications Hub Management will be recruited in co-ordination with STREAM.

Financial contributions Resources for this partnership will continue to be sought by both parties. A coordinated, strategic approach to raising non-allocated and specified funds will be adopted by both parties, including joint-proposals.

As of June 2004, STREAM:

- Is committed to providing financial support to cover the provision of some hardware, software and digital literacy training.
- To share the costs of developing the Country Strategy Paper (see CSP Planning Kit)

Financial contributions from STREAM to MINFAL and others will be specified in separate contracts (to be agreed by all parties), which will include detailed cost breakdowns, payment schedules, and clear objectives and outputs.

Transparency This partnership requires that all STREAM-related documentation is shared between all STREAM partners, including but not limited to:

- Partnership Agreements
- Country Strategies
- Non-allocated and specified funding opportunities and summaries of donor contracts
- Annual audited accounts and other financial and narrative reports
- STREAM Memoranda and information about the STREAM Initiative.

Annex 1: Capacities, roles and responsibilities

STREAM			MINFAL		
Strengths	Roles	Responsibilities	Strengths	Roles	Responsibilities
Regional networking	Linking Communications Hubs	Catalyzing local networks and linking national STREAM partners	limited	liaison with international agencies	Fisheries Wing MINFAL
Sharing lessons	Highlighting processes, technologies ways of working	Knowledge sharing	limited	co-ordination of policies and programs	Fisheries Wing MINFAL
Supporting an understanding of Livelihoods approaches	Capacity building, raising awareness, identifying language issues	Back-stopping national initiatives	limited	-	Fisheries Wing MINFAL
Supporting regional electronic communication	Supporting essential hardware, software, digital literacy training, Netmeetings, backstopping, developing and servicing an information rich website and virtual library, managing regular communication vehicles	Designing and developing and implementing regional communications strategy	limited	liaison role but electronic options limited	Fisheries Wing MINFAL
Supporting policy and institutional development	As opportunities arise	Seeking opportunities	Government mandate	assisting government policy development	Fisheries Wing MINFAL
Giving people a voice in policy making	As opportunities arise	Seeking opportunities	limited	-	
Seeking funds	As opportunities arise	Seeking opportunities	limited	liaison role	Fisheries Wing MINFAL

STREAM MANAGEMENT AND COMMUNICATION

1. NATIONAL MANAGEMENT AND COMMUNICATION

Management

Management at the national level is the responsibility of the STREAM Country Office, which is located within an existing institution and staffed by a National Co-ordinator (a senior national stakeholder agreed with the national government) and a National Communications Hub Manager (a full time position supported in the first year by STREAM). Existing administrative systems within the institution support these posts.

Communication

Communication at the national level will be via a physical network on the ground, linked to a virtual regional network through the STREAM national communication hub. STREAM will support the hub in all partner countries with hardware, software, training, IT support, and networking and human resource support. Where appropriate, lesson-learning initiatives can also be supported with funds sought STREAM from elsewhere.

Country Strategy Papers (CSP)

National co-ordination is guided by the CSP, which will be drawn up by the National team in consultation with key government, business and civil society stakeholders. The CSP will identify key issues, propose and prioritise key actions, and seek funding for these from STREAM and elsewhere with STREAM support.

CSP implementation will be the responsibility of the STREAM Country Office, informed through a networking. This committee will comprise legitimate stakeholders associated with each of the issues prioritised in the CSP.

2. REGIONAL MANAGEMENT AND COMMUNICATION

The STREAM regional office, which is located at the NACA Secretariat in Bangkok) will direct the initiative, provide a regional co-ordination function, and seek additional funding. The regional office is staffed by:

- STREAM Director (Graham Haylor)
- Communications Specialist (William Savage)
- STREAM Programme Officer (Rebecca Cajilig)
- IT Assistant (Supawan Ponglumyai)
- Research Assistant (Paul Bulcock)
- Part-time input from NACA's:
 - ICT Specialist (Yoothana Suansook)
 - Rural Development Specialist (Post vacant).

A Regional Co-ordination Committee (RCC) will support the regional office. The RCC will not meet face to face but be linked electronically. It will comprise of selected individuals (up to 40 people – 20 of whom have already agreed their

participation) who represent key stakeholders. All are busy people; in order to sustain the RCC, the remit of members will be limited in terms of time input required.

Each member will agree to receive a quarterly update about the initiative (this will be succinct and by e-mail, where possible) and to respond where appropriate by short e-mail. Responses might be to highlight other activities that complement the work of STREAM, raise awareness within STREAM of key issues, identify conflicts, omissions, opportunities, etc. It is proposed that these responses be collated and circulated with the next monthly update. In some cases an RCC member will represent a group of stakeholders and will take a co-ordinating role in disseminating and collating a response where necessary.

Job Description

STREAM Communications Hub Manager (Pakistan)

Reporting to:

- STREAM Director
- National co-ordinator

Duties:

- **To carryout the Country Strategy Paper planning process, including reviewing the aquatic resource and poverty review** (see TOR below)
- **To manage the Communications Hub.** The Communications Hub will link the national STREAM office with the Regional office in Bangkok and national offices in other partner countries via the Internet. In addition it will link a network of stakeholders nationally with these regional links by electronic as well as other means of communication.
- **To translate from English to local language and vice-versa.** Information from the web exists mainly in English. Following strategic decisions about information sharing and in some instances following specific requests from national partners:
 - Materials will be translated into local language for national sharing.
 - Whilst news, information and items of interest more broadly, which may exist in local languages will be translated for electronic distribution regionally.
 - Translate into local language and circulate (by appropriate means) regular STREAM Journal, STREAM Update and media tracking reports.
- **To develop and maintain a national network** of legitimate stakeholders in aquatic resources management in support of learning and communication:
 - To build as broad as possible a network of partners with a stakeholding in aquatic resource management in the context of poverty alleviation.
 - To maintain and update the partners database.
 - To advise all partners of activities.
 - To elicit STREAM Journal articles from partners.
 - To contribute to regular regional web-based conferencing.
- **To act as key national contact person for the STREAM initiative.**

Competences:

- Self-starter capable of working with minimal direction.
- Excellent written and verbal English and native speaker of national language.
- Literacy with internet (additional training provided), word processing, spreadsheets, database management, virus protection software management)
- Organised with attention to detail
- Flexibility and willingness to take on new tasks.

Desirable:

- Interest in livelihood issues and poverty alleviation.
- Interest in aquatic resources management.
- Background in communications.

Job Description

STREAM National Co-ordinator (Pakistan)

Linking with:

STREAM Director

Duties:

- **To manage the Country Office.** The Country Office will link with the STREAM Regional office in Bangkok and country offices in other partner countries via the Internet. In addition it will link a network of stakeholders nationally with these regional links by electronic as well as other means of communication.
- **To set up and operate an account for STREAM funds.** The roles and responsibilities associated with managing a STREAM account will be send to you separately.
- **To develop and maintain a national network** (in conjunction with the Communications Hub Manager) of legitimate stakeholders in aquatic resources management in support of learning and communication:
 - To build as broad as possible a network of partners with a stake holding in aquatic resource management in the context of poverty alleviation.
 - To liase with partners.
 - To advise all partners of activities.
 - To elicit STREAM Journal articles from partners.
 - To contribute to regular regional web-based conferencing.
- **To act as key link person with other government and non-government partners of the STREAM initiative in Pakistan.**

Competences:

- Senior figure in appropriate agency covering this kind of work.
- Good co-ordination and management skills
- Flexibility and willingness to take on new tasks.

Desirable:

- Interest in livelihood issues and poverty alleviation.
- Interest in aquatic resources management.
- Background in management.

Terms of Reference for Aquatic resource and poverty review

It is proposed that person(s) with understanding of poverty and aquatic resources management issues compile a review from secondary sources with the following outline. The report would be likely to comprise up to 40 pages plus annexes and be based on up-to date information in Urdu and English.

AN ANALYSIS OF POVERTY AND AQUATIC RESOURCES IN PAKISTAN Outline of the Contents

I. Introduction

- 1.2 Background of the Study
- 1.3 Scope and Objectives
- 1.4 Methodology
- 1.5 Report Organization

II. Analysis of Poverty Situation in Pakistan

- 2.1 National Background
 - 2.1.1 Location and physical features
 - 2.1.2 Economy
 - 2.1.3 Population and literacy
 - 2.1.4 Land tenure and agriculture
 - 2.1.5 Politics and the government
 - 2.1.6 Water resources
- 2.2 Overview of Poverty Situation
- 2.3 Indicators of Poverty (Socioeconomic Characteristics of the Poor)
 - Human development indices
 - Land holdings
 - Per capita income
 - Health and nutrition
 - Food intake (calorie)/ per capita consumption
 - Education/ literacy
- 2.3 Poverty Situation (in general and according to geographic distribution)
 - 2.3.1 Past performances/ trends
 - 2.3.2 Existing/ Current situation
- 2.4 Poverty Alleviation Policy, Projects and Programs in the country

III. Aquatic Resources

- 3.1 Overview of Aquatic Resources in Pakistan/ Introduction
- 3.2 Distribution of Aquatic Resources Base (development region/ districts etc)
- 3.3 Role of Aquatic Resources/ Fisheries in National Economic Development
- 3.4 Fisheries and Rural Livelihoods (the role of fisheries in poor people's livelihoods)
- 3.5 Geographic Distribution of Aquatic Resources Use (emphasizing use by poor)
 - 3.5.1 Family scale/ Subsistence fishing (production/ consumption/ income generation)
 - 3.5.2 Rice Field fishery (consumption and income generation)
 - 3.5.3 Aquaculture and livelihoods in Pakistan
 - Cage culture
 - Pond culture
 - Rivers/ Streams/ Lakes Fish seed production
 - All others
- 3.6 Potentials, priority and policy of Aquatic Resources for Rural Poor

IV. Conclusions and Recommendations

- 4.1 Conclusions
 - Concentration/ distribution of poor aquatic resource users
 - Problems
- 4.2 Recommendations
 - Policy/ Strategies
 - Implementation/ Others