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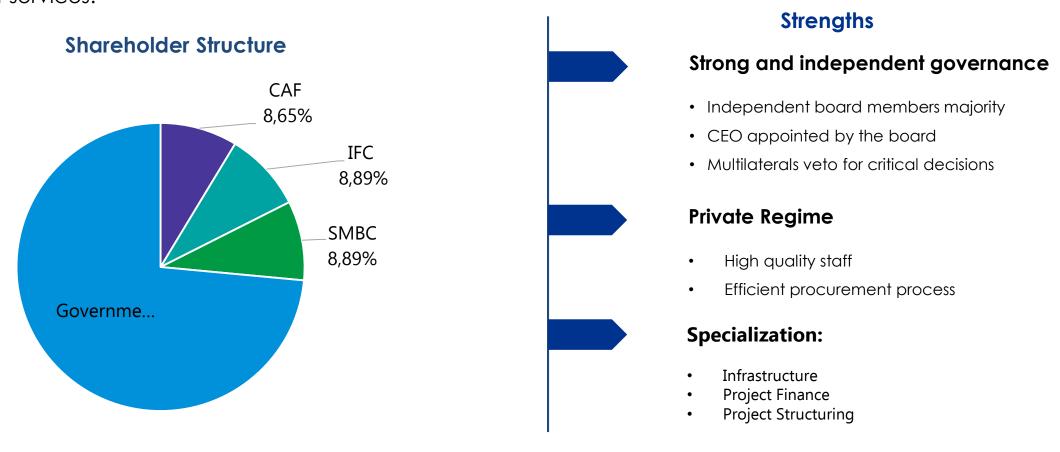
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FDN – A new type of Development Bank

- Partially public sector owned, linked to Ministry of Finance and Public Credit.
- NBFI license that allows FDN to invest in debt and equity, and to offer investment banking and trust services.





FDN – dual role in the development of infrastructure

Advisory services

- 9 projects under structuring worth USD 8.1 BN
- Sectorial Plans: PMTI; PER

Bogota's Metro: USD 4.6 BN



Hospital Infrastructure Bogota's Program: USD 500 MN



Light rail transit calle 80 Medellín: USD 966 MN



Educational infrastructure Program: USD 90 MN



Financial services

 4G road infrastructure program: supporting 16 projects with USD 1.58 BN

> Senior Debt USD 1,070 MN

Liquidity Line USD 296 MN

Equity Guarantees USD 193 MN

Capital markets
USD 21 MN

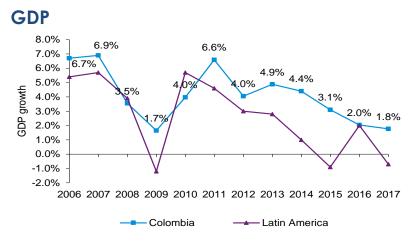
- Other sectors: USD 439.4 MN committed
 - Urban mobility: USD 21,7 MNSocial projects: USD 100 MN
 - Airports: USD 63.3 MN
 - Oil & Gas projects: USD 20.1 MN
 - Roads different from 4G program: USD 100 MN
 - Energy: USD 134.3 MN

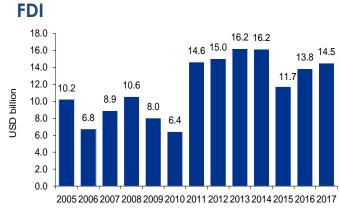


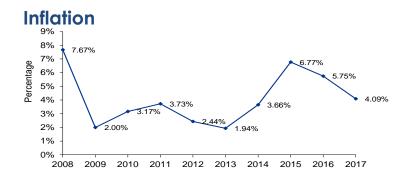
Colombia as an investment destination

- Controlled, one digit inflation since 1999 near Central Bank target rate
- Balanced GDP growth, above the region's average
- FDI recovery after a 2015 low point (commodities crisis), currently 126% above 2010 level
- Doing Business Report ranks Colombia as the 59th best country for doing business and third in LATAM

Latin America - Best countries to do business			
Country	World ranking 2017		
Mexico	49		
Peru	58		
Colom bia	59		
Costa Rica	61		
Puerto Rico (U.S.)	64		
Jam aica	70		
El Salvador	73		
Panam a	79		
St. Lucia	91		
Uruguay	94		
Guatem ala	97		
Dom inica	98		
Republica Docim inicana	99		
Trinidad y Tobago	102		
Antigua y Barbuda	107		
Paraguay	108		
Honduras	115		







Source: Colombian Central Bank, 2017 Doing Business Report



Infrastructure in Colombia

Existing national concessions

National road Railroad concessions concessions

Port concessions concessions

Airport

In addition:

Road concessions awarded in the last 5 years worth

USD 18 billion

Future investment plans (Estimated investment up to 2035)



USD 61 billion Road network intervention USD **5.3** billion 31 Airport projects USD 3.6 billion

Railway rehabilitation

USD 18 billion

Investment in healthcare

USD 34 billion

Investment in education, justice and housing

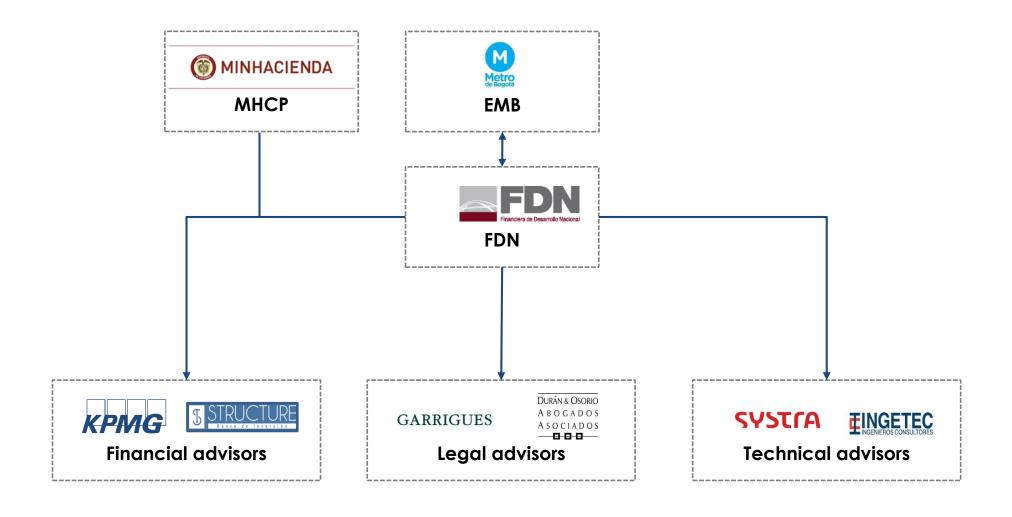
USD 20 billion

Investment in other sectors (water, waste treatment, energy, fluvial)



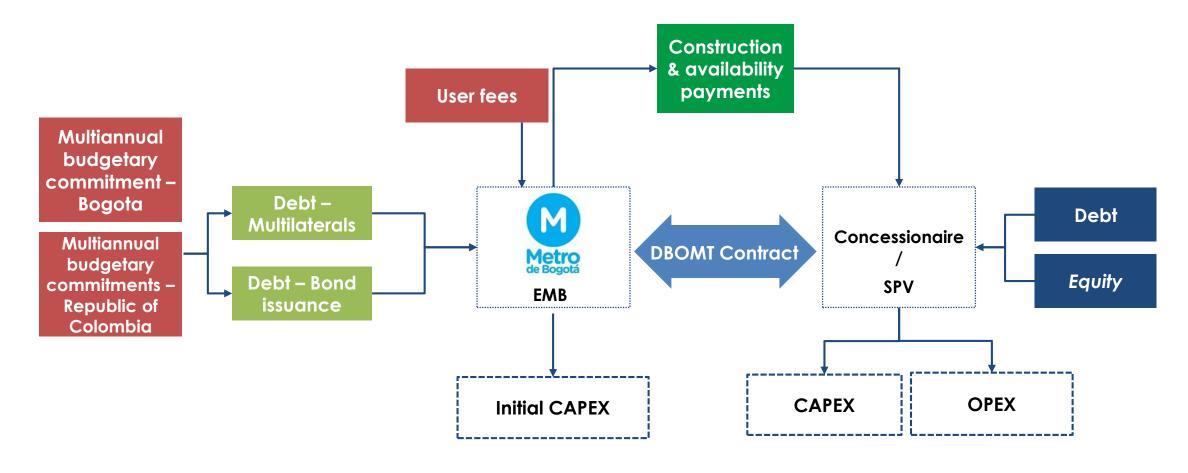
Project team

EMB and FDN signed an agreement to perform the project's structuring.



RECOMMENDED DEAL STRUCTURE





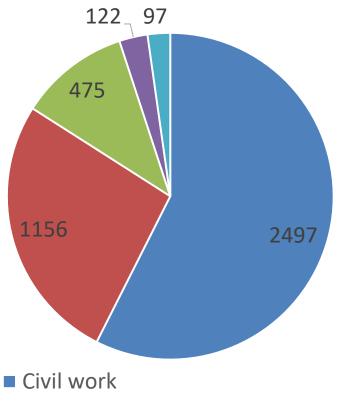
- -Multiannual budgetary commitments from the Republic of Colombia also have a sovereign guarantee
- —Given the project's CAPEX requirements in its initial years and the long term schedule of the future commitments, the Nation's budgetary commitments will be used to raise debt assumed by EMB

TOTAL CAPEX OF THE PROJECT



CAPEX summary	USD million	
Direct investments executed by EMB		
Land	475	
Public service network transfer	97	
PMO/Auditing	122	
Total direct investments EMB	694	
Investments executed by the concessionair	·e	
Civil work	2.497	
Rolling stock and railway systems	1.156	
Total investments Concessionaire	3653	
Total CAPEX	4.347	





- RS and Railway systems
- Land
- PMO / Auditing
- Public service network trasnfer

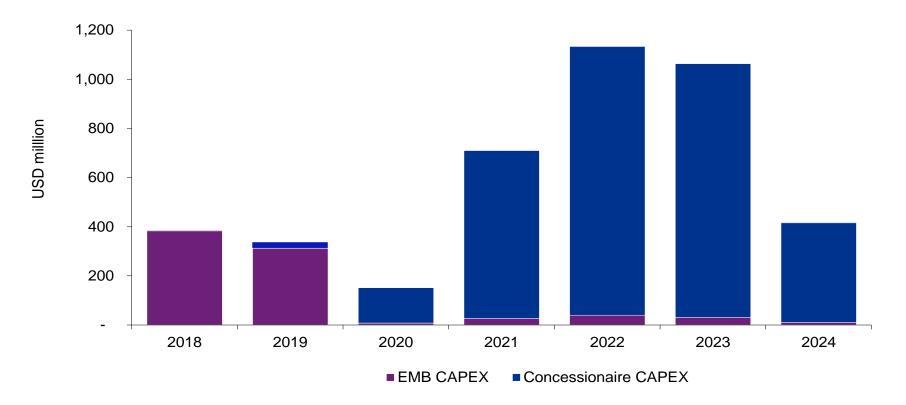
PROJECT INVESTMENT FLOW



Estimated investment

- Initial investments will be made by EMB land acquisition and public utilities networks relocation- in accordance with a predefined schedule done by EMB
- Remaining investments will be made by the Concessionaire

CAPEX - S Curve



Source: Systra/Ingetec

*Values in constant 2017 prices

**COP/USD rate: 3.000

FUNDING OF THE CAPEX



Name	Ref.	Estimated value (USD billion)	
Total CAPEX		4.3	
CAPEX by EMB	1	(0.7)	
CAPEX to be executed by the concessionaire		3.6	
Cash payments by EMB	2	(2.5)	
CAPEX to be covered by the concessionaire after cash payments		1.1	
Concessionaire's debt	3	(0.8)	
Concessionaire equity	4	0.3	

Summary of referenced items

- 1. CAPEX by EMB: includes land acquisition, public utilities networks relocation, PMO and works supervision.
- 2. Cash payments by EMB for USD 2.5 billion:

Represent an estimated 70% of the concessionaire's CAPEX:

- Multilaterals (IADB, BIRF, EIB): USD 1.7 billion
- Bonds, other multilateral loans, bilateral loans, local development bank loans: USD 0.8 billion
- **3. Concessionaire's debt:** represents an estimated 22% of the concessionaire's CAPEX
- **4. Concessionaire's equity: r**epresents an estimated 8% of the concessionaire's CAPEX

EMB'S AND CONCESSIONAIRE'S ROLE



EMB's role

- EMB receives resources from the Government of Colombia for USD 5.0 billion and USD 2.4 billion from the city of Bogota D.C between 2018 and 2048
- EMB will perform the following:
 - Debt raising, backed by the Republic of Colombia's multiannual budgetary commitment:
 - Multilaterals (IADB, BIRF, EIB) for USD 1.7 billion
 - Bonds, other multilateral loans, bilateral loans, local development bank loans: USD 0.8 billion
 - Bogota's multiannual budgetary commitment will be used for direct investments for USD 0.78 billion, payment of certificates (TPE, Título de Pago por Ejecución) and availability payments.
 - Concessionaire payments:
 - Construction phase: EMB will make cash payments and issue TPEs
 - During the O&M stage, EMB will compensate through availability payments

Concessionaire's role

- The concessionaire will execute an approx. CAPEX of:
 - Civil works: USD 2.5 billion
 - Rolling stock and railway systems: USD 1.1 billion
- The concessionaire will need to raise around USD 1.1 billion in equity and debt.
- The concessionaire will perform the operation and maintenance activities, which represent an average annual OPEX of around USD 90 million
- The concessionaire will receive an annuity during O&M, subject to discounts for availability and performance (quality indicators)
- The concessionaire will not undertake demand risk nor will be responsible for the ticketing

CONTRACT CHARACTERISTICS

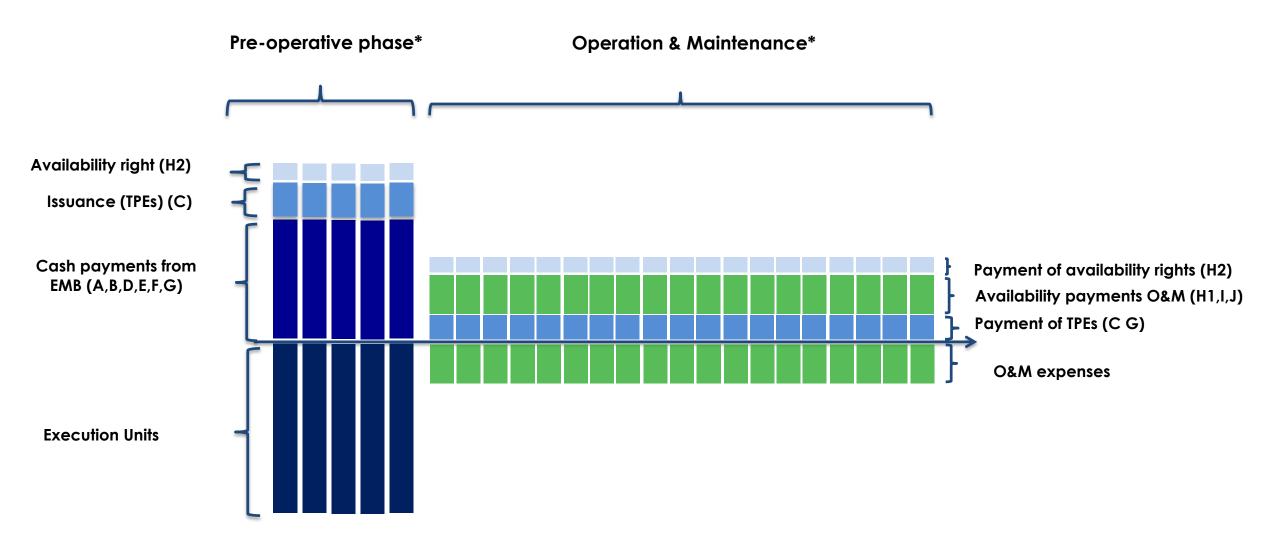


Payments to the concessionaire

- The design, construction, provision of rolling stock and installation of equipment will be divided into execution units (EU)
- Payments will be performed after the concessionaire proves that the EU is completed
- The following activities will be paid in cash
 - 1) An approval of an EU will generate a cash payment (A) (USD 1,5 billion)
 - 2) Some EU, such as rolling stock and electromechanic systems will be paid directly in US dollars /Euro to the concessionaire (B) (760 million)
 - 3) Traffic Management, Signaling and Detour Plan will be accordingly distributed in cash to the progress of the works during the pre-operative phase (F) (USD 15 million)
 - 4) For the following activities the payment will be made as fixed unit prices multiplied by the quantities of work effectively executed
 - Minor utilities networks relocation works, roads repair to be used during traffic management and building demolitions (D) (USD 90 million)
 - Buildings construction that will serve as access to the stations of the PLMB (E) (USD 120 million)
- An EU approval will also generate a payment with a certificate to be paid from 2025-2048 with an annuity TPE, independent from the operation performance (C and G) (USD 780 million)
- During operation, availability payments to the concessionaire will be made in cash (COP) subject to performance indicators (H1, H2,I,J)

CONTRACT CHARACTERISTICS





^{*} This is an indicative structure, this does not mean that the total value of the CAPEX or OPEX is going to be the same during all years

TPE (Título de Pago por Ejecución)



Characteristics

- Autonomous: Without deductions or withholdings
- Unconditional: Semiannual payments, February 2025 2046 (44 payments)
- Irrevocable: Irrespective of early terminations, suspensions, illegality or administrative resolution or any other circumstance related to it

Payment of TPE is, therefore, not conditioned to completion of construction or performance of the concessionaire.

MAIN PROJECT RISK ALLOCATION



• From a total of 24 risk, the main project risks are:

Risk	EMB	Concessionaire
Financing risks	Х	X
Design risk		Х
General construction risk		х
Construction risk related with access buildings**	Х	
Costs associated to construction stand by*	Х	X
Commercial risk	Х	
Variations in user's fares	Х	
Land availability and acquisition risk	Х	
Construction risk associated to the intervention and maintenance of the roads required for the detour plan **		
Construction risk related to the relocation of public utility networks**	Х	

^{*}Stand by event due to force majeure. Does not include lost profit.

^{**}In particular, variations on quantities of each predefined item. Predefined prices of each item are in charge of the concessionaire

CONTRACT PHASES



Pre operative phase (6 years)

Preliminary Phase

Construction phase

Test and tuning phase

O&M Phase (21 years)

- —Achieve and prove financial close
- ConstructiondesignConstruction
- -Construction of some civil works

- -Construction
- Rolling stock procurement
- Individual and joint technical tests to verify that rolling stock and railway systems work properly
- Infrastructure, rolling stock and railway system operation
- —Reversion of the infrastructure

Tender process activities



Approval of the MDB First Loan



Procurement policy

Expressions of Interest

- Draft and publishing of the Project Term sheet
- Comments to the term sheet and request for expressions of interest made by MDB
- Term sheet feedback from the marketRoadshows
- Draft of Prequalification documents
- Annex 1 of the Term Sheet is a description of the Project. Not the technical specs.

Prequalification

- No-objection to the prequalification final documents
- Market comments to the final documents
- Submission of request for Prequalification application and prequalifieds selection

Competitive dialogue

- Feedback with the prequalified regarding the draft of the contract and Project's technical and financial characteristics
- Identification and development of additional technical studies (at the expenses of Bidders)
- It is a joint collaboration to refine the Project. It is not a competition between the prequalified

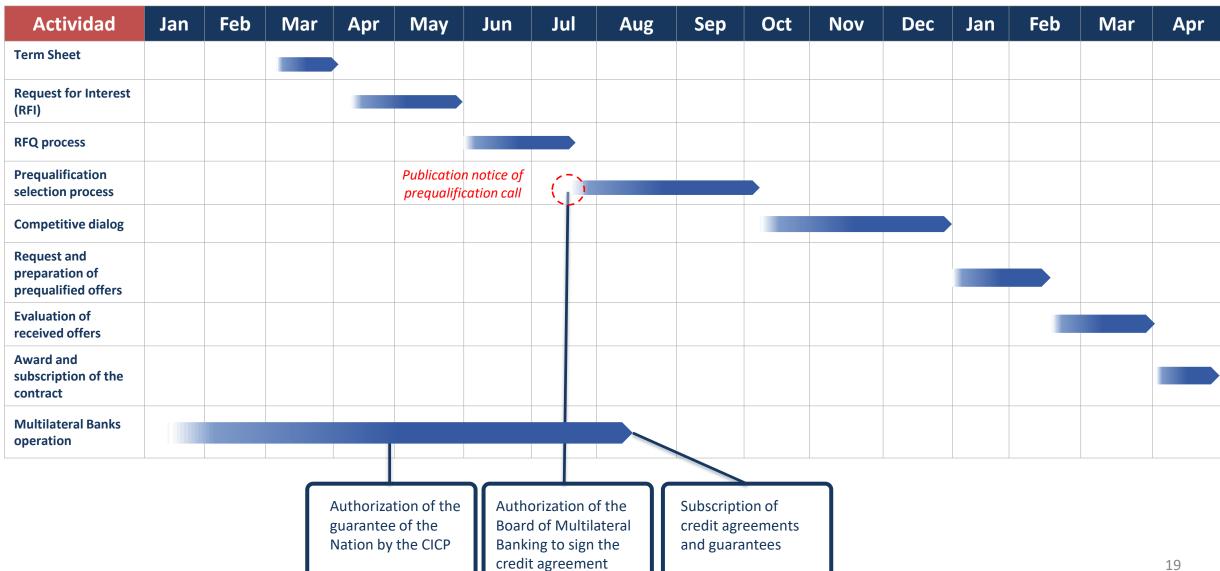
Tender process

- Publishing of the Final bidding documents (prior No-objection)
- Prequalified's presentation about its bid of scored requirements and others
- Contract award (prior No-objection)

BIDDING PROCESS



Schedule



Financiera de Desarrollo Naciona

BIDDING PROCESS – FINANCIAL AND TECHNICAL REQUIREMENTS FOR THE RFQ

Only "Leaders" can certify experience for the RFQ Process, except for the experience related to rolling stock, operation and signaling systems

A Leader/s is a member of the bidder that has a minimum participation of 25%. There could be more than one Leader

Financial requirements

Equity Indicators

- Simple sum of the equity value from leaders (USD 1,750 million)
- Minimum equity value for at least one leader (USD 834 million)

Financing Indicators

- Simple sum of financing values for maximum 4 PPP/concession projects (Project Finance modality) (USD 1,467 million)
- Minimum amount raised for one PPP/Concession project (Project Finance modality) (USD 1,095 million)

Technical requirements*

Experience in:

- Integration of components of metro systems
- Detailed engineering
- Metro-type viaduct construction
- Manufacturing and commissioning Rolling Stock
- Signaling system and automatic train control (CBTC Communication Based Train Control)
- Operation experience

