

# Incorporating Product Prices into Institutional Analysis

PRI Webinar November 2012

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MicroFinance Transparency

#### **AGENDA**

Step 1: Understand Product Pricing

Step 2: Learn Where to Get Pricing Information

Step 3: Use Pricing Information to Make Better Decisions

#### STEP 1: Understand Product Pricing

- 1. Institutional Portfolio Yield is limited
- 2. Each product has its own price characteristics
  - Each <u>client</u> often has a specific price they pay
- 3. Know what formula/definition is used
  - What you decide to include in the price calculation is critical
  - Is the annualization process nominal or compound?

### Global Portfolio Yield Isn't Enough

What happens if an MFI has two or more products?

Of different sizes?

Different purposes?

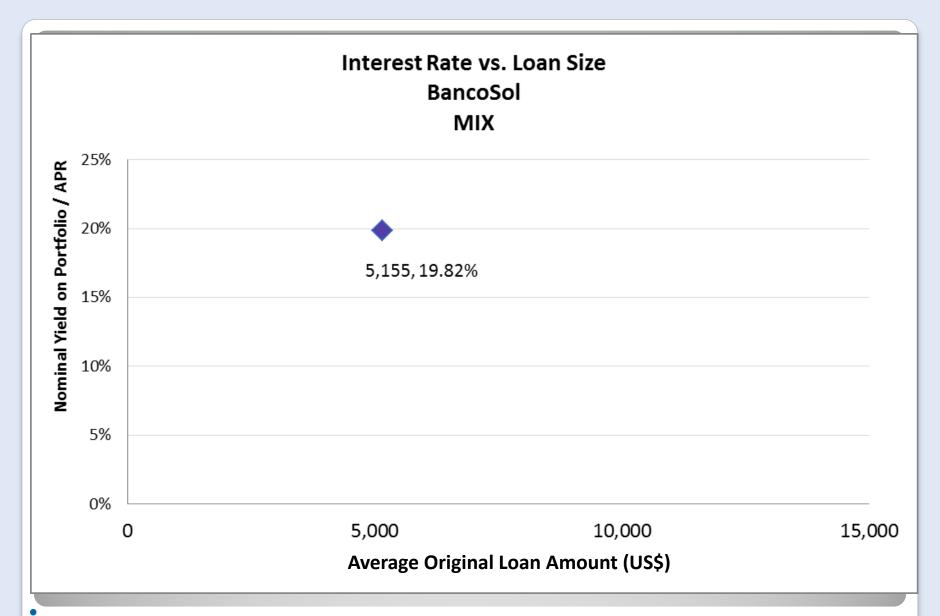
Do they charge the same price on all products?

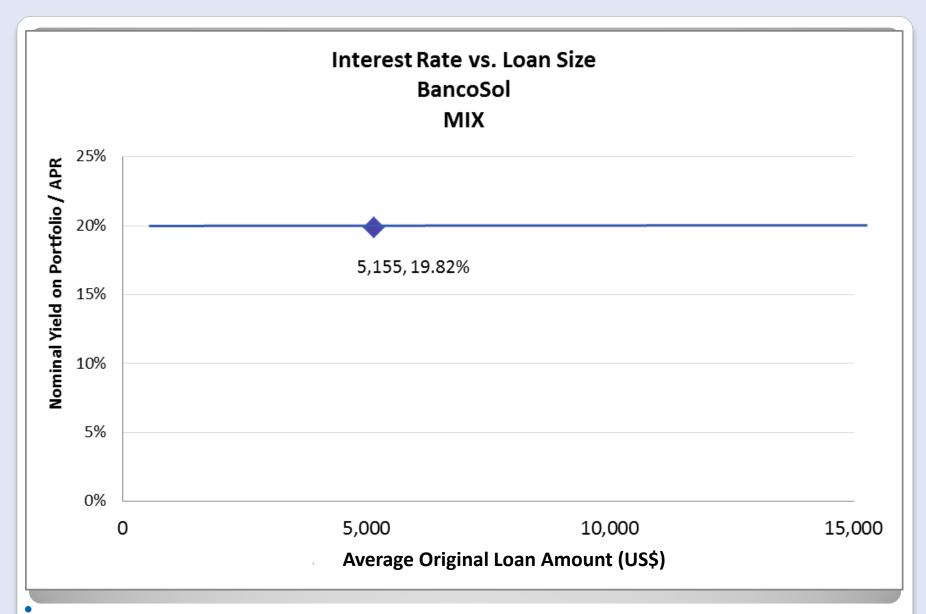
Almost never.

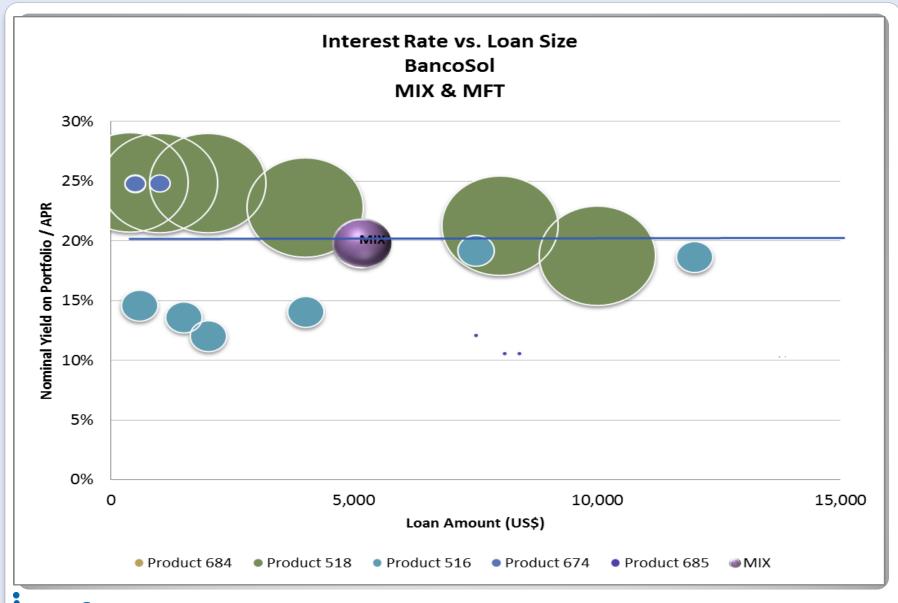
Average Portfolio Yield is masking the true price.

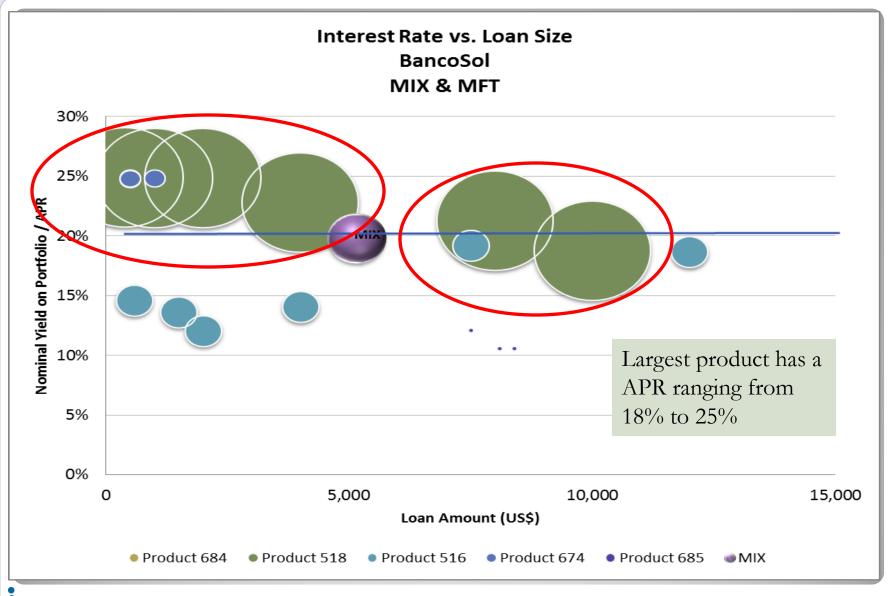
### Why Portfolio Yield Isn't Enough

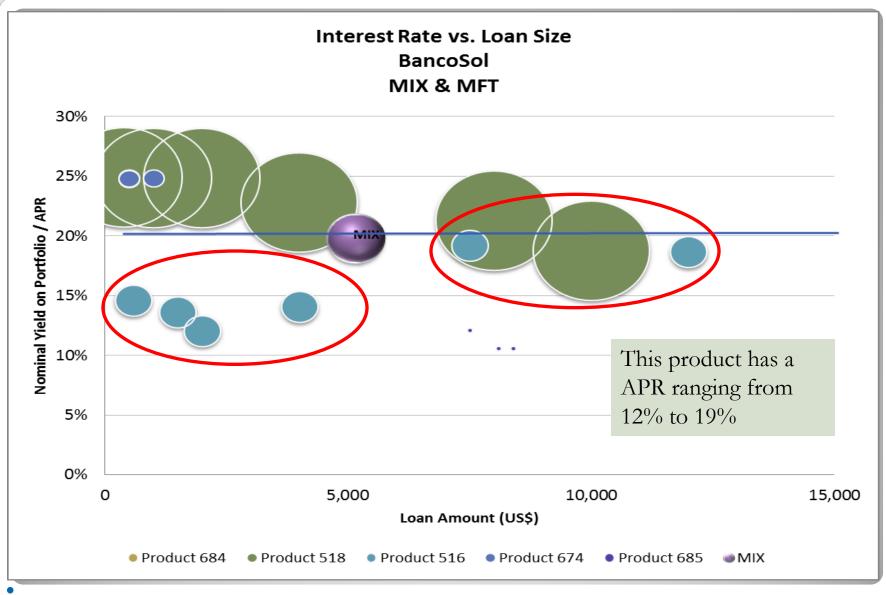
MIX (31-12-2009)						
MFI	Average loan balance per borrower	Yield on portfolio (nominal)	Initial Loan Size			
BancoSol	2,713	19.82%	5,155			

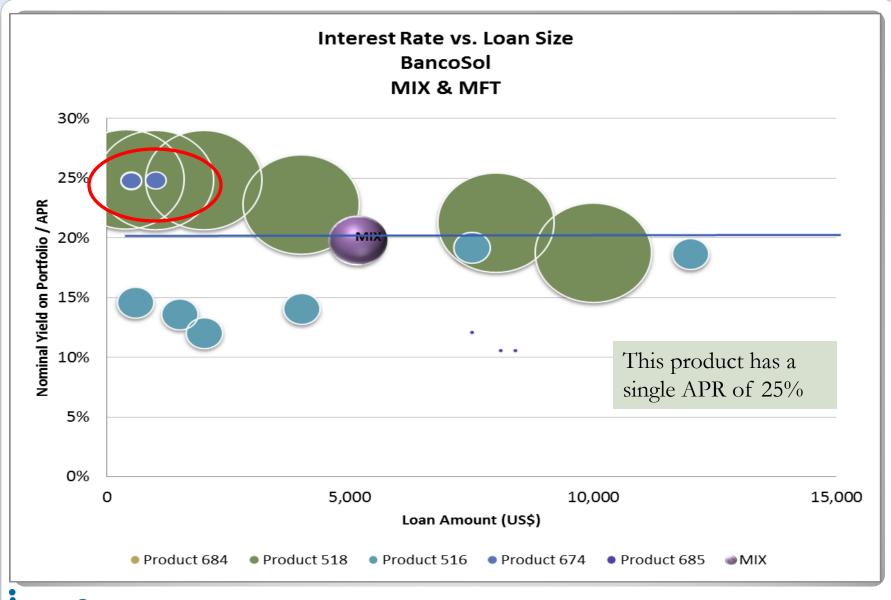


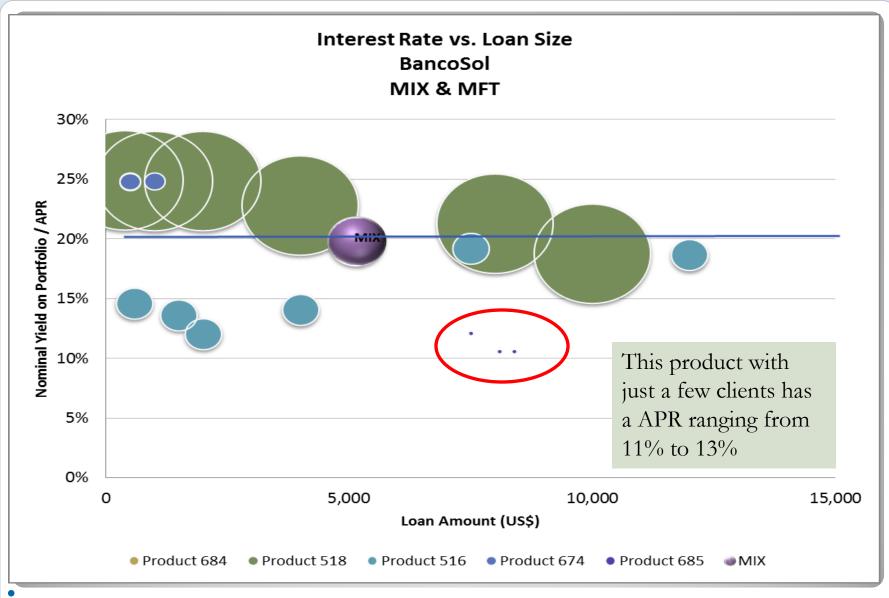


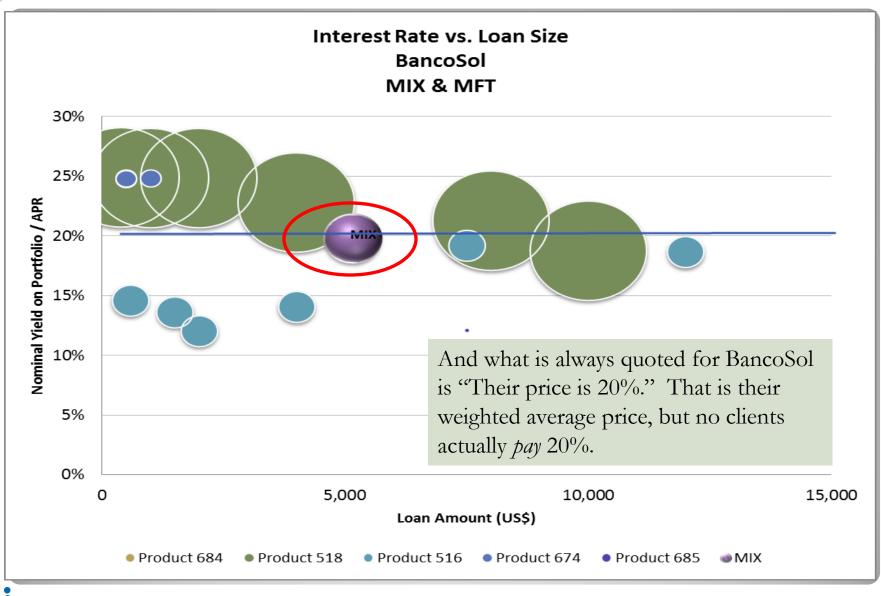












#### "What costs should we include?"

- Interest: Certainly!
- What else? Everything that is a compulsory requirement for receiving the loan.
- Fees: Any compulsory fees must be included
  - Training fees? Yes, if the training is a requirement for the loan. The full-price is then for "credit-plus-training"
  - **Insurance** fees? Yes, if insurance is a requirement. The client can then compare: "Loan-only for 34% APR, loan-and-insurance for 38% APR"
  - Compulsory Deposits ("Savings"): Yes!

Period "I"	APR	EIR	Difference
0.5%	6.00%	6.17%	0.17%
1.0%	12.00%	12.68%	0.68%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
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	0.00%	0.00%	0.00%
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Period "I"	APR	EIR	Difference
0.5%	6.00%	6.17%	0.17%
1.0%	12.00%	12.68%	0.68%
1.5%	18.00%	19.56%	1.56%
2.0%	24.00%	26.82%	2.82%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
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Period "I"	APR	EIR	Difference
renou i	AFK	LIK	Difference
0.5%	6.00%	6.17%	0.17%
1.0%	12.00%	12.68%	0.68%
1.5%	18.00%	19.56%	1.56%
2.0%	24.00%	26.82%	2.82%
3.0%	36.00%	42.58%	6.58%
4.0%	48.00%	60.10%	12.10%
5.0%	60.00%	79.59%	19.59%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%

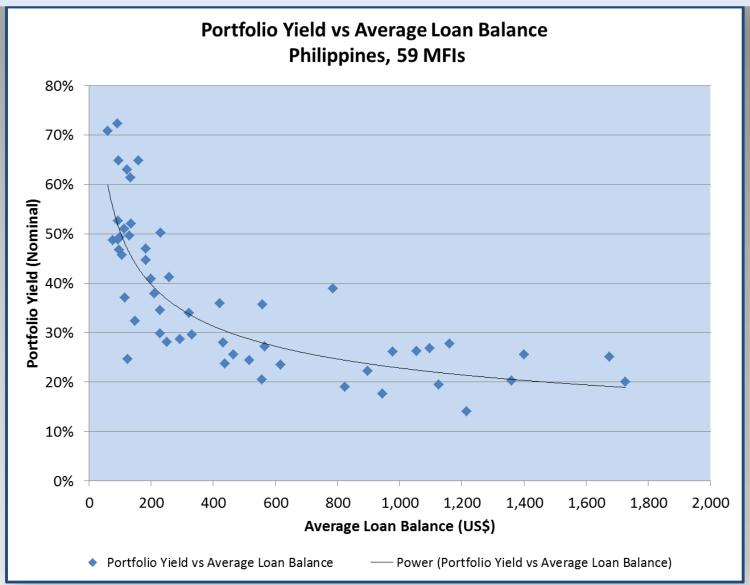
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2.0%	24.00%	26.82%	2.82%
3.0%	36.00%	42.58%	6.58%
4.0%	48.00%	60.10%	12.10%
5.0%	60.00%	79.59%	19.59%
6.0%	72.00%	101.22%	29.22%
7.0%	84.00%	125.22%	41.22%
8.0%	96.00%	151.82%	55.82%
9.0%	108.00%	181.27%	73.27%
10.0%	120.00%	213.84%	93.84%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%

Period "I"	APR	EIR	Difference
0.5%	6.00%	6.17%	0.17%
1.0%	12.00%	12.68%	0.68%
1.5%	18.00%	19.56%	1.56%
2.0%	24.00%	26.82%	2.82%
3.0%	36.00%	42.58%	6.58%
4.0%	48.00%	60.10%	12.10%
5.0%	60.00%	79.59%	19.59%
6.0%	72.00%	101.22%	29.22%
7.0%	84.00%	125.22%	41.22%
8.0%	96.00%	151.82%	55.82%
9.0%	108.00%	181.27%	73.27%
10.0%	120.00%	213.84%	93.84%
12.0%	144.00%	289.60%	145.60%
15.0%	180.00%	435.03%	255.03%

#### STEP 2: Get Pricing Info

- 1. Start with portfolio yields, then get more detail
- 2. MicroFinance Transparency website
- 3. Ratings Reports
- 4. Calculate it yourself using MFT's tools

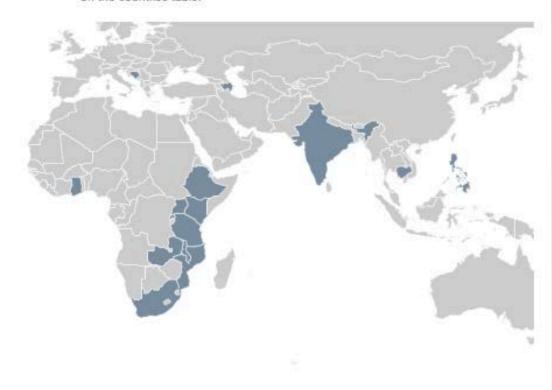
#### "Pricing" with MIX Portfolio Yield



#### **MFTransparency Truth In Lending Tables**

MicroFinance Transparency collects microfinance interest rate data for individual country markets and publishes this data as a series of interactive tables and graphs. MFTransparency's global pricing page features diverse microfinance product prices data from 17 countries. The individual country pages and interactive institutional data can be accessed by clicking on the names of the country on the global pricing map or alternatively on the countries table.





20 Number of countries in Which MF fransparency operates

437 Total number of institutions MFTransparency covers

1,461 Loan products accessible in MF transparency's database

41.3Mil Number of clients that are participating institutions

FTRANSPARENCY INITIATIVE COUNTRIES						
Country	Region	# Borrowers	Products	Institutions	Portfolio Size	Transp Index
Azerbaijan	Central Asia	452,211	42	11	1,424,886,393	ToDo
Dollaria	Latin America	022 101	100	20	1 040 014 026	ТоПо

#### UNDERSTANDING PRICING

#### Resources

- Briefing on the "Challenge of Understanding Microloans"
- Independent Study Course -

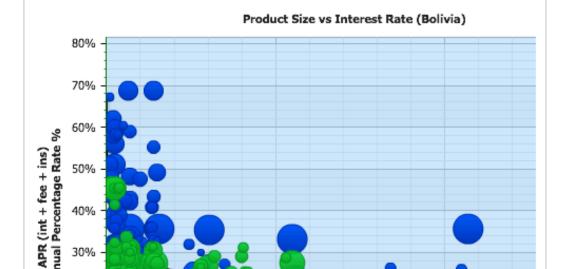


#### **Transparent Pricing In Bolivia**

The Transparent Pricing Initiative in Bolivia was launched in May 2010 in partnership with two local microfinance networks ASOFIN and FINRURAL. The pricing data voluntarily submitted by the industry covers the vast majority of the Bolivian microfinance market, representing 95% of its gross loan portfolio and 98% of active borrowers.



The Price Graph for Bolivia is a model example of the price curve explained and documented extensively by MFTransparency. As can be seen, microloan prices are significantly higher for smaller loans than for relatively larger loans. In all likelihood, these higher prices for smaller loans are due to the high costs associated with offering them. The evidence in Bolivia, with its long history of maturation and competition and with its transparent pricing legislation, is that the market is operating much like a real market, and in such an open and competitive market, prices are generally higher on the smallest loans without profits also being higher on the smallest loans.



# BROWSE TRUTH IN LENDING Bolivia MFIs: Select institution... Other Countries: Select country... CLOBAL PRICING HOME

# Bolivia Gross Loan Portfolio: US\$1.9 Million No. of Active Borrowers: 923,101 No. of MFIs: 22 Participation Rate: 98% Initiative start date: February 2010 Update Frequency: Never

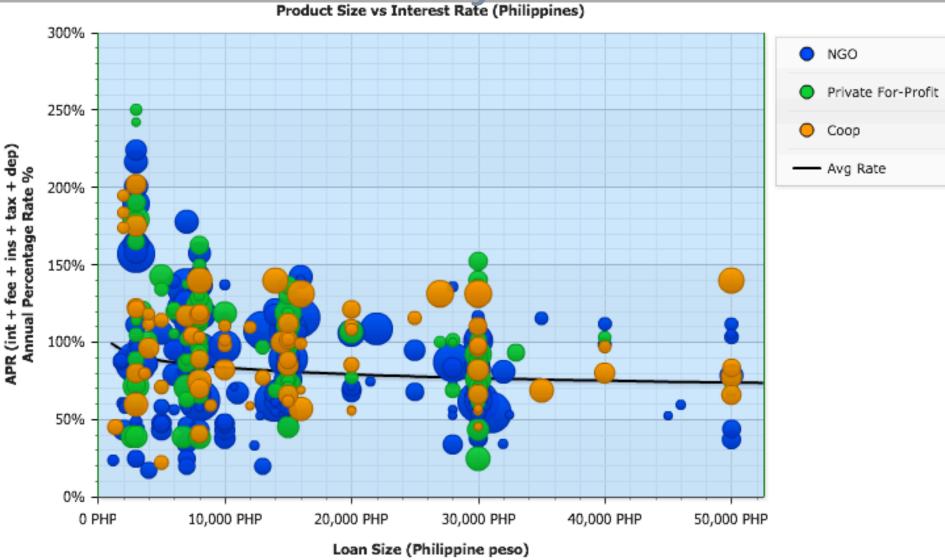
#### **LATEST NEWS & RESOURCES**

#### News

- MFTransparency launched Transparent Pricing Initiative in Bolivia
- Pricing Transparency Launch in



# Pricing on MFTransparency – Country Level Product Size vs Interest Rate (Philippines)



# Pricing on MFTransparency – Institution Level

#### **Philippines**

#### Alalay sa Kaunlaran, Inc.

Institution Type NGO

Website http://www.aski.com.ph/

Address 105 Maharlika Highway

Cabanatuan, Philippines

Num Branches 38

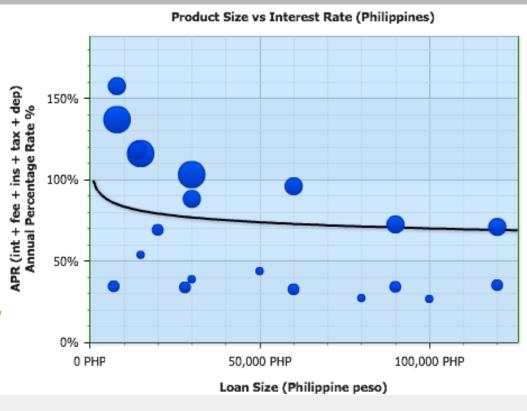
Num Clients 60,018

Year Started 1987

#### Alalay sa Kaunlaran, Inc. offers products in 1 currency

#### View in graph:

Philippine peso (PHP)





# Pricing on MFTransparency – Product Level

#### **Philippines**

Institution: Alalay sa Kaunlaran, Inc.

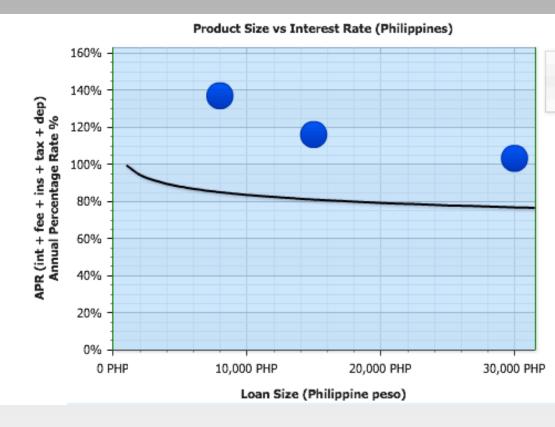
> Product: AKP - Alalay sa Kabuhayan

Program (Group Loans)

Institution Alalay sa Kaunlaran, Inc.

Country Philippines

Purpose Business





You can use our MFT Pricing
Calculator to deepen your
understanding and to calculate actual
prices of loans

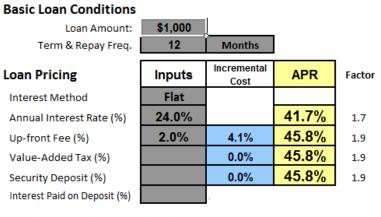
### **MFTransparency Pricing Tool**

- Download our free software to study and calculate pricing.
- It runs in Microsoft Excel and is multi-lingual



### MFT Pricing Calculation Tool – **Basic Analysis**

#### Calculation of APR based on Loan Conditions and Pricing -- SIMPLE APPROACH



#### Total Financial Cost to the Client

Fotal Cost (less Sec.Dep. int):	\$260	in12 Months
Annualized	\$260	in 1 year
Avg net loan balance:	\$522	52% of original loan amount

This is the amount the client has to invest in her business

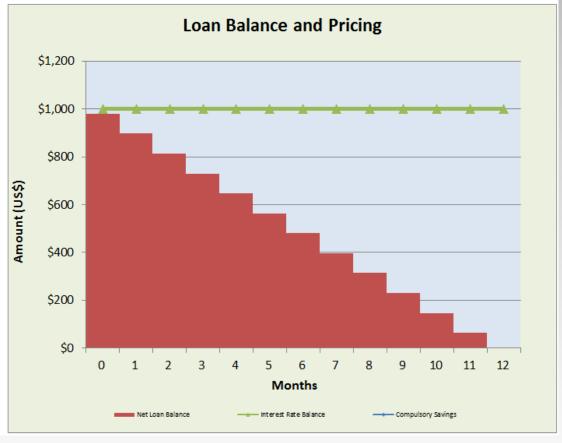
24.1 The month when the total loan cost equals the avg loan balance

Months

Amount of Time with Negative Net Balance

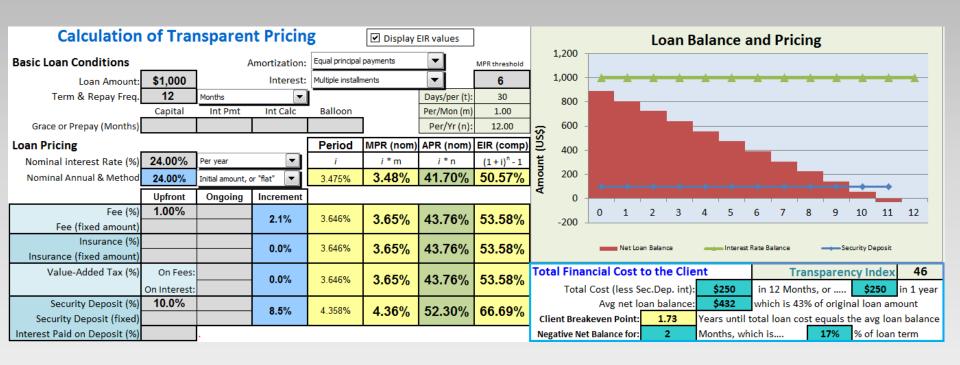
Client Breakeven Point:

Months 0% % of loan term:





# MFT Pricing Calculation Tool – Advanced Analysis





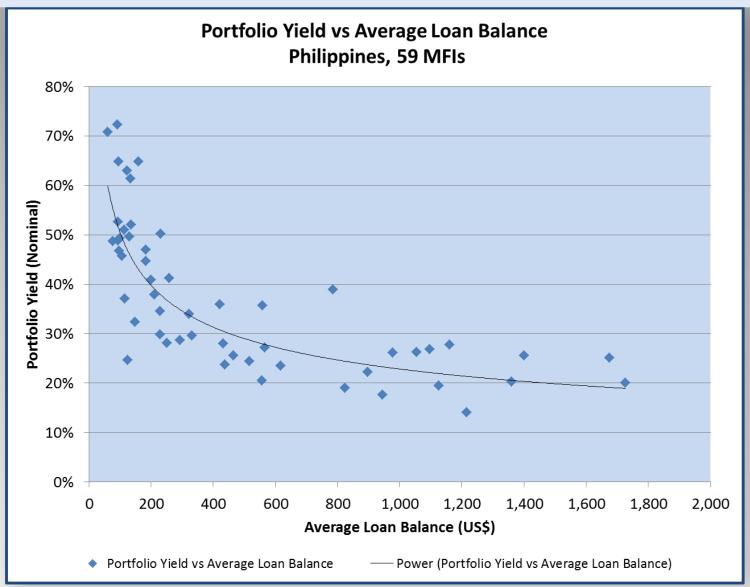
# MFT Pricing Calculation Tool – Advanced Analysis

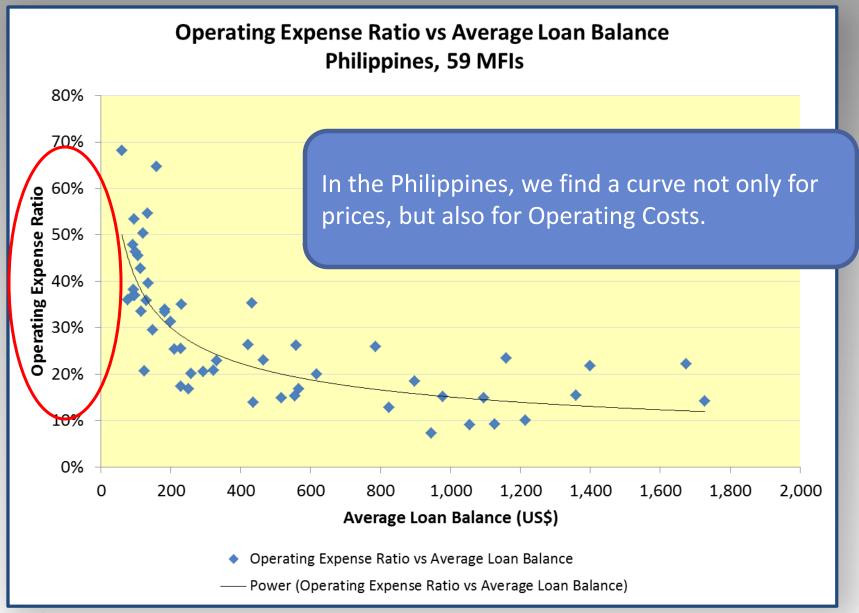
Calculation of Transparent Pricing				✓ Display I	EIR values		
Basic Loan Conditions		Д	Amortization:	Equal principal	payments		MPR threshold
Loan Amount:	\$1,000		Interest:	Multiple installr	nents		6
Term & Repay Freq.	12	Months				Days/per (t):	30
	Capital	Int Pmt	Int Calc	Balloon	_	Per/Mon (m)	1.00
Grace or Prepay (Months)						Per/Yr (n):	12.00
Loan Pricing				Period	MPR (nom)	APR (nom)	EIR (comp)
Nominal interest Rate (%)	24.00%	Per year		i	<i>i</i> * m	<i>i</i> * n	(1 + i) <sup>n</sup> - 1
Nominal Annual & Method	24.00%	Initial amount, o	or "flat" ▼	3.475%	3.48%	41.70%	50.57%
	Upfront	Ongoing	Increment				
Fee (%)	1.00%		2.1%	3.646%	3.65%	43.76%	53.58%
Fee (fixed amount)			2.170	3.04070	3.03 /0	43.70 /0	JJ.JO /0
Insurance (%)			0.0%	3.646%	3.65%	43.76%	53.58%
Insurance (fixed amount)			0.076	0.04070	3.03 /6	45.70 /0	33.30 /0
Value-Added Tax (%)	On Fees:		0.0%	3.646%	3.65%	43.76%	53.58%
	On Interest:		0.076	3.04070	3.03 /0	45.70 /0	33.30 /0
Security Deposit (%)	10.0%		8.5%	4.358%	4.36%	52.30%	66.69%
Security Deposit (fixed)			0.076	4.55070	4.50 /0	J2.JU / <sub>0</sub>	00.09 /0
Interest Paid on Deposit (%)							

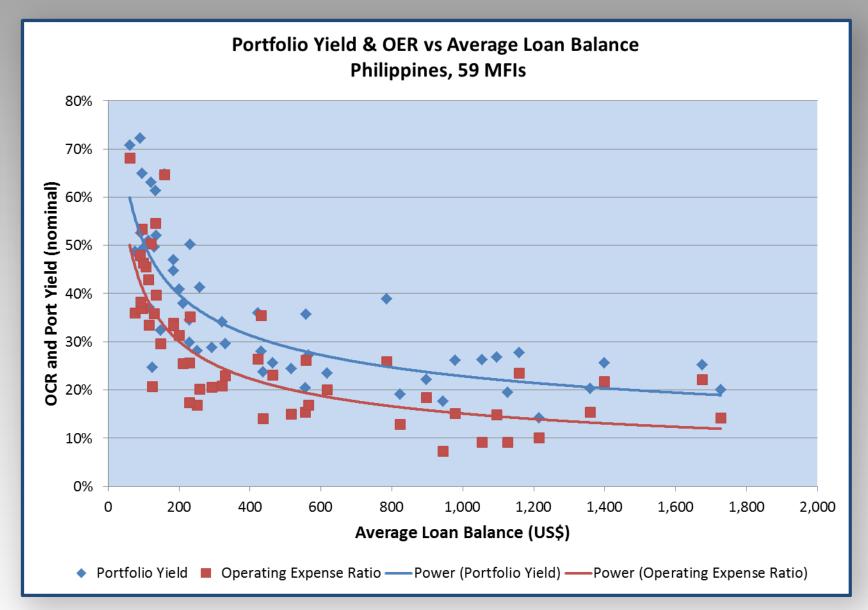
# STEP 3: Using Pricing Info to Make Better Decisions

- 1. Cardinal Rule in analyzing micro-loans: <u>Never use</u> averages!
- 2. Understand the price curve and learn more about where the curve begins
- 3. For each product, evaluate how close to the curve are they this is as best we can get to a "fair market price"
- 4. Compare price info with operating cost info and profits

#### The Undeniable Price Curve







#### 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%		

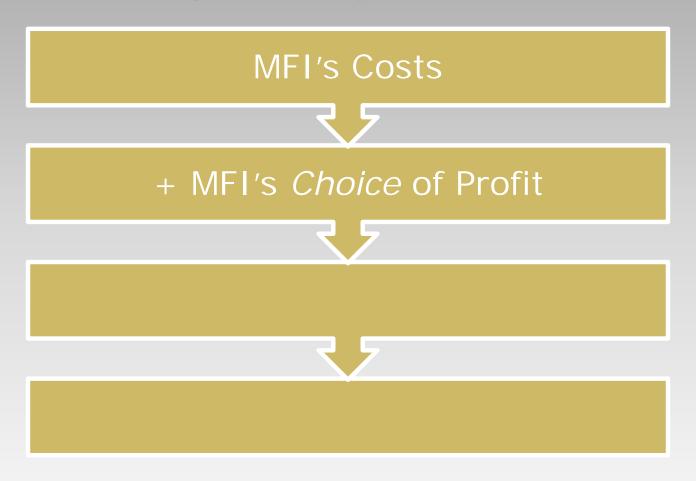
#### Realizing that there is a cost curve

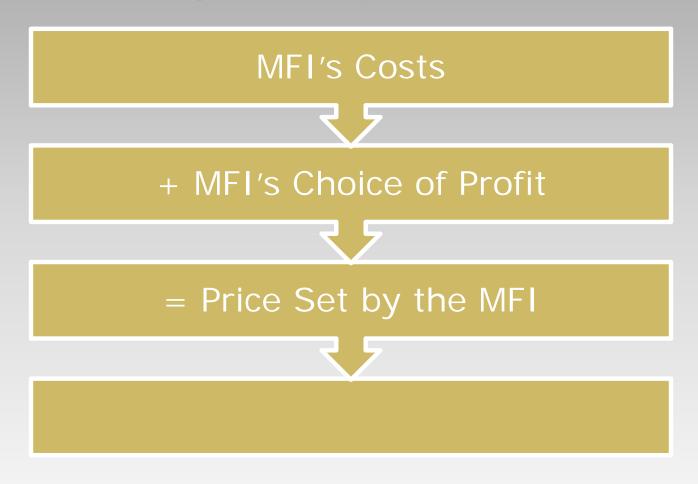
Efficiency	1	2	3
Operating Cost per Loan	\$50	\$50	
Loan Size	\$500	\$250	
Operating Cost Ratio	10%	20%	

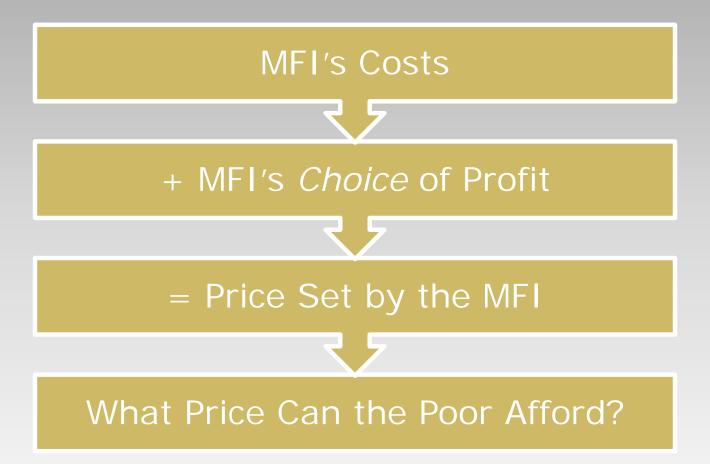
#### Realizing that there is a cost curve

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









# Promoting Transparent Pricing in the Microfinance Industry

MicroFinance Transparency is an NGO registered in the USA

