



**National  
Infrastructure  
Agency**

# **INFRASTRUCTURE PROJECTS**

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***President - National Infrastructure Agency***

**Washington, December 2011**



# OUTLINE

- 1. Government Goals and Investment Levels**
- 2. Structuring Challenges**
- 3. New Concession Projects**



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# **1. GOALS AND INVESTMENT LEVELS**

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# GOALS

## **For the year 2014:**

- Roads: 100% increase in four-lane highways
- Railways: 50% increase in length of railways in operation
- Ports: 50% increase in load capacity
- Airports: 35% increase in passengers mobilized

## **For the year 2018:**

- Roads: Fourfold increase in four-lane highways
- Railways: Threefold increase in length of railways in operation
- Ports: 100% capacity increase
- Airports: 50% capacity increase



# SPECIFIC GOALS

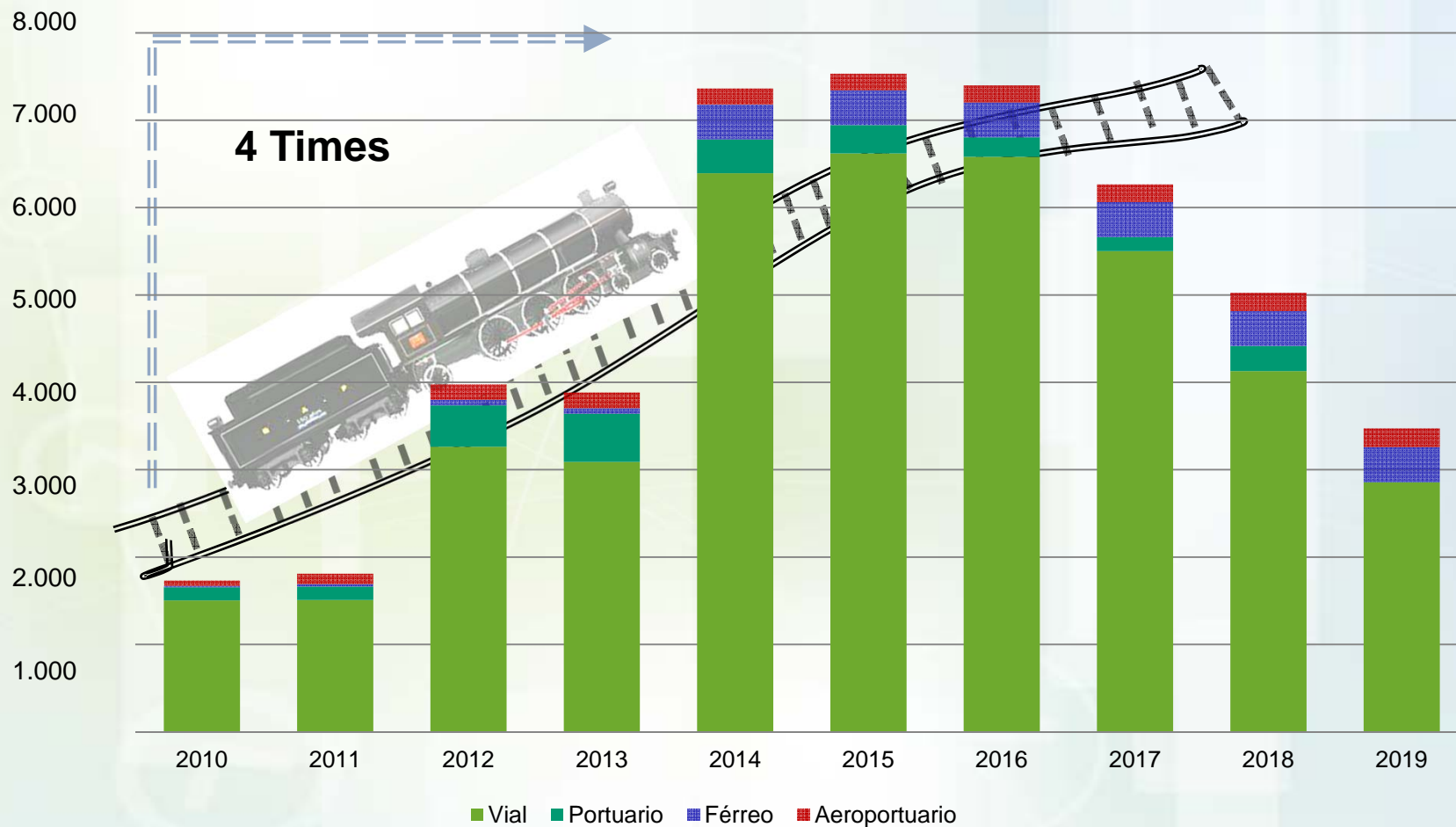
Indicator	Base 2010	Goal 2014	Goal 2018
Kilometers under concession	6.035	10.700	
Kilometers of four-lane highways	792	2.280	4.400
Kilometers of railways in operation	846	1.341	2.343
Volume of cargo at ports (million tons/ year)	131,8	182,0	253,8
Volume of cargo in railways (million tons per year)	35,8	56,8	90,3
Air transport users (million/year)	673,4	840	996,4



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# ESTIMATED INVESTMENT

ALL TRANSPORTATION MODES  
(USD\$ MILLION)

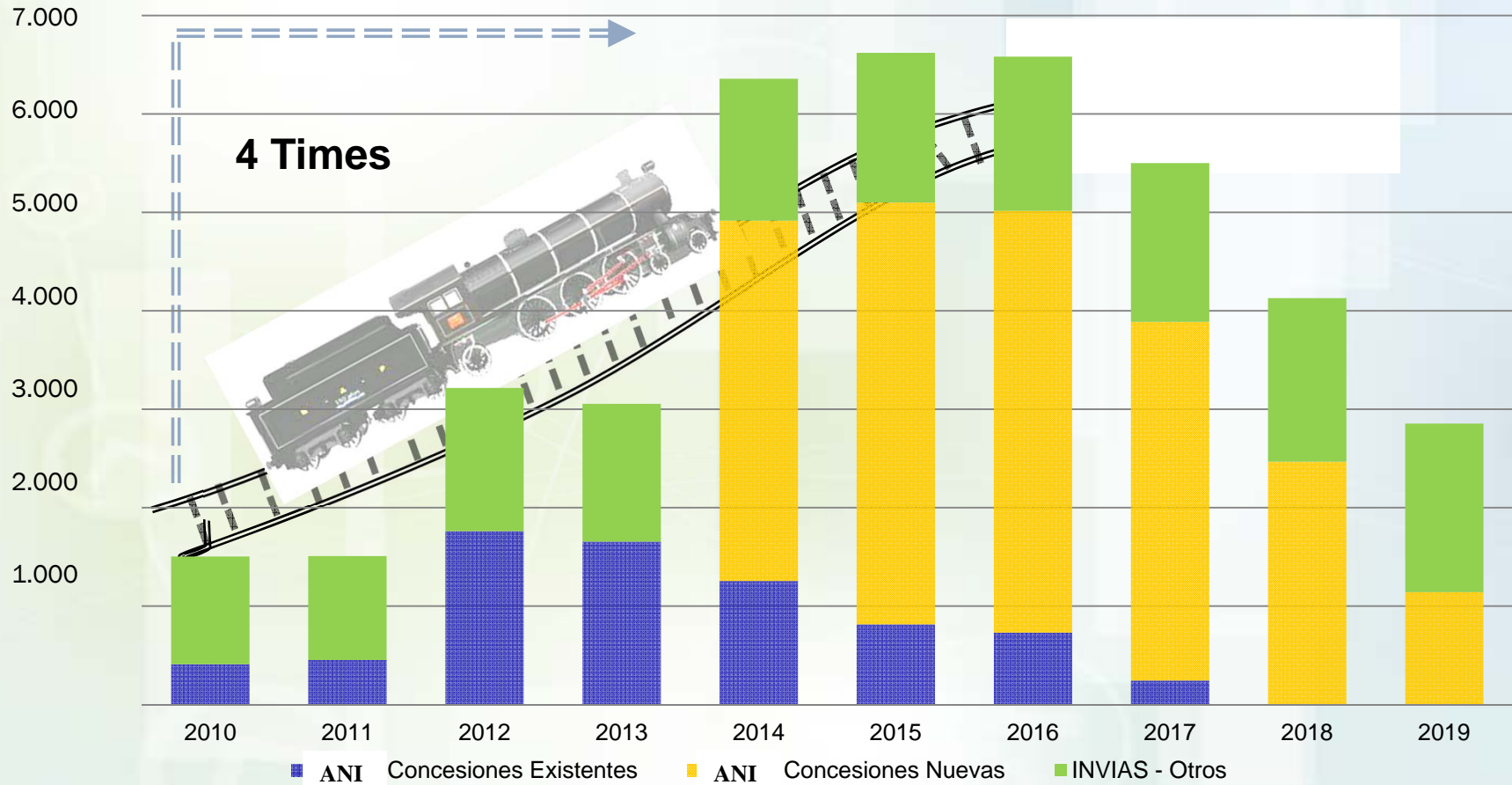




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# ESTIMATED INVESTMENT

## ROADS ONLY (USD\$ MILLION)





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## **2. STRUCTURING CHALLENGES**

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## **SERVICE STANDARDS**

- Levels of Service
- Satisfaction Ratings
- Accident Reduction Levels
- Payments for Availability
- Intelligent Transportation Systems (ITS) and Integrated Control

## **RISK MANAGEMENT**

- Land Acquisition/ Social /Environmental/ Geologic / Construction / Public service networks/ etc.

## **STRUCTURING PROCESS IMPROVEMENT**

- Improved Project Management
- Prior Engineering Studies and Designs
- Prior Studies on Land Acquisition, Social and Environmental issues



## **PROJECT FINANCING**

- Promoting the Participation of the Regions (use of mining and oil royalties)
- Appropriate Debt-Equity ratios
- Alternative Sources of Funding
- Participation of financial investors (e.g. infrastructure funds, pension funds)

## **EVOLUTION OVER TIME**

- Buy-back options before the end of the project.
- Promoting competition in case of additions to original contract

## **CONFLICT RESOLUTION TOOLS**

- Arbitration Panels
- Technical Expert Panels

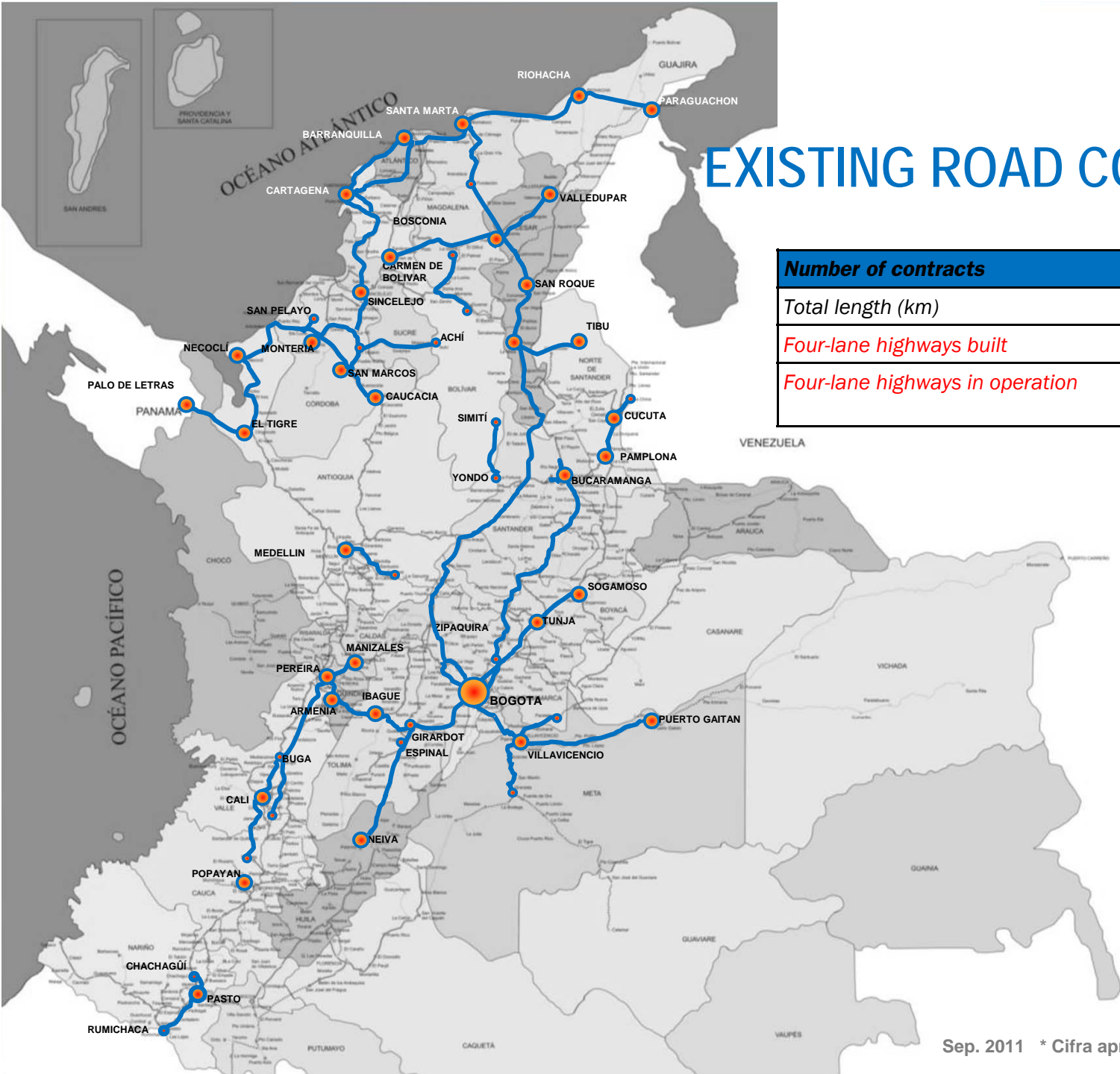


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# **3. NEW CONCESSIONS PROJECTS**

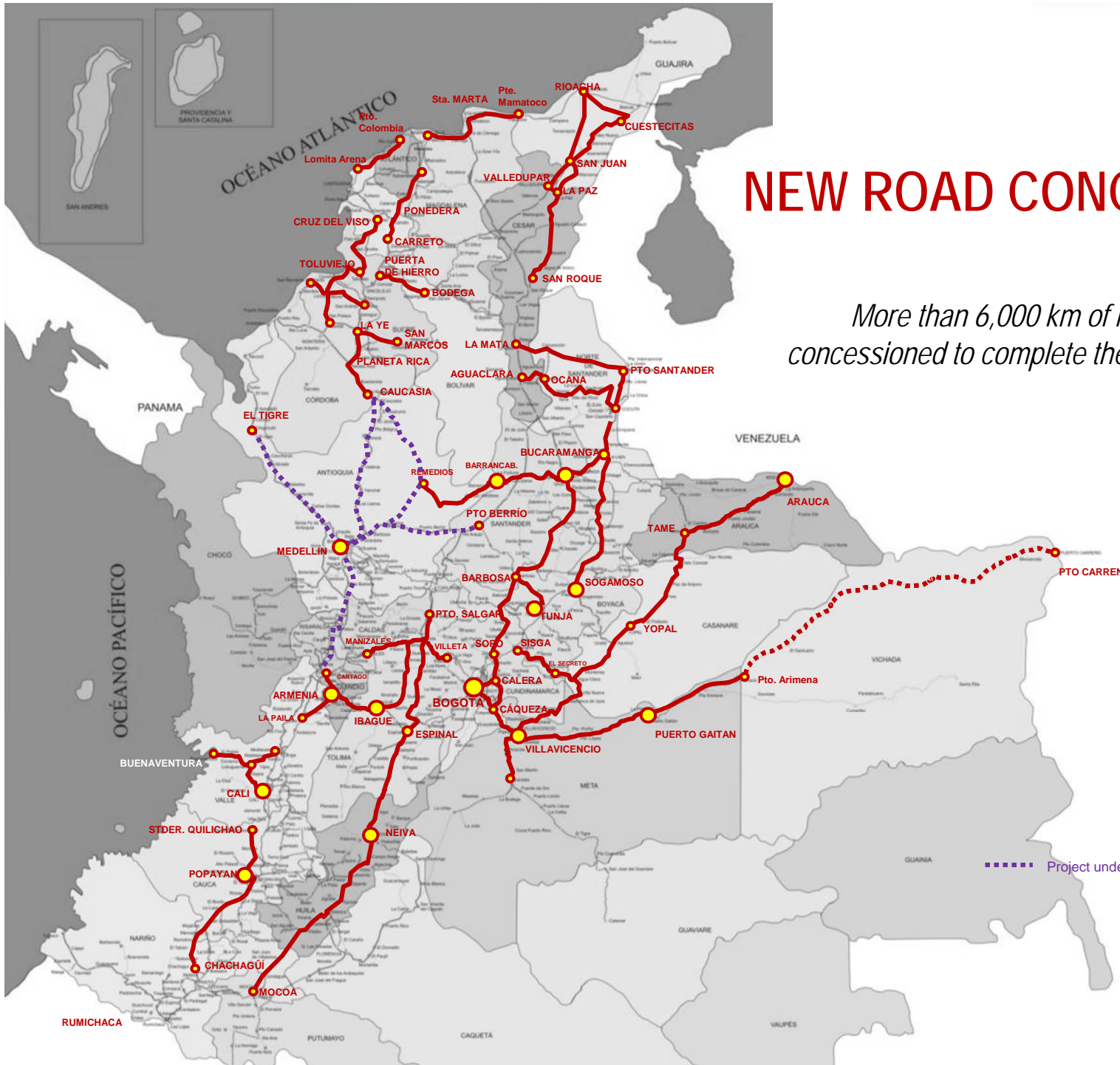
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# EXISTING ROAD CONCESSIONS



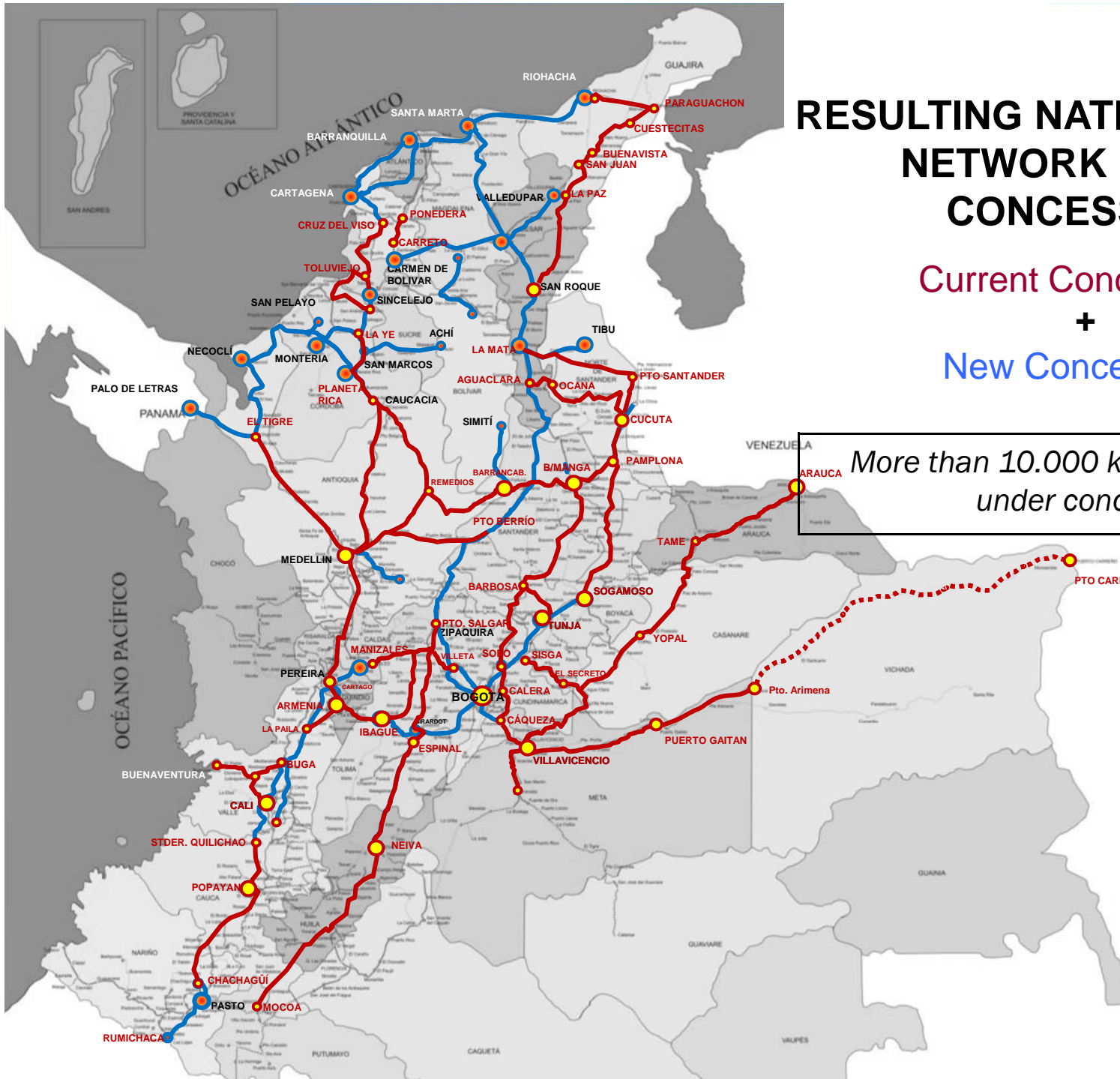
<b>Number of contracts</b>	<b>25</b>
Total length (km)	5800 km
<i>Four-lane highways built</i>	875 km
<i>Four-lane highways in operation</i>	670 km

Sep. 2011 \* Cifra aproximada



# NEW ROAD CONCESSIONS

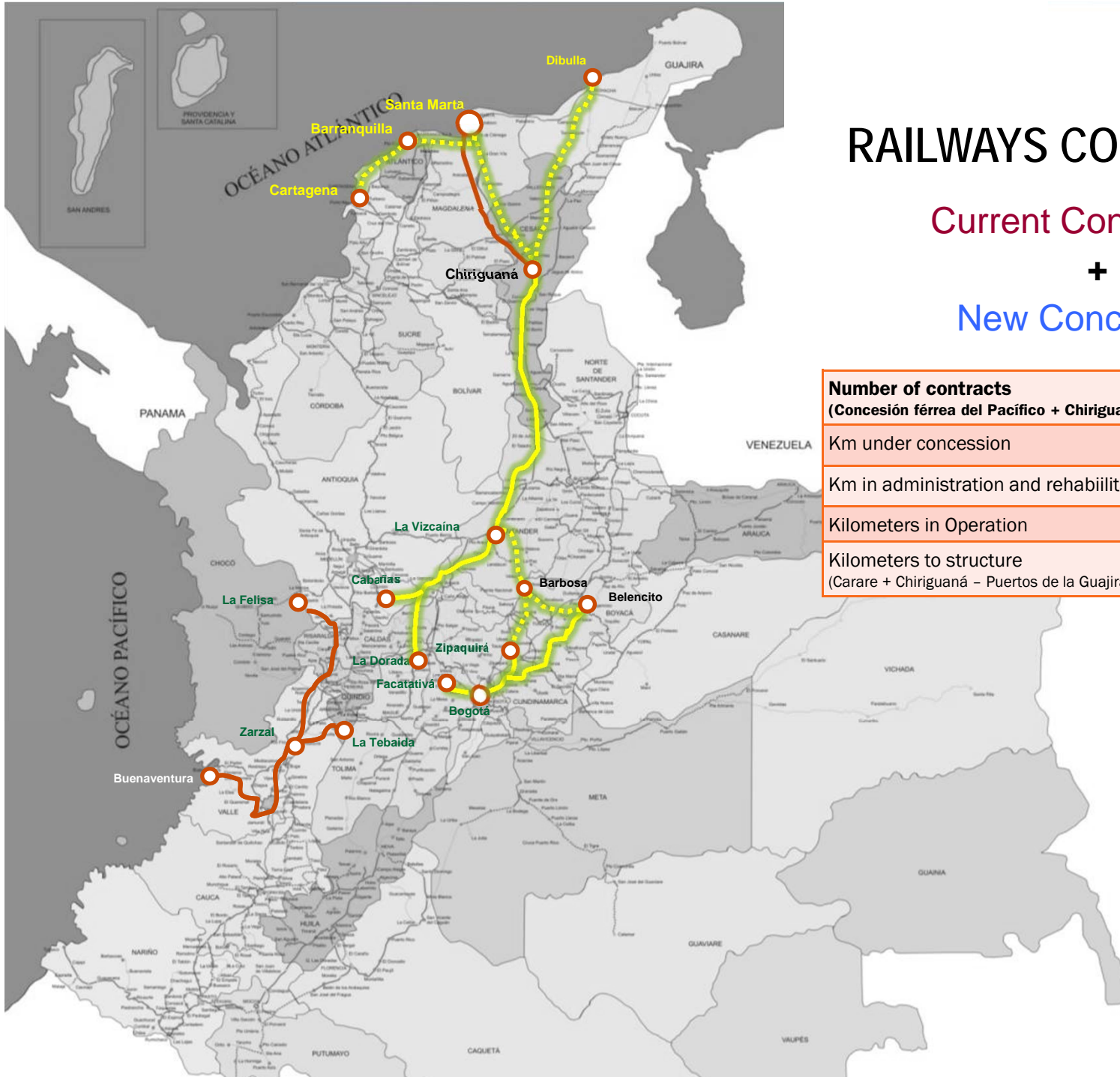
*More than 6,000 km of roads will be concessioned to complete the national network*



# RESULTING NATIONAL ROAD NETWORK UNDER CONCESSION

Current Concessions  
+  
New Concessions

*More than 10.000 kilometers will be under concession*



# RAILWAYS CONCESSIONS

Current Concessions

+

New Concessions

<b>Number of contracts</b> (Concesión férrea del Pacífico + Chiriguana – Santa Marta)	<b>2</b>
Km under concession	625 km
Km in administration and rehabilitation	980 km
Kilometers in Operation	625 km
Kilometers to structure (Carare + Chiriguana – Puertos de la Guajira)	753 km



# **STRUCTURING GROUPS**

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## 1. GIRARDOT – PTO SALGAR – IBAGUÉ CORRIDOR

Improvement of the roadway Girardot – Puerto Bogotá – Puerto Salgar. Construction Pto Bogotá-Pto Salagar

## 2. NEIVA – GIRARDOT CORRIDOR

Scope of intervention to be defined by the Traffic Demand Study.

## 3. MOCOA – NEIVA CORRIDOR

Scope of intervention to be defined by the Traffic Demand Study.



Victoria Temprana

Nuevo Proyecto

Concesión Existente Carretero

Concesión Vigente Férreo

Concesión a Estructurar Férreo



## GROUP 2. CENTRO - OCCIDENTE

### 1. IBAGUÉ - LA PAILA

- ★ Four-lane highway Ibagué - Cajamarca and Calarcá - La Paila

### 2. BUGA - BUENAVENTURA

Four-lane highway Buga-Mediacaño. Logistic Solution, maintenance and operation of Citronela - Port of Buenaventura. Rehabilitation and maintenance of Cali - Dagua - Loboguerrero. (40km)

### 3. SANTANDER DE QUILICHAO - CHACHAGÜI

Scope of intervention to be defined by the Traffic Demand Study.



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**★ PERIMETRAL DE ORIENTE DE CUNDINAMARCA CORRIDOR**  
Improvement of Caqueza - Choachí - Calera - Sopó roadway and secondary roads to Bogotá

**2. BOGOTÁ - VILLAVICENCIO**  
Four-Lane highway in priority sectors (K0 - K33 y K65 - K85)

**3. VILLAVICENCIO - ARAUCA CORRIDOR**  
Scope of intervention to be defined by the Traffic Demand Study. Includes the Sisga Transversal Roadway (Chocontá - Guateque - El Secreto - Aguacalara) (137km)

**4. MALLA VIAL DEL META**  
Scope of intervention to be defined by the Traffic Demand Study. The awarding of the a new concession will be done when actual concession contract ends.

**5. PUERTO LOPEZ - PUERTO GAITAN - PUERTO CARREÑO**  
Scope of intervention to be defined by the Traffic Demand Study



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## GROUP 4. NORTE

- 1. VIAL DEL CARIBE CORRIDOR (657km)**  
Troncal de Occidente, Via al Mar, Via la Cordialidad.
- 2. MAINTENANCE AND REHABILITATION CORRIDOR (295km)**  
Improvement, rehabilitation and routine and periodic maintenance to meet service level standards
- 4. CESAR – GUAJIRA CORRIDOR (377km)**  
Scope of intervention to be defined by the Traffic Demand Study. San Roque – La Paz – San Juan – Cuestecitas. Four-lane highway Valledupar–La Paz and Valledupar – San Juan
- 5. CARTAGENA – BARRANQUILLA CORRIDOR (110km)**  
Scope intervention to be defined by the Traffic Demand Study





## GROUP 5. CENTRO - NORORIENTE

### 1. BOGOTÁ – CÚCUTA CORRIDOR

Scope of intervention to be defined by the Traffic Demand Study. Includes Duitama – Malaga – Pamplona and Bucaramanga – Barrancabermeja - Remedios

### 2. MANIZALES – HONDA – VILLETA CORRIDOR

Scope of intervention to be defined by the Traffic Demand Study.

### 3. NORTE DE SANTANDER CORRIDOR (220km)

Scope of intervention to be defined by the Traffic Demand Study. Includes Cúcuta – Ocaña, Cúcuta - Puerto Santander y Tibu – Convención – La Mata.



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## 1. SISTEMA FERROVIARIO CENTRAL

- Diagnostic and analysis of existing corridor
- Traffic demand Study
- Ferrocarril del Carare Study
- Chiriguana - Puertos del Caribe Study

## 2. CORREDOR FÉRREO MULTIPROPÓSITO DEL CARIBE (200 Km)

- Scope intervention to be defined by the Traffic Demand Study.
- The first phase of project would connect the cities of Sta. Marta, Barranquilla y Cartagena.





## AUTOPISTAS DE LA MONTAÑA

Four-Lane Highways	Lenght (Km)
• Túnel De Occidente - El Tigre	338
• Don Matías - Caucasia	251
• San José del Nus - Puerto Berrío	77
• Camilo C. - Tres Puertas	234
<b>Subtotal Construcción</b>	<b>900</b>
Manteinace and Operation Sectors	Lenght (Km)
• Túnel De Occidente - El Tigre	401
• Hatillo - Don Matias - Caucasia	284
• Bello - San José de Nus - Puerto Berrío	186
• Ancón Sur - Tres Puertas y	380
• Variante Irra - La Virginia	380
<b>Manteinace and Operation Sub- total</b>	<b>1251</b>



# Prosperidad para todos

**THANKS**

NATIONAL INFRASTRUCTURE AGENCY

[WWW.ANI.GOV.CO](http://WWW.ANI.GOV.CO)



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