

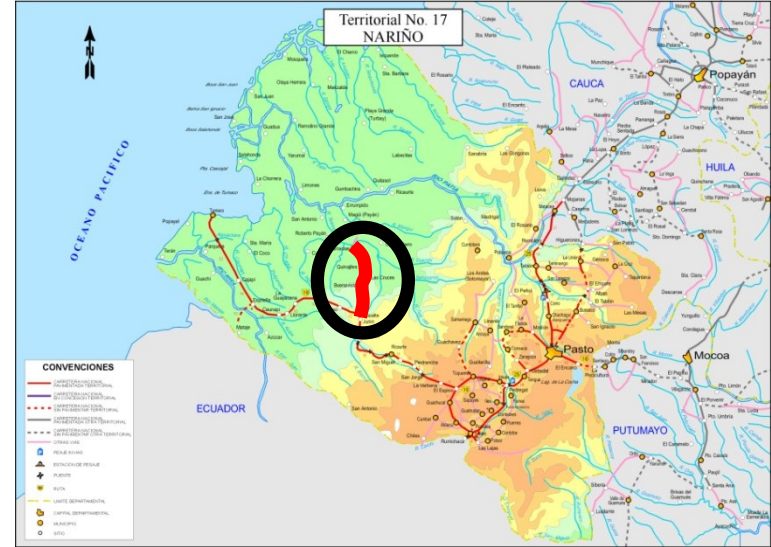
# Part Two

# High and Sustained Growth

## Junín – Barbacoas

Total Length: 25 Km

Period	Investment (USD Million)	Scope
2002-2006	13.1	18 Km
2007-2010	5.0	7 Km
<b>TOTAL</b>	<b>18.1</b>	<b>25 Km</b>



BEFORE



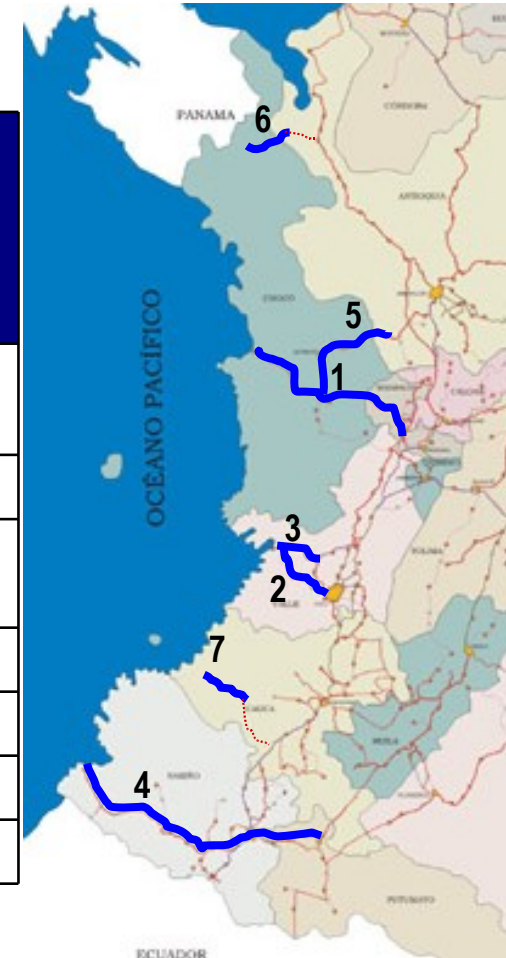
AFTER



# High and Sustained Growth

## Roadways for competitiveness

No.	Project	Department	Length (Km)	Total investment USD MM (2007 – 2010)	Due by
1	La Virginia – Las Anímas - Nuquí	Chocó	278	88.1	2010
2	Simón Bolívar - Anchicayá	Valle	80	12.1	2010
3	Doble Calzada Buga - Buenaventura	Valle	51	252.5	2010
4	Tumaco – Pasto - Mocoa	Nariño	360	119.1	2010
5	Medellín – Quibdó	Chocó	109	22.4	2010
6	Lomas Aisladas – Cacarica	Chocó	51	-	2016
7	El Plateado – Belén	Cauca	80	-	2016



**Total Investment 2007 – 2010: USD \$494 million**

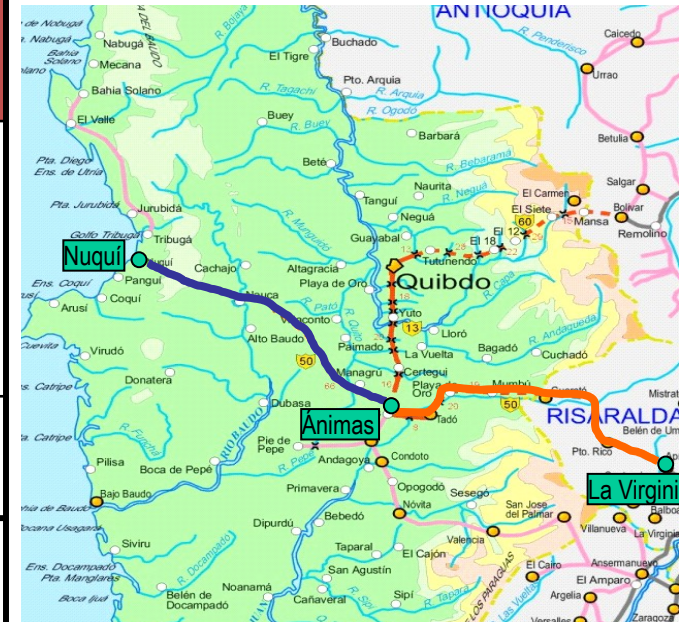


# High and Sustained Growth

## La Virginia – Las Animas - Nuquí

Total Length: 278 Km

Period	Investment (USD million)	Scope
2002-2006	7.6	Construction of 63 km and enhancement of 67 km in the sector Animas – Nuquí*. Includes engineering and environmental studies.
2007 - 2010	47.6	
2007 - 2010	40.5	148 Km enhancement (La Virginia – Las Animas)
<b>Total</b>	<b>95.8</b>	<b>Construction 63 Km and Enhancement 215 Km</b>



\*USD \$5.1 million was invested in this roadway under “Plan 2500” for the sector: La Ánimas – Tadó – Playa de Oro – Mumbú

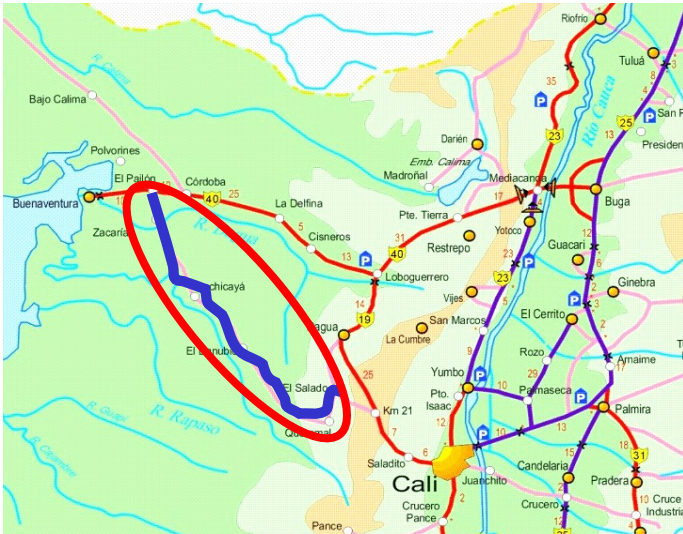


# High and Sustained Growth

## Simón Bolívar – Anchicayá roadway

Total Length: 80 Km

Period	Investment (USD million)	Scope
2002 - 2006	2.9	Roadway enhancement and maintenance
2007 - 2010	12.1	Roadway enhancement and maintenance
<b>Total</b>	<b>15.0</b>	<b>Enhancement and maintenance 80 Km</b>



# High and Sustained Growth

## Double lane highway Buga – Buenaventura (Loboguerrero – Citronela)

Total Length: 51 Km

Period	Investment (USD million)	Scope
2007 - 2010	142.9	Studies update and construction of the double carriageway between Cisneros – Citronela (underway)
2007 - 2010	109.6	Construction Loboguerrero –Cisneros
<b>Total</b>	<b>252.5</b>	<b>Double carriageway Construction 51 Km</b>



The construction of the double carriageway between Buga – Loboguerrero is included under the “Road network of the Cauca and Valle ” concession contract. Additionally, the existing roadway (118.2 Km) is included under an integral maintenance contract. USD \$14.3 million was invested during 2002 – 2006 and USD \$ 20.7 million period will be invested during 2007 – 2010.



# High and Sustained Growth

## Tumaco – Pasto – Mocoa

Total Length: 360 Km

Estimated end date: 2012

Period	Investment (USD million)	Scope
2007-2010	15.2	Enhancement and maintenance 27.5 Km (along the entire roadway)
2007-2010	103.9	Enhancement and maintenance along the roadway and bypass construction (47 Km)
<b>Total</b>	<b>119.1</b>	<b>Enhancement and maintenance 313 Km and bypass construction (47 Km)</b>

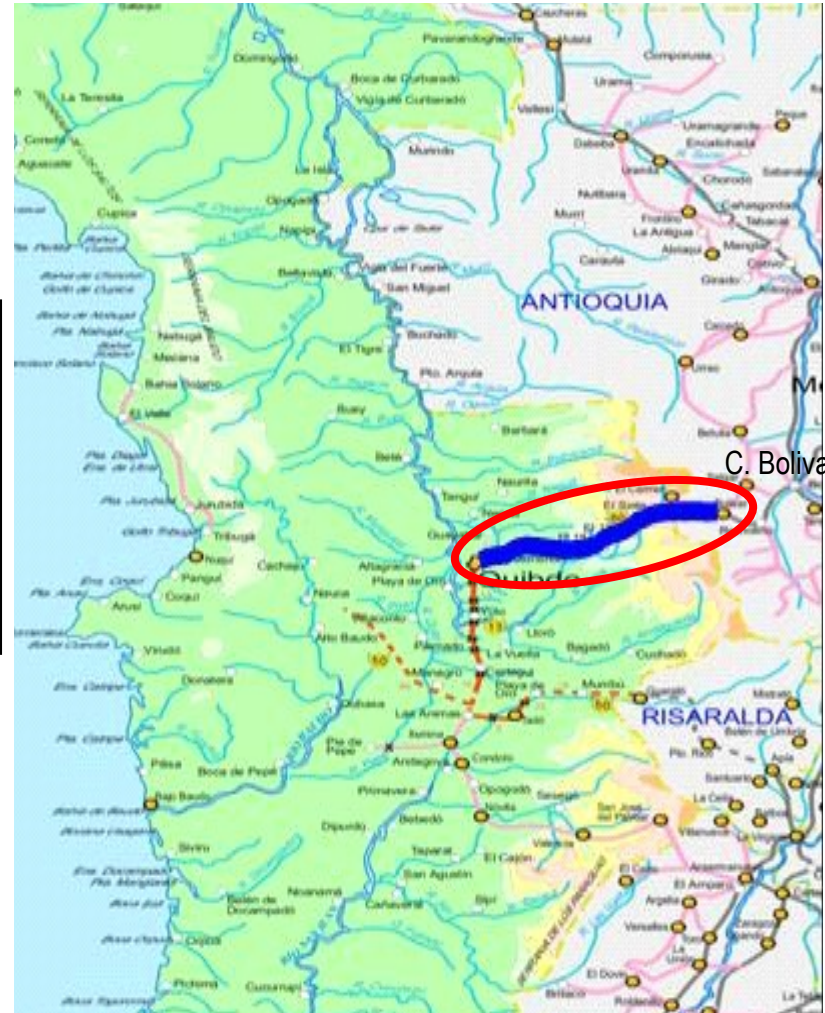


# High and Sustained Growth

## Roadway Medellín – Quibdó Sector C. Bolívar – La Mansa – Quibdó

Total Length: 109 Km

Period	Investment (US\$ million)	Scope
2007 - 2010	22.4	Enhancement 109 Km
<b>Total</b>	<b>22.4</b>	<b>Enhancement 109 Km</b>





# High and Sustained Growth

## Lomas Aisladas – Cacarica (Atrato Bridge Included)

Total Length: 51 Km

Period	Investment (USD million)	Scope
Investment requirements	166.7	Construction 51 Km

- The project is being structured by MT
- Construction will start in 2010





# High and Sustained Growth

## Technical and economical support to the Regional Road Plan (PVR)

According to territorial entities, technical requirements and economic capacity, the plan aims to develop an appropriate methodology for the enhancement, rehabilitation and maintenance of the department roadways.

Project financing is structured with basic sources:

1. Multilateral bank loan to the nation and executed through the Ministry of Transport to support the territorial entities.
2. Multilateral bank loan to the Territorial Entities with debt capacity backed by the nation.

Credit loan with the multilateral bank is being structured.



# High and Sustained Growth

## Municipal Roadways

Financial support to local authorities for municipal roads improvement :

- Municipalities sustainable growth.
- Regional integration with main road.
- Improvement of the transport service through maintenance of the roadways.
- Increase rural and regional accessibility
- Promote community participation



Department	Investment 2007-2010 (USD million)
Chocó	5.7
Antioquia	0.4
Valle	0.2
Cauca	0.6
Nariño	1.7
Belén de Bajirá	0.2
TOTAL	8.8







# High and Sustained Growth

## Other transport infrastructure:

Develop infrastructure that encourages intermodality:

- Modernization and expansion of the port sector
- Consolidation of rail transport
- Develop airport infrastructure
- Consolidation of river transport

## Specific Actions

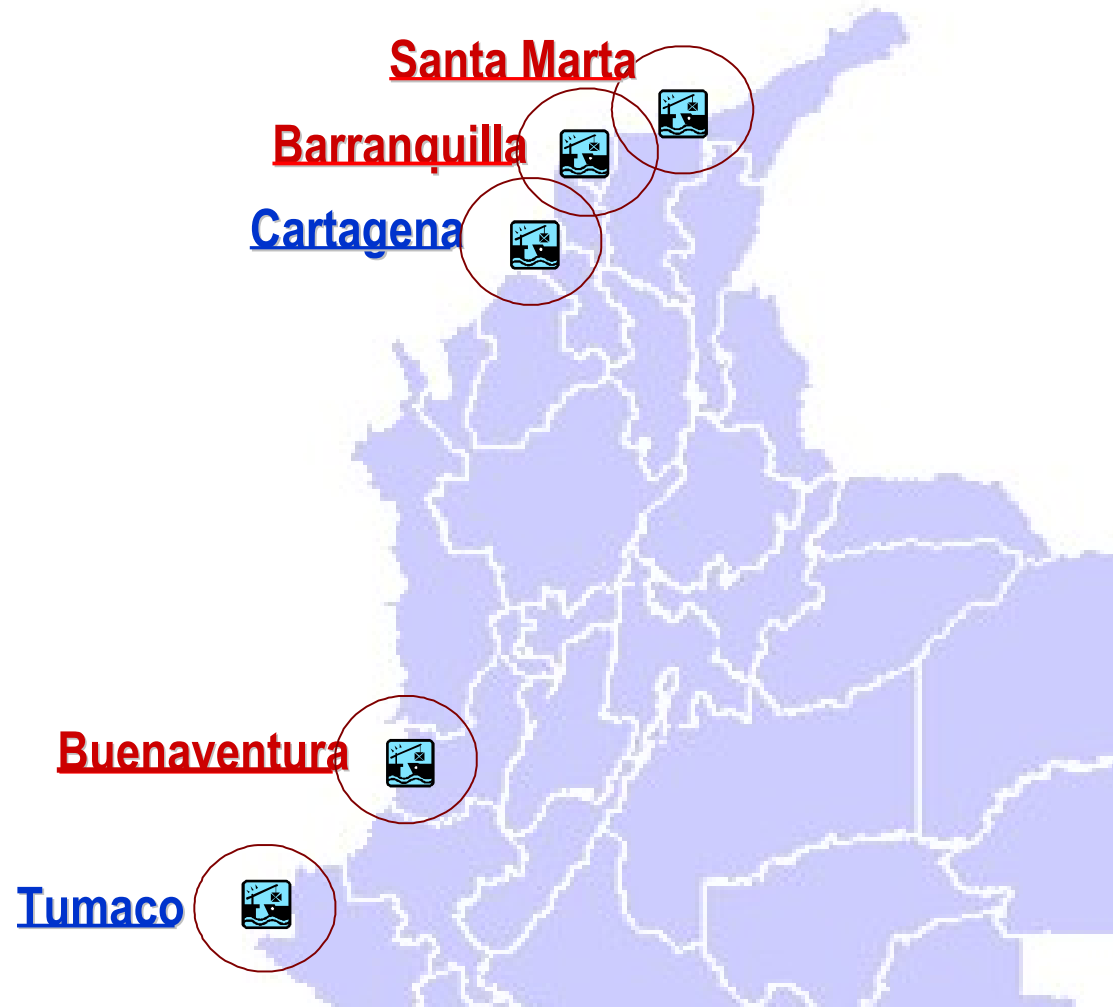
- Expansion and development of the 4 ports for the region (renegotiation of the port of Buenaventura in July of 2007): USD\$ 400 million (private investment) + USD\$ 37.4 million (public investment) 
- Review the Pacific railroad concession contract scheme 
- Advance the improvement of 8 airports in the region: 4 in Chocó, 2 in Cauca, 1 in Valle and 1 in Nariño: USD\$ 8.8 million 
- Make the principal rivers and bays of the region navigable 

**Total Resources: USD\$ 400 million (private) + USD\$ 46.2 million (public)**

# High and Sustained Growth

## Ports

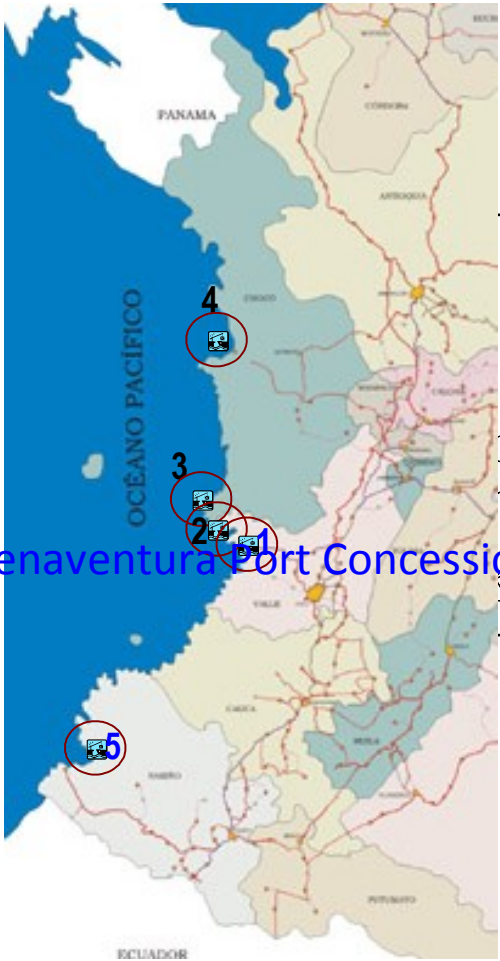
- Buenaventura, Tumaco, Santa Marta, Barranquilla and Cartagena ports were granted concession in 1993 for a 20-year period.
- The Government is reviewing the port concessions contract scheme.
- It is expected that, after this process, benefits will be obtained, as new levels of efficiency and competitiveness result in Buenaventura, Barranquilla and Santa Marta Ports.



# High and Sustained Growth

## Expansion and improvement in ports – Private Investment

No.	Project	Department	Investment ( USD million)	Area (Has)	Installed Capacity (million Tons/year)
1	Buenaventura	Valle	400	117	13
2	Agua Dulce	Valle	-	98	2.5
3	Bahía Málaga	Valle	-	50	5.25
4	Tribugá	Chocó	-	96	8.7
5	Tumaco	Nariño	----	8,7	0.15

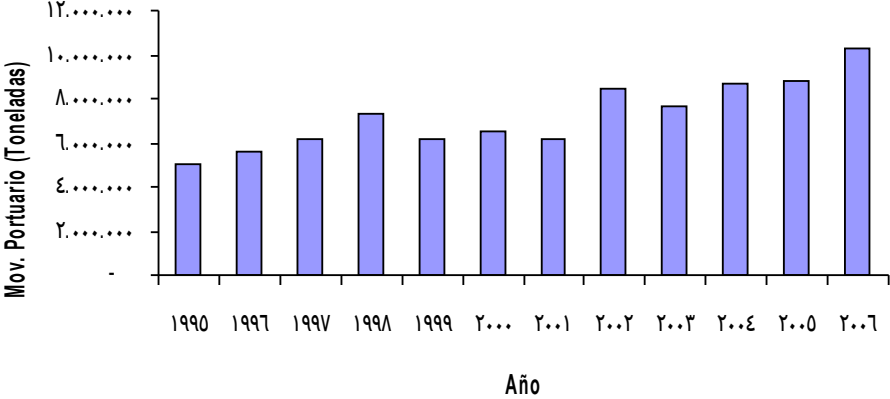


# High and Sustained Growth

## Buenaventura Port Concession

- Defining the optimal conditions and investment requirements for the port enhancement and improvement.
- Estimated Investment USD \$400 million according to an 8% freight growth during the next 20 years.
- Contract Signing date : July 1st 2007
- Dredging of the access channel, public Investment USD \$37,4 million (to be completed by June 2008)

Freight Type: Multipurpose and Coal





# High and Sustained Growth

## Agua Dulce Port Concession

### Agua Dulce

- Port development of 98 hectares: Aguadulce Peninsula
- Capacity: 2.5 MM tons
- Estimated investment: US\$ 239 Million
- Access: 21 Km road, of which 14 km have to be constructed
- Waterway access: 11 ft. of depth approx.

- **Status:** Concession permit approved by the National Institute for Concessions
- Feasibility studies carried out by Moffatt & Nichol, International, Inc

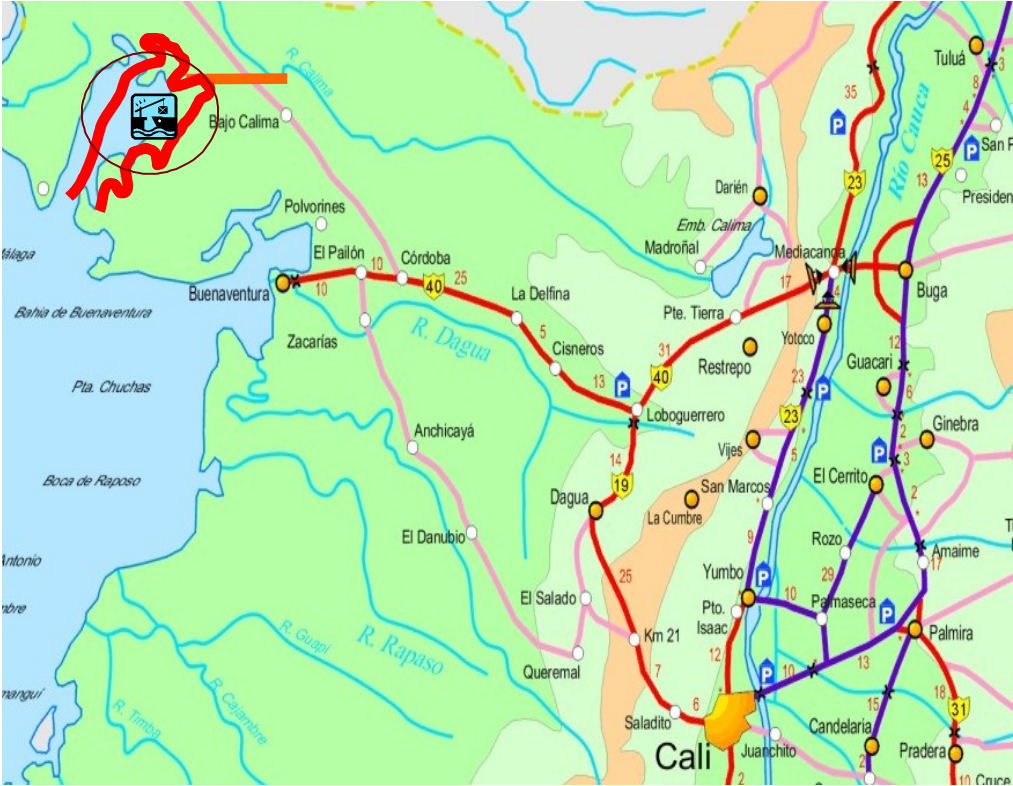


# High and Sustained Growth

## Bahía Málaga Port Concession

- Port development covering 50 hectares, located at the south side of Bahía Málaga Naval Base
- Capacity: 5.2 million tons
- Estimated investment: : US\$ 380 MM
- Access road (10 Km) to connect the access way with the Naval Base

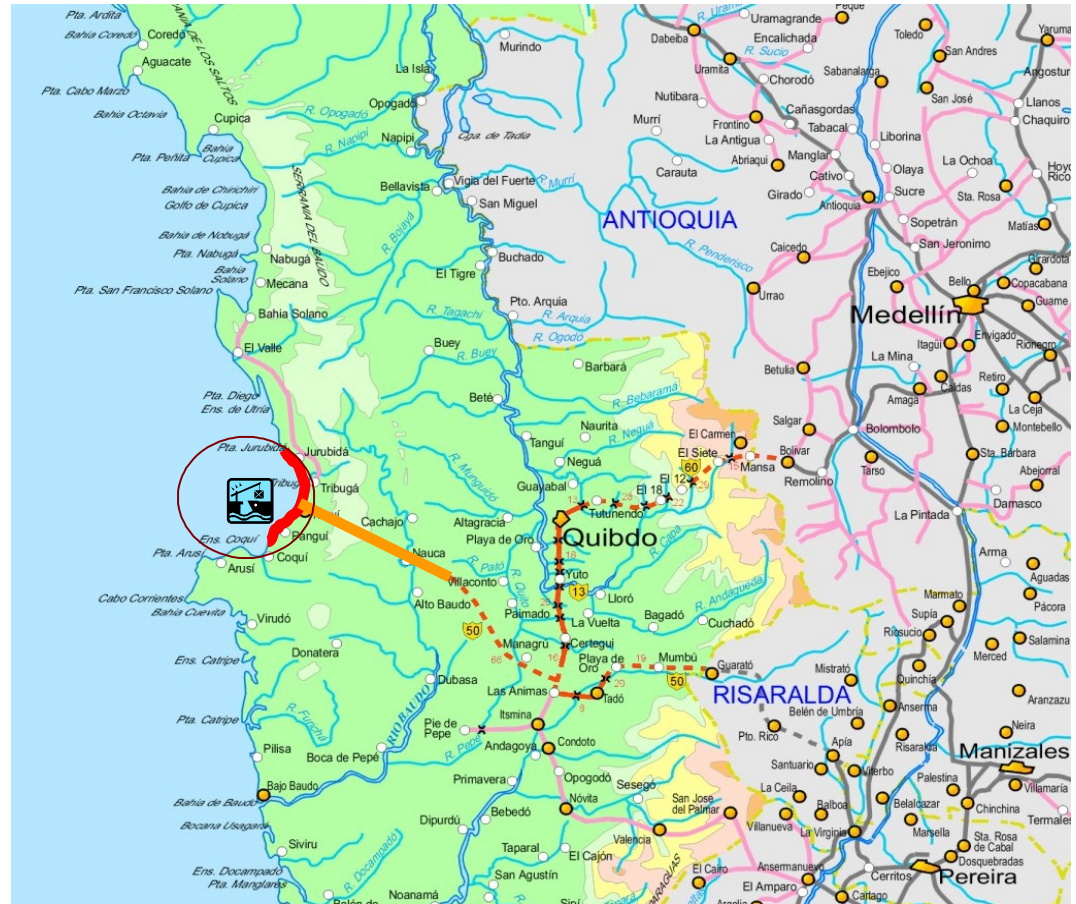
• **Status:** Under study by the private sector.



# High and Sustained Growth

## Tribugá Port Concession

- Port development covering 96 hectares at Ensenada Tribugá
  - Capacity: 8.7 million tons
  - Estimated investment: : US\$ 800 MM
  - Infrastructure development: Directional dike. Terminal and platform for containers, solid grains platform, warehouse and management service buildings.
  - Access road: La Punta - Tribugá (70 Km)  
Rehabilitation of the road Pereira – Las Animas – La Punta (220 Km).
  - Its feasibility depends on the road construction.
- **Status:** Under study by the private sector.

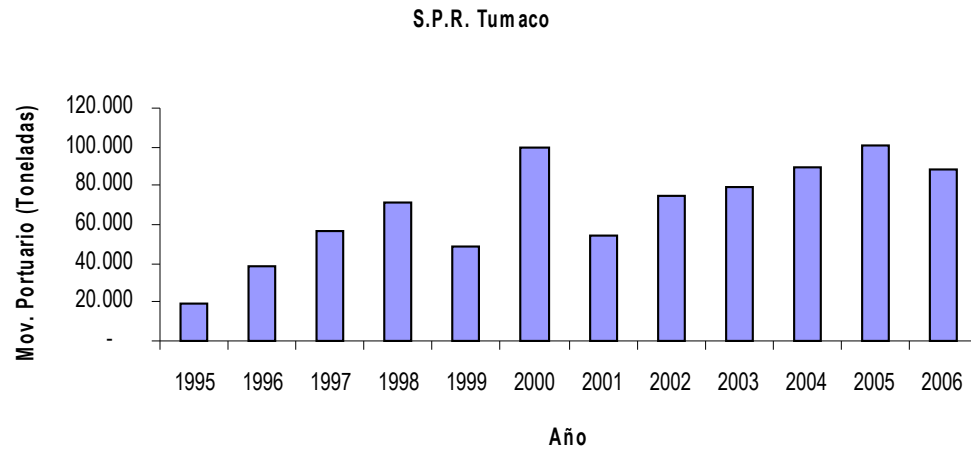


# High and Sustained Growth

## Tumaco Port



### Freight Type: Multipurpose



**Concession Period: 20 years**

**Concession End: May 2014**



# High and Sustained Growth

## Railway transport Consolidation



**Zone of Influence:** Valle del Cauca  
Quindío  
Risaralda  
Caldas

**Concessionary:** Tren de Occidente

**Length:** 494 km

**Concession Period:** 30 years

**National funds provided :** US\$ 148 million

**Status:** Analyzing alternatives for the optimal railway operation, to guarantee a good service level. Studies underway to be completed by June 2007:

- Demand study update
- Technical and financial analysis for the concession viability.



# High and Sustained Growth

## Airport infrastructure development

No.	Project	Department	Total Investment 2007 - 2010 (USD Million)
1	Acandí Airport	Chocó	0.70
2	Bahía Cupica Airport	Chocó	1.13
3	Capurganá Airport	Chocó	0.09
4	Quibdo Airport*	Chocó	1.91
5	Timbiquí Airport *	Cauca	0.48*
6	López de Micay Airport *	Cauca	0.48*
7	Buenaventura Airport	Valle	2.11
8	Tumaco Airport *	Nariño	1.91

**Total Investment 2007 – 2010: USD \$ 8.8 million**



\*Estimated figures

\*\*These airports were prioritized in the National Agenda for Productivity and Competitiveness



# High and Sustained Growth

## Acandí and Bahía Cupica Airports (Chocó)

### Acandí Airport

Total Runway Length: 1.200 x 16 mts

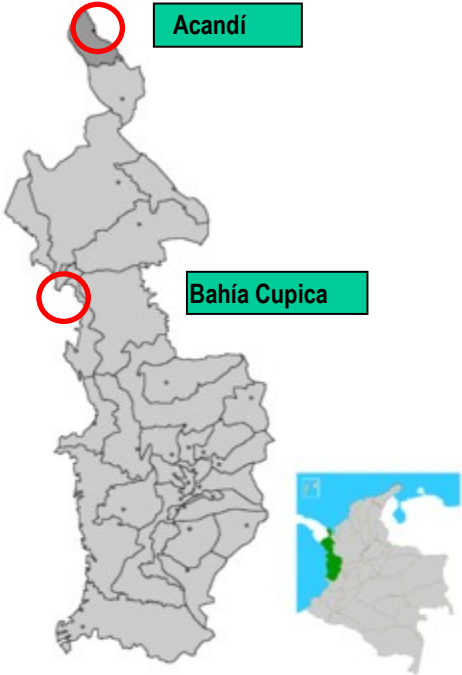
Municipality

Period	Investment (USD Million)	Description
2002-2006	0.73	Runway Paving Phase I
2007-2010	0.70	Runway Paving Phase II
<b>TOTAL</b>	<b>1.43</b>	

### Bahía Cupica Airport (Chocó)

Total Runway Length : 840 x 12 mts

Period	Investment (USD Million)	Description
2007-2010	1.13	Runway Enhancement
<b>TOTAL</b>	<b>1.13</b>	



Acandí Airport Runway – Source: AEROCIVIL



# High and Sustained Growth

## Capurganá and Bahía Solano Airports (Chocó)

### Capurganá Airport (Chocó)

Total Runway Length : 950 x 10 mts

Period	Investment (USD Million)	Description
2007-2010	0.088	Airport Area Fencing
<b>TOTAL</b>	<b>0.088</b>	

### Bahía Solano Airport (Chocó)

Total Runway Length : 1220 x 30 mts

Department

Period	Investment (USD Million)	Description
2002-2006	1.3	Runway paving and improvement
<b>TOTAL</b>	<b>1.3</b>	



B. Solano Airport Runway Source: AEROCIVIL



Capurganá Airport Runway





# High and Sustained Growth

## Quibdó Airport

Runway total length: 1300 x 30 mts

### AEROCIVIL

Period	Investment (USD Million)	Description
2002-2006	3.83	Maintenance of the passenger terminal, runway, security areas, construction of closed areas, control tower, energy and water systems, earthquake resistant buildings, cleaning and maintenance of channels, administrative offices, drinkable water tank, fan & electric pump acquisition, adaptation of toilets for disabled people.
2007-2010	1.91	Maintenance of the administrative infrastructure, water systems and green areas, solid waste treatment, hydraulic infrastructure maintenance, air and noise monitoring program, acquisition of baggage carousels and metal detectors.
<b>TOTAL</b>	<b>5.74</b>	



Pista Aeropuerto Quibdó – Fuente AEROCIVIL



# High and Sustained Growth

Financial, legal and technical structuring of Rionegro, Medellín, Montería, Quibdó, Corozal and Carepa airports' integration and concession

## Quibdó Airport (detail)

Investment required: USD\$ 8.38 million

- New terminal construction
- Air conditioning system for waiting room
- Fire extinguishing equipment
- Boundary
- Fencing
- REIL lights
- Platform enhancement
- Change of platform to rigid concrete
- RESA for both extremes of the runway
- Draining systems maintenance
- Concession assignment date: January 2008



Quibdó Airport Runway – Source: AEROCIVIL



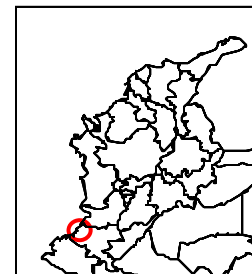
# High and Sustained Growth

## Timbiquí Airport (Cauca)

Runway length : 1000 x 15 mts

### Municipality

Period (4 years)	Investment (USD million)	Description
2002-2006	0.76	Improvement of the track and infrastructure maintenance
2007-2010	0.47 (estimate)	Extension of the track (1350 15 xs mts). Evaluation of construction of passenger terminal according to demand (Technical Support of Aerocivil)
<b>TOTAL</b>	<b>1.23</b>	



## López de Micay Airport (Cauca)

Track and runway length : 800 x 16 mts

### Municipality

Period (4 years)	Investment (USD)	Description
2002-2006	0.60	Track improvement
2007-2010	0.48 (estimated)	Track paving
<b>TOTAL</b>	<b>1.08</b>	



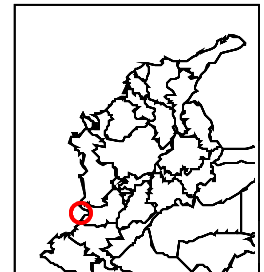
# High and Sustained Growth

## Buenaventura Airport (Valle)

Runway length : 1200 x 30 mts

### AEROCIVIL

Period (4 years)	Investment (USD million)	Description
2002–2006	1.9	Maintenance of water system, hydraulic and sanitary facilities, acquisition of meteorology and microwave stations, maintenance of luggage carousel, fire extinguishing equipment and metal detectors.
2007–2010	2.1	Maintenance of terminals, environmental studies, acquisition of systems, x-ray inspection machines and metal detectors, hiring of airport security and protection services, extension, maintenance and improvement of the airport infrastructure
<b>TOTAL</b>	<b>4.0</b>	

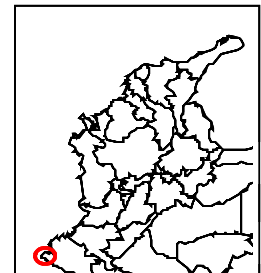


# High and Sustained Growth

## Tumaco Airport (Nariño)


Runway length: 1600 x 30 mts

Period (4 years)	Investment (USD million)	Description
2002–2006	2.3	Security zones maintenance, channel construction, seismic resistance works, terminal and boarding gate improvement, track maintenance, improvement of restroom and disabled facilities
2007– 2010	1.9	Terminal maintenance, maintenance of perimeters, environmental studies, acquisition of inspection equipment, X-ray and metal detectors, hiring of airport security and protection services, maintenance and improvement of the airport infrastructure
<b>TOTAL</b>	<b>4.2</b>	



# High and Sustained Growth

## Inland Waterway Transport Consolidation

Project	Total Investment (USD million)
Atrato and San Juan rivers	(Under study)
San Juan river – Bahía de Málaga – Bahía de Buenaventura channel	
Buenaventura bay and Tumaco bay channel*. 	



\* These projects were prioritized in the document “National Agenda for Competitiveness”

# High and Sustained Growth

## Colombian Pacific Waterways

- Waterways works in Bagrero Creek Currupí Channel
- Improve waterways connectivity in the “Pacífico Caucano”
- Studies to be updated and construction during the period 2007-2010








# High and Sustained Growth

## Information and Communication Technology:

- Expand the coverage of social telecommunication in rural and urban zones
- Provide access to information and communication technology to educational institutes in the region

## Specific Actions

- Connect to Broadband internet through Compartel: \$7 million.
  - 399 new schools and 33 new hospitals 
  - 19 city halls, 14 libraries and 7 Zonal Centers 
- Allow for 94 new places on digital literacy courses (SENA) 
- Create 567 Community Telecenters for the region 
- Benefit 707 schools with 8,764 computers, for a total of 877 institutes benefited and 10,906 units of equipment provided: \$ 6.3 million 

**Total resources: \$ 13.4 million**



# High and Sustained Growth

## Programs developed by the Ministry of Communication

- Compartel Social Telecommunications Program: program to expand the access to telephony and Internet services in rural and low-income urban zones
- “Computers To Educate”: program to offer access to Information and Communications Technologies in official educational institutions
- Budget for these programs in the pacific region: \$12.7 million for period 2007-2010



# High and Sustained Growth

## Connectivity in schools and hospitals:

Type of Institution	Department	2002 - 2006	2007-2010	Accumulated 2010	Estimated Investment 2007-2010
Official schools	Antioquia	4	4	8	59,802
	Cauca	14	91	105	1,360,495
	Chocó	105	170	275	2,541,583
	Nariño	25	82	107	1,225,940
	Valle	20	52	72	777,425
	<b>TOTAL</b>		<b>168</b>	<b>399</b>	<b>567</b>
Public hospitals	Antioquia *	0	0	0	-
	Cauca	3	0	3	-
	Chocó	5	24	29	358,812
	Nariño	1	9	10	134,555
	Valle	1	0	1	-
	<b>TOTAL</b>		<b>10</b>	<b>33</b>	<b>43</b>

\* According to the special registry of health services lenders there are no institutions in Murindó or Vigía del Fuerte

