SECOND WORKSHOP ON Public-Private Partnerships (PPP's)

Local financing of PPP projects: The Chilean experience

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Infrastructure PPP's in Chile (Concessions)

- Started by the Chilean Ministry of Public Works in 1993.
- Stems from the need to revert the historic shortage of infrastructure of the country.
- Until August 2005, the concessions system involved investments for US\$7.1 billions in 48 projects.

Concession	Investment (US\$ billions)
Highway "Route 5"	2.3
Other interurban projects	1.9
Airports	0.3
Urban highways	2.1
Other	0.5
Total	7.1

Source: Public Finances Report 2006 – Ministry of Finance

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Infrastructure PPP's in Chile (Concessions)

- The main financial aspects of concessions are:
 - □ The fixed assets involved are non-transferable.
 - □ The project life spans range from 20 to 30 years.
 - The different players (sponsors, concessionaires, insurance companies, investors, banks, independent consultants, rating agencies) who participate in the process have to agree in the financing model.
 - They require a deep and developed capital market capable of providing a long term financing.

Chilean Capital Market Features

- Deep and diversified capital market.
- Availability of long term financing.
- The stock of financial instruments in the market amounts to US\$177 billions (march 2005):
 - □ Stocks (market value): US\$118 billions
 - Corporate Bonds:
 - □ Central Bank Issuances: US\$21 billions

US\$13 billions nces: US\$21 billions

- Other (government instruments, other private bonds, etc.): US\$25 billions
- Daily transactions of fixed income instruments at the Santiago Stock Exchange average US\$500 millions.
- Pension funds manage a US\$61 billion portfolio, while insurance companies hold US\$18 billions (2004).

Sources: SVS, SAFP

Adjustments to the Normative

Related regulations were adjusted to facilitate the financing of this type of projects.

- General Banking Law (DFL N°3) (1997)
 - Art. 84 N°1.- Banks are allowed to grant loans for up to 15% of their effective net worth for the purpose of financing state public works carried out through the method of concession. Additionally, banks may grant such loans up to 25 % of such net worth, if the excess over 5 % is backed by real guarantees, stand by notes from reputable banks or other documents that meet specified requirements.

Adjustments to the Normative

Pension System's Law (D.L. N°3.500) (1994)

Art. N°45.- Allows the pension funds to invest in stocks issue by open real state corporations.

Insurance Companies' Law (D.F.L. N°251) (1994)
Art. N°21.- Allows insurance and reassurance companies to invest in stocks issued by concessionaire companies, for technical reserve and risk equity purposes.

Adjustments to the Normative

Securities Market Law (Law N°18.045) (1999)

Art. 135.- Allows the securitization companies to acquire credits and rights over cash flows from public works or from the concessions of these assets or works.

Tax matters:

- VAT Law: VAT recovery in stages of construction and exploitation.
- Tax on earnings law: Adds special rules about amortization of assets and calculation of the taxable base amount of the concessionaires.

Financing

- There are three types of local financial players that can participate in the financing of public-private partnerships (PPP):
 - Investment Companies: as partners with construction companies.
 - Banks: providing short term financing for the construction and try-out stage.
 - Institutional investors: Buying infrastructure bonds or shares on investment funds, or acquiring direct participation as shareholders.

Financial Sources

- Capital.
- Bridge loans: paid with the proceeds of the placement of bonds.
- VAT recovery from the Ministry of Public Works.
- Bonds.
- Toll fees.
- Subsidies.

Financial Sources

	Concession 1		Concession 2		
Source	(MMUS\$)	%	(MMUS\$)	%	
Bond Issues	552	58,4%	442,5	65,6%	
Capital	87	9,2%	72,2	10,7%	
Subordinate Debt	121	12,8%	91,1	13,5%	
Financial Income	3	0,3%	6,3	0,9%	
Toll fees	159	16,8%	51,3	7,6%	
VAT	24	2,5%	11,3	1,7%	
Total	946		674,7		

Source: Concessions prospects.

Distribution of Project Risk

- Risk is distributed among the various agents involved: State, concessionaire, creditors.
- If the risk is non-diversifiable, then the State assumes part of the risk
- The main risks are:
 - □ Cost overrun
 - □ Time overrun
 - □ Reduced level of demand (diminished revenues)
- The State can reduce project risk and make these projects more attractive in two ways:
 - □ Potential subsidies.
 - Sharing risk. The Chilean State has chosen this option through compensations and guarantees.

Guaranties

Guaranteed Minimum Income

- This state-given guaranty is triggered when the annual income projections by the concessionaire do not meet the amount agreed upon in the bidding prospect.
- □ When the project yields are higher than those stated in the contract, the concessionaire must share the excess with the State.
- Another alternative is to use mechanisms of minimum income bands.
- The net value of future fiscal commitments reaches US\$174 millions for the whole set of current concessions.

Guaranties

Exchange Hedging Mechanism

□ It is a guaranty that helps concessions to handle the volatility in the exchange rate.

- □ The mechanism limits the exchange risk faced by the concessionaire, transferring to the State the profits or losses.
- □ Presently, only two concessions are covered by this mechanism.
- The present value of these flows reaches US\$37 millions in favor of the State.

- Instrument issued by the concessionaire and purchased by institutional investors (AFP's, insurance companies).
- The bond's risk rating is critical, since AFP's can only invest in assets classified as "investment grade". (rating better than or equal to BBB-).
- The issue can be made in the pre-operative period ("project finance"), or when the concession is in operation.

- A typical bond issue is characterized by:
 - □ Issuer: concessionaire.
 - Use of funds: payment of bridge loan; bond issuing and allocation expenses; construction, maintenance and operation costs of the project.
 - □ Acceptable Risk Rating allowing AFP's to invest.
 - □ Financial insurance for bonds.
 - □ Guaranties: special second grade pledge supporting the fiscal public work, legal guaranty, commercial guaranty.
 - Causes of early maturity: bankruptcy, failure of the issuer or the insurer.
 - Full payment of the bond in advance: By expropriatory action or by event that produces total or partial loss.

- Characteristics of projects getting investment grade rating:
 - □ Short term of construction.
 - □ Low technological risk.
 - □ Conservative construction calendar.
 - Adequate experience from contractors and suppliers and good capacity for fulfilling their obligations.
 - Easiness to get permits and expropriations.
 - □ Country's political stability.
 - □ Low environmental impact.
 - □ Adequate legal structure.
 - □ Proper insurance coverage.



Structure of Bonds Demand

Type of Investor	Demand	Weight in investor's portfolio
AFP's	47%	1,4%
Insurance companies	44%	3,8%
Other (Investment Funds, etc.)	9%	
Total	100%	

- To improve the credit profile of the issue, third parties can join through:
 - Capital insurance
 - Accepting the risk of no payment in exchange for a commission. This allows a better risk rating for the bond.
 - At the present time, all issues, with only one exemption, are supported by this type of guaranty.

□ Securitization

- Isolates the risk of assets or rights from the risk of the owner of those assets or rights.
- Securitizable rights: cash flows from toll fees and subsidies from State.
- Presently, there is only one bond securitization issue, associated to the Penitentiary Infrastructure Group 3 project, for US\$140 millions.

Bond Allocations

ALLOCATION DATE	ISSUER	RATING	MATURITY (YEARS)	AMOUNT (US\$ millions)	INSURER	INTEREST RATE
November – 98	Talca – Chillán	AAA	9.5	152,9	MBIA Insurance	8.15%
December – 98	SCL	AAA	14.0	213,0 (*)	MBIA Insurance	6.95%
August – 00	Ruta de la Araucanía	AAA	20.0	199,3	XL Insurance	7.42%
March – 01	Autopista del Bosque	AAA	20.5	208,0	XL Insurance	6.38%
August – 01	Autopista del Maipo	AAA	21.0	421,0 (*)	MBIA Insurance	7.37%
April – 02	Rutas del Pacifico	AAA	12.0	25,0	Financial Assurance (**)	5.5%
April – 02	Rutas del Pacifico	AAA	23.0	261,0	Financial Assurance (**)	6.02%
May – 02	Autopista del Sol	AAA	16.0	138,2	Financial Assurance	6.35%
April – 03	Los Libertadores	AAA	14.0	49,8	XL Capital Assurance	5.78%
April – 03	Los Libertadores	AAA	7.0	37,3	XL Capital Assurance	4.00%
July – 03	Variante Melipilla	AA	21.8	15,8		6.49%
December – 03	Autopista Central	AAA	23.0	367,0	MBIA Insurance	5.3%
December – 03	Autopista Central	AAA	23.0	250,0 (*)	MBIA Insurance	6.22%
December – 03	Costanera Norte	AAA	21.0	220,2	Ambac Assurance (**)	5.67%
December – 03	Costanera Norte	AAA	12.0	48,0	Ambac Assurance (**)	5.22%
June - 04	V. Norte Express	AAA	24.5	427,7	MBIA insurance	5.22%
October – 04	Autopista del Maipo	AAA	21.0	159,6	MBIA Insurance	4.69%
November – 04	Vespucio Sur	AAA	24.0	146,2	XL Capital Assurance	4.6%
November – 04	SCL	AAA	15.0	86,9	MBIA Insurance	4.19%
June - 05	Talca – Chillán	AAA	14.5	170,7	MBIA Insurance	3.04%

(*) Issue currency: USD. All other issues are in UF (Chilean inflation-readjustable money unit).

(**) Sponsored by the Interamerican Development Bank.