

# Prices, Costs, Profits, and Responsible Practice

**NPM Seminar** 

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CEO
MicroFinance Transparency
February 2013

## Understanding the cost curve for micro-loans

#### **Efficiency: Operating Cost Ratio**

The formula for the ratio:

Annual Operational Cost

Average Loan Portfoliio

We will analyze at the level of a single loan

- Cost to process and disburse a loan (once per loan)
- Monitoring cost (monthly cost)
- We annualize these cost



a	Original Loan Amount	\$50	\$100	\$200	\$300	\$500	\$750	\$1,000	\$1,500
D	Average Outstanding Balance	\$25	\$50	\$100	\$150	\$250	\$375	\$500	\$750
e	Loan Term	12	12	12	12	12	12	12	12
f	Loans processed/year	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Loan Write-off								
g	Annual Loan Write-off %	2%	2%	2%	2%	2%	2%	2%	2%
h	Annual LL Provision	\$0.5	\$1.0	\$2.0	\$3.0	\$5.0	\$7.5	\$10.0	\$15.0
	Financial Cost								
i	Cost of Funds (%)	10%	10%	10%	10%	10%	10%	10%	10%
j	Annual Financial Cost	\$3	\$5	\$10	\$15	\$25	\$38	\$50	\$75



a	Original Loan Amount	\$50	\$100	\$200	\$300	\$500	\$750	\$1,000	\$1,500
b	Average Outstanding Balance	\$25	\$50	\$100	\$150	\$250	\$375	\$500	\$750
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a	Original Loan Amount	\$500	\$750	\$1,000	\$1,500	\$2,000	\$3,000
	Operating Cost Calculation						
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k	Cost to initiate loan	\$40	\$50	\$50	\$60	\$75	\$100
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n	Annual monitoring cost	\$48	\$60	\$60	\$60	\$96	\$120
o	Total Annual Operating Costs	\$88	\$110	\$110	\$120	\$171	\$220
p	Average Outstanding Balance	\$250	\$375	\$500	\$750	\$1,000	\$1,500
q	Annual Operating Cost Ratio				16%	<b>17</b> %	15%

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q	Annual Operating Cost Ratio	35%	29%	22%	16%	17%	15%



a	Original Loan Amount	\$50	\$100	\$200	\$300	\$500	\$750	\$1,000
	Operating Cost Calculation							
k	Cost to initiate loan	\$10	\$15	\$25	\$30	\$40	\$50	\$50
1	Annual initiation costs	\$10	\$15	\$25	\$30	\$40	\$50	\$50
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1	Annual initiation costs	\$10	\$15	\$25	\$30	\$40	\$50	\$50
m	Monthly loan monitoring cost	\$2	\$2	\$3	\$3	\$4	\$5	\$5
n	Annual monitoring cost	\$24	\$24		\$36	\$48	\$60	\$60
0	Total Annual Operating Costs	\$34	\$39	\$61	\$66	\$88	\$110	\$110
р	Average Outstanding Balance	\$25	\$50	\$100	\$150	\$250	\$375	\$500
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a	Original Loan Amount	\$50	\$100	\$200	\$300	\$500	\$750	\$1,000
							<u> </u>	
	Operating Cost Calculation		<u> </u>	<u> </u>		<u> </u>	<u>                                     </u>	
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n	Annual monitoring cost	\$24	\$24	\$36	\$36	\$48	\$60	\$60
0	Total Annual Operating Costs	\$34	\$39	\$61	\$66	\$88	\$110	\$110
p	Average Outstanding Balance	\$25	\$ <del>50</del>	\$100	\$150	\$250	\$375	\$500
q	Annual Operating Cost Ratio				44%	35%	29%	22%

_								
a	Original Loan Amount	\$50	\$100	\$200	\$300	\$500	\$750	\$1,000
	Operating Cost Calculation							
k	Cost to initiate loan	\$10	\$15	\$25	\$30	\$40	\$50	\$50
1	Annual initiation costs	\$10	\$15	\$25	\$30	\$40	\$50	\$50
m	Monthly loan monitoring cost	\$2	\$2	\$3	\$3	\$4	\$5	\$5
n	Annual monitoring cost	\$24	\$24	\$36	\$36	\$48	\$60	\$60
o	<b>Total Annual Operating Costs</b>	\$34	\$39	\$61	\$66	\$88	\$110	\$110
p	Average Outstanding Balance	\$25	\$50	\$100	\$150	\$250	\$375	\$500
q	Annual Operating Cost Ratio			61%	44%	35%	29%	22%

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a	Original Loan Amount	\$50	\$100	\$200	\$300	\$500	\$750	\$1,000
	Operating Cost Calculation		L	<u>[]</u>	<u> </u>	<u></u> '	<u>                                     </u>	
k	Cost to initiate loan	\$10	\$15	\$25	\$30	\$40	\$50	\$50
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n	Annual monitoring cost	\$24	\$24	\$36	\$36	\$48	\$60	\$60
o	Total Annual Operating Costs	\$34	\$39	\$61	\$66	\$88	\$110	\$110
p	Average Outstanding Balance	\$25	\$50	\$100	\$150	\$250	\$375	\$500
q	Annual Operating Cost Ratio		78%	61%	44%	35%	29%	22%

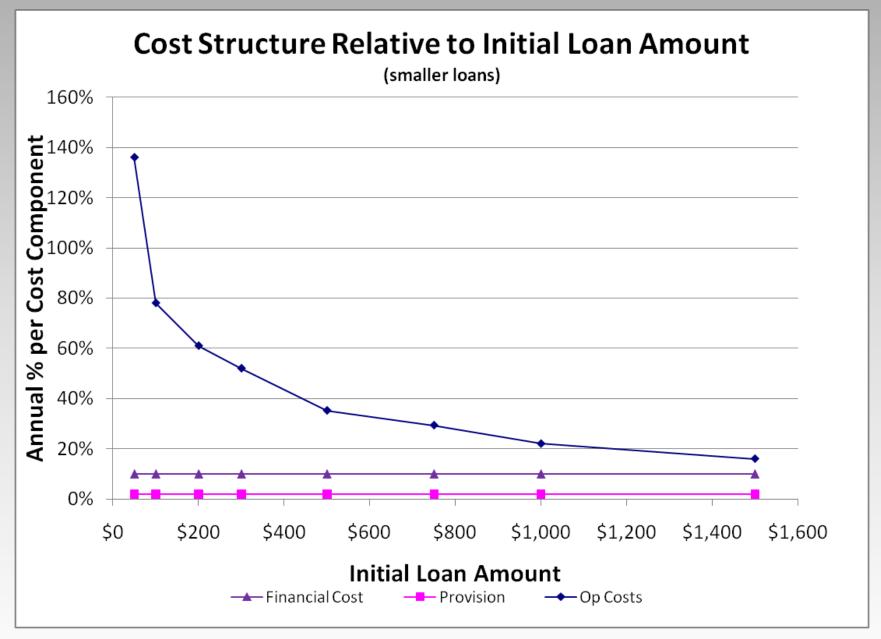
a	Original Loan Amount	\$50	\$100	\$200	\$300	\$500	\$750	\$1,000
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		hs			Data	included	only on	Broad Gra	apns
a	Original Loan Amount	\$750	\$1,000	\$1,500	\$2,000	\$3,000	\$5,000	\$7,500	\$10,000
	Operating Cost Calculation								
k	Cost to initiate loan	\$50	\$50	\$60	\$75	\$100	\$150	\$250	\$300
1	Annual initiation costs	\$50	\$50	\$60	\$75	\$100	\$100	\$125	\$150
m	Monthly loan monitoring cost	\$5	\$5	\$5	\$8	\$10	\$15	\$20	\$25
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О	Total Annual Operating Costs	\$110	\$110	\$120	\$171	\$220	\$280	\$365	\$450
p	Average Outstanding Balance	\$375	\$500	\$750	\$1,000	\$1,500	\$2,500	\$3,750	\$5,000
q	Annual Operating Cost Ratio	29%	22%	16%	<b>17</b> %	15%	11%	10%	9%

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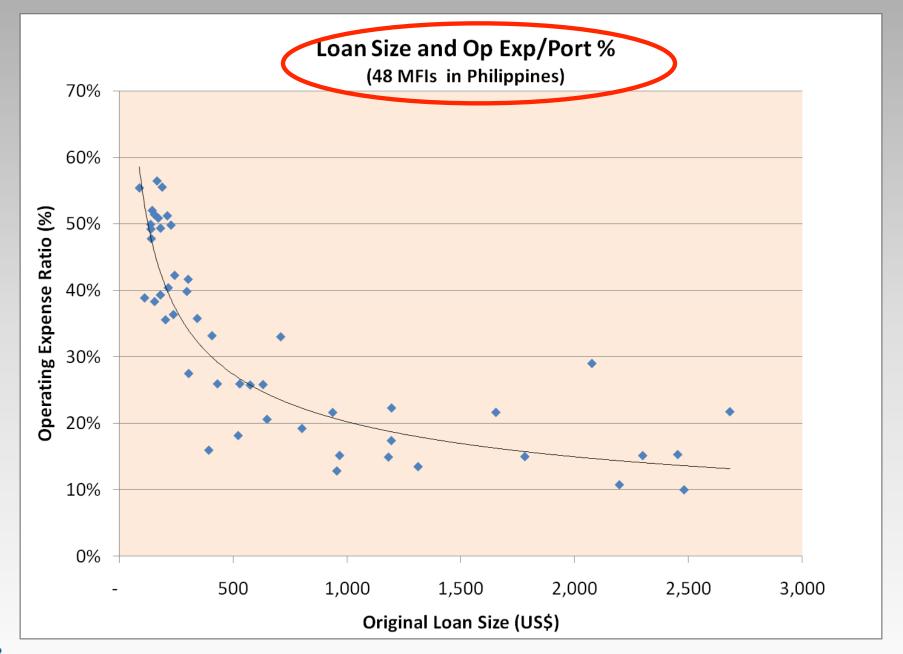
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#### **Pricing for Different Products**

Component <	<b>\$100</b> Loan	\$1000 Loan
Financial Costs	10%	10%
Loan Loss	2%	2%
Operating Costs	50%	15%
Profit	3%	3%
Total Price <	65%	30%



#### **Cost Components that Affect Pricing**

Component	
Financial Costs	10%
Loan Loss	2%
Operating Costs	20%
Profit	3%
Total Price	35%

#### Realizing that there is a cost curve

Efficiency	1	2	3
Operating Cost per Loan	\$50		
Loan Size	\$500		
Operating Cost Ratio	10%		

## Realizing that there is a cost curve

Efficiency	1	2	3
Operating Cost per Loan	\$50	\$50	
Loan Size	\$500	\$250	
Operating Cost Ratio	10%	20%	

## Realizing that there is a cost curve

Efficiency	1	2	3
Operating Cost per Loan	\$50	\$50	\$30
Loan Size	\$500	\$250	\$100
Operating Cost Ratio	10%	20%	30%

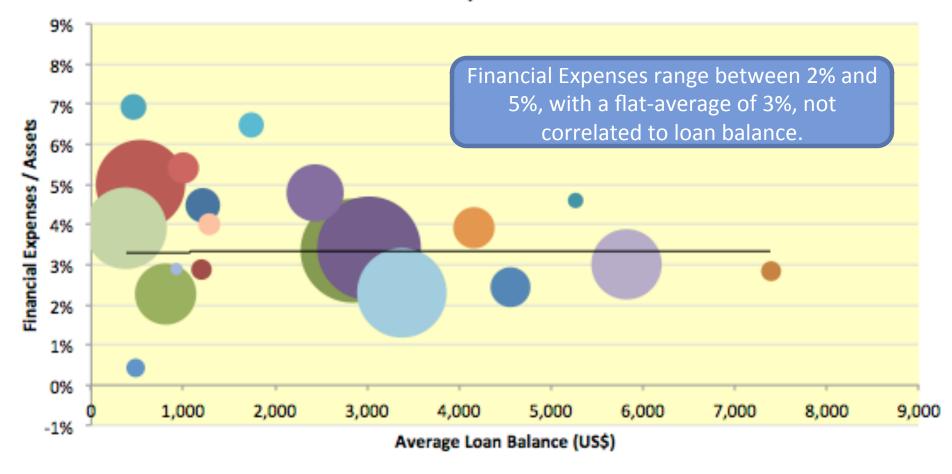
# Are there curves for the other cost components?

## **Cost Components that Affect Pricing**

Component	
Financial Costs	10%
Loan Loss	2%
Operating Costs	20%
Profit	3%
Total Price	35%

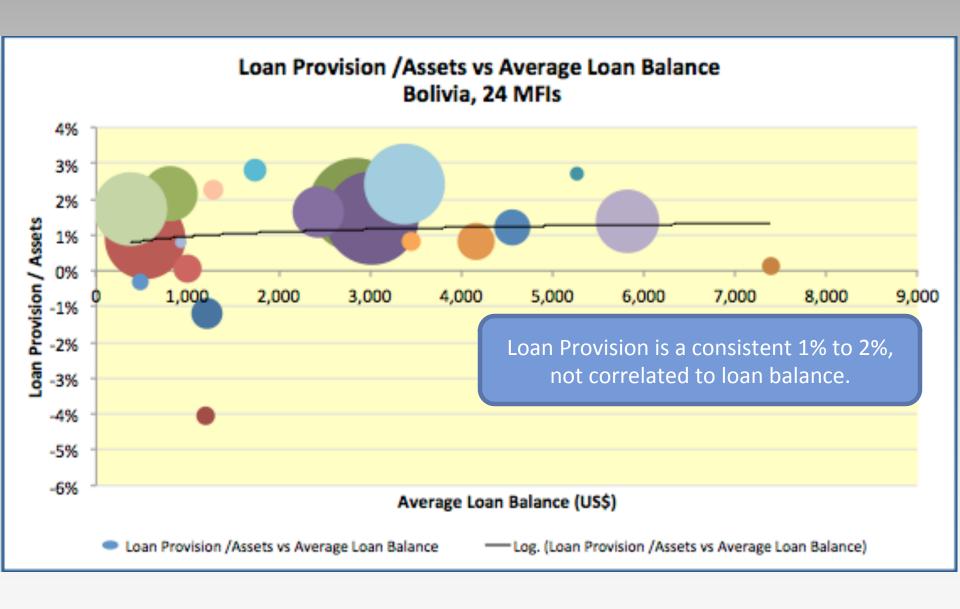
Let's look at Bolivia

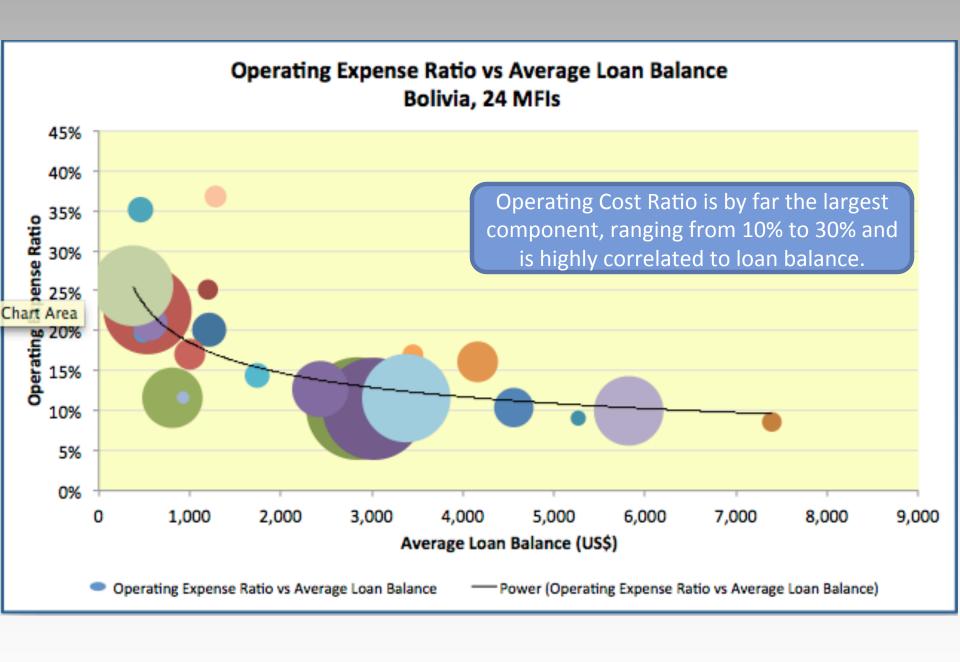
#### Financial Expenses/Assets vs Average Loan Balance Bolivia, 24 MFIs



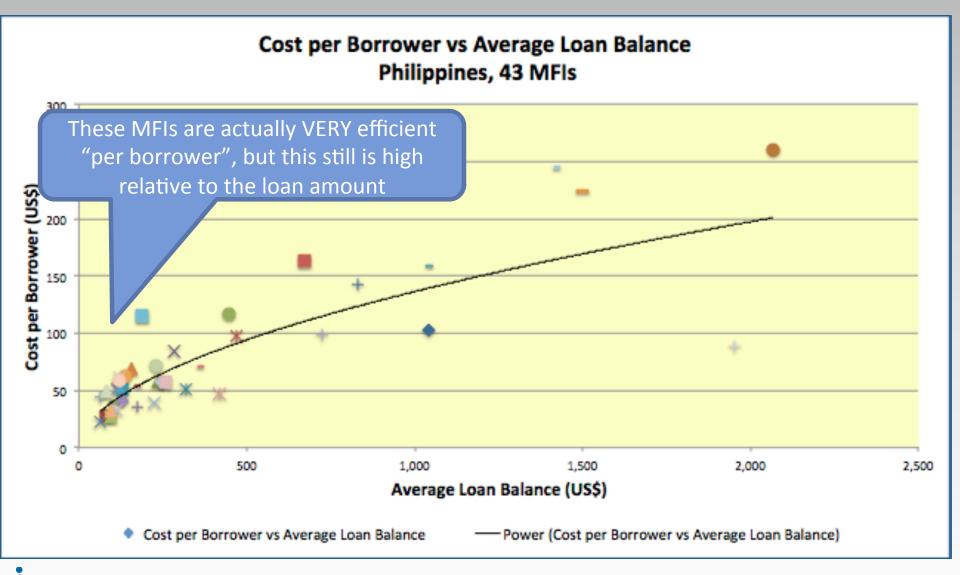
Financial Expenses/Assets vs Average Loan Balance

---- Power (Financial Expenses/Assets vs Average Loan Balance)

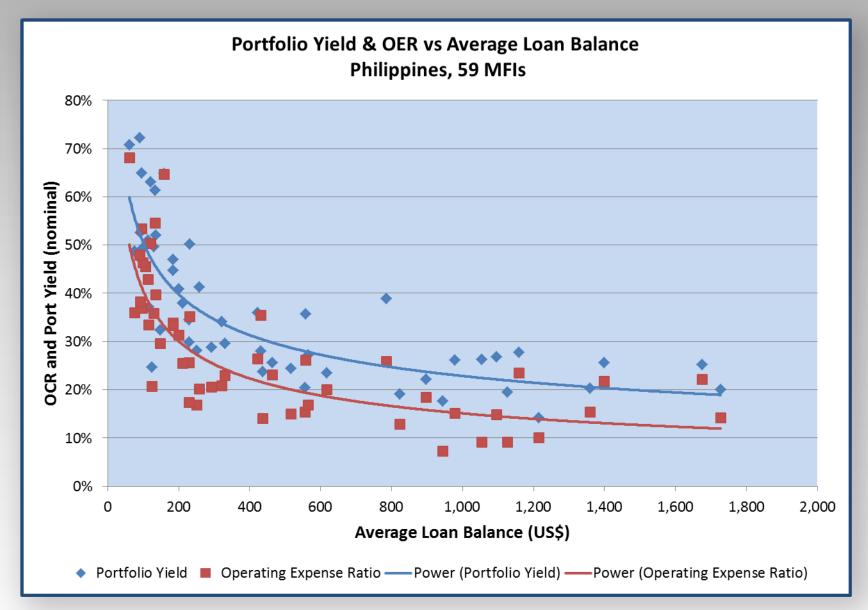


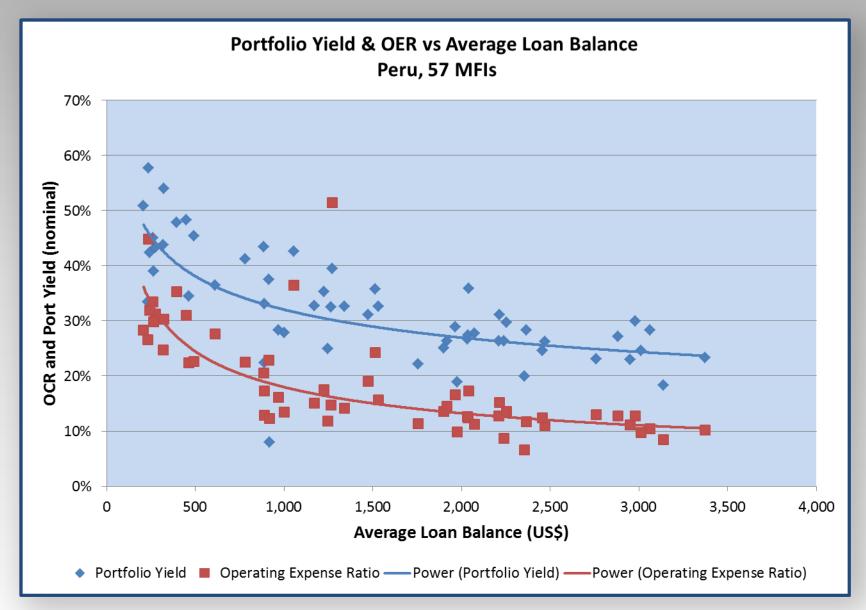


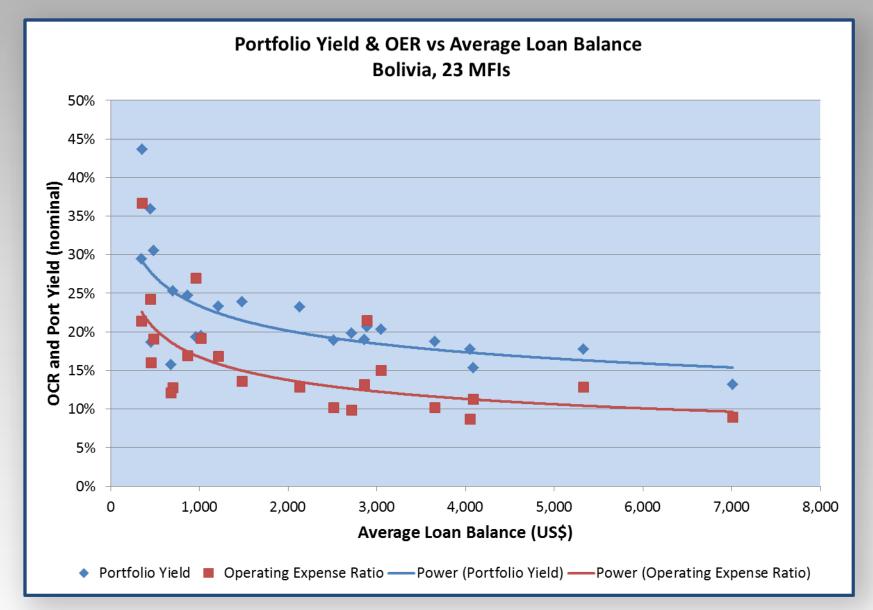
# **Efficiency - Cost per Borrower**









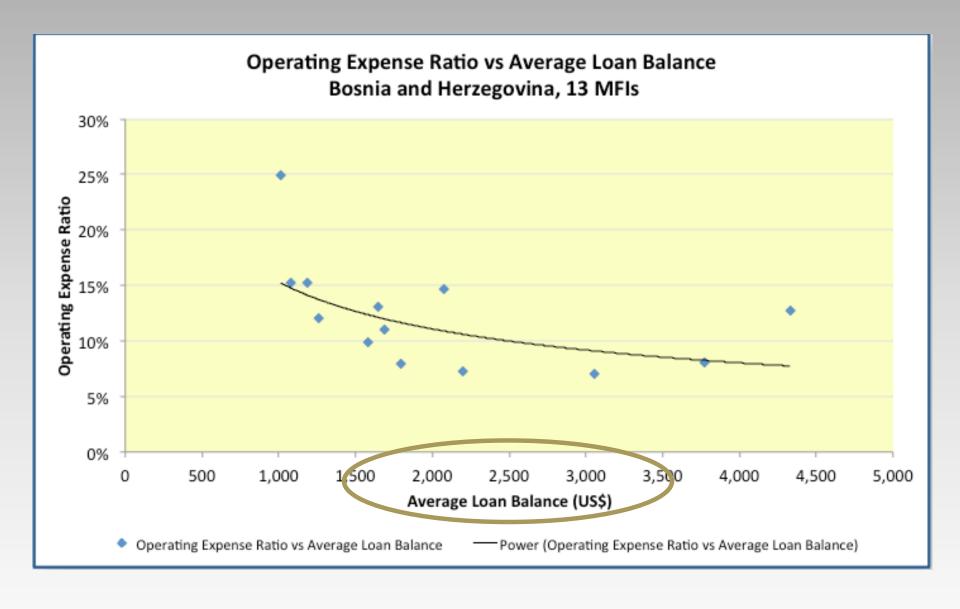


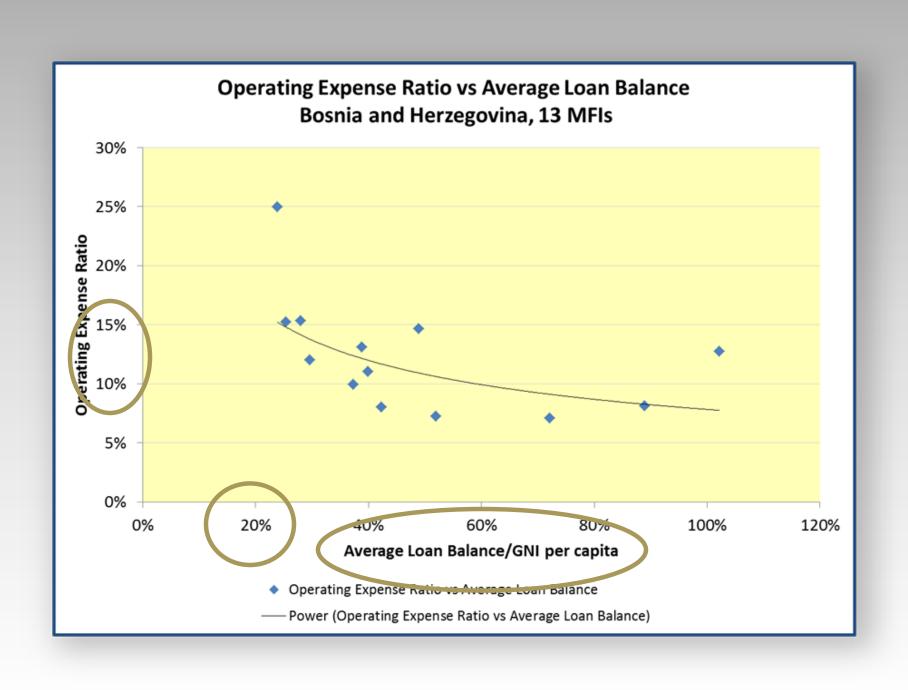
Is there a dramatic curve in every country like we see in the Philippines?

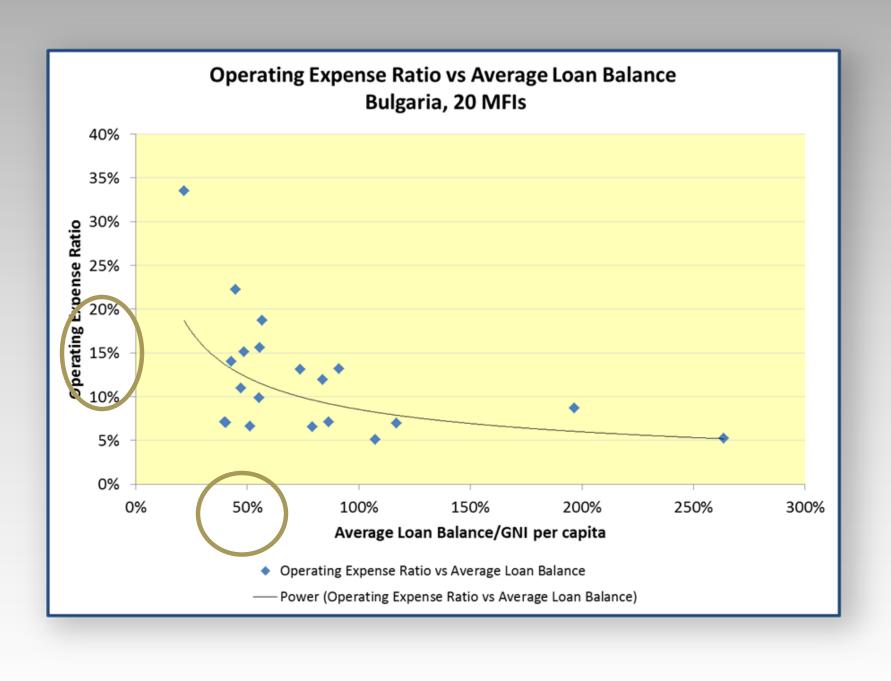
No. Not when we look at the MIX data. Some countries are more like "sloped lines".

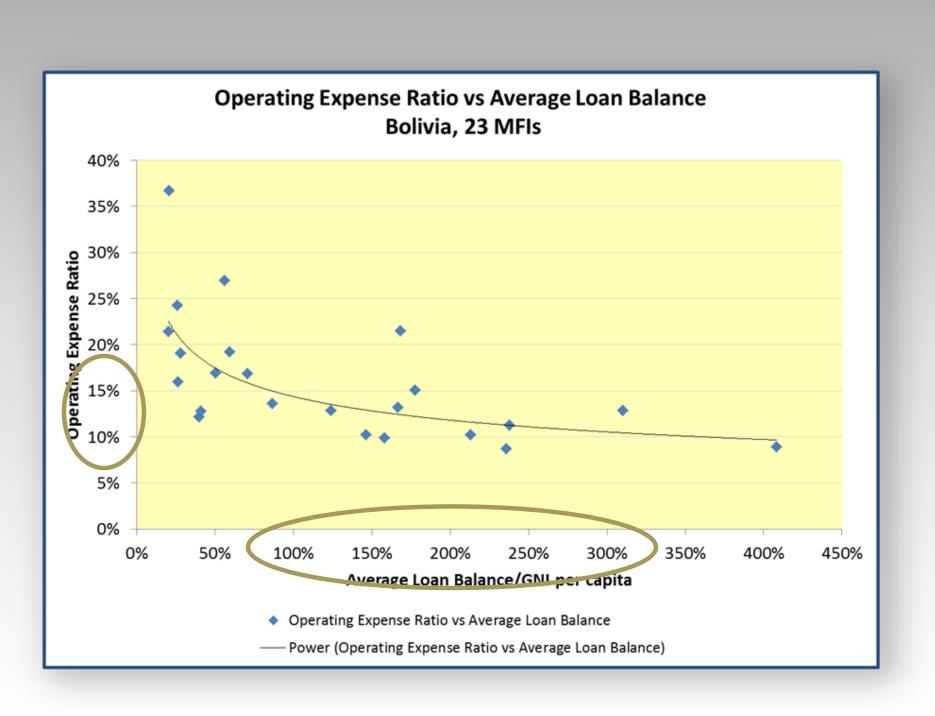
Where do the curves start?

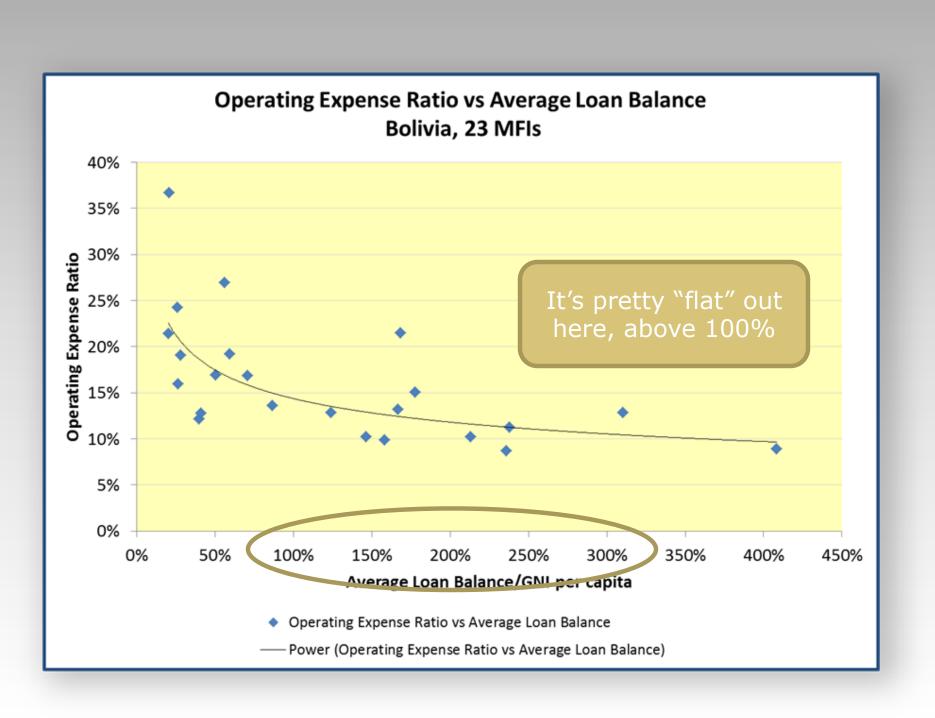
Let's study the operating cost curve relative to the economy

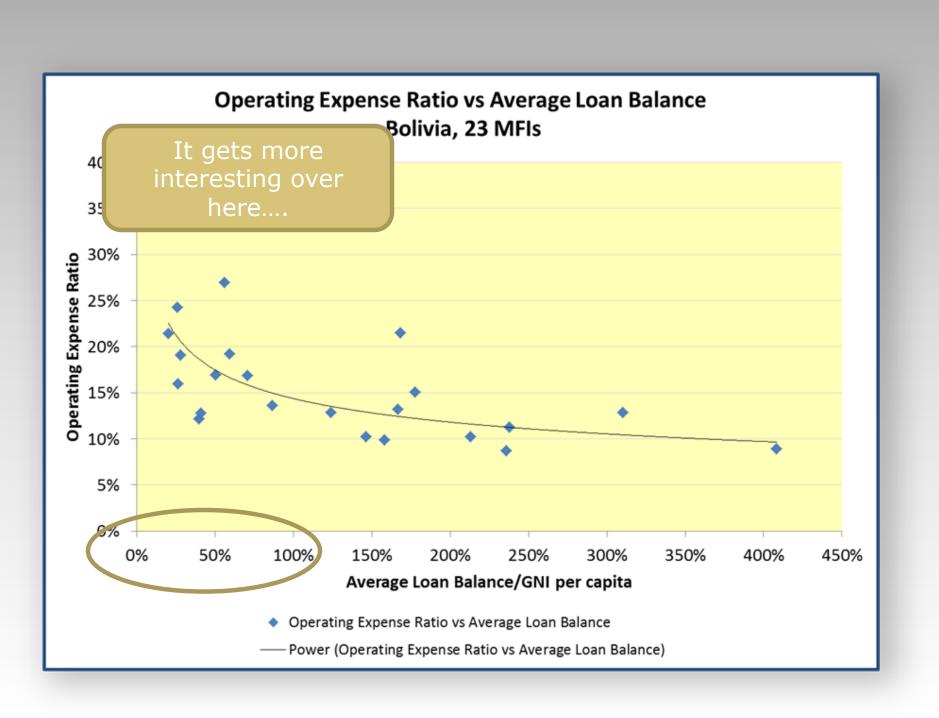


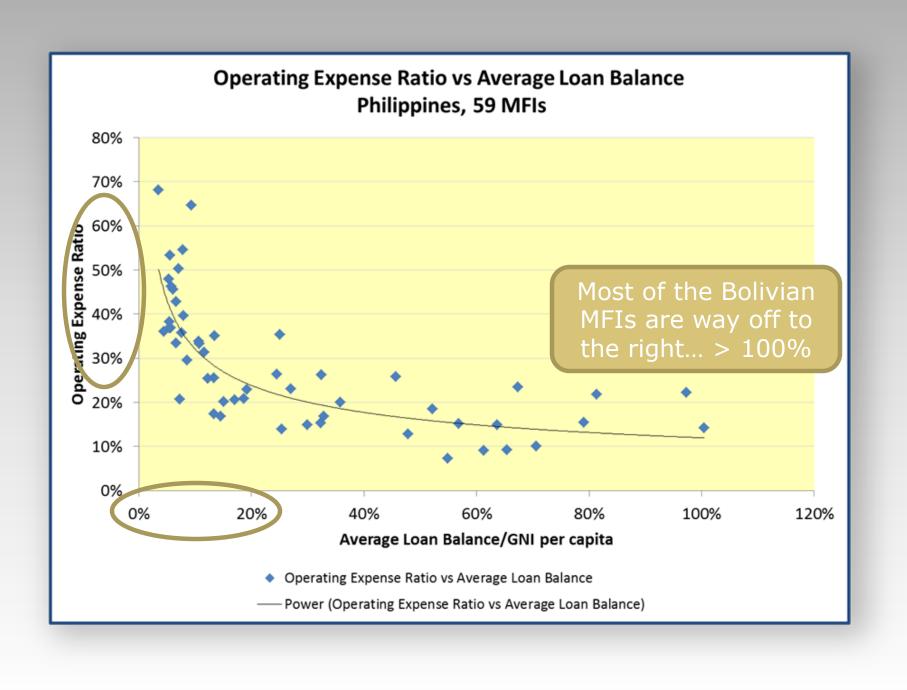


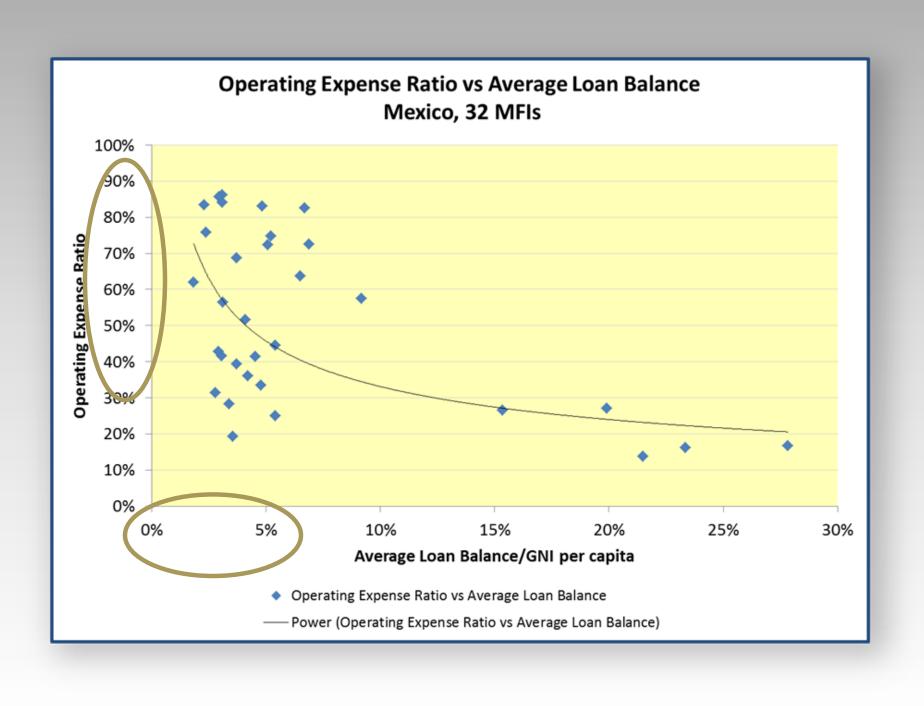


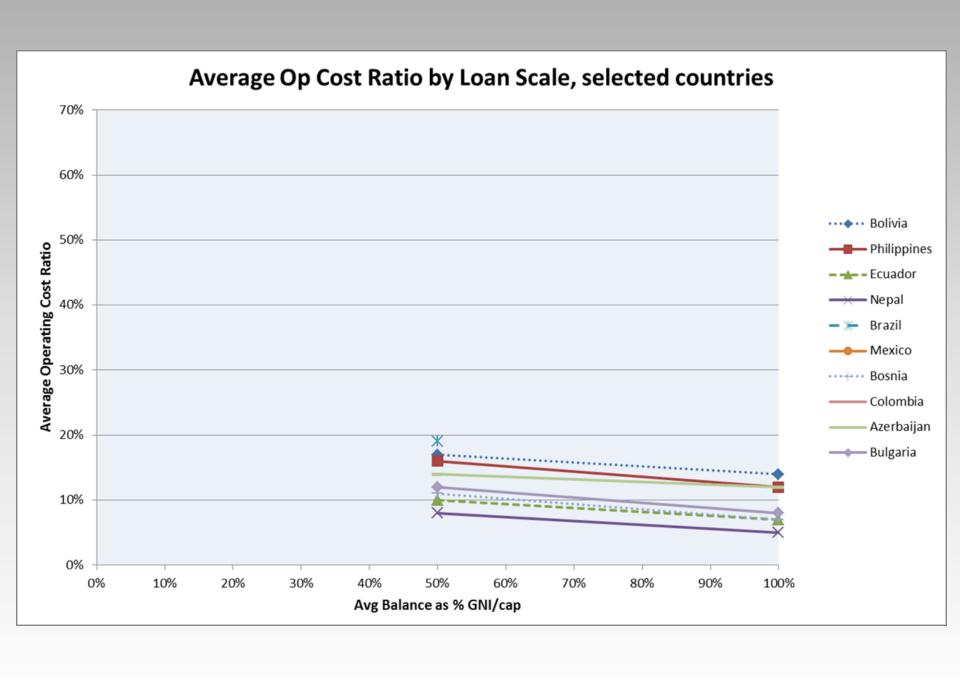


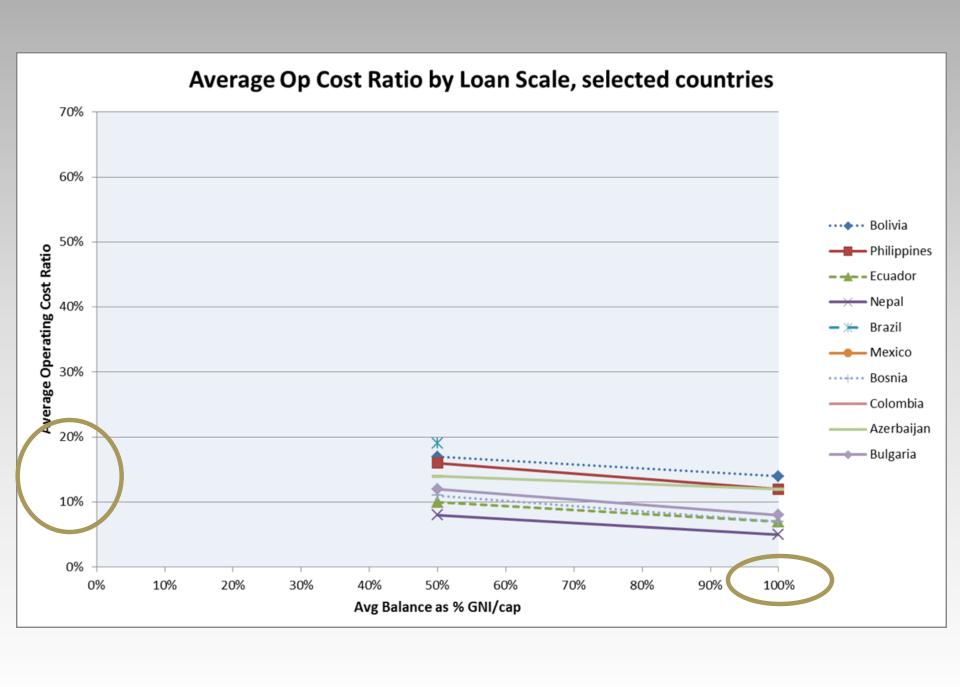


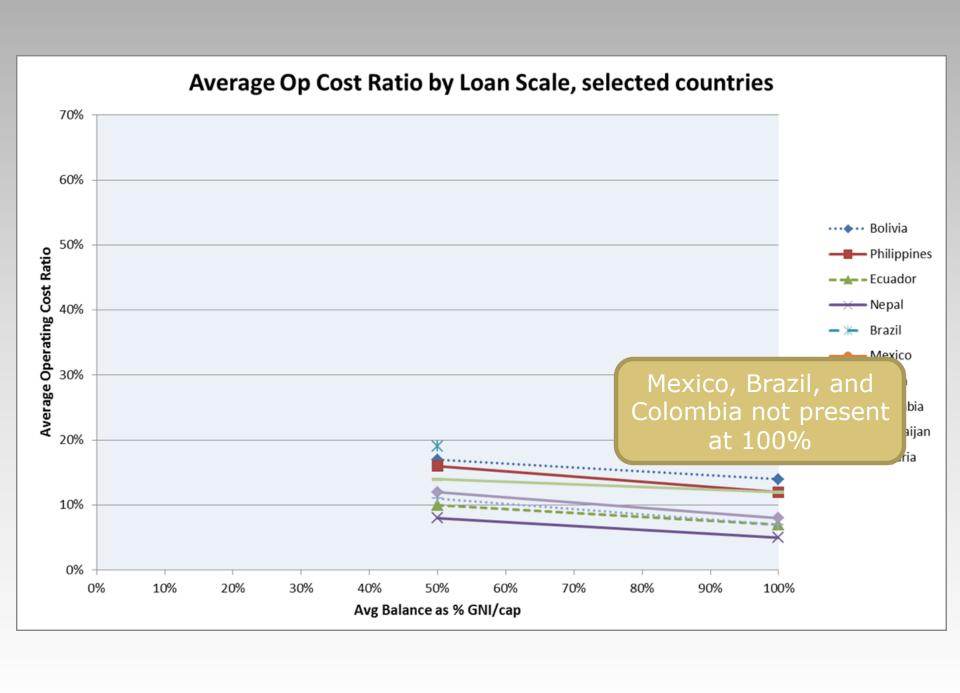


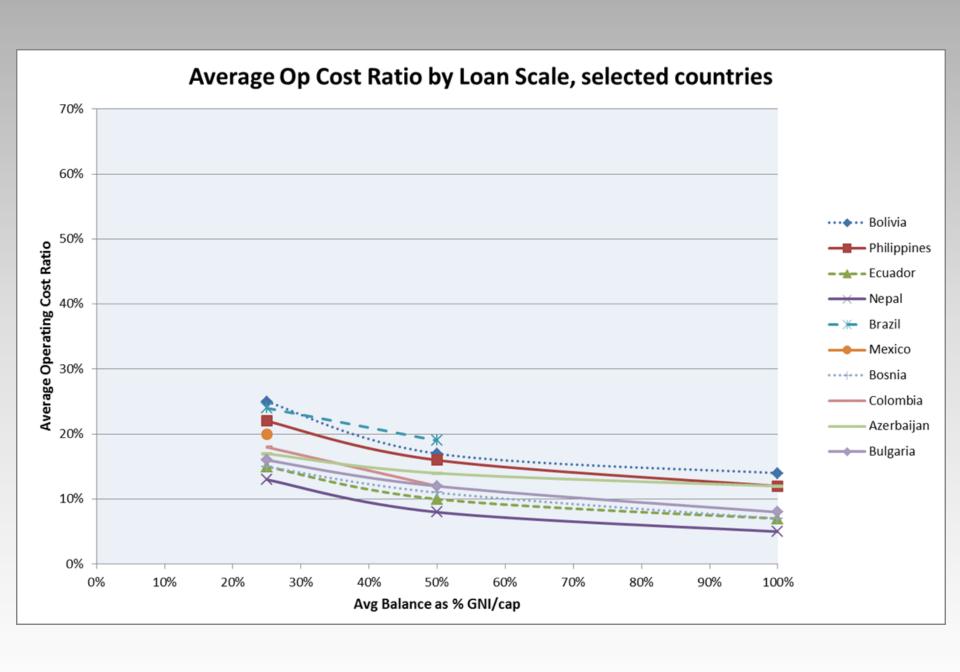


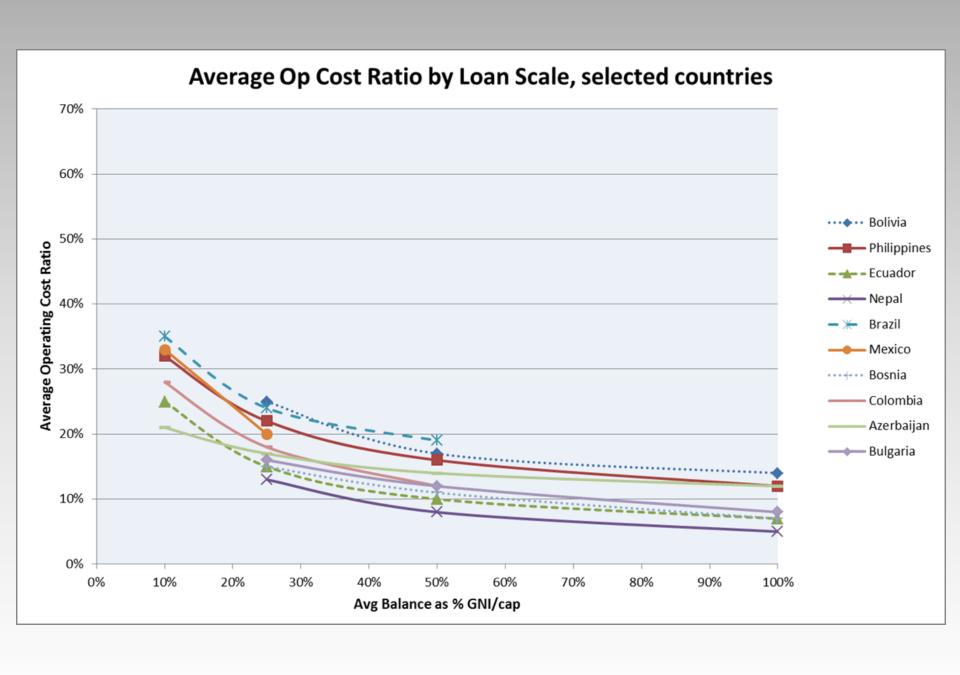


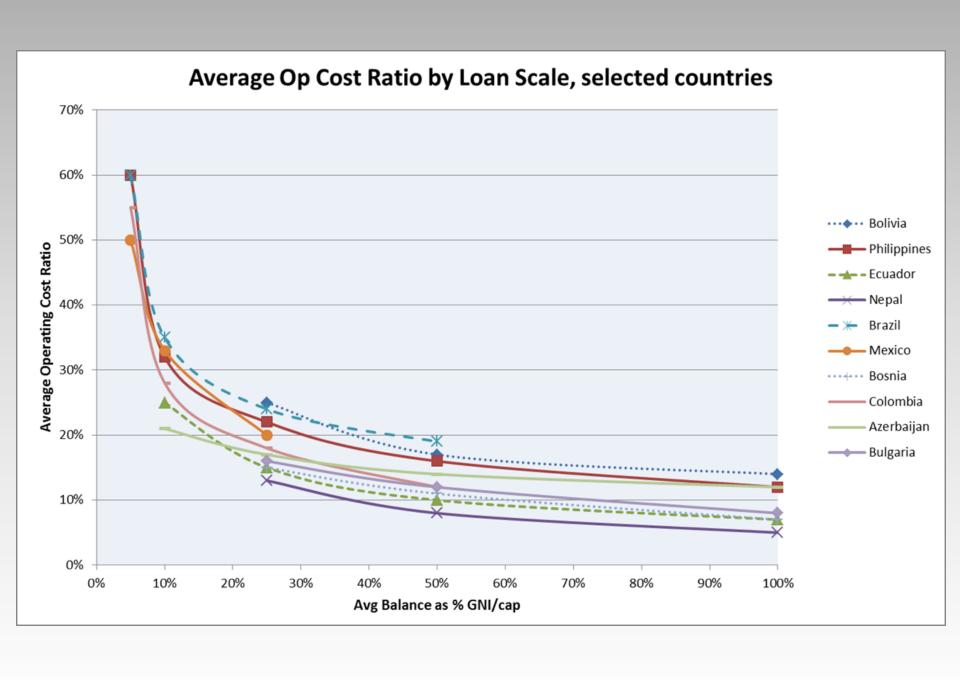


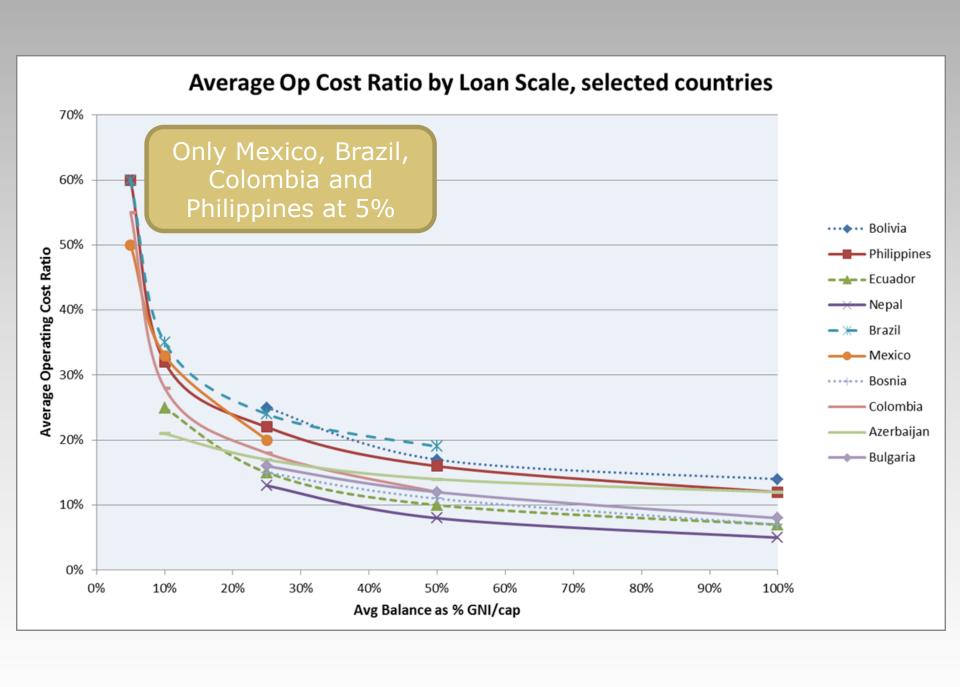


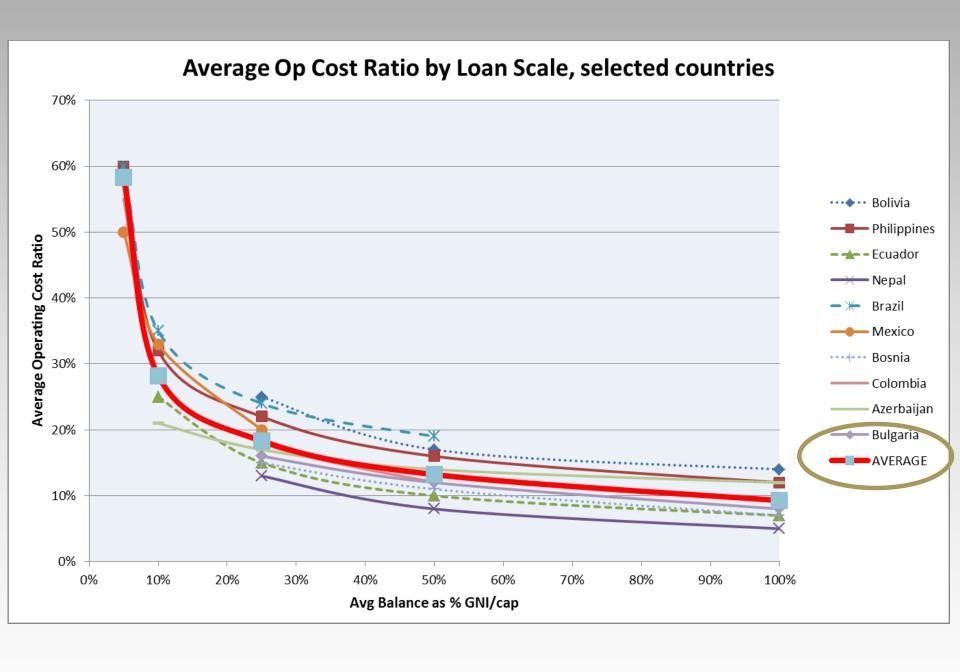


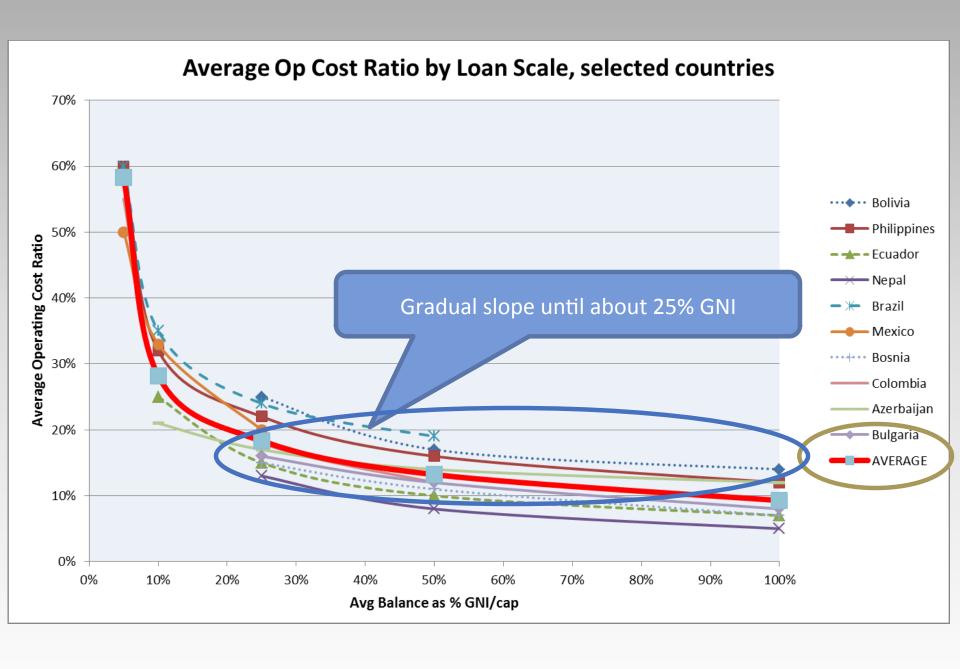


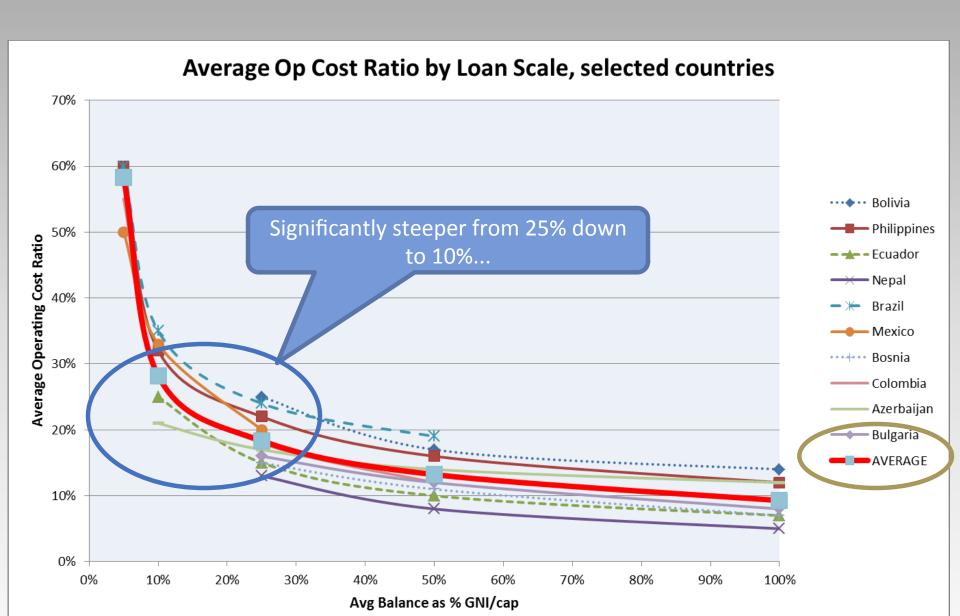


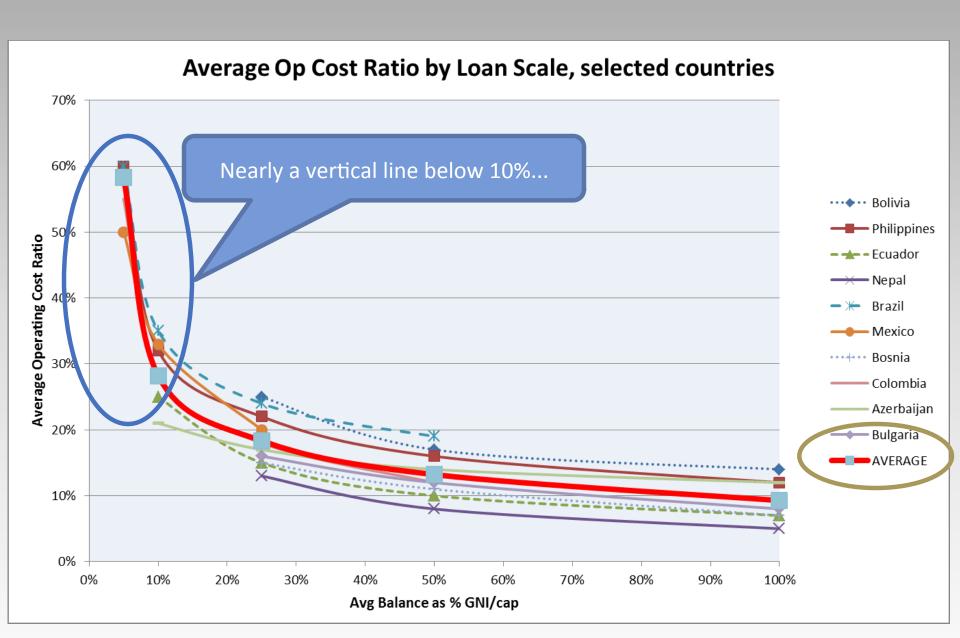


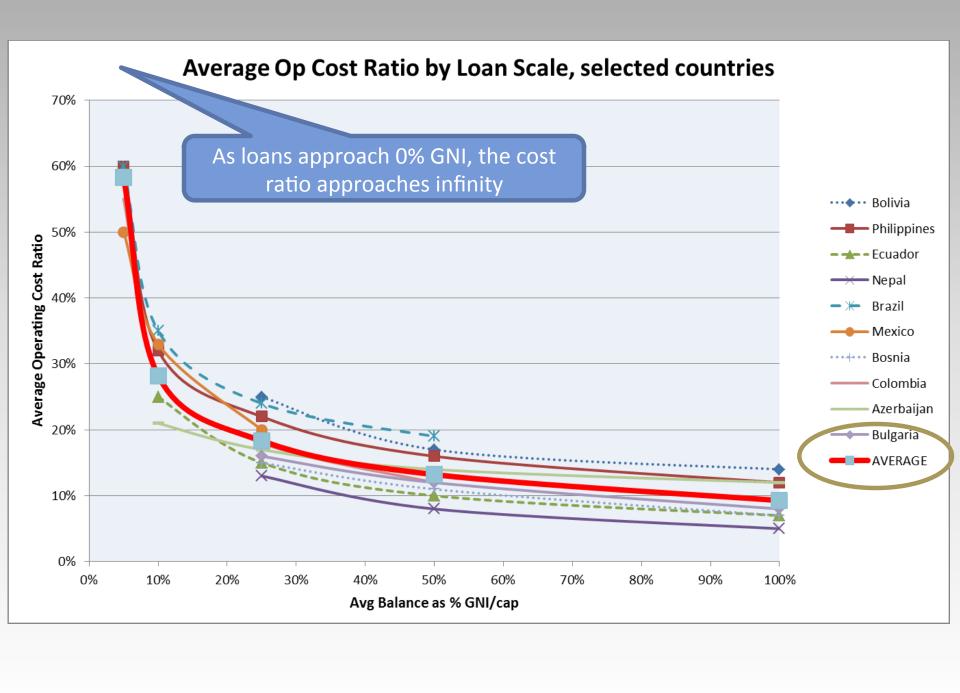


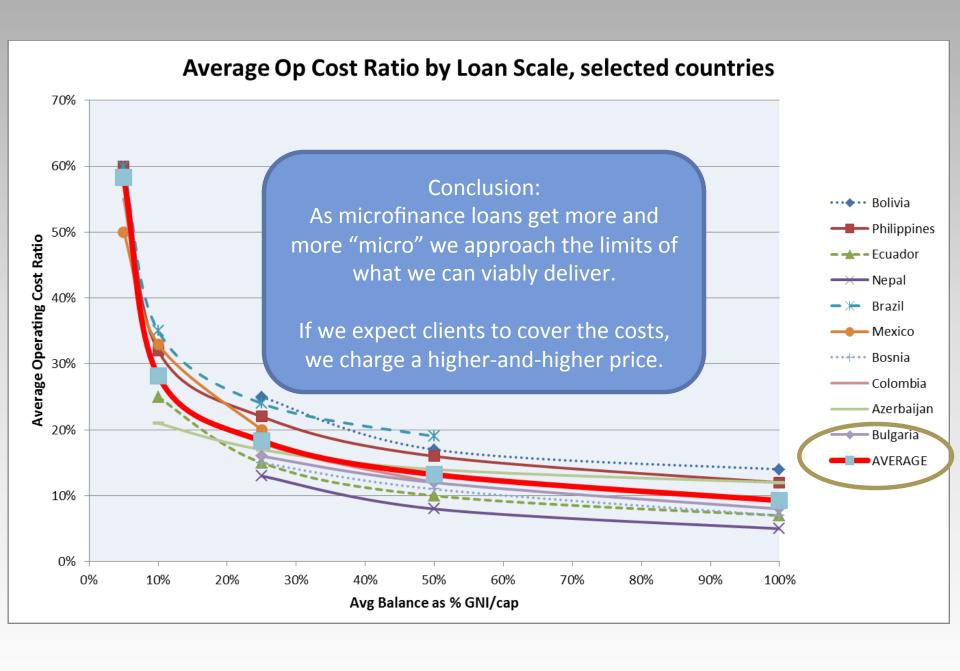












## Why do prices in MFIs come down?

Scale?
Competition?
Mature markets?



# **CMAC Sullana (Peru)**

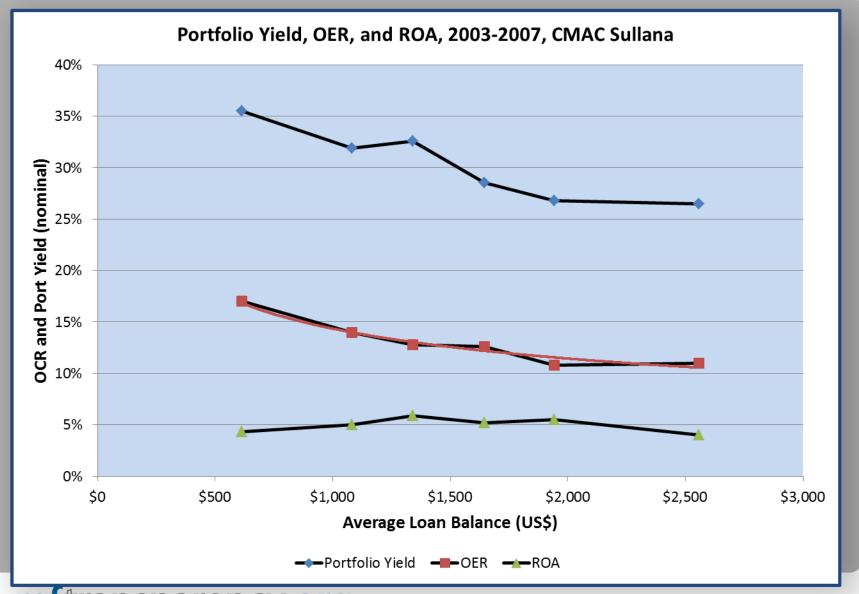
Year	Yield on gross portfolio (real)	Operating expense/loan portfolio	ROA
2003	35.52%	17.01%	4.36%
2004	31.90%	13.99%	5.02%
2005	32.65%	12.85%	5.88%
2006	28.54%	12.58%	5.16%
2007	26.84%	10.85%	5.50%
2008	26.48%	10.97%	4.02%

Price reductions due to improved efficiencies? Economies of scale? Increased competition?

# **CMAC Sullana (Peru)**

Year	Yield on gross portfolio (real)	Operating expense/loan portfolio	ROA	Average loan balance per borrower
2003	35.52%	17.01%	4.36%	614
2004	31.90%	13.99%	5.02%	1,082
2005	32.65%	12.85%	5.88%	1,340
2006	28.54%	12.58%	5.16%	1,646
2007	26.84%	10.85%	5.50%	1,942
2008	26.48%	10.97%	4.02%	2,557

As we deliberate on what is "responsible pricing", we must look at other factors, including loan size, loan purpose, loan term, and national market conditions.













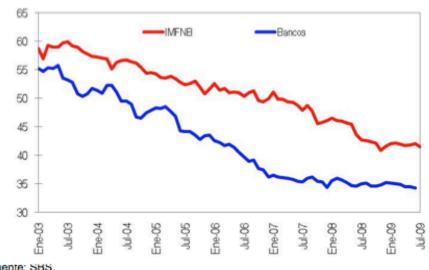




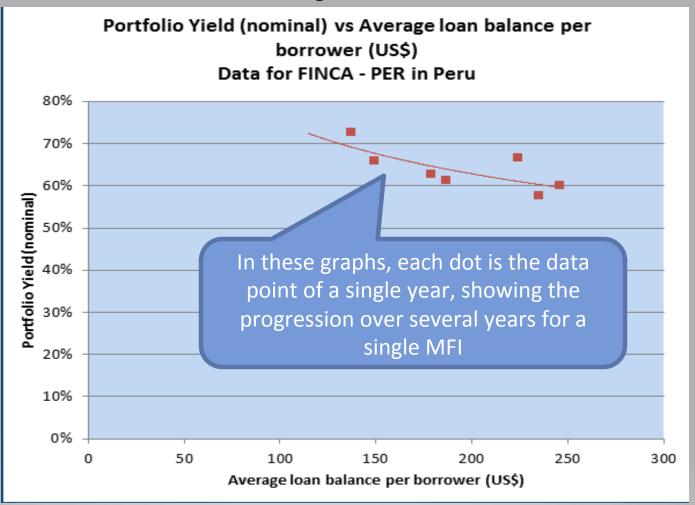


#### Las tasas de interés de microcréditos muestran una tendencia decreciente

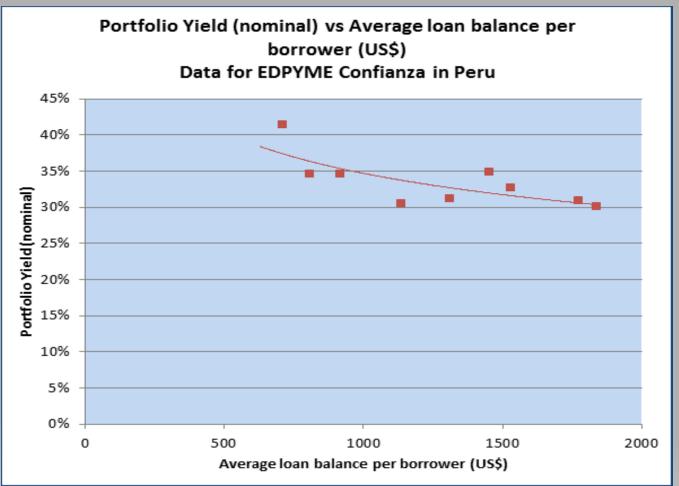
Tasas de Interès para Crèditos MES en MN (En porcentaje)

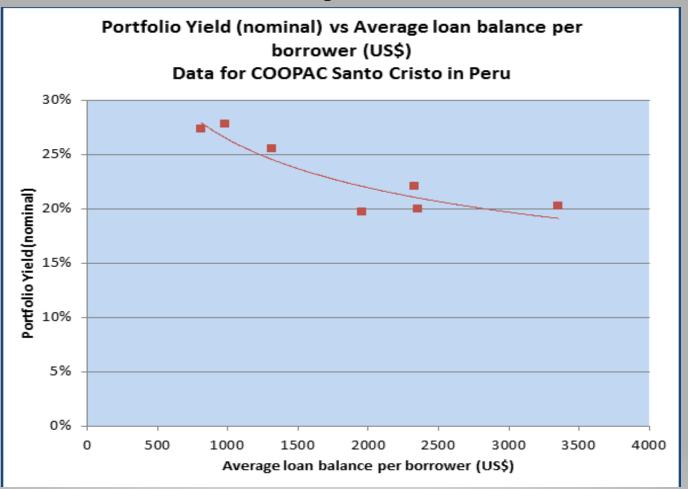


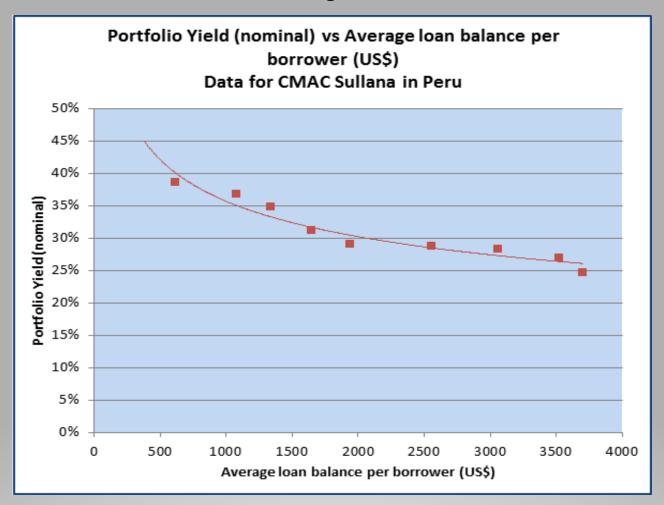
Fuente: SBS.



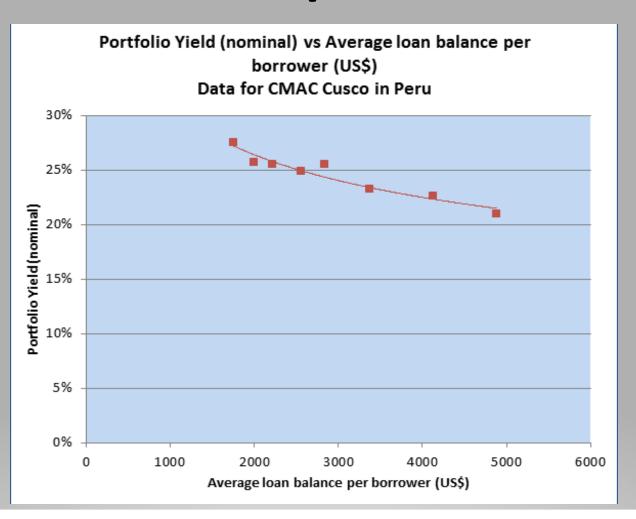


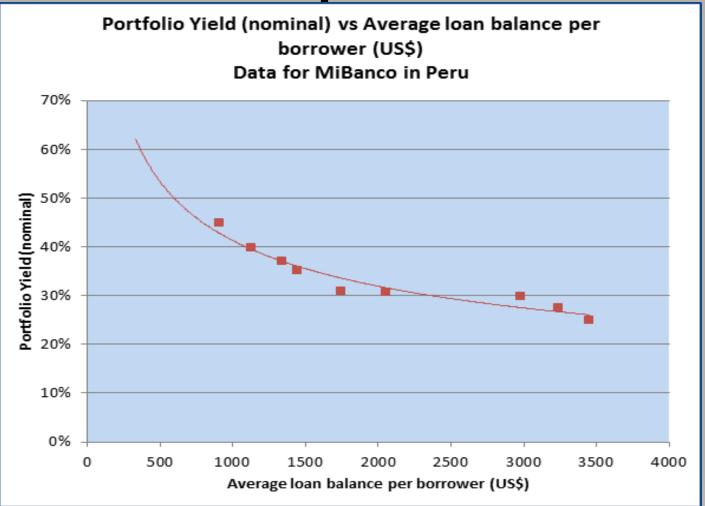






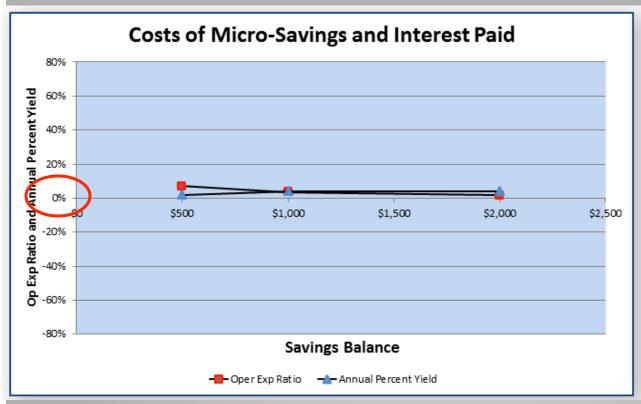




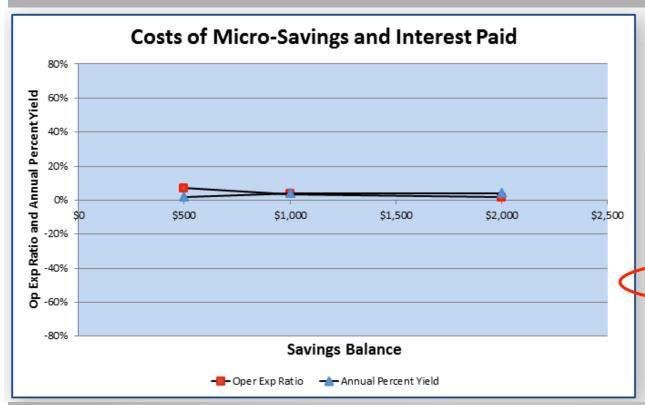


What about micro-savings?

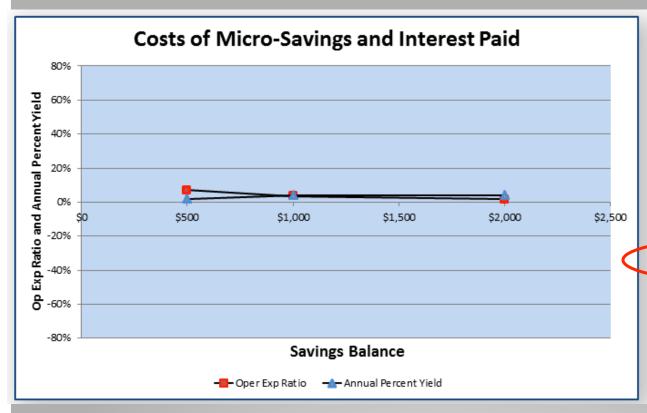
Is there a curve here?



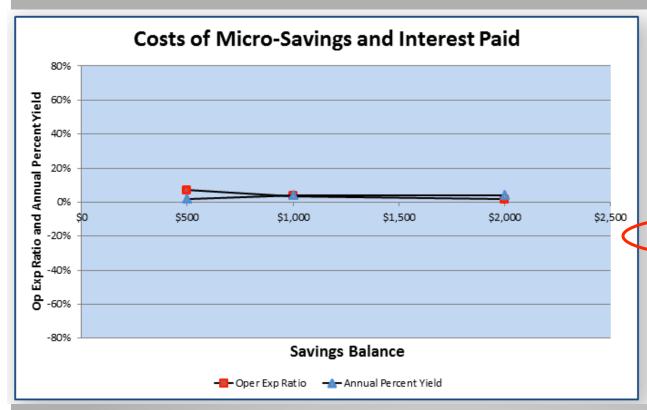
Average	Op Cost			Total
Balance	/Year	OCR	APY	Cost
\$50				0%
\$100				0%
\$200				0%
\$500	\$36	<b>7</b> %	2%	9%
\$1,000	\$36	4%	4%	8%
\$2,000	\$36	2%	4%	6%



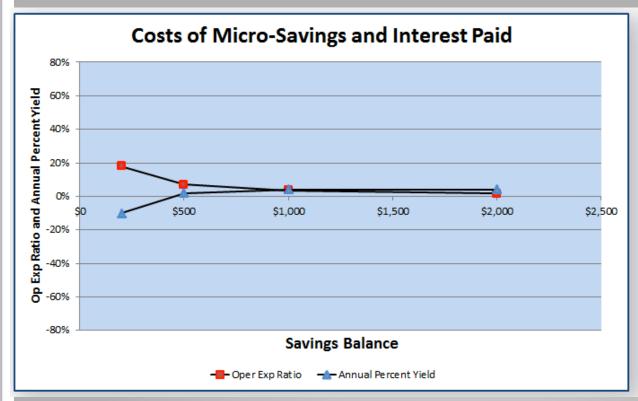
Average	Op Cost			Total
Balance	/Year	OCR	APY	Cost
\$50				0%
\$100				0%
\$200				0%
\$500	\$36	<b>7</b> %	2%	9%
\$1,000	\$35	4%	4%	8%
\$2,000	\$36	2%	4%	6%



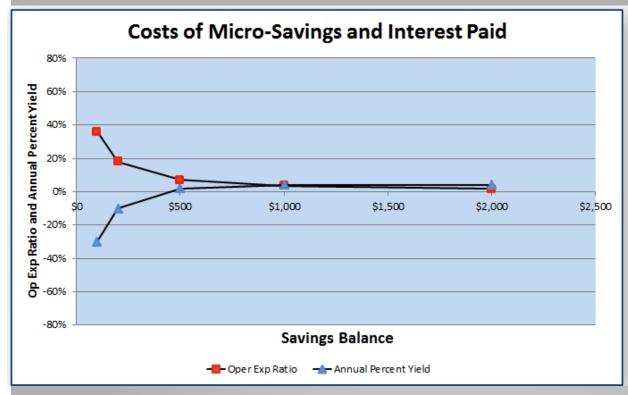
Average	Op Cost			Total
Balance	/Year	OCR	APY	Cost
\$50				0%
\$100				0%
\$200				0%
\$500	\$36	<b>7</b> %	2%	9%
\$1,000	\$36	4%	4%	8%
S2.000	\$36	2%	4%	6%



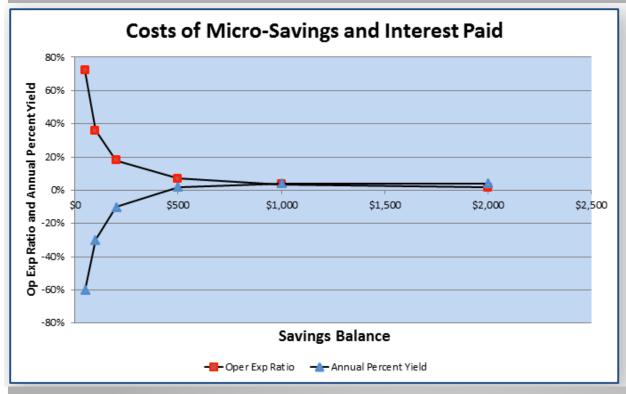
Average	Op Cost			Total
Balance	/Year	OCR	APY	Cost
\$50				0%
\$100				0%
\$200				0%
\$500	\$36	<b>7</b> %	2%	9%
\$1,000	\$36	4%	4%	8%
\$2,000	\$36	2%	4%	6%



Average	Op Cost			Total
Balance	/Year	OCR	APY	Cost
\$50				0%
\$100				0%
\$200	\$36	18%	-10%	8%
\$200 \$500	\$36 \$36	18% 7%	-10% 2%	8% 9%
	•		200	



				T-4-1
Average	Op Cost			Total
Balance	/Year	OCR	APY	Cost
\$50				0%
\$100	\$36	36%	-30%	6%
\$200	\$36	18%	-10%	8%
\$500	\$36	<b>7</b> %	<b>2</b> %	9%
\$1,000	\$36	4%	4%	8%
\$2,000	\$36	2%	4%	6%



Average	Op Cost			Total
Balance	/Year	OCR	APY	Cost
\$50	\$36	<b>72</b> %	-60%	12%
\$100	\$36	36%	-30%	6%
\$200	\$36	18%	-10%	8%
\$500	\$36	<b>7</b> %	<b>2</b> %	9%
\$1,000	\$36	4%	4%	8%
\$2,000	\$36	<b>2</b> %	4%	6%