

AMENDMENT AGREEMENT - ADDENDUM NO. 1 DATED AS OF THIS 11TH DAY OF NOVEMBER, 2013 to the PROGRAM PARTICIPANT AGREEMENT DATED AS OF THIS 20TH DAY OF JUNE 2013

Between International Livestock Research Institute P.O. Box 30709 – 00100
Nairobi, Kenya (“ILRI”)

And WorldFish, Jalan Batu Maung, Batu Maung, 11960 Banyan Lepas,
Penang, Malaysia

FOR THE PROJECT Project entitled “*CRP 3.7 Livestock and Fish*”.

Is hereby amended as follows:

Amendment 1: This amendment No.1 amends the Agreement to make budget provisions for the 2013 Annual Work Plan and consequently revises Annex 4 A.

Purpose of Amendment: The Parties have agreed to amend the Agreement in order to allow provisions to be made for the 2013 Annual Work Plan.

1. Therefore the Parties hereto agree on the following:-


Where it reads:	It NOW reads:
<p><u>2.3 Grant.</u> The Lead Centre obligates US\$1,135,000.00 (US Dollars One million, one-hundred and thirty-five thousand) to enable the Program Participant to undertake the 2012 work plan detailed in the Annual Work Plan provided as Annex 4A financed by Window 1 and Window 2 funds. The Grant may be modified upon a written notification from the Lead Centre to the Program Participant, after discussion with the Program Participant.</p> <p><u>2.4</u> (a) Upon signature of this PPA, an amount of USD 456,000.00 (USD Four Hundred and fifty-six thousand) shall be disbursed to the Program Participant. Additional funds will be disbursed in line with the budget as the Lead Centre receives such funds from the CGIAR Fund.</p> <p>For each subsequent year, disbursements shall be approved on an annual basis, subject to clause 7.3 of the General Terms and Conditions. Disbursements shall be made as the Lead Centre receives such funds from the CGIAR Fund.</p>	<p><u>2.3 Grant.</u></p> <p>(a) The Lead Centre obligates US\$1,135,000.00 (US Dollars One million, one-hundred and thirty-five thousand) to enable the Program Participant to undertake the 2012 work plan detailed in the 2012 Annual Work Plan provided as Annex 4A financed by Window 1 and Window 2 funds.</p> <p>(b) The Lead Centre obligates US\$1,305,000.00 (US Dollars One million, three-hundred thousand) to enable the Program Participant to undertake the 2013 work plan detailed in the 2013 Annual Work Plan provided as Annex 4A financed by Window 1 and Window 2 funds. The Grant may be modified upon a written notification from the Lead Centre to the Program Participant, after discussion with the Program Participant.</p> <p><u>2.4</u> (a) Upon signature of this PPA, an amount of USD 456,000.00 (USD Four Hundred and fifty-six thousand) shall be disbursed to the Program Participant. Additional funds will be disbursed in line with the budget as the Lead Centre receives such funds from the CGIAR Fund.</p> <p>2.4 (b) Upon signature of this amendment to the PPA, an amount of USD1,102,000 (US Dollars One million, one hundred and</p>

<p>Annex 4.A Activity Plan for 2012 for World Fish</p>	<p>two thousand) shall be disbursed to the Program Participant. Additional funds will be disbursed in line with the budget as the Lead Centre receives such funds from the CGIAR Fund.</p> <p>For each subsequent year, disbursements shall be approved on an annual basis, subject to clause 7.3 of the General Terms and Conditions. Disbursements shall be made as the Lead Centre receives such funds from the CGIAR Fund.</p> <p>Replaced with Annex 4.A Activity Plans for 2012 and 2013 for WorldFish (attached)</p>
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2. All other terms of the original agreement shall remain unchanged.

3. The amendment shall become effective on the date of the last signature.

SIGNED by:

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 Jimmy Smith
 Director General,
 International Livestock Research Institute
 Date: 21/11/2013



 Stephen J. Hall
 Director General
 WorldFish
 Date: 11/12/13

Annex 4A - Activity Plan for 2012 for World Fish

Description	Deliverables
<p>Theme 2: Animal Genetics</p> <p>Objective 2.1 To develop improved strains and breeding strategies that sustainably improve animal productivity in emerging small scale market orientated livestock and fish production</p>	<p>Budget (\$ 000s) CG Fund \$629 W3/Bilateral \$403 Other Funds \$1,010 TOTAL \$2,042</p>
<p>Output 2.1.2: Genetically improved strains and conserved genetic resources to meet future needs</p>	<p>N/A</p>
<p>Milestone 2.1.2.1: Methods and capacities established to support breeding strategies in the target value chains</p>	<p>Budget (\$ 000s) CG Fund \$629 W3/Bilateral \$403 Other funds \$1,010 TOTAL \$2,042</p> <p>Bilateral projects contributing to milestone (short title, code, donor)</p> <ul style="list-style-type: none"> Improving the Technological Foundation for Sustainable Aquaculture, N/A, EC (EC-funding cancelled)
<p>Activity 2.1.2.1 Summarize how best to disseminate genetically improved strains of fish and to conduct strain comparison trials.</p> <p>Milestone 2.1.2.2: Genetically improved aquatic animal strains developed, consolidated and disseminated in no less than 5 countries (Bangladesh, Egypt, Ghana, India, Malawi and Malaysia)</p>	<ul style="list-style-type: none"> Manual WorldFish Working Paper <p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> Improving the Technological Foundation for Sustainable Aquaculture, N/A, EC (EC-funding cancelled) Establishment of a National Fish Breeding and Genetics Center for Developing Genetically Improved Strains of Tilapia, AQ-2365-ARE, Agricultural Research Centre, Ministry of Agriculture, Egypt. Establishment of a Satellite Nucleus of the GIFT Strain, AQ-3815-RGC, Rajiv Gandhi Center for Aquaculture Reduced Competition in Tilapia 3 & 4, AQ-3809-UWA, AQ-4078-UWA, Wageningen University Genetic Improvement of Freshwater Prawn (India) AQ-4080-MAI, Indian Council for Agricultural Research and Min. of Agriculture Dept of Agri Research and Education

	<ul style="list-style-type: none"> • Evaluation of Nile Tilapia Strains for Aquaculture in the Philippines, PH-3727-BAR, Philippines Bureau of Agricultural Research • Brood Stock Development Program in Sri Lanka, AQ-1013-SLK, Sri Lanka National Aquaculture Development Authority.
<p>Activity 2.1.2.2.1 Genetically improved Nile Tilapia (Generation 8) strain developed, consolidated and disseminated in Ghana. EC</p>	<ul style="list-style-type: none"> • 1-2 Peer Review Publications. • 1 PhD student (in progress) • Other communication products • Semi-Annual/Annual Reports to Donors
<p>2.1.2.2.2 Genetically improved Nile Tilapia (Generation 10) strain developed, consolidated and disseminated in Egypt; Genetically improved Blue Tilapia (Generation 5) and Catfish (Generation 4) strains developed in Egypt.</p>	<ul style="list-style-type: none"> • 1-2 Peer Review Publications. • Other communication products. • Dissemination of Improved Tilapia strain to multiplication centers. • Semi-Annual/Annual Reports to Donors
<p>2.1.2.2.3 Genetically improved Nile (Generation 12) and Red Tilapia (Generation 3) strains developed, consolidated and disseminated in Malaysia.</p>	<ul style="list-style-type: none"> • 1-2 Peer Review Publications. • 1 PhD student (in progress) • Semi-Annual/Annual Reports to Donors
<p>2.1.2.2.4 Genetically improved Nile Tilapia (Generation 1) and Rohu strains developed, consolidated and disseminated in India; Genetically improved freshwater prawn (Generation 4) strain development in India.</p>	<ul style="list-style-type: none"> • 1-2 Peer Review Publications. • Semi-Annual/Annual Reports to Donors
<p>2.1.2.2.5 Establishment of strains comparison between GIFT and others commercial strains.</p>	<ul style="list-style-type: none"> • 1-2 Peer Review Publications. • Semi-Annual/Annual Reports to Donors
<p>Theme 4: Value Chain Development</p>	<p>Deliverables</p> <p>Budget (\$,000s) CS Fund \$1.78 W3/Bilateral \$1,000 Other Funds Nil TOTAL \$3,178</p> <p>N/A</p>
<p>Objective 4.1: To design and test pro-poor, gender-sensitive</p>	

<p>strategies to upgrade the target value chains to sustainably increase production and improve animal source food availability for low income consumers, and guide their scaling out as major development interventions.</p>	<p>Output 4.1.1: Methods and tools developed and applied to identify potential interventions for improved VC performance</p> <p>Budget (\$ 000s) GG Fund: \$59 WB/Bilateral: \$330 Other funds: Nil TOTAL: \$389</p>
<p>Milestone 4.1.1.1 Preliminary set of methods, models and tools for rapid VC assessment developed, and pre-tested in three value chains</p> <p>Activity 4.1.1.1.1 Establish sectoral baseline through situational analyses, in Egypt, Uganda and Tanzania</p> <p>Activity 4.1.1.1.2 Draft generic rapid VC assessment tools, with adaptation completed for the value chain in Tanzania and Egypt</p> <p>Milestone 4.1.1.2 VC assessments completed for the target VCs</p> <p>Activity 4.1.1.2.1 Rapid VC assessment in Egypt</p> <p>Milestone 4.1.1.3 Potential interventions at scale for improved VC performance identified and prioritized by "Date"</p> <p>Activity 4.1.1.3.1 Inventory of relevant experiences, strategies, best-bets established for key components of a value chain development strategy, completed for smallholder pig value chains in Vietnam</p>	<p>Bilateral projects contributing to milestone (short title, code, donor)</p> <ul style="list-style-type: none"> Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation N/A <p>Rapid VCA methodology developed for Egypt VC</p> <ul style="list-style-type: none"> Project report Publication <p>Bilateral projects contributing to milestone (short title, code, donor)</p> <ul style="list-style-type: none"> Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation Rapid VCA completed: Project report <p>Bilateral projects contributing to milestone (short title, code, donor)</p> <ul style="list-style-type: none"> Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation Preparation and identification of farmed fish production technologies to be tested in Upper Egypt Project report
<p>Output 4.1.2: "Best bets" piloted, validated and refined, also</p>	<p>Budget (\$ 000s)</p>

<p>other new technical and institutional solutions, with partners and other value actors.</p>	<p>CG Fund: \$59 W3/Bilateral: \$330 Other funds: Nil TOTAL: \$389</p>
<p>Milestone 4.1.2.1 TBD</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation Greater Harvest and Economic Returns from Shrimp (GHERS) initiative under Poverty Reduction by Increasing the Competitiveness of Enterprises (PRICE), SA-1559-USA, United States Agency for International Development
<p><i>Activity 4.1.2.1.1 Preparation and identification of farmed fish production technologies to be tested in Upper Egypt</i></p>	<ul style="list-style-type: none"> Approaches to aquaculture development in Upper Egypt. Formation and training of women retailer groups. Publication.
<p><i>Activity 4.1.2.1.2 Development, testing and implementation of approaches and best management practices for fish/shrimp producers and other value chain actors.</i></p>	<ul style="list-style-type: none"> Farming technologies Best Management Practice (BMP) Training of farmers and farmers field days. Technology training manuals
<p>Output 4.1.3: Mechanisms for scaling up and out the successfully tested strategies for upgrading VC; CRP L&F documented influence that is fostering implementation at scale supported by an enabling environment</p>	<p>Budget (\$ 000s) CG Fund: \$60 W3/Bilateral: \$340 Other funds: Nil TOTAL: \$400</p>
<p>Milestone 4.1.3.1 TBD</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation
<p><i>Activity 4.1.3.1.1</i> <i>Training of fish farmers in best management practices and distribution of improved fish seed to private sector multiplication centers</i></p>	<ul style="list-style-type: none"> Development of material and approaches for Best Management Practice (BMP) training for fish farmers and other VC actors in Egypt Dissemination of Tilapia seed to multiplication centers. Training of farmers in Best Management Practices
<p>Theme 5: Targeting Sustainable Interventions</p>	<p>Budget (\$ 000s) CG Fund: \$105 W3/Bilateral: \$382</p>
<p>Description</p>	<p>Deliverables</p>

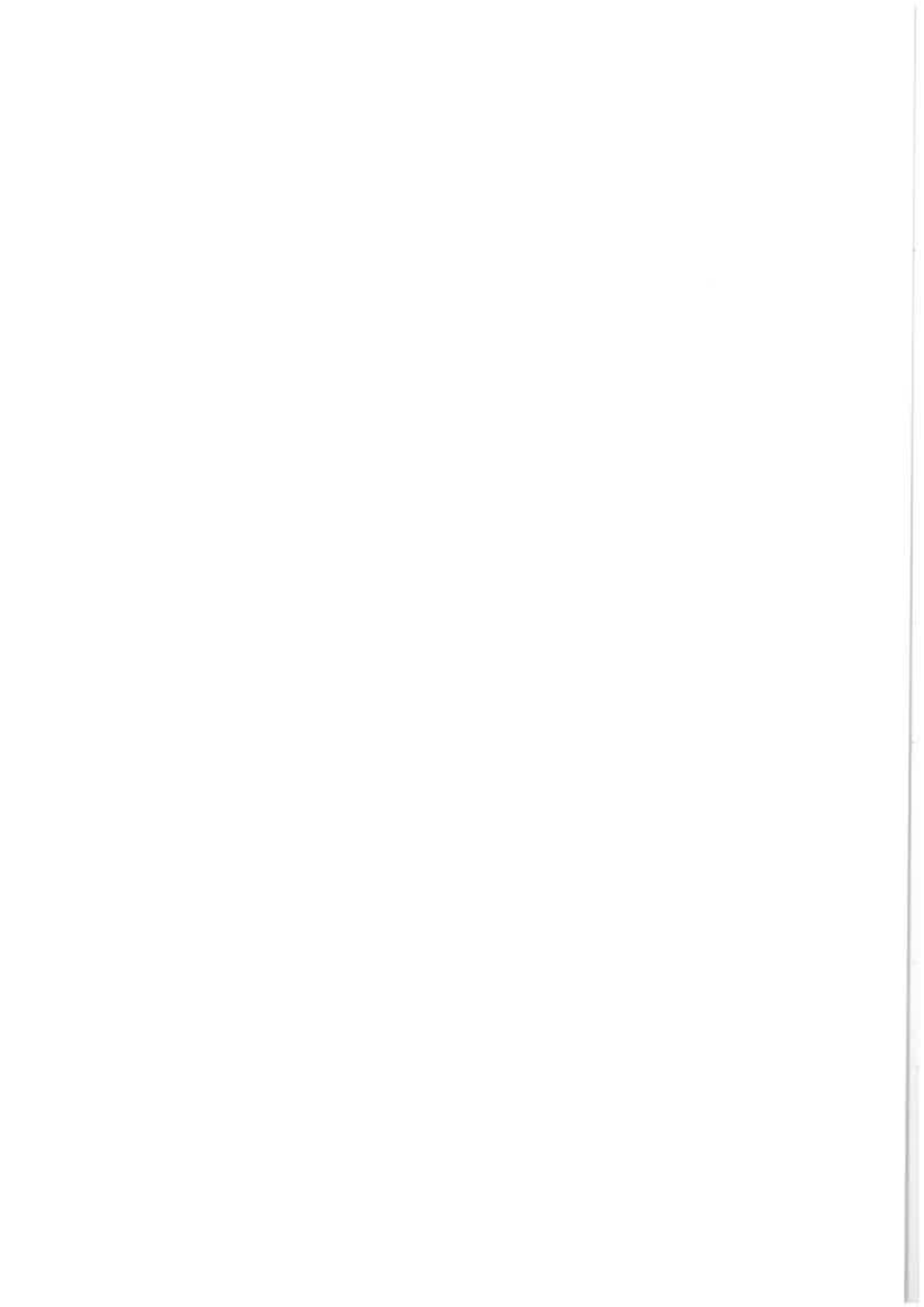
	<p>Other funds: Nil TOTAL: \$547</p>
<p>Objective 5.1 Effective targeting, implementation and scaling out of pro-poor sustainable animal sourced food value chains development action</p>	<p>N/A</p>
<p>Output 5.1.1 Promising VCs and sites are identified</p>	<p>Budget (\$ 000s) CG Fund: \$82 W3/Bilateral: \$192 Other funds: TOTAL: \$274</p>
<p>Milestone 5.1.1.1.1 Potential areas for intervention in VCs in 3 countries characterized by the end of 2012: Tanzania, Uganda, Ethiopia</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> • Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation
<p>Activity 5.1.1.1.1.1 Prepare maps, tables, reports and databases</p>	<ul style="list-style-type: none"> • Uganda <ul style="list-style-type: none"> ○ Scoping Mission report ○ Publication on climate change impacts • Egypt <ul style="list-style-type: none"> ○ Project reports
<p>Output 5.1.4 Approaches, tools and processes for targeting sustainable interventions are available</p>	<p>Budget (\$ 000s) CG Fund: \$82 W3/Bilateral: \$191 Other funds: TOTAL: \$273</p>
<p>Milestone 5.1.4.1 TBD</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> • N/A
<p>Activity 5.1.4.1.1 TBD</p>	<ul style="list-style-type: none"> • Publications • Workshop presentations.
	<p style="text-align: center;">Description</p>
<p>Theme 6: Gender & Learning</p>	<p style="text-align: center;">Deliverables</p> <p>Budget (\$ 000s) CG Fund: \$153 W3/Bilateral: \$426 Other funds: Nil</p>

<p>Objective 6.1 To generate gender strategies and tools for value chain analysis and development that improve the nature and level of participation by women and marginalized groups and are used by value chain scientists and partners within the context of the CRP and beyond</p>	<p>TOTAL:\$589 N/A</p>
<p>Output 6.1.2 Strategies and approaches developed through which women and marginalized groups improve the nature and level of participation in livestock and fish value chains</p>	<p>Budget (\$ 000s) CG Fund:\$82 W3/Bilateral:\$213 Other funds: Nil TOTAL:\$295</p>
<p>Milestone 6.1.2.2 Testing approaches for enhanced involvement of women in value chains</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation
<p>Activity 6.1.2.2.1 Preparatory work for employment of women retailers in Egypt fish VC.</p>	<ul style="list-style-type: none"> Situational analysis of women fish retailers. <ul style="list-style-type: none"> Project report Women retailer organizations formed in two governorates
<p>Objective 6.2 Develop a robust set of monitoring, evaluation, impact assessment and learning mechanisms to maximize the probability of achieving intended impact, document the level and manner of that impact and the outcomes that brought it about, understand and support the processes of innovation and AR4D to improve performance, and support internal M&E, planning and management</p>	<p>N/A</p>
<p>Output 7.2.2 Outcome assessments conducted to test key Theory of Change assumptions and inform design of future activities</p>	<p>Budget (\$ 000s) CG Fund:\$82 W3/Bilateral:\$212 Other funds: Nil TOTAL:\$294</p>
<p>Milestone 7.2.2.1 TBD</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> N/A

Activity 7.2.2.1.1

TBD

- Study report



Annex 4A - Activity Plan for 2013 for World Fish

Description	Deliverables
<p>Theme 1: Animal Health</p>	<p>Budget (\$ 000s) CG Fund: \$22k W3/Bilateral: \$27k (Bangladesh FIF-Aquaculture project figures to be added) Others: Nil TOTAL: \$49k</p>
<p>Objective 1.1 Generate data and materials to improve the poor management of animal health and food safety in the targeted value chains</p>	<p>N/A</p>
<p>Output 1.1.2: Information to guide farmers and market actors in the target value chains in using best practices and available technologies to manage animal health and food safety to enhance profitability and public health.</p>	<p>Budget (\$ 000s) CG Fund: \$22k W3/Bilateral: \$27k Others: Nil TOTAL: \$49k</p>
<p>Milestone 1.1.2.1: Recommended best practices for managing animal and public health in small-scale production and marketing systems in target value chains in Uganda, Egypt and Ethiopia</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> • Rapid Integrated Assessment, AQ-5005-ILR, International Livestock Research Institute • Feed the Future Aquaculture in Bangladesh, BA-3744-USA, USAID
<p>Activity 1.1.2.1.2 Improved protocols for aquaculture biosafety and biosecurity measures to prevent the introduction of alien pathogens through the uncontrolled and ill-considered introductions of alien species for aquaculture.</p>	<p>Study on improved protocols for aquaculture biosafety and biosecurity measures:</p> <ul style="list-style-type: none"> • Study Report • Project report • Scientific paper
<p>Theme 2: Animal Genetics</p>	<p>Budget (\$ 000s) CG Fund: \$602k W3/Bilateral: \$817k (Bangladesh FIF-Aquaculture project figures to be added) Others: \$147k TOTAL: \$1,566k</p>
<p>Objective 2.1 To develop improved strains and breeding strategies that sustainably improve animal productivity in</p>	<p>N/A</p>

emerging small scale market orientated livestock and fish production	
<p>Output 2.1.1.2: Genetically improved strains and conserved genetic resources to meet future needs.</p>	<p><i>Budget (\$ 000s)</i> CG Fund:\$602k W3/Bilateral:\$817k Others \$147k TOTAL:\$1,566k</p>
<p>Milestone 2.1.1.2.3. Genetically improved aquatic animal strains developed, consolidated and disseminated in no less than 5 countries (Bangladesh, Egypt, Ghana, India, Malawi and Malaysia)</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> Improving the Technological Foundation for Sustainable Aquaculture, N/A, EC (EC-funding) Establishment of a National Fish Breeding and Genetics Center for Developing Genetically Improved Strains of Tilapia, AQ-2365-ARE, Agricultural Research Centre, Ministry of Agriculture, Egypt. Establishment of a Satellite Nucleus of the GIFT Strain, AQ-3815-RGC, Rajiv Gandhi Center for Aquaculture Reduced Competition in Tilapia 3 & 4, AQ-3809-UWA; AQ-4078-UWA, Wageningen University Genetic Improvement of Freshwater Prawn(India) AQ-5006-HPP, Indian Council for Agricultural Research and Min. of Agriculture Dept of Agri Research and Education Feed the Future Aquaculture in Bangladesh, BA-3744-USA, USAID
<p>Activity 2.1.1.2.3.1 Genetically improved Nile Tilapia (Generation 9) strain developed, consolidated and disseminated in Ghana.</p>	<p>Dissemination of an improved strain of Nile Tilapia:</p> <ul style="list-style-type: none"> At least 1 Peer Reviewed Publication Semi-Annual/Annual Reports to Donors 1 PhD student (in progress)
<p>Activity 2.1.1.2.3.2 Genetically improved Nile Tilapia (Generation 11) strain developed, consolidated and disseminated in Egypt, Genetically improved Blue Tilapia (Generation 6) and Catfish (Generation 5) strains developed in Egypt.</p>	<p>Dissemination of improved strain of Nile Tilapia; maintain cohorts of Blue tilapia and families of Catfish:</p> <ul style="list-style-type: none"> At least 1 Peer Reviewed Publication Semi-Annual/Annual Reports to Donors
<p>Activity 2.1.1.2.3.4 Genetically improved tilapia strains developed, consolidated and disseminated in Bangladesh and Malawi.</p>	<p>Dissemination of two improved Tilapia strains:</p> <ul style="list-style-type: none"> Report summarizing the results of a Nile tilapia hatchery survey in Bangladesh At least 1 Peer Reviewed Publication Semi-Annual/Annual Reports to Donors
<p>Activity 2.1.1.2.3.4 Genetically improved Nile (Generation 13) and Red Tilapia</p>	<p>Dissemination of improved strain of Nile Tilapia and maintain Red Tilapia families:</p> <ul style="list-style-type: none"> At least 1 Peer Reviewed Publication

<p>(Generation 4) strains developed, consolidated and disseminated in Malaysia.</p>	<p>Activity 2.1.2.3.5 <i>Genetically improved Nile Tilapia (Generation 2) and Rohu strains developed, consolidated and disseminated in India; Genetically improved freshwater prawn (Generation 5) strain development in India</i></p>	<p>• Semi-Annual/Annual Reports to Donors • 3 PhD students (in progress)</p> <p>Dissemination of improved strains of Nile Tilapia and Rohu and maintain freshwater prawn families:</p> <ul style="list-style-type: none"> • At least 1 Peer Reviewed Publication • Semi-Annual/Annual Reports to Donors
<p>Theme 3: Feeds and Forages</p>	<p>Objective 3.1 Develop superior feed and forage options for ruminants, monogastric animals and fish responding to actual and evolving demands to enhance meat, milk and fish production and reduce the ecological footprint</p>	<p>Budget (\$ 000s) EE Fund: \$49k W3/Bilateral: N/A Others: N/A TOTAL: \$49k</p> <p>N/A</p>
<p>Output 3.1.1: Research platform and tools to support feed research.</p>	<p>Milestone 3.1.1.1: Cross center working group that can deliver feed technology to L&F value chains and provide an efficient feed technology platform to meet feed technology demands from partners outside L&F</p>	<p>Budget (\$ 000s) CG Fund: \$9k W3/Bilateral: N/A Others: N/A TOTAL: \$9k</p> <p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> • N/A
<p>Activity 3.1.1.2 Offer streamlined approaches to prioritizing feed interventions</p>	<p>Output 3.1.2: Existing feed resources are used better</p>	<p>Study on feed interventions in aquaculture:</p> <ul style="list-style-type: none"> • Study Report <p>Budget (\$ 000s) CG Fund: \$28k W3/Bilateral: N/A Others: N/A TOTAL: \$28k</p>

<p>Milestone 3.1.2.1: Feed resources in a value chains used better with regards to meat, milk and fish production, labor, transport, feed processing requirement and NRM use efficiency and CFP</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> N/A
<p>Activity 3.1.1.2.2 Optimize usage of on-farm and purchased feed with regards to the economy of livestock production and natural resource use and carbon emissions</p>	<p>Study on the use of feed resources in aquaculture:</p> <ul style="list-style-type: none"> Study Report 1 Peer Reviewed Publication.
<p>Output 3.1.3: More feed of higher quality from forages, crop residues/agricultural by-products and new feed ingredients</p>	<p>Budget (\$ 000s) CG Fund: \$12k W3/Bilateral: N/A Others: N/A TOTAL: \$12k</p>
<p>Milestone 3.1.3.1: Food-feed-fodder and forage cultivars with higher biomass quantity and fodder quality and new feed ingredients identified and promoted</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> N/A
<p>Activity 3.1.3.1.1 Identify and match superior food-feed and forage cultivars from research records to the agro-ecology and socio economic production conditions in VC.</p>	<p>Review of superior food-feed cultivars in L&F fish value chains:</p> <ul style="list-style-type: none"> Study Report
<p>Description</p>	<p>Deliverables</p>
<p>Theme 4: Value Chain Development</p>	<p>Budget (\$ 000s) CG Fund: \$173k W3/Bilateral: \$1,503k (Bangladesh EFF-Aquaculture and CSISA project figures to be adjusted) Others: \$100k TOTAL: \$1,776k</p>
<p>Objective 4.1: To design and test pro-poor, gender-sensitive strategies to upgrade the target value chains to sustainably increase production and improve animal-source food availability for low-income consumers, and guide their scaling out as major development interventions</p>	<p>N/A</p>

<p>Output 4.1.1: Methods and tools developed and applied to identify potential interventions for improved VC performance</p>	<p><i>Budget (\$ 000s):</i> CG Fund: \$173k W3/Bilateral: \$172k Others: N/A TOTAL: \$345k</p>
<p>Milestone 4.1.1.1 Preliminary set of methods, models and tools for rapid VC assessment developed, and pre-tested in three value chains</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation Expansion of Cereal Systems Initiative for South Asia (CSISA) in Bangladesh, BA-3746-IRR, International Rice Research Institute Feed the Future Aquaculture in Bangladesh, BA-3744-USA, USAID
<p><i>Activity 4.1.1.1.1</i> Establish sectoral baseline through situational analyses, in Egypt, Uganda and Tanzania</p>	<p>Establishment of sectoral baseline for Egypt VC:</p> <ul style="list-style-type: none"> Situational Analysis Report Egypt Project Report
<p><i>Activity 4.1.1.1.2</i> Draft generic rapid VC assessment tools, with adaptation completed for the value chain in Tanzania and Egypt</p>	<p>Rapid VCA methodology developed for Egypt VC:</p> <ul style="list-style-type: none"> Working paper
<p>Milestone 4.1.1.2 VC assessments completed for the target VCs</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation Expansion of Cereal Systems Initiative for South Asia (CSISA) in Bangladesh, BA-3746-IRR, International Rice Research Institute Feed the Future Aquaculture in Bangladesh, BA-3744-USA, USAID
<p><i>Activity 4.1.1.2.1</i> Finish rapid VC assessments and use results to design and initiate in-depth assessments, in Tanzania, Uganda, Ethiopia, Vietnam, Bangladesh, Egypt</p>	<p>Rapid VCA in Bangladesh; preparations for in-depth assessment in Egypt:</p> <ul style="list-style-type: none"> Project Report Mission Reports for Bangladesh and Egypt
<p>Milestone 4.1.1.3 Potential interventions at scale for improved VC performance identified and prioritized by "Date"</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> Expansion of Cereal Systems Initiative for South Asia (CSISA) in Bangladesh, BA-3746-IRR, International Rice Research Institute Feed the Future Aquaculture in Bangladesh, BA-3744-USA, USAID
<p><i>Activity 4.1.1.3.1</i></p>	<ul style="list-style-type: none"> Project reports

<p>Evidence base for selected best-bets established (reviews)</p>	<ul style="list-style-type: none"> • Technology training manuals • Training reports
<p>Output 4.1.2: "Best bets" piloted, validated and refined, also other new technical and institutional solutions, with partners and other value actors.</p>	<p>Budget (\$ 000s) CG Fund: N/A WB/Bilateral: \$384k Others: \$24k TOTAL: \$408k</p>
<p>Milestone 4.1.2.2 At least "X" VC interventions piloted and evaluated</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> • Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation • Aquaculture Development in ASARECA Region, AF-2257-ASA, Association for Strengthening Agricultural Research in Eastern and Central Africa
<p>Activity 4.1.2.2.2 Testing Pro-poor AQ production system in Egypt.</p>	<p>Pilot trials on homestead catfish farming (Egypt):</p> <ul style="list-style-type: none"> • Study report on homestead catfish farming system pilot trials
<p>Activity 4.1.2.2.3 Farmed fish production technologies in Upper Egypt tested</p>	<p>Testing of aquaculture technologies (Upper Egypt):</p> <ul style="list-style-type: none"> • Study report on Upper Egypt production technologies
<p>Activity 4.1.2.2.4 TBD (to fit under program-wide defined activity)</p>	<p>Capacity building for value chain actors in improved aquaculture technologies:</p> <ul style="list-style-type: none"> • Study report on Strengthen Capacity of participating hatcheries and seed distributors to implement good practice guidelines – regional workshop. • Capacity building in environmental impact assessment
<p>Milestone 4.1.2.3 Refinement of "best bets" & preparation of options for scaling across VCs.</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> • Productive, profitable and resilient Agricultural and Aquaculture Systems, BA-3826-IRR, International Rice Research Institute • Pro-poor Business Models for Small-scale Aquaculture (BMSA), AQ-4075-BMZ, GIZ • Improving market access and coordination: guidelines for product traceability and small-scale producer clusters, AQ-4093-FAO, Food and Agriculture Organization of the United Nations
<p>Activity 4.1.2.3.2 Testing and documenting best practices for small- and medium-scale aquaculture operators</p>	<p>Testing best practices for aquaculture producers:</p> <ul style="list-style-type: none"> • Project Reports • Publication
<p>Output 4.1.3: Mechanisms for scaling up and out the successfully tested strategies for upgrading VC; CRP L&F documented influence that is fostering implementation at</p>	<p>Budget (\$ 000s) CG Fund: N/A WB/Bilateral: \$947k</p>

<p>scale supported by an enabling environment</p>	<p>Others: \$76k TOTAL: \$1,023k</p>
<p>Milestone 4.1.3.1.1 Innovation system tested</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation
<p>Activity 4.1.3.1.2 Best Management Practice (BMP) training for fish farmers and other VC actors in Egypt</p>	<p>Best management practices (BMP) training for VC actors:</p> <ul style="list-style-type: none"> Report on BMP development process, BMP manual, BMP videos
<p>Activity 4.1.3.1.3 Dissemination of Abbassa strain improved tilapia in Egypt.</p>	<p>Dissemination of improved tilapia to multiplication centers</p> <ul style="list-style-type: none"> Seed value chain study report
<p>Milestone 4.1.3.2 Policy environment enhanced</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation
<p>Activity 4.1.2.3.1 Engage with key stakeholders for improved policy and regulatory environment for AQ in Egypt</p>	<p>Study and stakeholder consultations on policy and regulatory frameworks:</p> <ul style="list-style-type: none"> Consultancy report Strategy documents produced and disseminated
<p>Description</p>	<p>Deliverables</p>
<p>Theme 5: Targeting Sustainable Interventions</p>	<p>Budget (\$ 000s) CG Fund: \$304k M3/Bilateral: \$105k Others: N/A TOTAL: \$409k</p>
<p>Objective 5.1 Effective targeting, implementation and scaling out of pro-poor sustainable animal sourced food value chains development action</p>	<p>N/A</p>
<p>Output 5.1.1 Sustainable interventions identified and targeted in promising VCs</p>	<p>Budget (\$ 000s) CG Fund: \$300k M3/Bilateral: N/A Others: N/A TOTAL: \$300k</p>
<p>Milestone 5.1.1.1 Projections of commodities' supply and demand as well as</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> N/A

<p>associated livelihood, environmental and nutritional outcomes</p> <p>Activity 5.1.1.1.1 <i>Integrated models are used to project commodities' supply and demand as well as associated livelihood, environmental outcomes</i></p>	<p>Modeling of fish supply and demand:</p> <ul style="list-style-type: none"> • Workshop report on promising aquaculture technologies & production systems and the future of global fish supply <p>Convene global dialogue around ASF nutrition security (in collaboration with ILRI):</p> <ul style="list-style-type: none"> • Workshop and papers • WorldFish review paper on aquaculture, health and nutrition
<p>Milestone 5.1.1.1.2 Promising VCs and sites within the VCs are identified:</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> • N/A
<p>Activity 5.1.1.2.1 <i>Selection of promising VCs and sites</i></p>	<p>Scoping Sub-Saharan African Fish Value Chain:</p> <ul style="list-style-type: none"> • Scoping Mission Report • Develop integrated plan for Bangladesh Fish Value Chain. • Integrated VC Plan
<p>Output 5.1.2 Approaches, tools and processes for targeting VCs and sustainable interventions</p>	<p>Budget (\$ 000s)</p> <p>CG Fund: \$4k W3/Bilateral: \$105k Others: N/A TOTAL: \$109k</p>
<p>Milestone 5.1.2.2 Approaches, tools and processes for targeting sustainable interventions in VCs</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> • Aquaculture for Food Security, Poverty Alleviation and Nutrition, AQ-4001-ECU, European Commission
<p>Activity 5.1.2.2.1 <i>Case studies in Bangladesh, Ghana and India</i></p>	<p>Case studies on approaches, tools and methods:</p> <ul style="list-style-type: none"> • Book Chapter • Workshop report • One non-peer reviewed publication
<p>Description</p>	<p>Deliverables</p>
<p>Theme 6: Gender & Learning</p>	<p>Budget (\$ 000s)</p> <p>CG Fund: \$155k W3/Bilateral: \$334k Others: \$24k TOTAL: \$513k</p>

<p>Objective 6.1 To generate gender strategies and tools for value chain analysis and development that improve the nature and level of participation by women and marginalized groups and are used by value chain scientists and partners within the context of the CRP and beyond</p>	<p>N/A</p>
<p>Output 6.1.2 Strategies and approaches developed through which women and marginalized groups improve the nature and level of participation in livestock and fish value chains:</p>	<p>Budget (\$ 000s) CG Fund: N/A W3/Bilateral: \$291k Others: \$24k TOTAL: \$315k</p>
<p>Milestone 6.1.2.2 Testing approaches for enhanced involvement of women in value chains</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation
<p>Activity 6.1.2.2.1 <i>Employment of women retailers in fish value chains in Egypt.</i></p>	<p>Pilot initiatives to enhance women's involvement in fish value chains:</p> <ul style="list-style-type: none"> Study report on results of pilot scale interventions Baseline report on situation of female and male fish retailers
<p>Output 6.1.3 Strategies and approaches that increase women and marginalized groups entitlement to access markets and control resources, technologies, labor power and the benefits of their work</p>	<p>Budget (\$ 000s) CG Fund: \$78k W3/Bilateral: N/A Others: N/A TOTAL: \$78k</p>
<p>Milestone 6.1.3.1 Proposals developed for value chain projects using Gender Transformative Approaches (GTA)</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> N/A
<p>Activity 6.1.3.1.1 <i>Develop proposals to fund VC projects using GTAs (2013-2018)</i></p>	<p>Resource mobilization and science development:</p> <ul style="list-style-type: none"> 2 proposals developed 1 publication
<p>Objective 5.2 Develop a robust set of monitoring, evaluation, impact assessment and learning mechanisms to maximize the probability of achieving intended impact, document the level and manner of that impact and the outcomes that brought it about, understand and support the processes of innovation</p>	<p>N/A</p>

<p>and AR4D to improve performance, and support internal M&E, planning and management</p>	
<p>Output 6.2.1 A monitoring, evaluation and impact assessment framework for AR4D for pro-poor value chain development</p>	<p>Budget (\$ 000s) CG Fund: \$40k W3/Bilateral: N/A (SDC Egypt figure to be adjusted) Others: N/A TOTAL: \$40k</p>
<p>Milestone 6.2.1.1 The program M&E/IA framework developed, including VC level frameworks finalized</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> N/A
<p>Activity 6.2.1.1.1 Prepare strategy document</p>	<p>Impact assessment strategy development:</p> <ul style="list-style-type: none"> Paper on M&E&IA in fish VCs
<p>Output 6.2.2 Outcome assessments conducted to test key Theory of Change assumptions and inform design of future activities</p>	<p>Budget (\$ 000s) CG Fund: \$37k W3/Bilateral: N/A Others: N/A TOTAL: \$37k</p>
<p>Milestone 6.2.2.1 TBD</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> N/A
<p>Activity 6.2.2.1.1 Assessment studies designed and initiated in at least 3 value chains (Tanzania Ethiopia, Uganda, Egypt) based on framework</p>	<p>Prepare for value chain assessment study:</p> <ul style="list-style-type: none"> Data analysis, TOR development
<p>Output 6.2.3 Impact assessments used to guide program investment and project design</p>	<p>Budget (\$ 000s) CG Fund: N/A W3/Bilateral: \$43k (FIF project figure to be added) Others: N/A TOTAL: \$43k</p>
<p>Milestone 6.2.3.1 TBD</p>	<p>Bilateral projects contributing to milestone (short title, code, donor):</p> <ul style="list-style-type: none"> Improving employment and income through development of Egypt's aquaculture sector, AP-4036-SDC, Swiss Agency for Development and Cooperation
<p>Activity 6.2.3.1.1 Impact assessment schedule prepared and studies initiated</p>	<p>Assessment of VC interventions (Egypt):</p> <ul style="list-style-type: none"> A survey on the impacts of aquaculture Best Management Practices (BMPs) on poverty, livelihoods

and employment.

