7. Plan Evaluation and Selection of Priority Zones and Projects

7.1 Economic Evaluation

(1) Evaluation methods and procedures

While it is commonly said that the execution of a tourism development plan has various impacts on the national and regional economies, evaluation in this survey was made on the following points with regard to the economical impacts (on the national economy) of the long-term tourism development projects classified by zones.

- Income in foreign currency
- Increase in opportunities of employment
- Increase in governmental revenue

Furthermore, to investigate the effect of investment in the long-term tourism development plan for each zone from the economical viewpoint, analysis of costs and benefits was performed.

(2) Tourism Revenue

1) Tourist Expenditure

Average of tourist expenditure per night in year 2010 classified by foreign tourists and domestic tourists visiting each zone was forecast in consideration of tourism expenditure per night in the past, and tour patterns as described below. (Tab.7.1)

Tab. 7.1 Te	ourist Exper	aditure per	Night	in 2010 -
-------------	--------------	-------------	-------	-----------

Items	Foreign	Domestic
Accommodations	50	15
Food	25	10
Shopping	30	5
Transportation	20	. 5
Others	20	10
Total (BI/.)	145	45

2) Incremental Tourist Demand

Incremental tourist demand is the differences between the target figure established as the future tourist demand target in the previous section and future opportunity tourist demand in the ease of "without project". (Fig. 7.1)

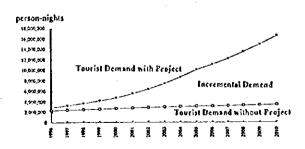


Fig. 7.1 Incremental Tourist Demand (Foreign and Domestic)

3) Tourism Revenue

The total revenues generated from foreign tourists and domestic tourists including the receipts from domestic daytime tourists are estimated to amount to 2,007 million Balboas of which the revenue from foreign tourists will amount to 78 % of the total revenues.

Tab. 7.2 Total Tourist Revenue by Zone in 2010

		Unit: BI/, 1,000
Zones	Total	Incremental
	revenue	revenue
Bastimentos	102,316	95,109
Arco Seco	91,108	73,57L
Farallón	342,094	302,208
Metropolitana	802,082	549,654
Portobelo	173,477	160,238
Las Perlas	208,366	189,917
Others	287,584	226,963
Total	2,007,027	1,597,660

Almost 30 % of the total incremental revenue comes from accommodation expenditure and the share of food, shopping and transportation expenditure is 20 %, 20 % and 12 % of the total respectively.

Tab. 7.3 In	eremental	Revenue	by	Ex	penditure
-------------	-----------	---------	----	----	-----------

Item	Unit: BI/. 1,000	
Items	Revenue	Share
Accommodations	471,699	30%
Food	314,514	20%
Shopping	312,182	20%
Transportation	199,752	13%
Others	299,514	17%
Total	1,597,660	100%

(2) Tourism Impact

1) Foreign Exchange Earnings

The foreign exchange earnings (FEE) of tourism are estimated to increase with an average growth rate of 15.0 % p.a. and 13.1 % p.a. during the periods from year 1992 to year 2000 and from year 2000 to year 2010 respectively. Its share of the country's GDP will increase from 2.5 % in 1992 to 10.8 % in 2010.

Tab. 7.4 G	DP and	Tourism	Receipts
------------	--------	---------	----------

ruor nu oper and round			
Items	1992	~2000	~2010
GDP: 1992 price (mil.Bl.)	6,001	9,782	14,480
Average growth rate p.a.		6.3%	4.0%
FEE: Price (million Bl.)	150	458	1,563
Average growth rate p.a.		15.0%	13.1%
Share of GDP	2.5%	4.7%	10.8%

2) Increase of Employment Opportunities

The new employment which will be created by the implementation of the Long Term Tourism Development Plan is calculated by Tourism Zone as shown in the Tab.7.5. In 2010, 145,00 positions will be generated by implementation of the Plan.

101 2020			
Zones	Direct	Indirect	Total
Bastimentos	3,053	7,634	10,687
Arco Seco	1,546	3,866	5,412
Farallón	8,239	20,597	28,836
Metropolitana	11,848	29,620	41,468
Portobelo	5,339	13,346	18,685
Las Perlas	5,768	14,419	20,187
Others	5,789	14,474	20,263
Total (Persons)	41,582	103,956	145,538

Tab.7.5 Incremental Employment Opportunities

Source: JICA Study

3) Increase of Government Revenues

Government receives revenues in the form of income taxes on tourism enterprises and persons working in the tourism sector, property tax on tourism facilities, import duty on goods and services in the tourism sector. IPAT, as well as the central government, derives income from several sources of tourism activities as tourist taxes. IPAT's income from accommodation charges (Accommodation Rate) is estimated at 52,328 thousand Balboas in 2010.

(4) Cost-Benefit Analysis

1) Estimation of benefits

The economic benefits obtained from the execution of the long-term tourism development plan for each zone was obtained by replacing the increment in the income from tourism business with the increment in the GDP. For the replacement, the conversion factor was set to 0.6 by referring to the factors used in the IPAT/OBA report, etc. Indirect benefits were estimated to be 50% of the direct benefits.

2) Estimation of cost

The total investment amount of the project (economical price) excluding those transfer items, such as taxes, import taxes, and subsidies from the government, was estimated to be 2,667 million Balboa.

3) Results of analysis

Duration of the Cost - Benefit Analysis was set from year 1996 to year 2030 in consideration of long term tourism development characteristics.

It was assumed that the benefit increase up to year 2010, and after year 2010, the benefit was same as year 2010. Even investment cost, it increases up to year 2010. The costs after year 2010 were operation fee and maintenance fee. In year 2030, land cost as a balance value subtracts from the cost. (Fig. 7.2)

The total effect of investments in the long-term tourism development plans for six zones was estimated to have an EIRR of 24% and a net current value (with a discount rate of 12%), of 1,261 million Balboa, so it has been found that the plan is feasible from the economical viewpoint.

As the result of evaluation of each zone, a high EIRR exceeding 20% was obtained in each zone excepting the Bastimentos zone. The development project in the Bastimentos zone yields an EIRR of 11.8%, which indicates that investment should be made in the long term.

(5) Results of evaluation

Results of analyses of the impacts of the execution of the long-term tourism development plan on the national economy and of the analysis of costs and benefits are as shown in Tab 7.6, so it can be judged that the execution of this project is justified from the economical viewpoint.

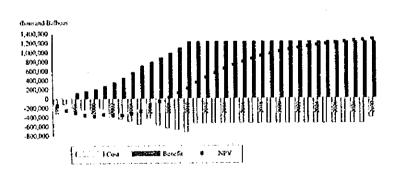
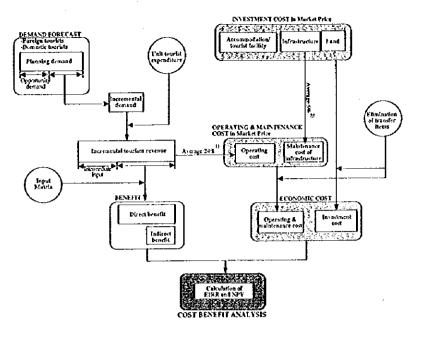


Fig. 7.2 Plan Evaluation: 6-zones Total



Note: 1) 24 % : refer to Table 7.8 in Section 7.4.2 (3) of Phase 6, Main Text 2) 5 % : refer to Section 7.4.2 (3) at Phase 6, Main Text

Fig.7.3 Procedure of Cost Benefit Analysis

Zone	Total Economic	EIRR	NPV	Generated direct	Investment cost /	Economic effi-
	investment cost		(12%)	employment	Employment	ciency of invest-
	(BI.1,000)		(Bl.1,000)	(person)	(Bl.)	ment
Bastimentos	321,475	11.8%	-1,956	3,053	120,842	XX
Arco Seco	153,165	20.3%	53,984	1,546	110,942	XX
Farallón	547,071	24.3%	255,095	8,239	73,418	XXX
Metropolitana	1,015,464	25.2%	619,001	11,848	85,204	XXX
Portobelo	281,899	24.5%	142,999	5,339	59,243	XXX
Las Perlas	348,091	28.3%	192,263	5,768	67,684	XXX
Total	2,667,165	23.9%	1,261,386	35,793	79,947	XXX

XX: XXX: Economic efficiency of investment is moderate Economic efficiency of investment is high

7.2 Environmental Analysis

Objectives

- To identify environmental impacts in accordance with the implementation plans.
- To fulfill the development, environmental considerations are made in order to avoid or mitigate these impacts.

Method

- Project contents are described and present conditions of the environment including social environment, natural environment and pollution are analyzed.
- In association with environmental impact potential, environmental considerations are formulated for further study.



Farallón Zone (Coast Erosion)

Las Perlas Zone (Wide range tide system:7m)

Zones	Negative Impact Potentials	Environmental Considerations
)Bastimentos		•Submission of plans in accordance with loca
Zone	rials used for construction.	ordinance on beach sand mining.
		• Areas considered for development should have
	habitats.	zoning plans to account for natural geographic and socioeconomic conditions.
	 Endangered and indigenous species affected. (Manatec, Dwarf Armadillo, Nose bat, Giant Tylomys, Night Autos, White wing vampire, Jaguar) 	
	 Sea Turtles (4 of 8 sea turtle species) nesting affected. 	 Beach monitoring for turtle protection coupled with beach zoning and development guidelines to preserve the natural beach environment from the primary dune seaward.
	 Native Indian (Ngobe) culture affected. 	 Areas considered for development should have zoning plans to account for their culture.
2)Arco Seco Zone	 Water pollution from inappropriate sewage or solid waste disposal. 	 Allowance made for use of existing regional disposal system or construction of on-site sew- erage treatment plant.
	 Destruction of remaining wetland, forests, other unique natural habitats (mouth of the rivers, valleys, Coastal area, Isla Iguana). 	 Areas considered for development should have zoning plans to account for natural conditions.
3)Farallón Zone	 Eutrophication in Chame Bay by untreated direct discharge water 	 construction of on-site sewerage treatmen plant.
		 Submission of plans in accordance with loca
	for construction.	ordinance on beach sand mining.
	• Sea Turtles (2 species) nesting affected.	 Beach monitoring for turtle protection coupled with beach zoning and development guidelines to preserve the natural beach environment from the primary dune seaward.
4)Metropolitana Zone	direct discharge water. (Rivers, Panama bay nearby Panama City)	 construction of on-site sewerage treatmen plant.
	 Destruction of wetland, forests, other unique habitats. Adjacent area of designated area and other valuable area) 	 Zoning plans and development guidelines to preserve the natural environment should be made
5)Portobelo Zone	 Water pollution from inappropriate sewage or solid waste disposal. 	 Construction of on-site sewerage treatmen plant.
	• Sea Turtles nesting affected.	 Beach monitoring for turtle protection coupled with beach zoning and development guideline to preserve the natural beach environment from the primary dune seaward.
	affected	 Areas considered for development should have zoning plans to account for their culture and historical structure.
6)Las Perlas Zone	used for construction.	• Submission of plans in accordance with local ordinance on beach sand mining.
	• Destruction of wetland, forests, other unique habitats.	 Zoning plans and development guidelines to preserve the natural environment should be made.
	 Afro-colonials culture affected 	• Areas considered for development should have zoning plans to account for their culture.
	 Water pollution from inappropriate sewage or solid waste disposal. 	•Construction of on-site sewerage treatmen plant.

Tab. 9.1 Summary of Environmental Analysis

7.3 Selection of Priority Zones and Priority Projects

(1) Selection of Priority Zones

Priority zones have been selected on a reversed "Z" shaped development axis, which includes the metropolitana area to increase the number of tourists within a short term. As short-and medium-term development scenarios, those zones neighboring the metropolitana namely Farallón and Portobelo should be developed to draw tourists to adjacent areas from the metropolitana area.

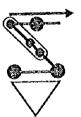
Further, while based on these development scenarios, an overall judgment was made considering the development potential of the zone (importance as a tourism spot, development opportunities, ease of access, environmental capacity, development feasibility of the main tourism spots in each zone, and so on.) As shown in the evaluation of each tourism development zone in the previous section, the Economic Internal Rate of Return(EIRR) of each of these three zones exceed the average value of 23.9%.

(2) Selection of Priority Project

Metropolitana, Farallón and Portobelo were selected as priority zones, and accordingly priority projects should be selected based on the following criteria:

- Project(s) from priority zone
- Development frame considerations
- Optimum development scale
- Projects triggering tourism development
- Effects on regional development
- Land priority

All Projects are connected in the form of a reverse letter 'Z'.



(3) Character of Each Project

Development characteristics of the 6 selected projects are as follows:

- New tourist accommodation oriented development projects, such as Chame, Panama Canal and resort complex of Portobelo.
- Reorganization and reutilization of present tourism resources both natural and cultural, such as flower and green beautification of Panama City and historical township project of Portobelo.
- Development of tourist transportation network projects of Caribbean Costa Arriba road and maritime triangle of Gulf of Panama.

ment H	orm
form	Projects
2	I. Chame Resort Development Plan (Farallón zone)
2	2. Panama Canal Tourism Devel- opment Plan (Metropolitana zone)
	3. Flower and Green City Plan (Metropolitana zone)
<u>Z</u> .	4. Portobelo Tourism Develop- ment Plan (Portobelo zone)
	5. Caribbean Coast Arriba Road Development Plan (Portobelo zone)
\bigtriangledown	6. Maritime Triangle Develop- ment Plan (Metropolitana, Farallón, Las Perlas zones)

Tab.7.8 Selected Priority Projects and Development Form

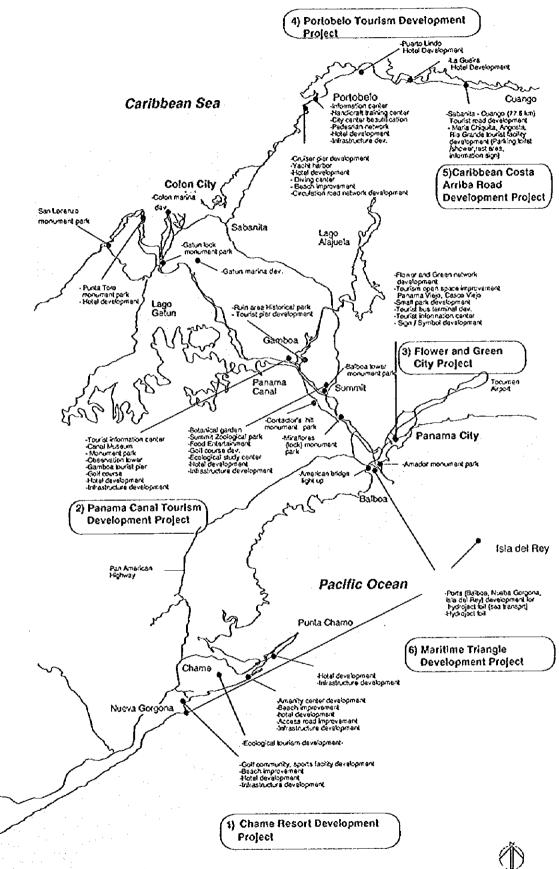


Fig. 7.4 Selected Priority Projects

8. Tourism Promotion Plan and Institutional System and Organization

8.1 Tourism Promotion Plan

(1) Overview of Panamanian Promotion Plan

Because of the Economic recession, the Panamanian government could not afford to make investment for adequate infrastructure for a decade, until 1993. (A specific tourism Promotion Plan has been lacking.) Therefore the Panamanian Tourism Industry has been lagging behind other Caribbean countries. Targeting toward the 2010 Tourism Development Plan, the Promotion strategies proposed are as follows.

- Promotion of Tourism Market
- Maintaining of the quality of Panamanian Tourism.
- Investment Promotion
- Development of IPAT Tourism Information Systems

(2) Promotion Strategy

1) Selecting Target Countries and Establishing IPAT Overseas Offices

The target number of foreign tourist in 2010 is 2 million. According to the existing tourism statistics and the directions of tourism development, the target is to attract vacationers from developed countries and business and shopping travelers from Central and South America and the Caribbean. Selected countries and establishment of IPAT Overseas offices are proposed as follows:

Tab. 8	1 Pro	posed 1	PAT 0	Overseas	Offices
--------	-------	---------	-------	----------	---------

	Target courntries	Overseas Offices	Establishment
lst target	1)North America	New York	1996
	2)C/S America and the Caribbean	Bogota	1997
2nd target	Europe	Frankfurt	1998
target 3rd target	East Asia	(Diplomatic offices)	

2) International Tourism Promotion Campaign

Though Panama is famous for its Panama Canal, Panamanian tourism in the international market is of little note. Also, tourism occupies a low position in the Panamanian economy. It is recommended that Panama holds nation-wide promotional campaigns both domestically and abroad. For example, Panama might consider the following possibilities.

Year 2000: Jan.-Mar.(3 months) Year 2005: Dec.2005 - Mar.2006 (4 months) Year 2010: Dec.2010 - Apr.2011 (5 months)

year	type	North		C/S	Europe
·		America		America	
	By Regular	USA	90	80	25
		Canada	20		
2000	By Charter	USA	25	-	-
		Canada	10		
	Total	350	145	80	25
	By Regelar	USA	180	300	45
	· · ·	Canada	40		
2005	By Charter	USA	80	- 1	75
	l	Canada	30	1	
	Total	750	330	300	120
	By Regular	USA	200	330	- 80
2010	· · ·	Canada	60		
	By Charter	USA	150	-	130
		Canada	50		_ <u></u> .
	Total	1,000	460	330	210

To implement the campaigns, for instance, these kinds of activities should be carried out:

- Establishment of an executive committee-Support of the expense of tour operators
- Involvement of airlines and hotels
- Model tours including newly developed areas
- Advertisement in travel trade publications
- Dispatching caravans to target countries and holding of seminars

3) Cooperation with major travel agencies

To achieve the targets, IPAT and travel agencies should cooperate with operators in each country and ask them to set up tours to Panama. Also, they are potential investors for major hotel and other facilities.

Major travel agencies in target countries are shown below.

- America: AMEX, Carlson, Thomas Cook, Woodside, Travel, TUI, NUR, LTU, ITS
- England: Thomson. Owners Abroad, Air Tours, Cosmos and Best travel
- France: Club Med., Novelles, Frontieres, MVM, etc.

(3) Maintaining the Quality of Panamanian Tourism and Security

Tourism is surely a peacetime industry, Many countries have been experiencing a decrease in inflows of tourists because of disorders. Security in Panama seems to have been improved by the tourist police. Equally, the quality of Panamanian tourism facilities is the key for continued success in tourism industry and will enable IPAT to entice potential tourists to visit Panama. Therefore, IPAT must fully cooperate with related organizations for the purpose of maintaining and improving the quality of tourism products. Especially the following are key factors:

-Security at tourist sites

-Education of employees

-Enlightenment of the people

(4) Investment Promotion

An incentive law had been enacted since 1994 to encourage private investment, but scarcely seemed effective. Promotion of investment by the private sector must be implemented as national policy. IPAT must supply preliminary information for investors by holding investment seminars in target countries in cooperation with its overseas offices and Panamanian diplomatic offices. The target countries are :America, Canada, Mexico, Spain, Germany, France, England, Italy, Japan, Korea, Hong Kong.

(5) Development of IPAT Tourism Information Systems

It is essential that tourists and investors be provided with information to facilitate a pleasant stay and to encourage effective investment. This information must be centralized and maintained appropriately. Therefore, Establishment of IPAT tourism information system is indispensable for tourism promotion. A concept for this is shown below. (Fig. 8.1)

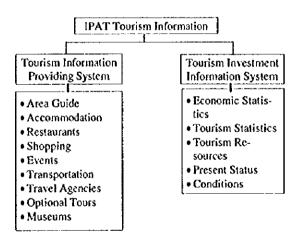


Fig. 8.1 Structure of Tourism Information System

8.2 Institutional Development Plan

(1) Basic Proposal

In order for the Panamanian government to spur the promotion and development of tourism as a national policy, it is important to give priority to tourism in state economic development planning and to devise and implement feasible measures to bring these projects to realization. Based on this recognition, the following proposals should be implemented: Preparation of Tourism Law, and organizational development plan.

(2) Preparation of Law

1) Enactment of a Tourism Law

To specify the direction of tourism development policy and provide an administrative organ to execute its function, the preparation of a Tourism Law should be implemented.

2) Enactment of Tourism Development Promotion Law

The general functions of Tourism Development Promotion Law are; designation of development districts, granting of preferential rights to use government-owned land, establishing a Development Authority, Tourism Development Corporation (TDC). (Fig. 8.2)

(3) Organizational Development Plan

Tourism development promotion is linked with many sectors, including education, labor, infrastructure development, environment, and local government and governmental administrative bodies which oversee each of these areas. Therefore, there should be the administrative body which organize related administrative bodies and reinforcement of whole administrative institution. This organizational development plan must include the following proposals:

- Elevation of IPAT*s Director General to ministerial level
- Establishment of a Tourism Development Corporation which is owned by the government and private sector to control development, recouping of investment, and repayment of loans.

Proposed Organization

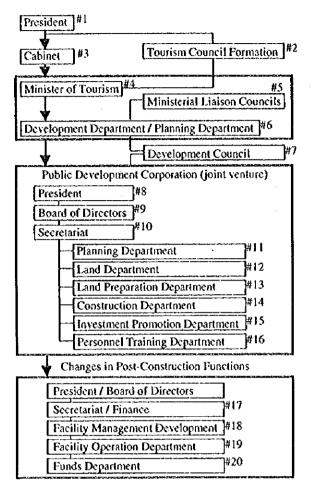


Fig.8.2 Proposed Organization Structure and Functions

Proposed Function

#1 Policy decision

#2 Public/private sector consensus on development

#3 Public policy coordination

#4 Development Planning

#5 Master Plan and Development Plan coordination

#6 Public development policy making and measures, development Section Planning, Management and oversight of the Development Authority and investment promotion #7 Consensus formation between the Government and development district residents

(construction)

#8 Determination of development implementation planning

#9 Coronation of development implementation planning #10 Administration of the Development Authority's personnel, finances, accounting and documentation

#11 Implementation planning

#12 Land acquisition and management

#13 Land preparation design and construction#14 Design and construction of public facilities and rental buildings

#15 Promotion of individual investments in hotels and other facilities

#16 Training of basic technical personnel(needed by hotels, etc.) and coordination with the construction schedule (Investment recouping and repayment)

#17 Recovery, repayment, and management of invested capital. Administration of the Development Authority#18 Maintenance and management of land, buildings, and public facilities

#19 Operation and management of facilities #20 Levying of rents and tenant fees, etc., on land and buildings.

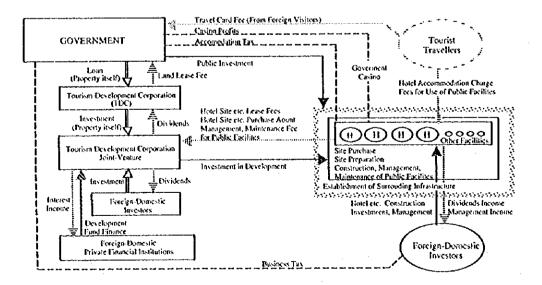


Fig.8.3 Flow of Development Funds and Collection of Funds

9. Conclusion and Recommendation of Long Term Tourism Development Plan

The long term development plan for tourism targets two million of foreign visitors visit to Panama annually by the year 2010 and 1.5 million domestic tourist by the year 2010. To fulfill the target six long term development plans were formulated and feasibility studies on priority projects were carried out.

The key point towards achievement of the target is to implement development plans. Realizing these development plans can only be achieved with the concerted efforts of the Panananian government, such as cost sharing of investment in infrastructure and tourism facilities, legal system improvement to support the tourism development strategy, tax privileges for private investment in tourism facilities, etc.

Moreover, in order to achieve the target, an improvement of safety and security conditions for tourists in Panama, and increased promotion in principal markets (USA and Europe) are suggested.

Therefore, it is recommended that following items are proposed for realization of the long term tourism development plans.

(1) Improvement of Legal System and Organization

Especially the following three items are very important for achieving tourism development in Panama.

- Enactment of comprehensive tourism development policies and laws.
- Promoting IPAT to ministry level
- Establishment of institutional system and organization for tourism development.
- (2) Commencement of the Projects Implementation

1) Establishment of Tourism Development Corporation (TDC)

In order to implement the comprehensive tourism development plan, it is necessary to have land for projects and infrastructure, and to establish a development entity which is responsible for construction of major facilities, leasing and selling the land or facilities, and moreover, for encouragement of private investment and tourist promotion to Panama.

2) Procurement of Investment Funds

Foreign funds especially lower interest funds are essential for encouragement of project implementation by the government, TDC and private sectors.

3) Procurement of Lands for the Development

It was occurred often that large scale of government lands for development were subdivided into small lots and transferred to private sector when large scale tourism projects were planed. Therefore it is recom mended that the government should procure lands for development (in advance) in order to smooth implementation of at early stage the project.

(2) Execution of Feasibility Studies for Priority Projects

The importance of tourism development is high in Farallón, Metropolitana, and Portbelo selected as priority zones, which configure a reversed "Z" shaped zone, and early execution of the selected priority projects, which have a strategic importance in promoting tourism development in this area is proposed. Therefore, feasibility studies for these priority projects should be executed as the next step following this study.

III. Project Feasibility Study

1. Project Formation, Cost and Evaluation

Feasibility study for 6 priority projects selected in the long term tourism development plan stage were carried out. The results of the study are described as follows:

1.1 Chame Resort Development Plan

Create a Coastal Resort Festooning face to the Pacific Ocean.

Objectives and means

- To establish a coastal resort with 3,000 hotel rooms located immediately outside Panama City area to diversity tourist destinations.
- To provide adequate infrastructure services for tourists in terms of quality and quantity.
- To develop the resort area by improvement of Pan American Highway, establishment of a new sea link, and air transport services at Rio Hato.

Tourist types		Short	Medium	Long
Overnight	Foreign	171	600	1,380
stay	Domestic	48	169	409
	Total	219	769	1,789
	Foreign	155	262	313
Day visit	Domestic	200	364	814
	Total	355	626	1.127

Note:Overnight visitors are total staying overnight

Tab. 1.2 Project Profile of Chame Resort Development Plan

Develo	pment	Project package	Development schedule	Dev't bo	хdy
components			969798990001020304050607080910	Gov TDC	Priv
		Accommodation development(M: 330rm, 25ha)		0	0
	West	Golf Community development(104ha.)		0	0
	Coast	Sports Facility development (36ha.)		•	0
	Area	Beach improvement(1km.)		٥	
Coastal	Central	Accommodation development (H:600, M:.1,450rm, 230ha).		0	
hotel	Coast	Amenity Center development(60ha.)		•	0
resort	Area	Sports Facility development(83ha.)	(0
complex		Beach improvement(7km.)		•	
projects	Eest	Accommodation development(M:160, E:100rm,127ha.)		0	0
	Coast Area	Eco-tourism development, walking path 12km.		•	
Cerro Cha project		Eco - tourism development, walking path 12km.		• 0	
		Access road (Chame - Amenity Center, 13km.)		•	
		Access read (Colonicito - Nueva Gorgona, 5.8km.)		•	
Read pro	ojects	Access road (Nueva Gorgona - Port Gorgona, 1.2km.).		•	
		Main corridor(Nueva Gorgona - Punta Chame 5.8km.)		•	
		Feeder roads (Main corridor - Beaches, total :2.7km.)		0	

Note: H=high class, M=middle class, E=economy class.

•:Leading sector O:Supporting sector

Tab.1.3 Financia	al De	velor	mei	if Cos	st	(BL 1,	000}
	-				· · ·		-

Components	Land	Foreign	Local	Total
Accommodation	3,820	150,658	52,707	207,185
Marine transport		304	196	500
Land transport	200	8,987	6,672	15,859
Tourist facilities	2,872	15,792	7,942	26,606
Public utilities	23	19,993	14,464	34,480
Total	6,915	195,734	81,981	284,630

Tab. 1.4 Investment Cost by Sectors (B/. 1,000)

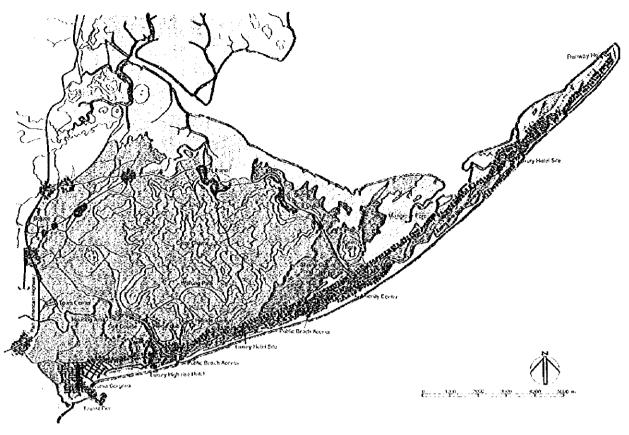
Sectors	Short	Medium	Long	Total
Land	6,915			6,915
Government	668	6,125	8,866	15,659
TDC	10,917	29,915	10,733	51,565
Private	29,091	83,110	98,290	210,491
Total	47,591	119,150	117,889	284,630

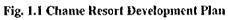
Tab.1.5 Economic Evaluation (%, persons)

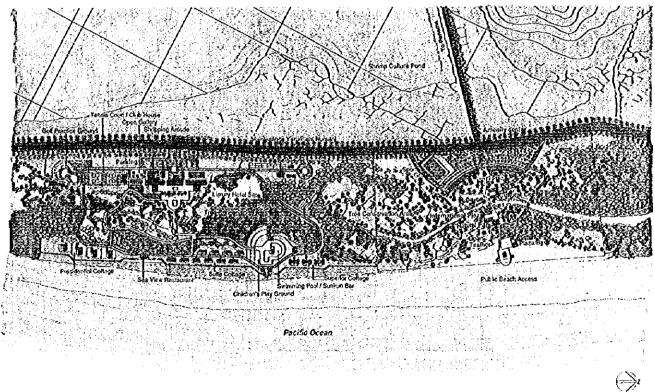
Items	
Economic Internal Rate of Return (EIR	R) 19.0%
Generated Employment: Direct	4,620
Indirect	11,550

Tab.1.6 Financial Evaluation of TDC (B1. 1,000, %)

Items	
Total investment cost	58,483
Investment fund: Capital	23,820
Long-term loan	20,170
Financial Internal Rate of Return (FIRR)	19.6%







8 100 300 500

Fig. 1.2 Development Plan of Central Chame Area

1.2 Panama Canal Tourism Development Plan

Create a Canal Tourism Corridor Between Two Oceans

Objectives and Means

- To identity the needs of tourism in the Panama Canal area and to develop tourism facilities accordingly.
- To develop a new tourism base at the central part of the Canal zone with its own identity for supplementing the existing Gatun lake and Rio Chagres.
- To develop the Summit Area as a nature oriented tourism base for the Soberania National Park.
- To develop Punta Toro for business tourism, linked to the Caribbean Sea gateway of Colón.
- To create continuity of tourist attraction places through development of 10 outdoor museums.

Tab.1.7 Target Number of Visitors (1,000 persons)

Tourist types		Short	Medium	Laong
Overnight stay	Foreign	199	715	860
	Domestic	8	111	221
	Total	207	826	1,081
	Foreign	397	536	943
Day visit	Domestic	466	1,031	2,062
	Total	863	1,567	3,005

Note: Overnight visitors are total staying overnight.

Tab. 1.8 Project Profile of Panama Canal Tourism Development Plan

opment		Development schedule		r't bo	
onents	Project package	969798990001020304050607080910	Gəv.	1DC	Priv
	Accommodation development (II:420, M:230rm, 58ha.)			0	•
Gamboa	Tourist Center development (2.2ha.)			•	
Area	#6: Panama Canal Tower development (4.5ha.)			0	•
	#7: Panama Canal Museum (00ha.)	C	0	٠	
	Access road and bridge development (2.5km.)		0		
	Accommodation development (M:130rm, 27.2ha.)			0	٠
Summit	Zoological Park redevelopment (30ha.)		0	•	
Area	Botanical Garden redevelopment (30ha.)		0	٠	
	Ecological Study Center development (20.8ha.)		•	0	
Punta	Accomodation development (H:150, M:380rm, 37ha.)			0	•
Toro	Beach improvement (1km.)		l	•	
Area	#9: Carribean Sea Garden, Punta Toro Monument (1ha.)		۲	<u> </u>	
	#1: Amador Sea Garden (Iha.)		•	0	
anal	#2: American Bridge with illumination (2km.)		•	0	
ietwork	#3: Miraflores Locks Park (1ha.)		0	0	
	#4: Contractor's Hill Park (Iha.)		θ	0	
	#5: Ruina Water Garden (2ha.)		•	0	
s: #No.)	#8: Gatun Locks and Gatun Dam Park (Iha.)		•	0	
-	#10: San Lorenso Archeological Park (1ha.)		•	0	
	Gamboa Area Summit Area Punta Toro Area anal etwork	Project package Accommodation development (II:420, M:230rm, 58ha.) Gamboa Tourist Center development (2.2ha.) Area #6: Panama Canal Tower development (4.5ha.) #7: Panama Canal Museum (00ha.) Access road and bridge development (2.5km.) Access road and bridge development (2.5km.) Accommodation development (M:130rm, 27.2ha.) Summit Zoological Park redevelopment (30ha.) Area Botanical Garden redevelopment (30ha.) Ecological Study Center development (20.8ha.) Punta Accomodation development (H:150, M:380rm, 37ha.) Toro Beach improvement (1km.) Area #9: Carribean Sca Garden, Punta Toro Monument (1ha.) #1: Amador Sea Garden (1ha.) #1: Amedor Sea Garden (1ha.) #1: Contractor's Hill Park (1ha.) #4: Contractor's Hill Park (1ha.) #5: Ruina Water Garden (2ha.) #5: Ruina Water Garden (2ha.) #5: Ruina Water Garden (2ha.) #5	Project package Project package Accommodation development (II:420, M:230rm, 58ha.)	Project package 96/97/98/99/06/10/203/06/02/03/06/07/08/09/10 Cov Accommodation development (II:420, M:230rm, 58ha.) [Project package 96 97 98 99 0001 02 08 04 05 06 07 08 09 10 Gev TOC Accommodation development (II:420, M:230rm, 58ha.) 0 Gamboa Tourist Center development (2.2ha.) 0 Area #6: Panama Canal Tower development (4.5ha.) 0 #7: Panama Canal Museum (00ha.) 0 0 Access road and bridge development (2.5km.) 0 Accommodation development (M:130rm, 27.2ha.) 0 Summit Zoological Park redevelopment (30ha.) 0 Area Botanical Garden redevelopment (30ha.) 0 Area Botanical Garden redevelopment (20.8ha.) 0 Punta Accomodation development (H:150, M:380rm, 37ha.) 0 Toro Beach improvement (Ikm.) 0 Area #9: Carribean Sea Garden, Punta Toro Monument (Iha.) 0 #1: Amador Sea Garden (1ha.) 0 0 #1: Amador Sea Garden (1ha.) 0 0 #1: Amador Sea Garden (1ha.) 0 0 #2: American Bridge with illumination (2km.) 0 0 #3: Miraflores Locks Park (1ha.) 0 0 #4: Contractor's Hill Park (1ha.) 0 0

Note: H=high class, M=middle class, E-economy class.

Tab.1.9 Financial	Develop	ment Cos	t (Bl	. 1,000)
Components	Land	Foreign	Local	Total
Accommodation	61,874	80,051	22,500	164,425
Marine transport		547	353	900]
Land transport		2,080	1,187	3,267
Gamboa area	4,910	21,606	8,468	34,984
Summit area	6,275	12,266	5,463	24,004
Punta Toro area	200	1,341	1,170	2,711
10 monument parks		6,886	2,648	9,534
Total	73,259	124,777	41,789	239,825

Tab.1.10 Investment Cost by Sectors (BI. 1,000)

Sectors	Short	Medium	Long	Total
Land	73,259		•	73,259
Government	1,960		1,307	3,267
TDC	32,328	14,482	6,538	53,348
Private	27,722	65,890	16,339	109,951
Total	135,269	80,372	24,184	239,825

●:Leading sector O:Supporting sector

Tab.1.11 Economic Evaluation (%, persons)

Items	
Economic Internal Rate of I	Return (EIRR) 16.6%
Generated employment: E	irect 2,649
l i	direct 6,623

Tab.1.12 Financial Evaluation of TDC

(8	1. 1,000, %)
Items	
Total investment cost	126,607
Investment fund: Capital	53,528
Long-term loan	22,670
Finnacial Internal Rate of Return (FIRR)	12.9%

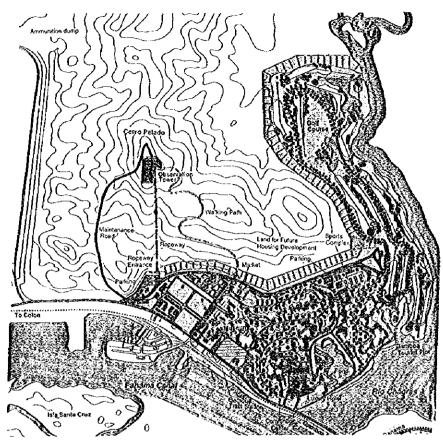


Fig.1.3 Panama Canal Tourism Development Plan: Gamboa Area

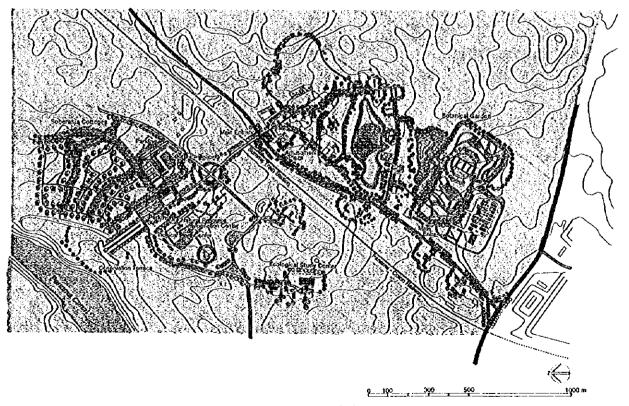


Fig.1.4 Panama Canal Tourism Development Plan: Summit Area

1.3 Flower and Green City Development Plan

Create a Flora Garland in the Tropical Modern City

Objectives and Means

- To create the characteristic urban environment of Panama City
- To maximize the potential of urban amenity in Panama City
- To promote beautification program in cooperation with people who live in the city
- To facilitate visual communication for tourists through signs and symbols

Tab.1.13 Target Number of Visitors		(1,000 personas)		
Tourist	types	Short	Medium	Long
	Foreign	171	600	1,380
Overnight stay	Domestic	48	169	409
	Total	219	769	1,789
Day visit	Foreigh	155	262	313
	Domestic	200	364	814
	Total	355	626	1,127

Tab.1.14 Project Profile of Flower and Green City Plan

Dev't body Development Development schedule 969798999000102030405060708091 iov TDC Priv components Project package . Landscaping of roads Main gateways (16.5km.) and streets (20 routes. Principal sightseeing routes (17.6km.) ø . Towerscape total length 70km.) Sightseeing routes in Canal Zone 35.9km.) 8 beautification Landscaping of focal Caledonia area (7.6km, 3.9ha.) e projects tourist areas Bella Vista north area (2.1km, 2.3ha.) Bella Vista south area (0.4km) • 6 Fourist open space Casco viejo area (1,500m²) • Panama Viejo area (2,400m²) improvement Г . Tourist guidemap boards (50 spots) Г ٦ Introduction of a tourist sign ٠ Tourist sign boards (50 spots) ٦ 5 • Projects for information system Mozaic tiles pavement (50 spots) ø San Felipe area (200m²) upgrading **Tourist Information** 0 tourist services Centers development Bella Vista area (200m²) 8 Tourist Bus Center Bus center building development Inter-city bus station

Eeading sector

Tab.1.15 Financial Development Cost (Bl. 1,000)

Componentes	Land	Foreing	Local	Total
Road landscaping		8,735	9,224	17,959
Areal landscaping		4,466	4,185	. 8,651
Tourist open space		369	269	638
Sign information		260	230	490
Information centers	••	789	342	1,131
Tourist bus center	•-	1,778	1,848	3,626
Total		16,397	16,098	32,495

Project Evaluation

– Gateway City Panama

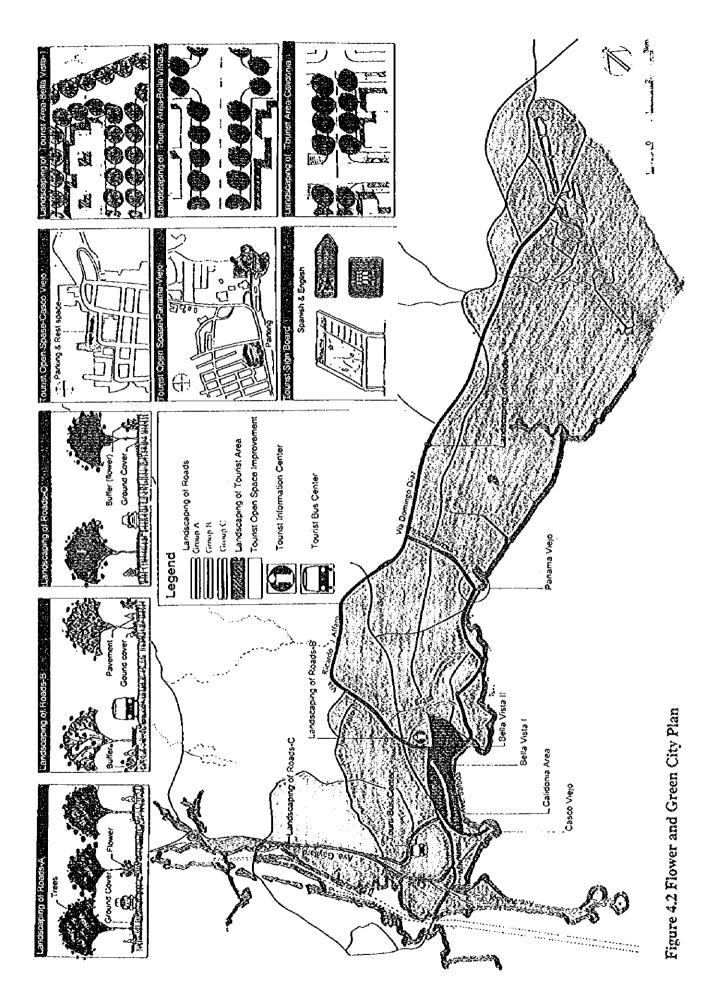
Panama city is a gateway not only to the metropolitana area but to the whole of Panama. 1.2 million tourists are forecast to pass through Tocumen airport in 2010. As the first imporession gained from the trip from the airport to the city center will have a high effect in the total evaluation of the country, this project is considered very important from the viewpoint of tourism promotion.

Formation of a Tourism City by Particiation of Citizens

It is important for the citizens to get to know what is tourism and participate in tourim activities at various levels-personal, commercial to public etc. Improvement of the attitude to tourism of the citizens will promote services for tourism. The concept of tourism city by participation of the citizens in this project is expected to spread to other cities and regions.

- Beautiful and Comfortable City

The beauty and comfortablity of Panama city should be enhanced by this project in the short term while the living environment for all citizens will be improved at the same time. The effect will be great as about 50% of population of the whole country live in the zone.





1.4 Portobelo Tourism Development Plan

Create the Duality pf Histrical Town and Marine Garden

Objectives and Means

- To conserve Portobelo historical town, objects, unique architectural fabric and their historical importance.
- To integrate with Portobelo National Park as the principal tourist attraction for its natural and historical importance.
- To improve and conserve the coastal belt, to effectively utilize their tourism resources and to provide for tourism based on the coastal belt.
- To integrate historical town conservation and tourist attractions.
- To develop a coastal resort base to support the limited capacity of Isla Grande.

Tab.1.16 Target Number of Visitors (1,000 pers.)

Tourist	lypes	Short	Medium	Long
	Foreign	146	253	517
Overnight stay	Domestic	94	150	191
	Total	240	403	708
	Foreign	418	849	1,202
Day visit	Domestic	94	144	262
-	Total	512	993	1,464

Note: Overnight visitors are total staying overnight.

Tab.1.17 Project Profile of Portobelo Tourism Development Plan

Devel	opment		Development schedule	De	v't b	ody
comp	onents	Project package	969798990001020304050607080910) Gov.	IDC	อก์ง.
	Old	Accomodation development (M:85rm, 0.4ha.)			0	0
	Portobelo	Portobelo Town Center beautification (5ha.)		C	0	
Portobelo	Town	Portobelo Information Center development (600m ²)			•	
Bay Area	Arca	Portobero Handicraft Training Center development (1,400m ²)			0	•
projects	La	Cruiser pier and marine center development (9.8ha.)		0	•	0
	Escucha	Accomodation development (H:300rm, 15.9ha.)			0	•
	Area	Beach improvement (0.5km.)			•	
Portobelo	Puerto	Accommodation development (M:300rm, 7ha.)			0	•
Peninsula	Lindo Area	Beach improvement (0.3km.)				
Area	La Guaira	Accommodation development (M:300rm, 7ha.)			0	•
Projects	Area	Beach improvement 0.3km.)			٠	
		Costal excursion road, new construction (14.0km.)		•		
Read	projects	Portobelo Town - Cacique - Puetro Lindo				
		Isla Grande access road, improvement (10.5km.)		0		
		San antomio - Puerto Lindo - La Guaira	<u> </u>	L		
Jota II h	tab alaza 1	funddia alaca Russananu alace	 O Londing sector O Supporting 	a 646	tor	

Note: H=high class, M=middle class, E=economy class...

•:Leading sector O:Supporting sector

Tab.1.18 Financial Development Cost (Bl. 1,000)

Components	Land	Foreign	Local	Total
Accomodation	1,342	57,250	20,679	79,271
Marine transport		6,067	3,502	9,569
Land transport	7	7,682	4,822	12,511
Tourist facilities	98	8,760	4,222	13,080
Public utilities	20	9,360	7,252	16,632
Total	1,467	89,119	40,477	131,063

Tab.1.20 Economic Evaluation (%, persons)

Details	
Economic Internal Rate of Return (EIRR)	36.9%
Generated employment: Direct	1,838
Indirect	4,594

Tab.1.1	9 Investment	Cost by Sectors	(Bl. 1,000)

Sectors	Short	Medium	Long	Total
Land	1,467			1,467
Government	13,659	235	7,933	21,827
TDC	14,418	10,644	•	25,062
Private	45,766	36,941		82,707
Total	75,310	47,820	7,933	131,063

Tab.1.21 Financial Evaluation of TDC

	BI. 1,000, %)
Details	
Total investment cost	26,529
Investment fund: Capital	11,492
Long-term loan	9,564
Financial Internal Rate of Return (FIRR)	15.9%

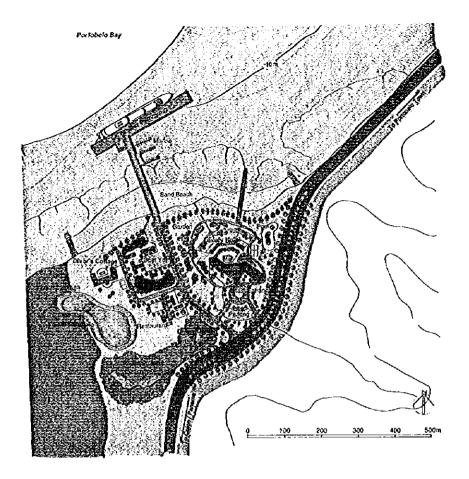


Fig. 1.6 Portobelo Tourism Development Plan : La Escucha Resort Development

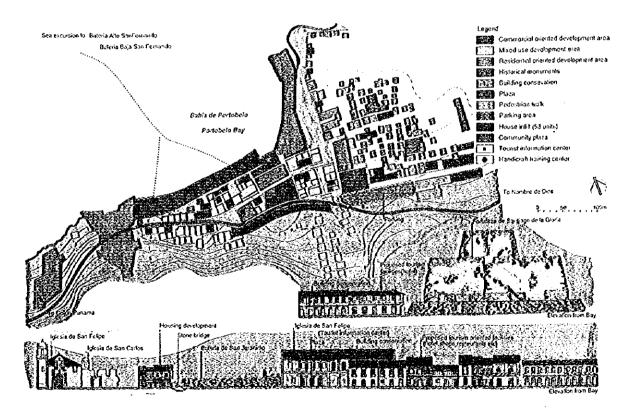


Fig.1.7 Portobelo Tourism Development Plan : City Center Beautification

1.5 Caribbean Costa Arriba Road Development Plan

Create a Coastal Tourism Corridor along the Caribbean Sea.

Objectives and Means

- -- To improve the access road from Sabanita to Portobelo in the short term.
- To expand and shift to eastern part and to develop tourism in Santa Isabel, so as to limit development within National Park boundary, in the middle term.
- To connect to San Blas by land surface link, and to establish the eastern Panama tourism circuit, Panama -Portobelo - San Blas.

Tourist	ypes	Short	Medium	Long
Overnight stay	Foreign	200	500	1,000
	Domestic	135	243	492
	Total	335	743	1,492
Day visit	Foreign	292	600	879
	Domestic	205	350	655
	Total	497	950	1,534

Tab.1.23 Project Profile of Caribbean Costa Arriba Road Development Plan

Dev	Development Project package		Development schedule	Dev't body	
	nponents	9		969798990001020304050607080910	Gov. IDC Priv.
	Sabanita - Rio Alejandro		ROW: 26.0m. Pavement: 7.0m., 4 carriage- ways		•
Route of Sa- banita -	Rio Alejandro - La Escucha		ROW: 15.0m., Pavement: 7.0m, 3 parking areas	C)	•
San Antonio	La Escucha - Por- tobelo Town	3.0km.	ROW: 15.5m., Pavement: 7.0m. 1 parking area		•
(44.2km.)	Portobelo Town - San Antonio		ROW: 15.0m., Pavement: 7.0m. Rio Cascajall bridge		•
Route of San Antonio -	San Antonio - Nombre de Dios		ROW: 15.0m., Pavement: 7.0m. Rio Nombre de Dios bridge 1 parking area		•
Cuango	Nombre de Dios - Viento Frio	4.7km	ROW: 14.0m., Pavement: 6.0m. 1 bridge, 2 access roads 2 parking		Ŷ
(33.6km.)	Viento Frio - Cuango	13.9km	areas ROW: 14.0m., Pavement: 6.0m. 3 parking areas		•

Note: ROW=right of way

tab.1.24 Financial Development Cost (Bl. 1,000)

Components	Land	Foreign	Local	Total
Sabannita-Alejandro		4,920	3,737	8,657
Alejandro-Escucha	6	4,253	4,877	9,136
Esucha-Portobelo		2,948	2,440	5,388
Portobelo-Antonio		1,593	1,049	2,642
Antonio-Nomore	8	4,293	3,009	7,310
Nombre-Viento Frio	153	2,521	1,756	4,430
Viento Frio-Cuango	3	3,034	2,208	5,245
Total	170	23,562	19,076	42,808

Tab.1.24	Investment	Cost by	Sectors	(BI 1,000)

Sectors	Short	Medium	Long	Total
Land	170			170
Government	22,325	20,313		42,638
TDC				
Private			•••	
Total	22,495	20,313		42,808

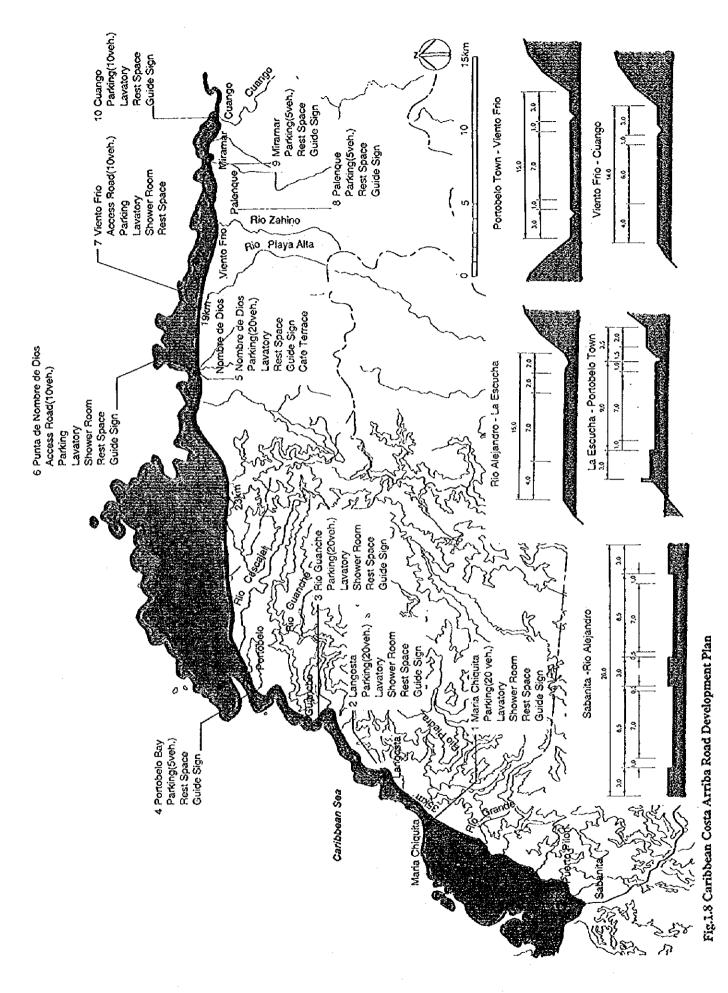
•: Leading Sector

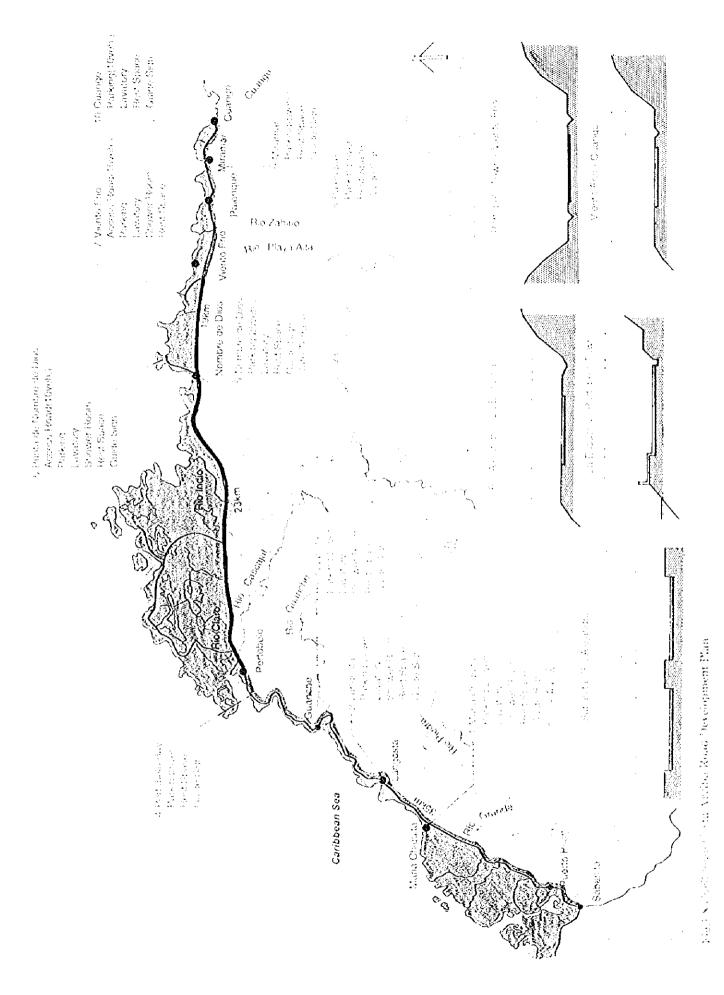
Project Evaluations

The benefit derived from the improvement of the road are the saving in the maintenance cost of the road and vehicle operation cost. The EIRR for the total section is estimated at 13.7% as shown in the table.

Tab.1.25 Economic Internal Rate of Return (%)

Components	EIRR
Sabannita - Rio Alejandro	2.7%
Rio Alejandro - La Escucha	15.3%
La Escucha - Portobelo Town	6.8%
Portobelo Tow - San Antonio	42.9%
San Antonio - Nombre de Dios	11.1%
Nombre de Dios - Viento Frio	5.1%
Viento Frio - Cuango	5.8%
Total	14.0%





1.6 Maritime Triangle Development Plan

Create High-speed Voyage on the Gulf of Panama.

Objectives and Means

- To create an opportunity for tourists to visit Las Perlas by sea excursion link considering mass transport, time factors, and safety.
- To operate sea excursion link between Panama City and Las Perlas (San Miguel) in the short term.
- To develop further sea links between Panama City and Farallón, San Miguel and Farallón so that a new coastal tourism circuit comprising a trianglular sea link can be introduced in the Gulf of Panama.
- To arrange entertainment on board during trips.

Tab.1.28 Project Profile

Tab.1.27 Target Number of Passengers

		(Unit: 1,00	0 persons)
Routes	Short	Medium	Long
Metropolitana 🗲 🅩	175.0	274.0	436.8
Las Perlas			100.0
Las Perlas 🗲 🗲	50.0	71.0	92.0
Farallón	79.0	93.6	207.2
Farallón 🗲 🗲	3.6	175.0	260.0
Metropolitana	1.5	165.0	245.0

Deve	lopment	Project Package	Develop			Dev't	
coon	nponents		9697989900010	2030405	0607080910	Cov. TC	C Priv.
	Nueva	Landing pier, fixed (200m x 10m), floating (50m x 10m)	E.			٠	
	Gorgona	Terminal (400m ²)				٠	
Port	(Farallón)	Parking (2,000m ²)				٩	
facility		Landing pier, fixed (100m x 10m), floating (50m x 10m)				Ö.	
projects	San Miguel	Terminal (400m ²)				0	
		Parking (1,000m ²)				•	
		Access road (Port - San Miguel Town, 6km.)				•	
Boat	operation	Hydrofoil boat				0	•
			●:Leadin;	g sector	O:Suppo	rting s	ector

Tab.1.29 Financial Development Cost (B1 1,000)

Later L many of	0.00		<u>, (D</u>	
Components	Land	Foreign	Local	Total
Landing piers		1,587	1,015	2,602
Terminal buildings	4	1,457	523	1,984
Parking areas	20	145	107	275
Access road	15	5,552	3,628	9,195
Hydrofoil boats		54,000		54,000
Total	39	62,744	5,273	68,056

Tab.1.30 Investment Cost by Sectors (B1 1,000)

Sectors	Short	Medium	Largo	Total
Land	39			39
Government	6,686	6,669	662	14,017
TDC				
Private	18,000	18,000	18,000	54,000
Total	24,725	24,669	18,662	68,056

Tab. 1.30 Financial Evaluation

Items	1
Total investment cost(B).1,000)	68,056
Financial Internal Rate of Return (FIRR)	22.2%

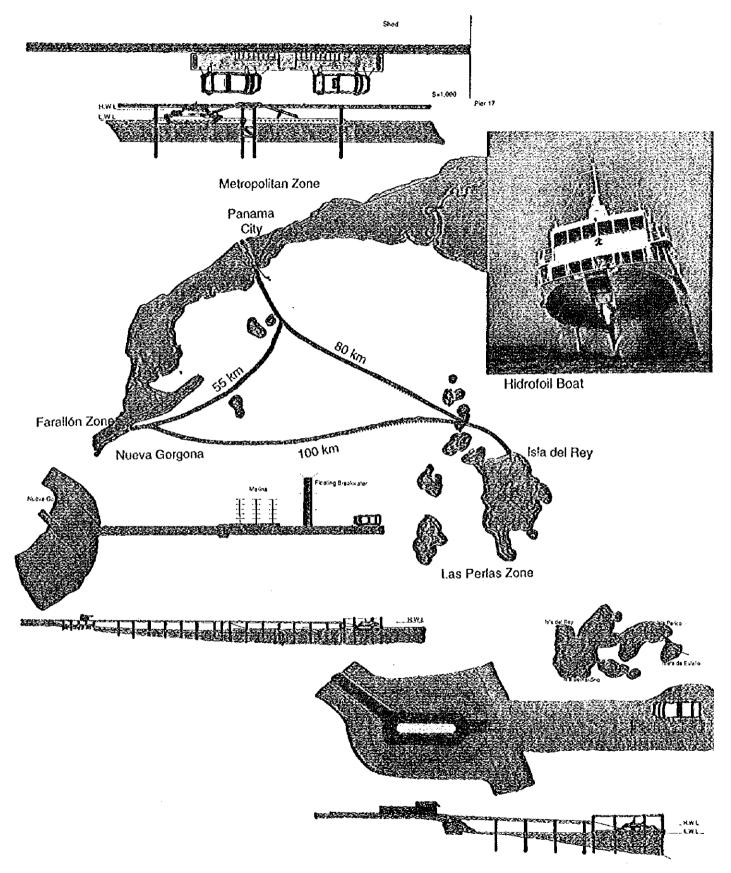


Fig.1.9 Maritime Triangle Development Plan

2. Implementation Entity and Organization

These are based on tourism development public corporations that have been basically proposed as the entities to implement integrated tourism project.

To implement integrated tourism development projects, implementation entities are essential that engage in acquisition of land as the basis of the project, construction of infrastructure and central facili ties, lease or sale of those facilities, and promote private investment and attraction of tourists.

The implementation entities for each project are listed below.

Tab.2.1 Summary of Implementation Entity and Organization of Priority Projects

Priority Projects	Lands	Facilities	Operations
1. Chame Resort Development			
1) Accommodation	TDC	PRI	PRI
2) Sea Transportation	TDC	TDC	TDC
3) Access Roads	TDC	PUB	PUB
4) Tourism facilities	TDC	PRI	TDC/PRI
5) Infrastructure	TDC	TDC	TDC
2. Panama Canal Tourism Development	100		
1) Accommodation	TDC	PRI	PRI
2) Transportation	TDC	TDC	TDC
3) Access Roads	TDC	TDC	TDC
4) Gamboa Area Tourism Facilities	TDC	TDC	TDC/PR1
5) Summit, Soberania Area Development	TDC	TDC/PRI	PRI/PUB
6) Monument Park Development	TDC	TDC	TDC
	TDC	TDC	TDC
7) Punta Toro Area Development			
3. Flower and Green City Plan	PUB	PUB	PUB
1) Landscaping of Roads	PUB	PUB	PUB
2) Tourist Area Landscaping	PUB	PUB	PUB
3) Tourist Open Space	PUB	PUB	PUB
4) Tourism Sign Improvement	PUB	PUB	PUB
5) Tourism Information Center	PUB	PUB	PUB
6) Tourist Bus Center	rub	TOD	100
4. Portobelo Tourism Development	TDC	PRI	PRI
1) Accommodation	PUB/TDC	PUB/TDC	PUB TDC
2)Cruse Pier	TDC	PUB	PUB
3) Access Roads	TDC	TDC	TDC
4) Tourism facilities		TDC	TDC
5) Infrastructure	TDC		
5. Caribbean Costa Arriba Road Development	DUD	DUD	8110
1) Sabanita - Rio Alejandro	PUB	PUB	PUB
2) Rio Alejandro - La Escucha	PUB	PUB	PUB
3) La Escucha - Portobelo Town	PUB	PUB	PUB
4) Portobelo Town - San Antonio	PUB	PUB	PUB
5) San Antonio - Nombre de Dios	PUB	PUB	PUB
6) Nombre de Dios - Viento Frio	PUB	PUB	PUB
7) Viento Frio - Cuango	PUB	PUB	PUB
6. Maritime Triangle Development			NUG
1) Pier	PUB	PUB	PUB
2) Terminal	PUB	PUB	PUB
3) Parking	PUB	PUB	PUB
4) Access Roads	PUB	PUB	PUB
5) Hydoro-Poil Boats	PRI	PRI	PRI

Note: TDC: Proposed Tourism Development Corporation, PUB: Public sector, PRI: Private sector

3. Project Evaluation

(1) Summary of Selected Projects for Feasibility

Study

Summry of selected projects for feasibility study including outlines and development costs classified by implmentation entity are shown in Tab.3.1.

(2) Economic and Financial Analysis

Economic and Financial Analysis of the Project was conducted for each project in a way appropriate for each projects' nature. Especially for general tourism development projects such as Chame Resort, Panama Canal and Portobelo tourism development, economic analysis was conducted taking tourism revenue as income using the same method used for the Long Term tourism Development Plan. The financial analysis of these projects was conducted assuming that the proposed development entity, the Tourism Development Corporation (TDC), was in operation. (Tab.3.2)

Tab 3.1 Summary of	Selected Projects for	Feasibility Study

Project name	Project outlines		Development	
			/.1,000)	
1. Chame Resort Development	 As the leading project of Faraltón Zone coastal resort hotel complex along the dynamic long beaches facing the Pacific Ocean is initiated. Major components of this project are over 3,000 rooms of international standard accommodations and several sorts of urban -type resort amenity facilities. 	Gov ⁻¹ TDC Private	6,915 15,659 51,565 210,491	
2. Panama Canal Tourism Development	caracas incough development of 10 Fundina canal focal opois.	Gov't TDC Private Total	284,630 73,259 3,267 53,348 109,951 239,825	
3. Flower and Green City Development	 Creation of a good initial impression at Tocumen Airport and improvement of selected roads and open spaces by landscape, including sign boards and street lights. Establishment of new tourist information centers and a tourist bus center located in the central area is introduced. Tourist areas to be selected and improved. 	Land Gov't TDC Private Total	32,495 32,495	
4. Portobelo Tourism Development	 Historical Portobelo Town conservation and re-development and establishment of dispersed tourist resorts (Caribbean coastal belt 9km)are formulated and inte- grated with Portobelo National Park. The first hotels to be located in La Escucha, Puerto Lindo, La Guaira and Porto- belo Town. 	Land Gov't TDC Private Total	1,467 21,827 25,062 82,707 131,063	
5. Caribbean Costa Arriba Road Development	 Trunk road improvement project 77.8km. long between Sabanita - Cuango along the Caribbean Sea is recommended. Road Iane pavement in whole route including new construction of 3 bridges, 10 parking areas and 2 access roads to the beaches to be improved. 	Land Gov't TDC Private Total	170 42,638 42,808	
6. Maritime Triangle Development	 Establishment of sea excursion links with hydrofoil boats between Panama City, Del Ray Islands and Chame area are recommended, in response to the needs of tourist demand. Improvement or development of each port Facility are proposed, including ac- cess road, parking areas and terminal buildings. 	Land Gov't TDC Private Total	39 14,017 54,000 68,056	

Table 3.2 Summary of the Evaluation of the Priority Projects

Project	Economic Internal	Financial Rate	
	Rate of Return	of Return	
1. Chame Resort Development Plan	19.0%*1	19.6%*2	
2. Panama Canal Tourism Development Plan	16.6%*1	12.9%*	
3. Flower and Green City Development Plan	_*3	_*4	
4. Portobelo Tourism Development Plan	36.9%*1	15.9%*2	
5. Caribbean Coast Arriba Road Development Plan	14.0%* ⁵	.**	
6. Maritime Triangle Development	_* ⁷	22.2%*	

16. Maritime Triangle Development
 17DC: Proposed Tourism Development Corporation, PUB: Public Sector, PRI: Private Sector
 18. Tourism revenue was calculated as a benefit, and compared to development cost
 19. Tourism revenue was calculated implementation entity, the Tourism Development Corporation (TDC), was in operation
 19. Economic analysis was not applied to the project due to the social benefit of the project
 19. Financial analysis did not apply due to non-financial-benefit project
 19. Evolution of the project are calculated as a benefits
 10. Statistical analysis of a maintenance cost are calculated as a benefits
 10. As this road development project has regionally spread benefits, there is no direct profit
 19. As transportation infrastructure is essential for tourism development for the Las Perlas Islands, economic analysis was not conducted.
 19. A financial analysis considering both port construction and establishment of high speed water transport

(3) Environmental Evaluation

The negative impact of the six projects and the countermeasures which become necessary in the future are shown in Tab.3.3. In conclusion no major

impacts on the implementation of priority projects are identified so that the projects will be feasible if the countermeasures are carried out.

Project	Zone	Negative Impacts and Countermeasures
1. Chame Resort Development	Farallón	In order to preserve the sea turtle nesting areas and the few remaining mangrove forests, the relevant local governments shall establish preservation zon- ing and guidelines, and enforce them.
2. Panama Canal Tourism Development	Metropolitana	This is an area possessing abundant flora and fauna, including rain forest. Soil erosion caused by soil structure and rain forest felling will be minimized at the planning stage.
3. Flower and Green City Plan	Metropolitana	This project centers around planting trees to improve eityscapes, so is deemed to have no impact.
4. Portobelo Tourism Development	Portobelo	Preserving the historical town of Portobelo will re- sult in relocation of citizens, so compensation for relocation will be required. In addition, zoning and guidelines for the preservation of the coastline and coral atolls where sea turtles nest, mangrove forests, and historical ruins, are to be established by local governments.
5. Caribbean Costa Arriba Road Devel- opment	Portobelo	In order to prevent soil erosion caused by cut and fill operation, treatment of wastewater during construc- tion and the landscaping of slopes will be incorpo- rated into plans.
6. Maritime Triangle Development	Farallón, Metropolitana Las Perlas	Fishing will be restricted (Farallón) and fishing grounds will be used (Las Perlas), so arranging com- pensation to fishermen should be necessary for this project.

Tab.3.3 Negative Ir	npacts and Countermeasures	of Feasibility	y Study Projects

(4) Summary of Evaluation

Six priority projects are located in metropolitan area and its adjacent area. These projects are effective to implement in consideration of maximum utilization of existing tourism resources and infrastructure in these areas and high return results of financial and economic analysis.

Chame Resort Development, Portobelo Tourism Development, Caribbean Coasta Arriba Road Development and Maritime Triangle Development can be leading project of rural area development in pacific coast area, Caribbean coast area and Las Perlas archipelago area. Moreover, Panama Canal Tourism Development, Flower and Green City Plan, Portobelo Tourism Development effect on conservation of natural, historical and cultural resources which should be succeeded to next generation and also contribute to social benefit. Furthermore, Flower and Green City Plan effects on formation of a new hub for international interchange based on tourism but also increasing of Panama's Internationality.

Therefore these six priority projects are feasible considered with entire evaluation results.

4. Conclusion and Recommendations of Feasibility Study

Evaluation was made on the six project plans as the pilot and leading projects for a long-term tourism development project and obtained the result that all these projects are feasible.

Therefore, the execution of these six projects is proposed based on this result and particularly the early execution of the following integrated tourism development projects is desirable.

- Chame Resort Development (248 millions Balboas)
- Panama Canal Tourism Development (240 millions Balboas)
- Portobelo Tourism Development (130 millions Balboas)
- (1) Early Commencement of Implementation of Six Priority Projects

The Chame resort development, Panama Canal tourism development and Portobelo tourism development are comprehensive tourism development projects and have relatively high economic internal rates of return (19.0%, 16.6% and 36.9%, respectively), so that their implementation is recommended in the sense of the national economy. In the case where a new implementation organization such as the Tourism Development Corporation invests and manages the project, for example by buying raw land, developing necessary infrastructure and facilities and leasing the developed land and facilities to tourism industries, the financial analysis also results in sufficiently high financial internal rates of return (16.6%, 12.9% and 15.9%, respectively).

Within these three projects, the Panama canal tourism development should be given development priority considering the tourism resources of the canal zone, the land ownership and the well developed infrastructure which already exists.

1) Flower and Green City Plan (33 millions Balboas)

The Flower and green city project, has great social benefits, so early implementation by the local government is recommended.

- Beautification of city environment as the main gateway of Panama
- Volunteer citizens will assist in the creation of a city for tourists
- Realization of a clean, attractive and safe city for tourists

2) Caribbean Costa Arriba Road Development (43 million Balboas)

Improvement of the Caribbean Costa Arriba road is recommended for tourism development and local development in the Caribbean coastal region. It has a sufficiently high economic internal rate of return (14%) with road maintenance cost savings and vehicle operating cost savings.

3) Maritime Triangle Development

(68 million Balboas) The maritime circuit development project has a high financial rate return (22.2%), even if operated by private enterprise. However, for realization of the project, coordination is necessary between the initial investment and the development schedule of Las Perlas zone and also the port development schedule.

(2) Next Steps to be Taken

1) Development Orientation for Rest Peripheral Areas of Six Study Zones

Within the three survey sites, Coiba has high development potential, however it does not have basic infrastructure especially transport access. Therefore a development and conservation plan should be conducted for determination of future tourism development zones.

Development of Escudo de Veraguas Island is included in Bastimentos zone development. In Horconcitos, beaches and fishing bases will be developed for local residents of the area.

Since San Blas and Darién have unique and precious tourism resources, they should be developed slowly with careful consideration given to environmental conservation.

2) Adjustment and Up-dating of the Plans

The number of visitors to Panama will be highly affected by economic and other factors in the countries from which the majority of visitors are expected to come, including USA, and European countries.

Therefore, it is important to observe and analyze the conditions and factors in such countries which influence tourist behavior, and frequently adjust and update the development plans to make them most effective given the limited budget for capital investment and promotion.

For adjustment and up-dating of the development plans, the necessary information should be systematically collected and analyzed

3) Further Related Studies

More detailed studies on the priority projects should be conducted to finalize the details for implementation of these projects.

Since institutional and organizational reform was recommended, studies on their strengthening, such as the tourist information center system, should be prepared.

It is recommended that feasibility studies for important projects in areas other than the priority zones, such as Bastimentos and Las Perlas zones, be carried out progressively.

Appendix: Study Organization and Members

Deputy Leader/ Land Use Plan

Tourism Institutional System

Tourism Promotion Plan

Tourism Demand Forecast

Tourism Demand Forecast

Transport Infrastructure Plan

Coastal Area Development Plan

Economic/Financial Analysis

Urban Infrastructure Plan

Environmental Analysis

Project Administrator

Tourism Facility Plan

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