

مشروع التنمية المحلية LD II-P

Aug. 15, 91

FINANCED BY U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT

مصدر التمويل : الوكالة الامريكية للتنمية الدولية

Fourth-Cycle Capital Investment Plan

A Summary

USAID Contract No.: 263-0182-C-00-8041-00
Project No.: 263-0182-3-60054

August 1991

Fourth-Cycle Capital Investment Plan

A Summary

USAID Contract No.: 263-0182-C-00-8041-00
Project No.: 263-0182-3-60054

August 1991

Fourth Cycle LD II-P Capital Investment Plan Summary

On 13 June 1991, the 22 provincial governorates and Luxor City submitted their proposed 1991/92 LD II-P capital investment plans to the Provincial Local Development Committee for review. The PLDC, meeting in Cairo at the Ministry of Local Administration conference hall, approved all submissions. The approval covered 2,541 subprojects representing over LE 163 million in investment. The sector breakdown is 935 water projects, 725 buildings, 382 roads, 223 environment, 63 waste water, 190 rolling stock and 18 information systems. The water projects encompassed 34 percent of the funding followed by roads with 29 percent and buildings with 13 percent. This report summarizes the allocation of the fourth cycle capital investment funds.

FUND COMPOSITION

The total fourth-cycle cash fund is LE 163,658,534, of which LE 154,000,300 is block grant funding. The total USAID grant funding requested was LE 140,000,000.

The fourth-cycle LD II-P fund is composed of two principal sources: Agreement funds and additional voluntary contributions. The Agreement fund (or block grant) is made up of three sources: the USAID grant, a matching contribution by the Ministry of Planning equal to 5 percent of the USAID grant, and a matching contribution from the governorate also equal to 5 percent of the USAID grant.

USAID Grant

The fourth-cycle formula for the USAID grant was based on four elements:

Basic allocation	LE 3,000,000 per governorate
Number of eligible cities	200,000 per city in rural governorates
	100,000 per city in desert governorates
Number of village councils	10,000 per VC
Population	0.87 per capita

Allocations for Red Sea and Luxor City were developed on a separate basis.

It is of some interest to note the relative magnitudes of the various components of the USAID grant. The total USAID grant programmed through the formula (i.e, excluding Red Sea) is LE 140,000,000. While governorates benefit differently from the individual components, the average relative magnitudes are as follows:

Base allocation	45%
Cities fund	24%
VC allocation	7%
Population	24%
TOTAL	100%

Agreement GOE Contribution

There was nothing remarkable about the 10 percent Agreement GOE contribution, which is pegged strictly to the governorate's USAID grant level, other than that Kafr El-Sheikh deposited LE 200 more than required and that the MOP contribution in Fayoum was LE 100 more than required.

The final block grant calculation is shown in Table 1. Note that governorate populations are given in thousands, as rendered by the MLA.

Additional Contributions

The total funding added by the governorates to the block grant is LE 8,554,734, or 5.3 percent of the total fourth-cycle LD II-P fund.

Many governorates added little to their block grants other than the mandatory contributions (for information systems projects and for VC office building projects). But in the following governorates, additional contributions constituted more than one percent of the governorate's total fourth-cycle fund:

Gharbiya	13%
Qena	11%
Sohag	10%
Asswan	8%
Minya	8%
Sharqiya	8%
Fayoum	8%
Daqahliya	6%
Beni Suef	5%
Assyout	5%
Ismailia	3%

The sectorial rates of additional contribution as a percentage of the total sector funds are as follows:

Information Systems	20.0%
Environment	9.0%
Roads	8.8%
Buildings	4.6%
Water	3.2%
Wastewater	2.2%
Rolling Stock	1.0%

The additional contributions for environmental projects are nearly all for electricity projects.

CAPITAL INVESTMENT PATTERNS

Types of Projects

The specific project types classed under each sector which are represented in the fourth-cycle plan are shown in Table 2.

The number of projects per sector and the share of each sector in the total fund are summarized here:

Sector	No.	% of Fund
Water	935	34%
Roads	384	31%
Wastewater	63	11%
Environment	224	5%
Buildings	726	12%
Rolling Stock	191	6%
Information	18	1%
Total Plan	2,541	100%

Water

Water is the largest sector in terms of both number of projects and size of fund. The total water fund is LE 54,884,443, of which LE 1,734,461 (3.2 percent) is additional contribution and LE 53,149,982 is block grant funding. The classification of water projects is based on the various possible combinations of four types of facility: source, storage, distribution, and sector study. Ninety-four projects, representing 6 percent of the total sector fund, were left unspecified as to type by the governorate data entry operators. Thirteen other projects, representing 4 percent of the sector fund, are studies. In most cases these are joint water/wastewater studies; such joint studies were classified under the water sector in all cases except Minya, whose joint study was classified under the wastewater sector. Hence, 14 governorates are requesting

LDII-P PROVINCIAL PROJECT FOURTH CYCLE ALLOCATIONS

Table 1

GOV.	BASIC ALLOCATION	CITY ALLOCATION		VILLAGE COUNCIL ALLOCATION		POPULATION BASED ALLOCATION		TOTAL LDII-P ALLOCATION	MOP CONTRIB.	GOV. CONTRIB.	TOTAL BLOCK GRANT
		NO.	LE	NO.	LE	NO.	LE				
ASSWAN	3,000,000	7	1,400,000	28	280,000	861	762,000	5,442,000	272,100	272,100	5,986,200
ASSYOUT	3,000,000	10	2,000,000	49	490,000	2,390	2,114,000	7,604,000	380,200	380,200	8,364,400
BEHEIRA	3,000,000	14	2,800,000	69	690,000	3,503	3,099,000	9,589,000	479,450	479,450	10,547,900
BENI SUEF	3,000,000	6	1,200,000	38	380,000	1,393	1,232,000	5,812,000	290,600	290,600	6,393,200
DAMIETTA	3,000,000	9	1,800,000	24	240,000	789	698,000	5,738,000	286,900	286,900	6,311,800
DAQAHLIYA	3,000,000	12	2,400,000	92	920,000	3,734	3,303,000	9,623,000	481,150	481,150	10,585,300
FAYOUM	3,000,000	4	800,000	39	390,000	1,456	1,288,000	5,478,000	273,900	273,900	6,025,800
GHARBIYA	3,000,000	8	1,600,000	53	530,000	3,044	2,693,000	7,823,000	391,150	391,150	8,605,300
GIZA	3,000,000	8	1,600,000	45	450,000	2,230	1,973,000	7,023,000	351,150	351,150	7,725,300
ISMAILIYA	3,000,000	5	1,000,000	10	100,000	601	532,000	4,632,000	231,600	231,600	5,095,200
K.SHEIKH	3,000,000	10	2,000,000	44	440,000	1,920	1,698,000	7,138,000	356,900	356,900	7,851,800
MATROUH	3,000,000	8	800,000	28	280,000	176	156,000	4,236,000	211,800	211,800	4,659,600
MENUFIYA	3,000,000	9	1,800,000	67	670,000	2,385	2,110,000	7,580,000	379,000	379,000	8,338,000
MINYA	3,000,000	8	1,600,000	57	570,000	2,663	2,355,000	7,525,000	376,250	376,250	8,277,500
N.VALLEY	3,000,000	2	200,000	16	160,000	122	108,000	3,468,000	173,400	173,400	3,814,800
N.SINAI	3,000,000	6	600,000	32	320,000	188	166,000	4,086,000	204,300	204,300	4,494,600
QALUBIYA	3,000,000	8	1,600,000	45	450,000	2,054	1,817,000	6,867,000	343,350	343,350	7,553,700
QENA	3,000,000	12	2,400,000	48	480,000	2,299	2,034,000	7,914,000	395,700	395,700	8,705,400
RED SEA	12,035,000	0	0	0	0	0	0	12,035,000	601,750	501,750	13,138,500
SHARQIYA	3,000,000	15	3,000,000	74	740,000	3,667	3,244,000	9,984,000	499,200	499,200	10,982,400
SOHAG	3,000,000	11	2,200,000	51	510,000	2,623	2,320,000	8,030,000	401,500	401,500	8,833,000
S.SINAI	3,000,000	8	800,000	8	80,000	32	28,000	3,908,000	195,400	195,400	4,298,800
LUXOR	500,000	0	0	0	0	0	0	500,000	25,000	25,000	550,000
TOTAL	75,535,000	180	33,600,000	917	9,170,000	38,130	33,730,000	152,035,000	7,601,750	7,501,750	167,138,500

ALLOC/DISK 3(QPRO)MR

Table 2

TYPOLOGY

SECTOR	# OF PROJECTS	TOTAL FUND	% SECTOR TOTAL	% TOTAL
WATER				
Water	94	3,430,622	6	2
Water Distribution	417	22,232,151	41	13
Water Source	248	10,846,688	20	7
Water Source & Distribution	71	7,046,932	13	4
Water Source & Storage	14	1,712,017	3	1
Water Source, Storage & Dist.	19	2,468,588	4	2
Water Storage	45	4,095,105	7	3
Water Storage & Distribution	14	1,057,812	2	1
Water Studies	13	1,994,528	4	1
SUB - TOTAL	935	54,884,443		34
ROADS				
Bridges/Culverts	16	543,800	1	0
Laboratories	3	177,000	0	0
Paving	314	38,270,455	79	25
Roads	27	8,237,945	17	6
Roads Studies	4	411,850	1	0
Sideslope Pitching	14	716,000	1	0
Widening	6	72,500	0	0
SUB - TOTAL	384	48,429,550		31
WASTEWATER				
Coll & Trtmt Unit	6	4,100,000	22	3
Collection Unit	32	10,762,494	58	6
Ground Water Lowering	2	338,900	2	0
Treatment Unit	12	2,520,200	14	2
Wastewater Studies	11	800,000	4	0
SUB - TOTAL	63	18,521,594		11
ENVIRONMENT				
Canal Covering	15	780,532	9	0
Canal Filling	1	18,000	0	0
Drain Covering	6	297,500	3	0
Electricity	200	7,743,295	87	5
Swamp Filling	2	61,100	1	0
SUB - TOTAL	224	8,900,427		5
BUILDINGS				
Ambulance Shed	2	105,000	0	0
Bus Stop	1	17,000	0	0
Clinic	27	629,991	3	0
Equipment Shed	2	78,436	0	0
Fire Station	12	328,455	1	0
Latrines	16	335,845	2	0
Maintenance Center	56	2,901,710	13	2
Maintenance Shop	2	23,150	0	0
Market	5	173,066	1	0
Physical Plans	2	99,000	0	0
Post Office	71	1,934,653	9	1
School	383	10,144,265	46	6
Slaughter House	42	1,911,448	9	1
Telephone Office	56	1,589,609	7	1
V/C Office	33	1,185,798	5	1
Veterinary Unit	7	214,962	1	0
Warehouse	9	304,091	1	0
SUB - TOTAL	726	21,976,479		12
ROLLING STOCK				
Buildings Tools	40	798,223	9	0
Environment Equipment	34	1,150,450	13	1
Environment Overall Repair	1	16,000	0	0
General Equipment	30	1,692,032	19	1
General Tools	6	131,000	1	0
Roads Equipment	1	200,000	2	0
Roads Heavy Equipment	1	283,741	3	0
Roads Overall Repair	11	851,850	10	1
Wastewater Equipment	52	3,081,900	34	2
Wastewater Overall Repair	4	100,000	1	0
Water Equipment	11	925,500	10	1
SUB - TOTAL	191	9,230,696		6
OTHER				
Computer Systems (General)	18	1,715,345	100	1
SUB - TOTAL	18	1,715,345		1
TOTAL	2,541	163,658,534		100

studies of the water sector. In some cases, such as Qena and Asswan, these projects involve only translation of an existing study.

Of the remaining 828 projects, comprising 90 percent of the sector fund, 409 projects (49 percent of the fund) are oriented wholly or partly to increasing production and/or storage capacity. The remaining 417 projects are oriented to water distribution. These projects absorb 41 percent of the sector fund, and we may note that this is the single most popular type of project in the entire fourth-cycle plan, in terms of number of projects.

Roads

With 31 percent of the total fund, this is the second most highly funded sector with a total funding of LE 48,429, 550, of which 8.8 percent is voluntary additional contribution and LE 44,212,524 is block grant funding. Paving projects are overwhelmingly the most prominent type of roads project, with 314 out of 384 projects and nearly 80 percent of the total roads fund. Note may also be made of four roads sector study projects (in Beheira, Fayoum, Kafr El-Sheikh, and North Sinai) and three roads materials testing facility (laboratory) projects (in Beheira, Ismailia, and Sharqiya).

Wastewater

Eleven of the 63 projects are studies; three of these are sectorial studies (Beheira, Kafr El-Sheikh, and Minya), though as noted above, many of the water sector study proposals include the wastewater sector as well. The other eight wastewater studies are feasibility studies. The groundwater lowering projects are in Aghurmi VC (Matrouh) and Zankaloon VC (Sharqiya). Thirteen of the remaining projects are new wastewater projects. The others are mostly completion of previous LD II-P investments.

Environment

These projects are mainly of two types: conventional canal/drain/swamp fillings or coverings (24 projects, 13 percent of sector fund) and electricity projects (200 projects, 87 percent of sector fund). As indicated earlier, the electricity projects have the highest rate of fully voluntary additional contribution of any type of project in the plan (9 percent). With the exception of some very large electricity-generating projects in New Valley, most of these projects are network extensions.

Buildings

This sector has the third largest share of total fund (12 percent) and the second largest number of projects (725). Though the types of building projects are many, 383 (more than half) are schools, which absorb 46 percent of the sector funding. Schools are the second most numerous type of fourth-cycle

project after water distribution projects. Other popular types of building project are post offices (71 projects), telephone offices (56), slaughterhouses (42), VC office buildings (33), and clinics (27). As a share of the total buildings fund, markaz maintenance center completion (56 projects) is the second most significant type of project. The two physical planning projects are in Abu Suwair VC (Ismailia) and a district of Kharga City (New Valley).

Rolling Stock

In total funding, this sector is comparable to the environment sector, though block grant funds account for a much larger share of the rolling stock allocations. Some clarification of the type labels is necessary. Buildings tools are projects to equip maintenance centers; the equipment in question is not rolling stock in the strict sense. RS projects labelled "environment" are for trucks or tractor-trailers for solid waste removal; those labelled wastewater are for sewage removal; between them, these two types of equipment account for 48 percent of RS funding. The one road equipment item is actually river equipment: a launch for a village council in Asswan. The water equipment items are water or chlorine supply trucks. Finally, the general equipment is mostly pick-up trucks and is the second most highly funded RS type.

Other

All of these projects are information systems projects. Only five governorates of the 23 have not asked for an IS project. Most of the applications requested support revenue collection or contractor tracking.

Table 3 shows the relative weight of the sectors in each governorate as percentages of the governorate's total fourth-cycle fund.

Project Nature

Table 4 and its accompanying graphs present the distribution of projects and their funds in terms of their relation to existing capital investments: completion, rehabilitation upgrading, extension, and new.

Table 3: SECTORIAL FUND DISTRIBUTION BY GOVERNORATE

Governorate	Water	Roads	Wastewater	Environment	Building	Rolling Stock	Information Systems
ASSWAN	37	12	0	3	28	18	2
ASSYOUT	41	40	0	0	12	6	1
BEHEIRA	37	13	26	1	12	10	1
BENI SUEF	23	13	0	26	30	7	1
DAMIETTA	3	38	48	3	4	2	2
DAQAHLIYA	28	48	9	0	2	11	1
FAYOUM	41	10	21	21	5	2	0
GHARBIYA	26	42	9	2	19	1	(0.25)
GIZA	43	32	8	6	5	5	1
ISMAILIA	39	36	0	2	16	6	2
KAFR EL-SHEIKH	11	48	1	3	34	2	1
LUXOR CITY	100						
MATROUH	25	31	4	6	20	12	3
MENUFIYA	43	21	16	7	10	4	0
MINYA	30	43	14	1	3	8	(0.3)
NEW VALLEY	13	3	52	24	4	2	3
NORTH SINAI	38	29	0	13	11	6	3
QALUBIYA	35	34	28	0	1	0	2
QENA	58	10	0	1	29	2	(0.3)
SHARQIYA	45	32	3	0	15	3	1
SOHAG	40	37	0	7	14	2	(0.4)
SOUTH SINAI	13	20	27	18	11	11	0
TOTAL PLAN	34	29	11	5	13	6	1

Notes: Environment includes electricity projects
 Rolling Stock includes tools and stationary equipment
 All figures are percentages of the governorate's total fund

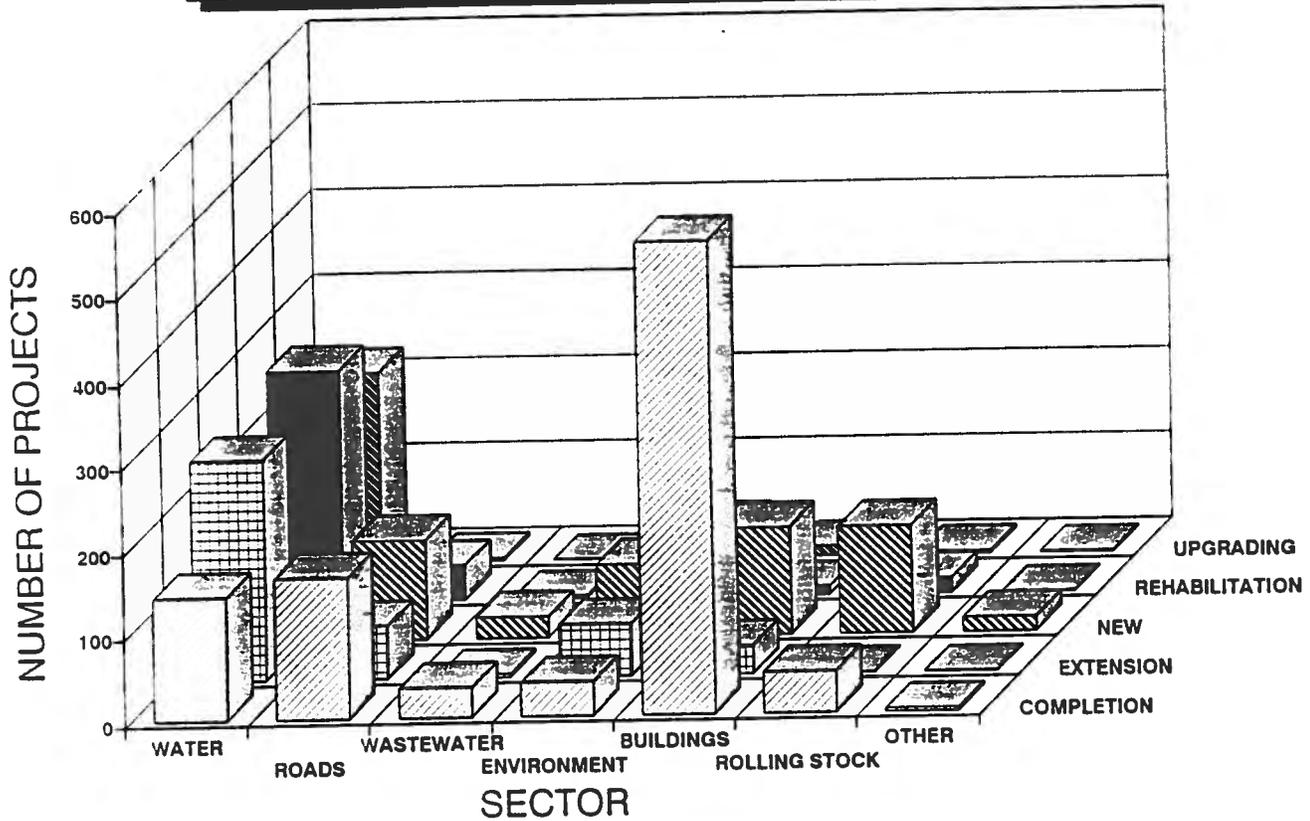
FOURTH CYCLE LDII-P PLAN

PROJECT NATURE, BY SECTOR

Table 4

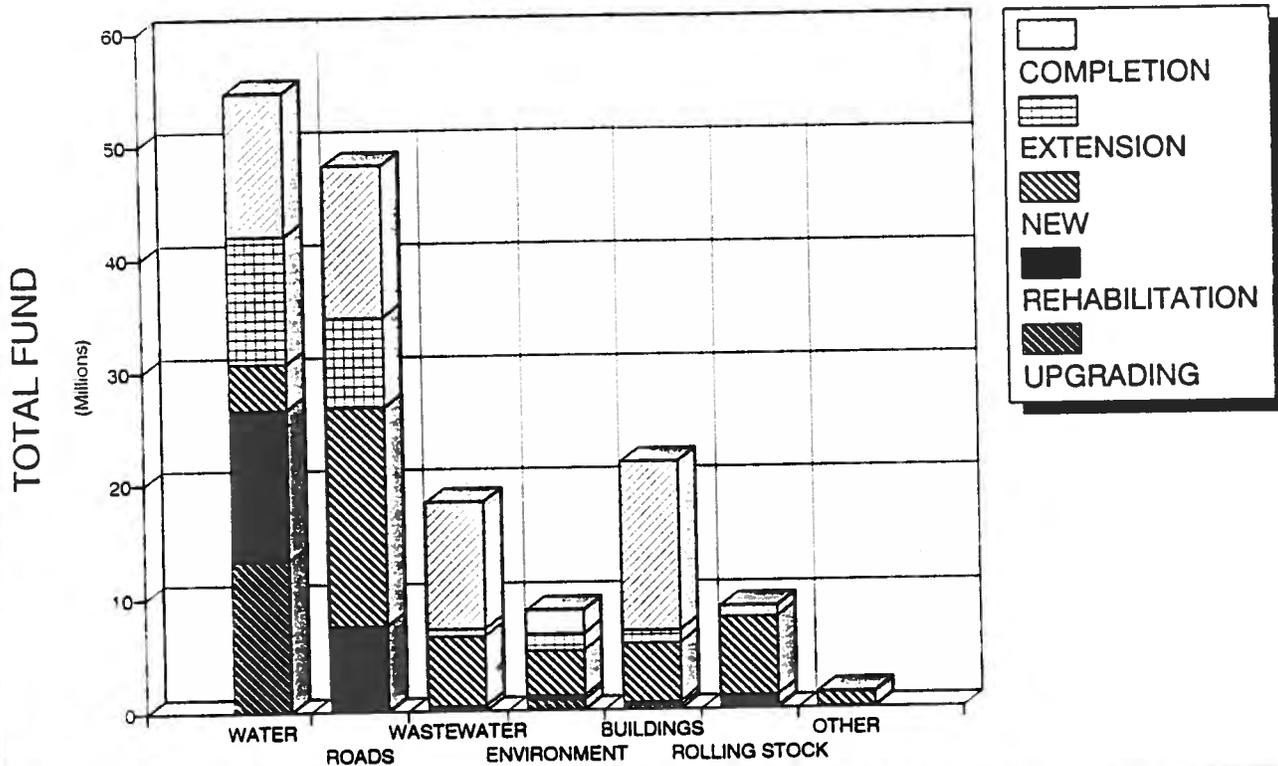
LEVEL	COMPLETION				EXTENSION				NEW				REHABILITATION				UPGRADING			
	# OF	TOTAL	% SECTO	% TOTAL	# OF	TOTAL	% SECTO	% TOTAL	# OF	TOTAL	% SECTO	% TOTAL	# OF	TOTAL	% SECTO	% TOTAL	# OF	TOTAL	% SECTO	% TOTAL
	PROJECT	FUND	TOTAL		PROJECT	FUND	TOTAL		PROJECT	FUND	TOTAL		PROJECT	FUND	TOTAL		PROJECT	FUND	TOTAL	
WATER	143	12,799,388	23	8	258	11,281,751	21	7	42	4,147,969	8	3	270	13,413,740	24	8	222	13,241,595	24	8
ROADS	164	13,480,387	28	8	61	8,039,000	17	5	116	19,258,330	40	12	40	7,545,833	16	5	3	106,000	0	0
WASTEWATE	34	11,249,100	61	7	2	649,800	4	0	24	6,141,694	33	4	3	481,000	3	0	0	0	0	0
ENVIRONMEN	38	2,166,241	25	1	60	1,561,498	18	1	83	3,924,033	45	2	8	389,745	5	0	35	858,910	10	1
BUILDINGS	552	14,858,096	68	9	31	1,213,849	6	1	124	5,205,420	24	3	9	412,679	2	0	10	286,435	1	0
ROLLING STO	47	1,014,223	11	1	0	0	0	0	125	7,001,123	76	4	17	1,015,350	11	1	2	200,000	2	0
OTHER	2	150,000	9	0	0	0	0	0	15	1,440,345	84	1	0	0	0	0	1	125,000	7	0
TOTAL	980	55,717,435		34	412	22,745,898		14	529	47,118,914		29	347	23,258,347		14	273	14,817,940		9

FOURTH CYCLE LDII-P PLAN PROJECT NATURE BY SECTOR/≠ OF PROJECTS



FOURTH CYCLE LDII-P PLAN

PROJECT NATURE BY SECTOR/FUND



The shares of fund to each category may be listed in order of their priority as stated in the Guidelines:

Category	No.	% of Fund
Completion	980	34%
Rehabilitation	347	14%
Upgrading	273	9%
Extension	412	14%
New	529	29%

Completion, rehabilitation, and upgrading account for 1600 out of 2541 projects (63 percent) and for 57 percent of the total fund. In order to compare the sectors, we may define two supercategories: one composed of completion, rehabilitation, and upgrading, the other composed of extension and new projects. We may label the first the completion class and the second the new class. The following table shows the breakdown of each sector's funding in terms of these two classes.

Sector	Completion	New
Water	71%	29%
Roads	44%	56%
Wastewater	63%	37%
Environment	40%	60%
Buildings	70%	30%
Rolling Stock	25%	75%
Information	16%	84%
Total Plan	57%	43%

Project Level

Table 5 and its accompanying graphs classify the projects as central, city, or village projects. The seven central roads projects consist of four sector studies and three laboratories. The four central wastewater projects consist of three sector study projects (in Beheira, Kafr El-Sheikh, and Minya) and sewerage of the Ayat markaz maintenance center in Giza Governorate. The central buildings projects are mostly MMC completions. About one third of the central RS projects are MMC outfittings with tools and equipment, another quarter is pick-up trucks, the remainder are vehicles which are housed in cities but provide service to villages. The overall allocation for central projects is 10 percent of the total fund, or 10.4 percent of the block grant.

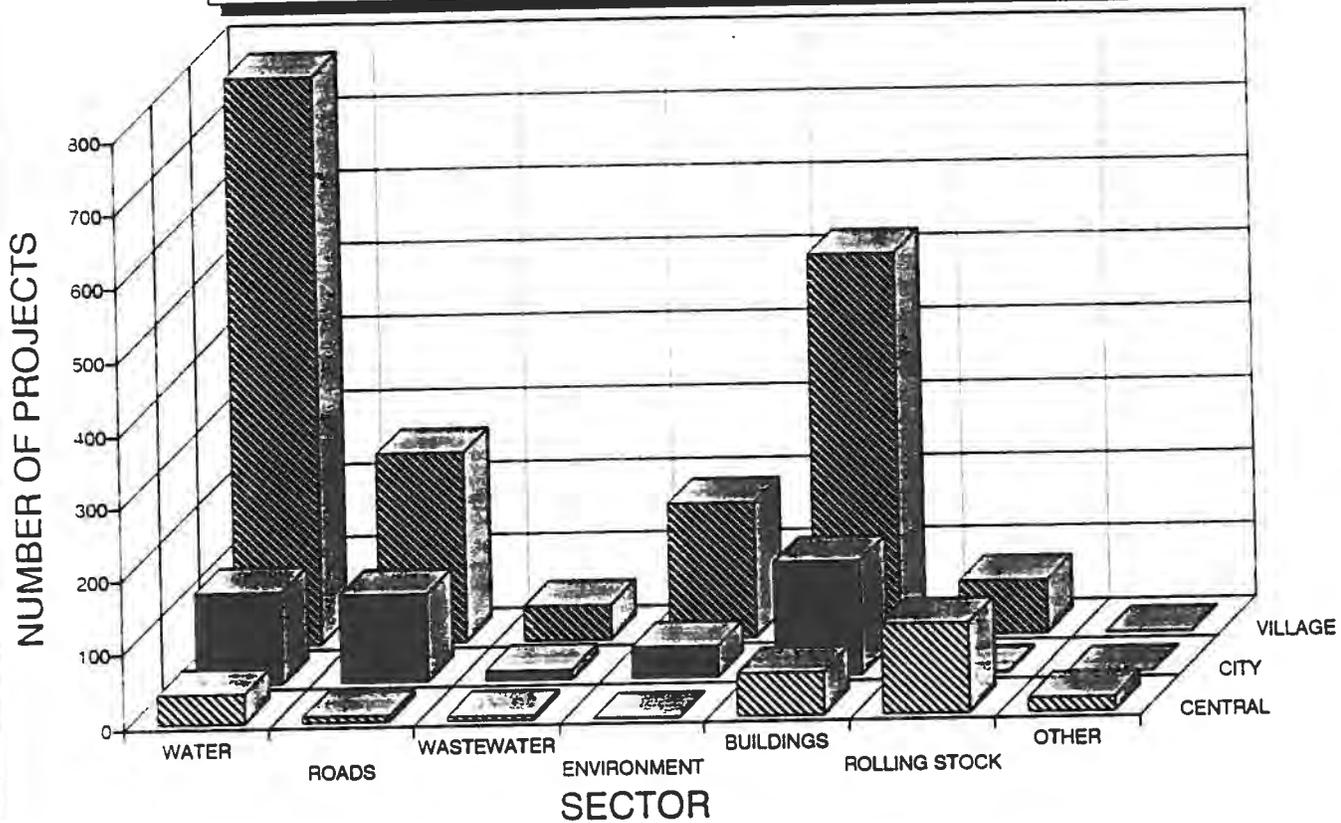
FOURTH CYCLE LDII-P PLAN

PROJECT LEVEL, BY SECTOR

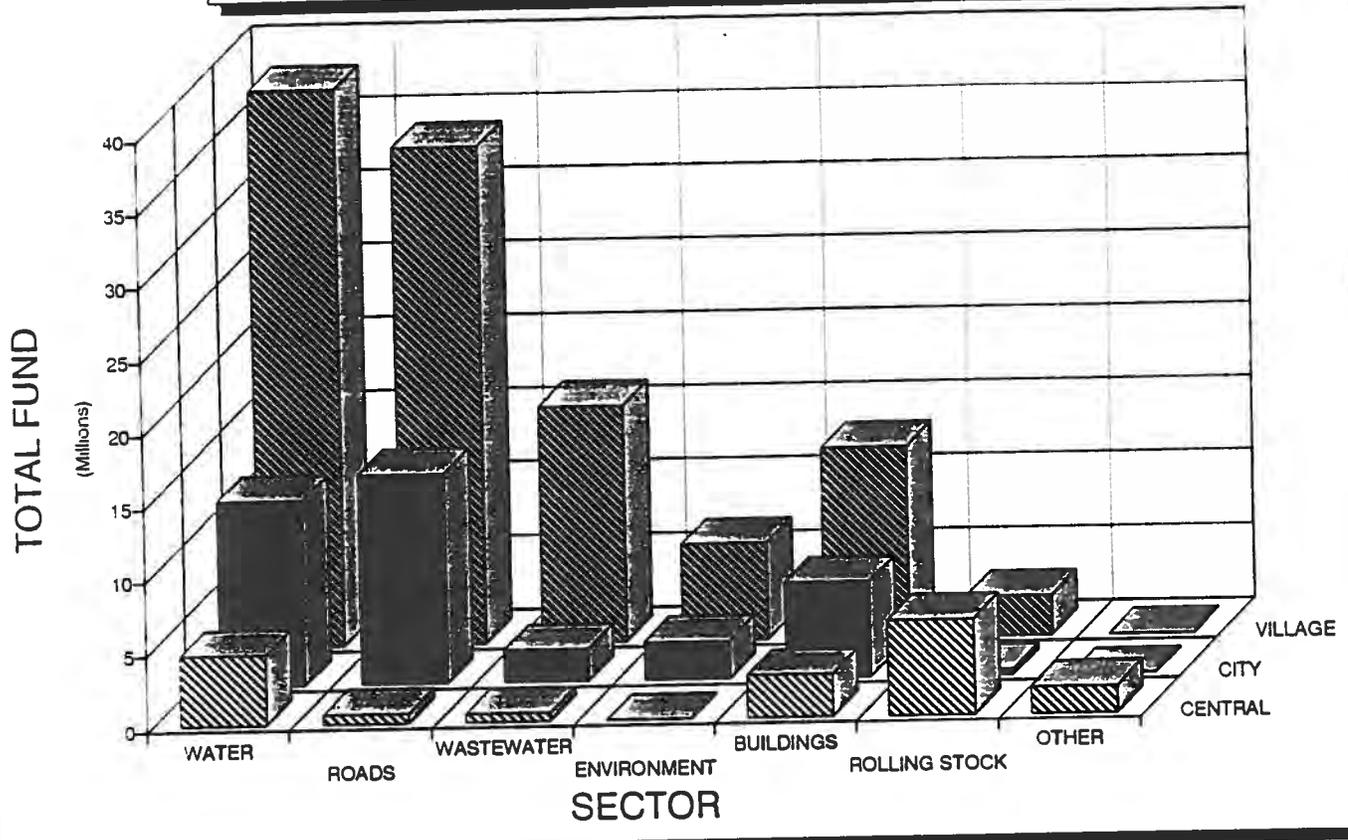
Table 5

LEVEL	CENTRAL				CITY				VILLAGE			
	# OF PROJECT	TOTAL FUND	% SECTO TOTAL	% TOTAL	# OF PROJECT	TOTAL FUND	% SECTO TOTAL	% TOTAL	# OF PROJECT	TOTAL FUND	% SECTO TOTAL	% TOTAL
WATER	38	4,669,123	9	3	124	12,516,569	23	8	773	37,698,751	69	23
ROADS	7	588,850	1	0	118	14,172,800	29	9	259	33,667,900	70	21
WASTEWATER	4	523,150	3	0	12	2,070,600	11	1	47	15,927,844	86	10
ENVIRONMENT	0	0	0	0	41	2,465,579	28	2	183	6,434,848	75	4
BUILDINGS	55	2,820,741	13	2	153	6,313,448	29	4	518	12,842,290	59	8
ROLLING STOCK	120	6,325,565	71	4	1	283,741	3	0	70	2,621,390	29	2
OTHER	18	1,715,345	100	1	0	0	0	0	0	0	0	0
TOTAL	242	16,642,774		10	449	37,822,737		24	1,850	109,193,023		68

FOURTH CYCLE LDII-P PLAN PROJECT LEVEL BY SECTOR/= OF PROJECTS



FOURTH CYCLE LDII-P PLAN PROJECT LEVEL BY SECTOR/FUND



Twenty-three percent of the total fund is allocated to projects in poor urban neighborhoods. Water and roads projects each account for a third of this funding.

Project Size

Table 6 and its accompanying graphs group the projects and their funds into classes by funding size.

The average fourth-cycle project is estimated to cost LE 64,099, although the distribution displays a rapid decline in the number of projects as one moves from the smallest size-class (under LE 25,000; 831 projects) to the largest (LE 500,000 or more; 28 projects). The average cost of the fourth-cycle project exemplifies the trend toward larger projects throughout the history of the LD II-P Project. The following table shows the average size of projects in each cycle; the figures on total number of projects and total cash funds (block grant plus cash contributions) for the first three cycles are taken from the March 1991 QPR:

Cycle	Total Cash Fund	Total No. of Projects	Average Project Size
1	LE 105,634,119	3,031	LE 34,851
2	LE 192,091,736	4,416	LE 43,499
3	LE 198,075,727	3,236	LE 61,210
4	LE 162,554,793	2,536	LE 64,099

There is substantial sectorial variation in the size distribution of projects. The following table ranks the sectors by the percentage of their total fund allocated to projects costing LE 200,000 or more and also shows the average project size within the sector.

Sector	% of Sector Fund in Projects of 200K or More	Average Project Size
Wastewater	89%	LE 293,994
Roads	45%	LE 125,470
Water	19%	LE 58,700
Environment	11%	LE 38,701
Buildings	3%	LE 30,243
Rolling Stock	2%	LE 47,089
Information	0%	LE 95,297
Total Plan	31%	LE 64,099

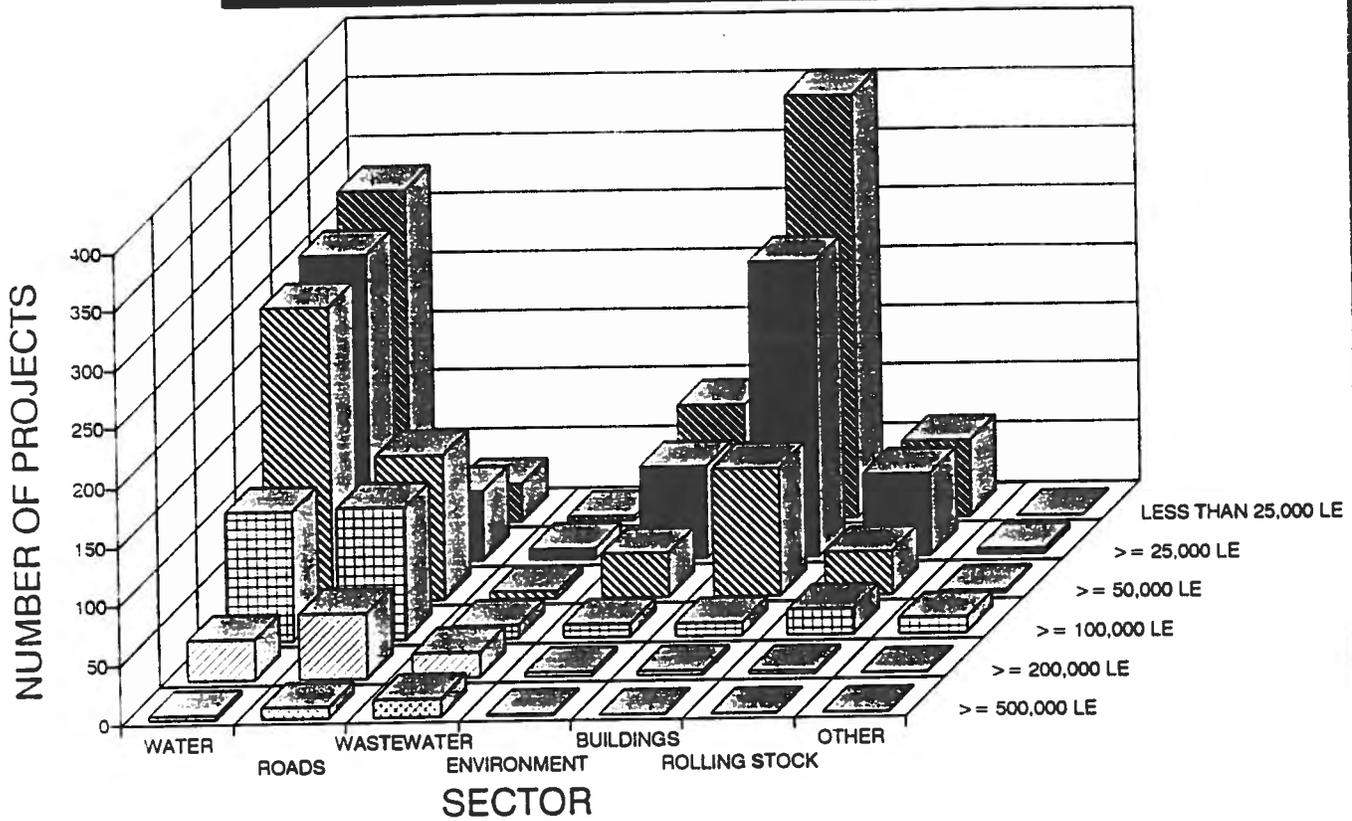
FOURTH CYCLE LDII-P PLAN

PROJECT SIZE, BY SECTOR

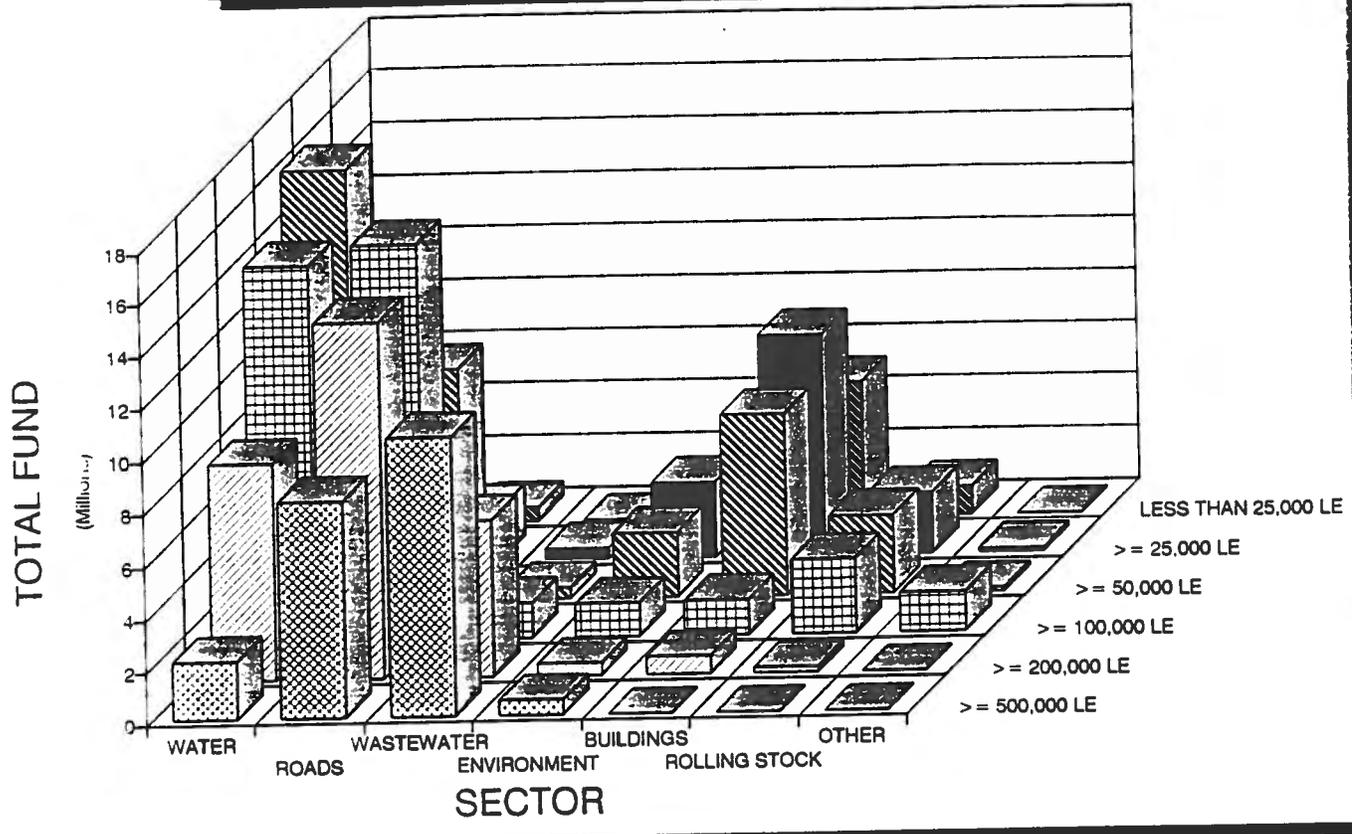
Table 6

SIZE	≥ 500,000 LE		≥ 200,000 LE		≥ 100,000 LE		≥ 50,000 LE		≥ 25,000 LE		LESS THAN 25,000 L		TOTAL FUND
	# OF PROJECT	% OF FUND	# OF PROJECT	% OF FUND									
WATER	3	4	34	15	109	26	248	30	260	17	281	7	54,884,443
ROADS	9	17	54	28	111	31	121	18	58	4	31	1	48,429,550
WASTEWATER	15	57	21	32	10	7	5	2	9	2	3	0	18,521,594
ENVIRONMENT	1	6	3	5	10	14	37	27	77	32	96	15	8,900,427
BUILDINGS	0	0	3	3	10	6	107	31	249	38	357	23	21,976,479
ROLLING STOCK	0	0	2	2	21	30	36	32	69	25	63	11	9,230,696
OTHER	0	0	0	0	12	86	2	7	4	7	0	0	1,715,345
TOTAL	28	13	117	18	283	23	556	23	726	15	831	7	163,658,534

FOURTH CYCLE LDII-P PLAN PROJECT SIZE BY SECTOR/# OF PROJECTS



FOURTH CYCLE LDII-P PLAN PROJECT SIZE BY SECTOR/FUND





Chemonics / 8 El Fawakeh Street / Mohandiseen, Cairo / Tel.: 3602545, 3482247 / Fax: 718986 / Telex: 93037

٨ شارع الفواكه / مهندسين ، القاهرة / تليفون : ٣٤٨٢٢٤٧ ، ٣٦٠٢٥٤٥ / فاكس : ٧١٨٩٨٦ / تليكس : ٩٣٠٣٧

Chemonics / 8 El Fawakeh Street / Mohandiseen, Cairo / Tel.: 3602545, 3482247 / Fax: 718986 / Telex: 93037