FIAR



The contribution of private pension systems to long-term savings and economic growth

"Contribution of insurance and pensions to growth"

Special OECD anniversary roundtable

Mexico City, June 9th, 2011

Outline

- I. Background to pension reforms
- II. Impact on economic growth
- III. Main challenges

I. Background to pension reforms

I.1 Cases of DB to DC reforms since 1981

			Type of syst	em
Country	year	Unique	integrated	in competition
Latin America				
Chile	1981	•		
Peru	1993			•
Colombia	1994			•
Argentina ⁺	1994			•
Uruguay	1996		•	
Bolivia	1997	•		
Mexico	1997	•		
El Salvador	1998	•		
Costa Rica	2000		•	
Panama	2002			
Dominican Republic	2003	•		
Central & Eastern				
Europe				
Hungary ⁺	1998		•	
Poland	1999		•	
Sw eden	1999		•	
Latvia	2001		•	
Bulgaria	2002		•	
Croatia	2002		•	
Estonia	2002		•	
Kosovo	2002	•		
Russian federation	2003		•	
Lituania	2004		•	
Slovakia	2005		•	
Macedonian	2006		•	
Czech Republic	*			
Rumania	2008		•	
Ukraine	**			
Asia				
Kazajstan	1998	•		
Brunei	2010		•	
Armenia	*			
Africa				
Nigeria	2005	•		
Ghana	2010		•	
Egypt	2012	•		
				§

Source: FIAP + Reversed

not yet approved

** not yet implemented

I. Background to pension reforms

I.2 Main common features

- Replacement of traditional, collective, "pay as you go", DB schemes
- Mandatory, individual accounts
- Fully funded
- Defined contribution
- Close link between contributions and benefits
- Private management by specialized firms
- Transitional measures (recognition of acquired rights)
- Guarantees (minimum pension and/or rate of return)
- Government regulation and supervision

I. Background to pension reforms

I.3 Objectives

- Accomplish financial feasibility and full funding
- Reduce fiscal burden
- Effectively tackle the demographic challenges of population aging and longevity
- Maximize the return of funds to plan members
- Optimize the quality of pension benefits, as reflected in adequate replacement rates
- Grant plan members both freedom of choice and incentives to improve pension benefits trough own effort and individual decision

II.1 Theory and empirical evidence

- In addition to these explicit objectives, it has been claimed that pension reforms contribute to improve economic performance through several effects:
 - ✓ Increase of domestic savings and investment
 - ✓ Development of capital markets
 - ✓ Efficiency gains from labor markets and taxation
 - ✓ Improvement of corporate governance practices
- A diversity of empirical work has been undertaken in the last years to quantify the macroeconomic and specific effects of such reforms

II. Impact of pension reforms on economic growth II.2 Effects on domestic savings and investment

- Following Corbo & Schmidt-Hebbel, there are four main channels:
 - i) On individual new mandatory savings
 - ii) On public savings, which depends on the way transitional deficit is financed
 - iii) On individual voluntary savings, as a response to i)
 - iv) On individual savings, as a response to ii)
- Empirical evidence shows mixed results, due to:
 - ✓ Scarcity of long range data (with the exception of Chile)
 - ✓ Simultaneous effects of other structural reforms
 - ✓ Difficulty in determining how the transition cost is financed

II.2 Effects on domestic savings and investment

Some empirical evidence

43 countries*

"1 dollar of additional mandatory pension savings increases domestic savings by more than 50 cents" Chile (1981-2001)

	Max	Min
Domestic Saving	4.6%	0.7%
Investment	2.8%	0.3%

% of GDP per year

Corbo and Schmidt-Hebbel (2003)

Mexico (1997-2008)

	Max	IVIIN
Domestic Saving	2.3%	0.1%

% of GDP per year

Villagómez and Hernández (2009)

Lopez-Murphy and Musalem (2004)

- Quantitative effects
 - ✓ Increase in the volume of intermediated funds
 - ✓ Increase in the level of trading
 - ✓ Deepening of the market
 - ✓ Expansion of supply of long-term funds
 - ✓ Reduction in the cost of capital
 - ✓ Growth of specific industries: insurance, mortgages, infrastructure

AUM as percentage of GDP (April 2011)

			AUM as
Country	AUM	GDP	% of GDP
Chile	157	204	77.1%
Mexico	124	1,179	10.5%
Colombia	55	286	19.4%
Peru	29	142	20.5%
Total	366	1,810	20.2%

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Annual growth of pension funds equity holdings and stock markets operations volume (2003-2010)

	Chile		Mexico	
	Capital market	PF equity	Capital market	PF equity
	operations	holdings	operations	holdings
	volume annual	annual	volume annual	annual
year	growth	growth	growth	growth
2003	86.4%	99.2%	-6.6%	0%
2004	58.7%	30.4%	69.3%	0%
2005	48.2%	15.7%	11.4%	100%
2006	41.9%	39.1%	51.1%	382%
2007	82.1%	16.6%	55.3%	10%
2008	-28.9%	-42.3%	-0.8%	8%
2009	8.0%	57.9%	3.7%	95%
2010	30.5%	44.4%	58.0%	19%
Correlation				
coefficient	0.8		0.7	

Source: FIAP

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Annual growth of pension funds and corporate bonds issuing (2002-2010)

	Chile		Co	Colombia		México	
	PF annual	Corporate bonds issuing	PF annual	Corporate bonds issuing	PF annual	Corporate bonds issuing	
Year	growth	annual growth	growth	annual growth	growth	annual growth	
2002	9%	8%	38%	125%	30%	173%	
2003	18%	17%	30%	38%	25%	109%	
2004	14%	21%	30%	1%	19%	72%	
2005	13%	34%	38%	29%	23%	1%	
2006	23%	16%	18%	81%	23%	1%	
2007	16%	40%	18%	22%	15%	16%	
2008	-15%	5%	14%	-34%	13%	1%	
2009	28%	32%	37%	187%	23%	1%	
2010	16%	34%	24%	-28%	20%	49%	
Correlation							
coefficient		0.6		0.6		0.6	

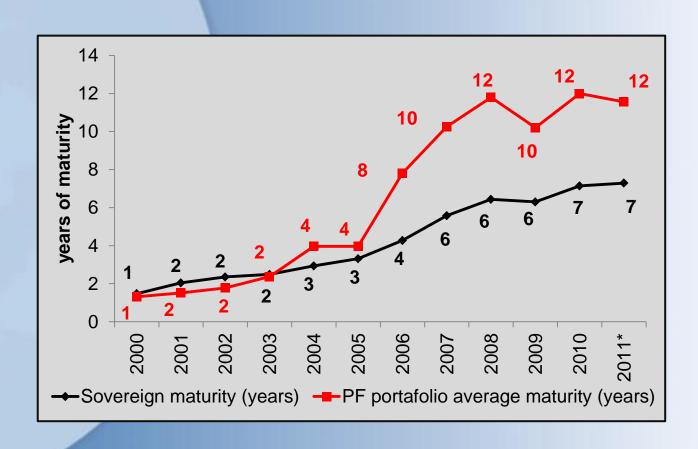
Source: FIAP

Pension funds holdings of local corporate bonds and equity, as a % of AUM and GDP

	Holding	Total		
Country	Corporate bonds	Local equity	Total	holdings (% of GDP)
Chile	17.4%	17.5%	34.9%	26.9%
Colombia	7.6%	31.0%	38.5%	7.5%
Mexico	7.0%	8.0%	15.0%	1.6%
Peru	20.3%	28.0%	48.3%	9.9%
Total*	12.6%	17.1%	29.8%	6.0%

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Mexico: sovereign debt maturity and pension funds average maturity (2000-2011)



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Pension funds holdings of MBS as a % of AUM and GDP

		oldings f AUM)	MBS holdings (% of GDP)	
Country	2011	average: 2002-2011		
Chile	7.9%	5.1%	5.6%	
Colombia	3.6%	3.4%	0.7%	
Mexico	3.3%	3.2%	0.4%	
Peru	13.0%	13.9%	2.7%	
Total*	6.1%	4.8%	1.2%	

Pension funds investments in infrastructure

Country	Indirect (ABS) (USD billions/ % of total assets)	Direct investments (USD billions/ % of total assets)	Regulatory limit
Chile	10 / 9.2%	2 /1.8%	No limit
Colombia	4.4 / 17.1%		No limit
Mexico	7.6 / 6.2%	3.5 / 2.7%	13% in direct investments
Peru	2.4 / 11.5%	0.7 / 3.3%	No limit

Source: BBVA research

- Qualitative effects
 - ✓ Modernization of securities markets (improved clearing and settlement, etc)
 - ✓ Development of new institutions: custodians, electronic trading systems, centralized clearing schemes
 - ✓ Higher quality of regulation
 - ✓ Enhancement of transparency: quality and timeliness of information
 - ✓ Innovation and creation of new financial products
 - ✓ Development of risk-rating systems and independent agencies

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Infrastructure bond & CKD (main characteristics)

Country	Instrument	Target	Issuer	Type of issuing	Guarantees
Chile	Infrastructure Bond	Infrastructure projects	Companies	Bond	100% insurance policy
Mexico	Development Capital Certificates (CKD)	Infrastructure Real Estate Private Equity	Companies or funds trough an issuing trust	Listed private equity	Trust assets

Source: FIAP

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II.4 Other relevant effects

- Labor market incentives
 - ✓ Reduction of distortions (linkage between benefits and contributions)
 - ✓ Increase in formal sector employment
 - √ Job mobility
 - ✓ Increased demand (contributions are not seen as payroll taxes)
- Better corporate governance practices
 - ✓ Demand for more transparency and accountability
 - ✓ Pressure to undertake more socially responsible investments

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World Bank investor protection index 2011

	Chile	Colombia	Mexico	Peru
World Bank disclosure grade for	0	0	0	0
financial markets	0	0	0	0

III. Main challenges

- Further evolution of pension funds investment regulation towards diversification
- Enhancement of other relevant regulations regarding taxation, claiming rights of investors, transparency and legal certainty
- Foster reforms aimed at triggering long-term investment opportunities

III. Main challenges

- Ensure alignment of investment strategies with the long-term objectives of private pension funds
- Continue to implement and refine life-cycle models and coherent links between the investment strategies of the accumulation and decumulation stages

III. Main challenges

- Continue developing initiatives addressing financial literacy, customer commitment and involvement, property rights and voluntary contributions
- Strengthen advisory capabilities of providers, especially regarding: a clear understanding of the risk/return relationship; its impact on the quality of pensions; and the danger of overreacting to short-run volatility episodes

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