



Part 2

Risk impact

Results and Valuation

Max Errázuriz

July, 2011

merrazuriz@eyt.tie.cl



Why do we have to control risk?

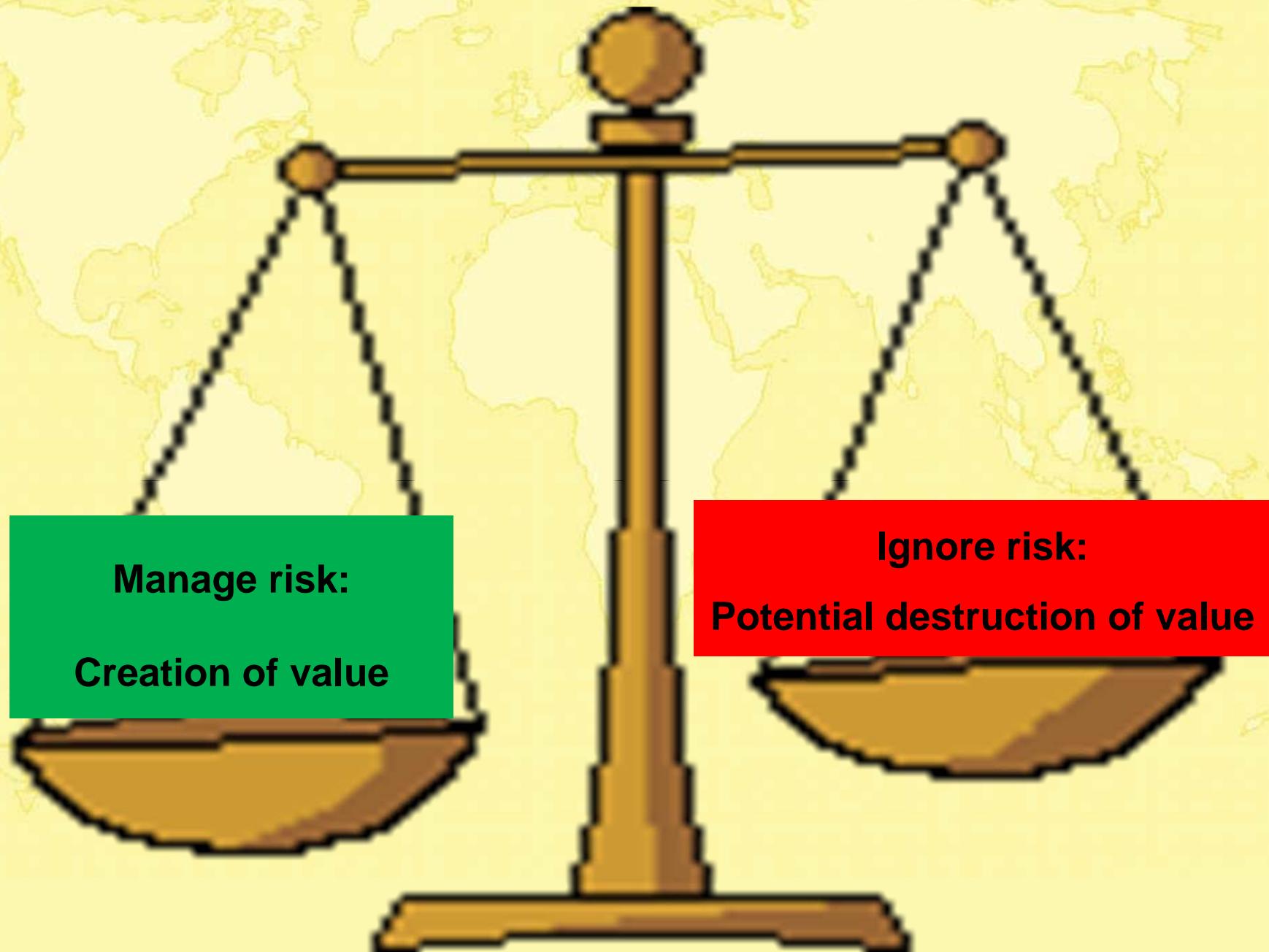
Is it worth the effort?

Creation of value

How much is my MFI worth today?

How much will it be worth in 5 years?

Dilemma: To manage or ignore risk?



A faint, light blue world map serves as the background for the slide, showing the outlines of all major continents.

....Risk Management

..... is determinant based on the level of
profits and company value.



What is the impact of a 1 % (One point) of risk increase?

On profits?

On the company value?

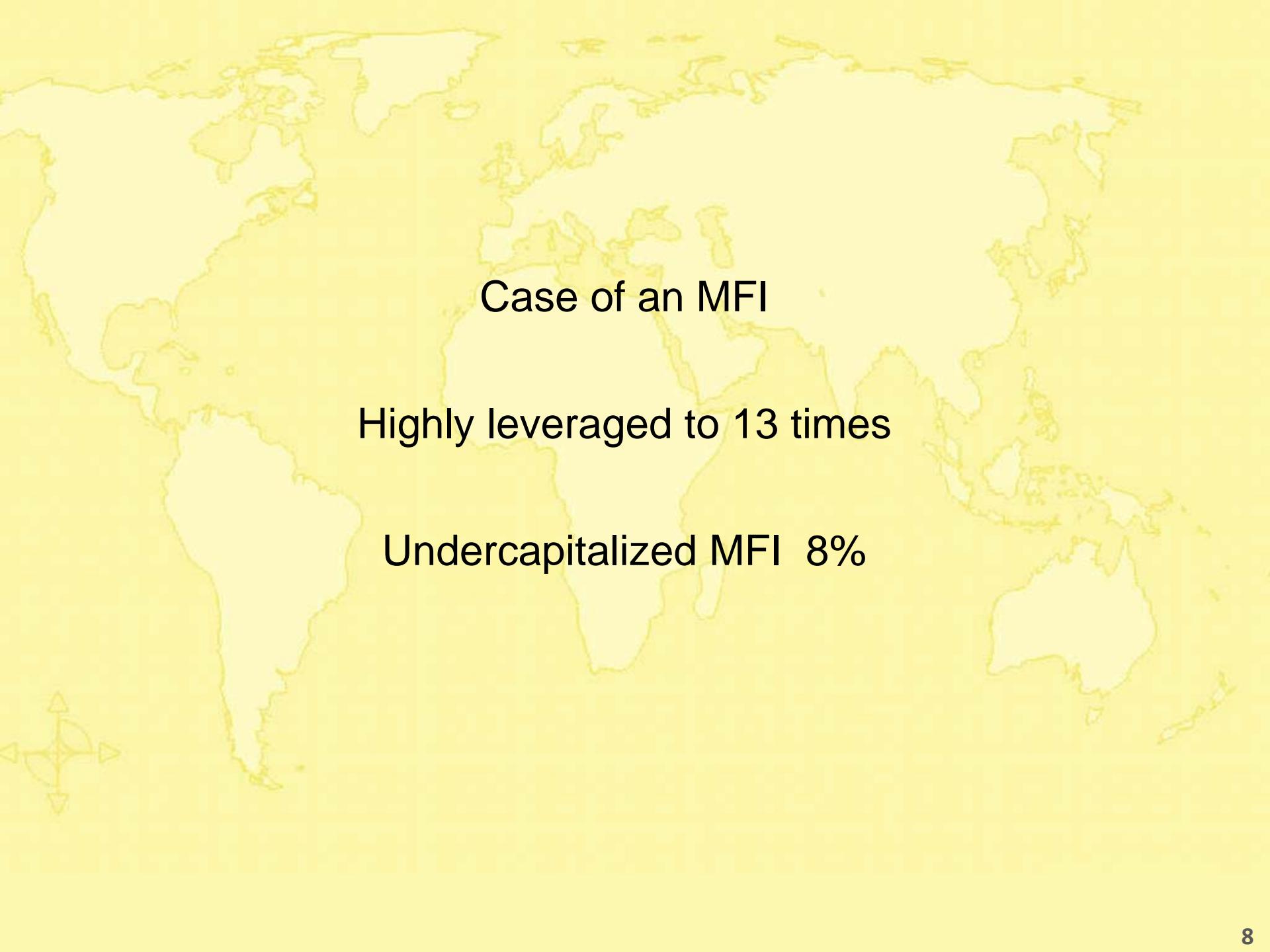


Stress Tests

MFI

The powerful one





Case of an MFI

Highly leveraged to 13 times

Undercapitalized MFI 8%

Expected Consequences

- Small negative changes in:
 - Risk rate
 - Cost of funds
 - Credit interest rates
- Requires an infusion of some additional capital.

Figures in Mex \$

Selected results for IMF " La poderosa "

1 US\$ equivalent to 10 \$

		<u>base Case</u>	<u>base Case</u>	<u>Difference %</u>
Loan interest rates	%	71%	71%	0%
Credit Risk (Past due loans after 30 days)	%	6,0%	6,0%	0%
Loan portfolio size	US\$	35	35	0%
	M\$	354.033	354.033	
Cost of funding		16%	16%	0%
<u>Income Statement</u>				
Financial income	M\$	251.440	251.440	
Financial costs		58.688	58.688	
Gross margin		192.752	192.752	
Provision for loan losses		15.111	15.111	0%
Net Financial margin		177.642	177.642	
<u>Net operational results (after tax)</u>				
		1.885	1.885	0%
<u>Profitability R.O.E</u>				
	%	7%	7%	0%
Return on assets R.O.A	%	0,5%	0,5%	0%
Equity	M\$	28.553	28.553	0%
Average loan portfolio	M\$	354.033	354.033	
Capitalization ratio	Equity /Risk w.assets	%	8%	0%
Leverage	Liability / Capital	times	13	13
mínimum equity required	8 % assets r w	8%	28.323	28.323
Profitability R.O.E		%	7%	0%

Selected results

Figures in Mex \$

1 US\$ equivalent to 10 \$

sensibility analysis

		risk increase in 1 %	Case base	Diference
Loans interés rates		71%	71%	0%
Credit Risk (Past due loans after 30 days)		7,0%	6,0%	17%
Loan portfolio size	MMUS\$	35	35	-1%
Cost of funding	MM\$	351.887	354.033	-1%
Income Statement				
Financial income		250.019	251.440	
Financial costs		58.932	58.688	
Gross margin		191.087	192.752	
Provision for loan losses.		16.322	15.111	1.211
Net Financial margin		174.765	177.642	
Net operational results (after tax)				
	MM\$	-2	1.885	-100%
Profitability R.O.E				
	%	0%	7%	-100%
Return on assets R.O.A	%	0,0%	0,5%	-100%
Equity	MM\$	25.017	28.553	
Average loan portfolio	MM\$	351.887	354.033	-12%
Capitalization ratio	Equity /Risk w.assets	%	7%	-12%
Leverage	Liability / Capital	veces	15	13
mínimum equity required	8 % assets r w	8%	28.151	28.323
			3.134	0
Profitability R.O.E		%	0%	11%
			7%	-100%

selected results LA PODEROSA
sensibility analysis

Figures in Mex \$

1 US\$ equivalent to 10 \$

Loans interés rates

Credit Risk (Past due loans after 30 days)

Loan portfolio size

Cost of funding

Increase cost funds of 1 %

Case base

Diference %

%	71%	71%	0%
---	-----	-----	----

%	6,0%	6,0%	0%
---	------	------	----

US\$	35	35	0%
------	----	----	----

M\$	354.033	354.033	
-----	---------	---------	--

	17%	16%	5%
--	-----	-----	----

Income Statement

Finantial income

M\$	251.440	251.440	
-----	---------	---------	--

Finantial costs

	63.153	58.688	
--	--------	--------	--

Gross margin

	188.287	192.752	
--	---------	---------	--

Provison for loan losses.

	15.111	15.111	0%
--	--------	--------	----

Net Finantial margin

	173.176	177.642	
--	---------	---------	--

Net operational results (after tax)

ID)	-1.109	1.885	-159%
-----	--------	-------	-------

Profitability R.O.E

%	-5%	7%	-172%
---	-----	----	-------

Return on assets R.O.A

%	-0,3%	0,5%	-159%
---	-------	------	-------

Equity

M\$	23.408	28.553	-18%
-----	--------	--------	------

Average loan portfolio

M\$	354.033	354.033	
-----	---------	---------	--

Capitalization ratio Equity /Risk w.assets

%	7%	8%	-18%
---	----	----	------

Leverage Liability / Capital

veces	16	13	
-------	----	----	--

míimum equity required 8 % assets r w

8%	28.323	28.323	
----	--------	--------	--

	4.915	0	17%
--	-------	---	-----

Profitability R.O.E

\$	-5%	7%	-172%
----	-----	----	-------

SELECTED RESULTS LA PODEROSA

Figures in Mex \$

1 US\$ equivalent to 10 \$

SENSIBILITY ANALYSIS

loan Interest rates Disminution of 1% Caso base

Diferencia

		%	70%	71%	-2%
Loans interés rates		%	70%	71%	-2%
Credit Risk (Past due loans after 30 days)		%	6,0%	6,0%	0%
Loan portfolio size		US\$	35	35	0%
Cost of funding		M\$	354.033	354.033	0%
Income Statement					
Financial income			247.503	251.440	
Financial costs			58.848	58.688	
Gross margin			188.655	192.752	
Provision for loan losses.			15.111	15.111	
Net Financial margin			173.545	177.642	
Net operational results (after tax)					
Profitability R.O.E					
Return on assets R.O.A		%	-2%	7%	-137%
Equity			0,0%	0,5%	-100%
Average loan portfolio		M\$	27.276	28.553	-4%
Capitalization ratio	Equity /Risk w.as		354.033	354.033	
Leverage	Liability / Capital				
mínimum equity required	8 % assets r1	8%	7,7%	8%	-4%
			14	13	5%
			28.323	28.323	
			1.046	0	1.046
Profitability R.O.E					
			-2%	7%	-1

SELECTED RESULTS LA PODEROSA

Figures in Mex \$

1 US\$ equivalent to 10 \$

sensibility analysis

Loans interés rates

Credit Risk (Past due loans after 30 days)

Loan portfolio size

Cost of funding

Income Statement

Financial income

Financial costs

Gross margin

Provision for loan losses.

Net Financial margin

Net operational results (after tax)

Profitability R.O.E

Return on assets R.O.A

Equity

Average loan portfolio

Capitalization ratio

Leverage

mínimum equity required

Equity /Risk w.as

Liability / Capital

8 % assets r

Loan portfolio diminution of 1 %

Case base

Diferenc

	%	71%	71%	0%
Credit Risk (Past due loans after 30 days)	%	71%	71%	0%
Loan portfolio size	%	6,0%	6,0%	0%
Cost of funding	M\$	349.624	354.033	-1%

Financial income	M\$	248.400	251.440	
Financial costs		58.179	58.688	
Gross margin		190.221	192.752	
Provision for loan losses.		15.351	15.111	
Net Financial margin		174.870	177.642	

<u>Net operational results (after tax)</u>	M\$	<u>-23</u>	<u>1.885</u>	<u>-101%</u>
--	-----	-------------------	---------------------	---------------------

<u>Profitability R.O.E</u>	%	<u>0%</u>	<u>7%</u>	<u>-101%</u>
----------------------------	---	------------------	------------------	---------------------

Return on assets R.O.A	%	0,0%	0,5%	-101%
------------------------	---	------	------	-------

Equity	M\$	26.426	28.553	-7%
--------	-----	--------	--------	-----

Average loan portfolio	M\$	349.624	354.033	
------------------------	-----	---------	---------	--

Capitalization ratio	%	7,6%	8%	-6%
----------------------	---	------	----	-----

Leverage	veces	14	13	7%
----------	-------	----	----	----

mínimum equity required	8 % assets r	27.970	28.323	-1%
-------------------------	--------------	--------	--------	-----

	M\$	1.543	0	6%
--	-----	-------	---	----

Profitability R.O.E

	%	0%	7%	-101%
--	---	----	----	-------

SELECTED RESULTS MICROFINANCIERA LA PODEROSA

Figures in Mex \$

1 US\$ equivalent to 10 \$

sensibility analysis

	<u>Risk increase to loose equity</u>	<u>base Case</u>	<u>Diference %</u>
Loans interés rates	%	71%	71% 0%
Credit Risk (Past due loans after 30 days)	%	12,0%	6,0% 100%
Loan portfolio size	US\$ M\$	34 341.779	35 354.033 -3%
Cost of funding			
Income Statement			
Financial income		242.616	251.440
Financial costs		61.046	58.688
Gross margin		181.570	192.752
Provision for loan losses.		17.749	15.111 17%
Net Financial margin		163.821	177.642
		136.074	136.074
		35.273	35.273
		590	4.410
Net operational results (after tax)	<u>M\$</u>	<u>-8.117</u>	<u>1.885</u> <u>-531%</u>
Profitability R.O.E	%	-202%	7% -3159%
Return on assets R.O.A	%	-2,4%	0,5% -546%
Equity	M\$	4.021	28.553 -86%
Average loan portfolio	M\$	383.831	371.519
	M\$	341.779	354.033
Capitalization ratio	Equity /Risk w.as	%	8% -85%
Leverage	Liability / Capital	Veces	13
mínimum equity required	8 % assets r1	8% M\$	27.342 23.322 28.323 0 85%
Profitability R.O.E	% M\$	-202% -38	7% -3159%
			28.553



TESTS WITH LOWER LEVERAGES ?