

Logical Framework

Tan Hoa Lo Gom canal sanitation and urban upgrading - Ho Chi Minh City (HCMC) - Vietnam Extension phase

Intervention logic	Indicators of Performance	Means of Verification	Assumptions and risks
General objective:			
The quality of life related to environmental and urban development issues for the people living in urban area has been improved	Health, Income, Water quality in the canals Number of slums, Green area, Annual flood days in HCMC, Waste collection	Ho Chi Minh City statistics PMU415's final report Evaluation PC/Belgium in 2010	
Specific objectives:			
			Specific objectives to General objective
1. Solid waste collection and dumping are organized up to acceptable standards	Amount of waste dumped in the canal Amount of waste littered along the roads	District (USC) and Ward statistics PMU 415 survey, final report	Results of the pilot projects are evaluated and replicated
2. Canal infrastructure and housing facilities in THLG canal area have been improved	Mobility on and along canal, access to houses Quality of housing, equipment, utilities	District and Ward statistics PMU 415 survey, final report	
3. The waste water of the DEN canal has been treated through aerated lagoon technology	Lagoon effluent chemical and biological water quality	Lagoon station test reports Doste statistics TA and final reports PMU 415	
4. Socio-economic support and capacity building have been enhanced	Social security and income Environmental awareness Knowledge of project related people	District and Ward statistics PMU 415 socio-economic surveys, final report	

Tan Hoa Lo Gom canal sanitation and urban upgrading - Ho Chi Minh City (HCMC) - Vietnam
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Intermediate results:			Interm. results to Spec. Objectives
1.1. Primary collection of solid waste in the Wards 3, 4, 7, 8 and 11 of district 6 has been improved	1.1.1. Collection routes reorganised on the grouped cells basis 1.1.2. Number of collectors signing the contract 1.1.3. Number of HH in the wards signing the contract and paying the fee 1.1.4. Solid waste collection time and distance 1.1.5. Income of the collectors 1.1.6. Numbers of carts provided 1.1.7. Numbers of uniforms and equipment provided	District and Ward statistics PMU 415 surveys, accounting, maps, final report	Collection fees meet operational costs of collecting and dumping
1.2. A small transfer station has been built and put into operation in Ward 7	1.2.1. Construction documents 1.2.2. Number of STS staff trained and assigned 1.2.3. Number of collectors attached to STS 1.2.4. Weight of waste in/out STS every day	Site reports, Certificate of acceptance and handover, STS operation reports, PMU 415 evaluation, final report	
1.3. Solid waste collection and dumping have been evaluated	1.3.1. Evaluating results are published 1.3.2. Number of people who have read the report 1.3.3. References in media referring to the results	Evaluation reports Press references	

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Intermediate results:			Interm. results to Spec. Objectives
2.1. The canal infrastructure in Ward 11 has been improved	2.1.1. Frequency and level of floods in the area 2.1.2. Number of people using the infrastructure 2.1.3. Accessibility of the area 2.1.4. Number and kind of activities in the area 2.1.5. Satisfaction of the inhabitants	As-built relocation plans District and Ward statistics PMU 415 surveys, final report	Maintenance of canal and housing infrastructure is assured
2.2. The housing facilities in Ward 11 have been improved (relocation and urban upgrading area)	2.2.1. Construction materials used 2.2.2. Connections to electr, water, drainage 2.2.3. Flood frequency and level 2.2.4. Green area 2.2.5. Access to owners, solid waste, fire dept. 2.2.6. % of PAPs officially registered (BOLUC) 2.2.7. % of PAPs resettled in apartments 2.2.8. Access HH to social services (educ, health) 2.2.9. Satisfaction of the inhabitants	As-built plans of housing and upgrading areas District and Ward statistics PMU 415 surveys, final report	
2.3. A site and services area in Ward Bing Hung Hoa has been constructed to relocate people from Ward 11, District 6	2.3.1. Construction documents 2.3.2. % of PAPs relocated in S&S project 2.3.3. % of households still there after 5 y 2.3.4. % of PAPs officially registered (BOLUC) 2.3.5. Access HH to social services (educ, health) 2.3.6. % of households connected to water, el, drain 2.3.7. Accessibility of the area 2.3.8. Nr of housing loans and houses built 2.3.9. Satisfaction of the inhabitants	Ward statistics, as-built plans of the infrastructure, Certificate of acceptance and handover, School operation reports, PMU 415 evaluation, final report	
2.4. The improved canal infrastructure and housing facilities have been evaluated	2.4.1. Evaluating results are published 2.4.2. Number of people who got the report 2.4.3. References in media referring to the results	Evaluation reports Press references	

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Intermediate results:			Interm. results to Spec. Objectives
3.1. An aerated lagoon wastewater treatment plant for Ward Bing Hung Hoa has been studied	3.1.1. Study results are published 3.1.2. Number of meetings to discuss study results	Study reports Minutes of meetings	Maintenance of the aerated lagoon infrastructure is assured
3.2. An aerated lagoon wastewater treatment plant for Ward Bing Hung Hoa has been constructed and treats the water of Den canal	3.2.1. Construction documents (site reports etc.) 3.2.2. Number of staff trained and assigned to WWTP 3.2.3. Quality of effluents according to VN standard 3.2.4. Volume of effluents according to VN standard 3.2.5. Kind and quality of fish in maturation fishponds 3.2.6. Number of people fishing in the fishponds 3.2.7. Complaints and satisfaction from neighbours (smell, mosquitos, floods)	As-built plans of the infrastructure Certificate of acceptance and handover Water quality analysis reports Fish quality analysis reports Lagoon operation reports PMU 415 TA evaluation reports Ward, District and PC reports Final report	Technicians of the aerated lagoon got proper operations training
3.3. Institutional capacity building concerning waste water treatment has been assured	3.3.1. Nr of meetings with related institutions and depts. (Doste, universities, etc.) 3.3.2. Nr of trainings, workshops, studytours organised 3.3.3. Nr of research programs with VN universities 3.3.4. Nr of foreign experts' supporting missions 3.3.5. Foreign university capacity to support research program 3.3.6. Nr of students and teachers involved in training and research	Minutes of meetings PMU 415 reports TA report university research Publications from research Evaluation reports Final report	Willingness from all stakeholders involved to set up research programs at BHH lagoon
3.4. The aerated lagoon has been evaluated	3.4.1. Evaluating results are published 3.4.2. Number of seminar(s) on the results 3.4.2. Number of people who have read the report 3.4.3. References in media referring to the results	Evaluation reports Press references	

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Intermediate results:			Interm. results to Spec. Objectives
4.1. Environmental awareness of the community in the project area has been enhanced	4.1.1.1. (School awareness) Nr of teachers and students 4.1.1.2. (School awareness) Nr of teaching sets 4.1.2.1. (Children awareness W11) Number of children 4.1.2.2. (Children awareness W11) Nr of campaigns 4.1.3.1. (Training for awareness trainers) Number and kind of people trained 4.1.3.2. (Training for awareness trainers) Number and kind of regular activities organized with the local authorities 4.1.4.1. (Public awareness raising) Number and kind of pedagogical material produced (CD,web, poster, films)	District and Ward statistics PMU 415 surveys and reports, accounting, final report	District officials continue awareness rising activities in other Wards
4.2. Community participation has been used as a tool to guarantee successful relocations and housing improvements	4.2.1. (urban upgrading) Nr of HH connected to water, electricity, drainage, septic tank 4.2.2.1. (relocation) Nr of consultation meetings with relocatees on design etc. 4.2.2.2. (relocation) Nr of relocatees consulting information center (law, finance, construction matters) 4.2.3.1. (relocation) Appointment of relocatees' construction supervisors 4.2.3.2. (relocation) Establishment apartment block management boards and contracts. trainings organized	District and Ward statistics PMU 415 evaluation surveys and reports information center visitor list and reports construction site reports Management board contracts and reports final report	

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Intermediate results:			Interm. results to Spec. Objectives
4.3. Socio-economic activities have been organised to support relocatees and people living in the project area	4.3.1.1.(credits, loans) Budget and nr of members of savings/credits programs in W11 and BHH 4.3.1.2. (credits, loans) Budget and number of construction loans in BHH 4.3.2.1. (job creation) Nr of courses and trainees for vocational training 4.3.2.2. (job creation) Nr of people who find a job in market and workshops W11 4.3.3.1. (education) Nr of relocated children admitted to BHH primary school 4.3.3.2. (education) Distance of pupils' homes to BHH school	District and Ward statistics PMU 415 evaluation surveys and reports Social workers' reports School year reports and pupils address lists Project final report	
4.4. Institutional capacity has been strengthened through training and seminars	4.4.1. Number of seminars, workshops and trainings 4.4.2. Number and job of participants attending 4.4.3. Number and kind of institutions involved	Workshop reports PMU 415 SC reports final report	
4.5. Close collaboration between the departments of HCMC and other donors has been assured	4.5.1. Number of ODAP meetings and workshops 4.5.2. Number of info requests at ODAP office 4.5.3. Number of ODAP Newsletters published	Minutes of ODAP SC meetings Workshop handouts and reports ODAP and DPI statistics ODAP Newsletters	Budget and Human Resources available at DPI Donors continue cooperation and support

ANNEX 6.1.: Logical Framework

Sanitation and urban upgrading of Tan Hoa Lo Gom (THLG) basin - Ho Chi Minh City (HCMC) - Vietnam Extension phase

Activities	Belgian contribution (EUR)	Counter Value Fund (EUR)	Vietnamese Contribution (EUR)	Assumptions and risks Activities to expected results
1. Solid Waste collection and dumping				
1.1.1. Production and supply of cyclocarts	21,000			The accessibility of the carts to the households can be assured
1.1.2. Supply of uniforms and other materials	10,000			The domestic volume per household roughly remain the same
1.2.1. Construction of Small Transfer Station	250,000			The land for the STS will be timely available
1.2.2. Supply of mechanical equipment	200,000			The accessibility of the carts to the STS can be assured
1.2.3. Training of STS operators	3,000			
1.3.1. Audit and evaluation	46,300			
Totals	530,300			
2. Canal infrastructure and housing improved				
2.1.1. Final design	175,000			Final design timely approved
2.1.2. Execution of canal infrastructure works		260,600		
2.1.3. Related infrastructure facilities are built		1,197,000		
2.2.1. Final design and Vietnamese feasibility study			17,000	FS timely approved by Vietnamese authorities
2.2.2. Land acquisition and lost assets compensation			3,738,300	Land acquisition timely started
2.2.3. Construction of 70 apartments		299,000		
2.2.4. Construction of 130 apartments		926,500		
2.2.5. Construction of the market, industrial building		274,400		
2.3.1. Vietnamese feasibility study			8,500	FS timely approved by Vietnamese authorities
2.3.2. Land acquisition			212,700	Land acquisition timely started
2.3.3. Final design	40,600			
2.3.4. Construction of infrastructure for 150 plots	372,300			
2.3.5. Construction of the market	127,600			
2.3.6. Supervision of the works	15,000			
2.3.7. Attribution of housing construction loans	243,600			
2.3.8. Relocation policy definition	17,400			Relocation policy timely agreed upon
2.3.9. Lawyer support	6,400			
2.3.10. Capacity building	63,400			
2.4.1. Audit and evaluation	40,500			
Totals	1,101,800	2,957,500	3,976,500	

ANNEX 6.1.: Logical Framework

Sanitation and urban upgrading of Tan Hoa Lo Gom (THLG) basin - Ho Chi Minh City (HCMC) - Vietnam Extension phase

Activities	Belgian contribution (EUR)	Counter Value Fund (EUR)	Vietnamese Contribution (EUR)	Assumptions and risks Activities to expected results
3. Wastewater treatment through aerated lagoon				
3.1.1. Vietnamese feasibility study			22,000	
3.1.2. Land acquisition			3,477,800	Land acquisition timely started
3.1.3. Detailed Design Study	194,300			
3.2.1. Construction of the aerated lagoon	1,859,500			The Urban Drainage Company reshapes the entire section between White bridge and confluence with 19 May canal
3.2.2. Monitoring programme	32,000			
3.3.1. Short-term technical assistance (5 mm)	116,800			
3.3.2. Training (12 mm)	33,600			
3.3.3. Research program by Vietnamese universities			11,000	
3.4.1. Audit and evaluation	40,500			
Totals	2,276,700	0	3,510,800	
4. Socio-economic support and capacity building				
4.1.1. Awareness raising activities in schools	80,000			
4.1.2. Design and production of pedagogical material	88,100			
4.1.3. Production of films, cartoons and TV spots	31,200			
4.2.1. Community participation activities	127,000			
4.3.1. Job creation activities	19,200			
4.3.2. Vocational training activities	16,000			
4.3.3. Micro-credit activities	44,600			
4.4.1. Training, study tours, seminars and workshops	47,200			
4.4.2. Updating of GIS maps and CD-ROM	20,000			
4.5.1. Budgetary support to ODAP	74,500			
4.6.1. Audit and evaluation	40,500			
Totals	588,300	0	0	
General Totals	4,497,100	2,957,500	7,487,300	