

Defining True Price

Chuck Waterfield
Africa Pricing Transparency
Leadership Forum
Nairobi
June 2013

Income (Price)

What price DO we charge?

What is a "transparent price"?

How should we DEFINE price?





mftransp

How did we end up with such non-transparent pricing?

- 1. How did prices get so confusing and nontransparent?
- 2. It is a combination of:
 - Lack of transparent pricing regulation
 - Initial motivation of a small minority to mask the true price
- The result is a downward spiral drawing in nearly all MFIs

All MFIs have transparent prices

- 1. MFI 1:
 - Interest: 2.5% decl.

- 2. **MFI 2:**
 - Interest: 3.0% decl.

- All MFIs have transparent prices
- 2. Some MFIs shift to flat interest

- 1. MFI 1:
 - Interest: 2.5% decl.

- 2. MFI 2:
 - Interest: 2.0% flat

- All MFIs have transparent prices
- 2. Some MFIs shift to flat interest
- 3. All MFIs shift to nontransparent pricing

- 1. MFI 1:
 - Interest: **1.75% flat**

- 2. **MFI 2**:
 - Interest: 2.0% flat

- All MFIs have transparent prices
- Some MFIs shift to flat interest
- 3. All MFIs shift to nontransparent pricing.. And it continues

- 1. MFI 1:
 - Interest: 1.75% flat

- 2. MFI 2:
 - Interest: 1.6% flat, 2% upfront fee

- All MFIs have transparent prices
- Some MFIs shift to flat interest
- All MFIs shift to nontransparent pricing
- 4. Consumers struggle to choose.... Which would YOU choose?

- 1. MFI 1:
 - Interest: 1.75% flat

- 2. MFI 2:
 - Interest: 1.6% flat, 2% upfront fee

- All MFIs have transparent prices
- Some MFIs shift to flat interest
- All MFIs shift to nontransparent pricing
- 4. Consumers struggle to choose... Because the prices are far from clear

1. MFI 1:

• Interest: 1.75% flat

APR: 37%

2. MFI 2:

• Interest: 1.6% flat, 2% upfront fee

APR: 57%

- All MFIs have transparent prices
- Some MFIs shift to flat interest
- All MFIs shift to nontransparent pricing
- 4. Consumers struggle to choose
- 5. Profits are correlated to price when loans are identical

1. MFI 1:

• Interest: 1.75% flat

APR: 37%

ROE: 10%

2. **MFI 2**:

• Interest: 1.6% flat, 2% upfront fee

• APR: 57%

ROE: 40%

- 1. Prices are far from clear, and thus:
 - Consumers over-consume
 - Market competition is hindered
 - Strong temptation from high profits
 - The poor are harmed
 - Public image is tarnished
 - Governments urged to intervene
- Transparency, and particularly pricing transparency, is a key element to correct this serious problem in the microfinance industry

How should we define a "Transparent Price"?

Total Cost of Credit (TCC)?
Annual Percentage Rate (APR)?
Effective Interest Rate (EIR)?

(And can't we just keep using portfolio yield as a proxy for price? We've been doing that for years!)

Total Cost of Credit

"Isn't Total Cost of Credit sufficient? It's what clients ask for. They don't understand abstract percentages!"







1 liter



3 liters

Prices of loans are much harder....

We aren't buying an item, we are renting money, and we are renting a variable amount of money for a variable amount of time.

Example 1

	Loan 1	Loan 2		
Amount	\$1,000	\$1,000		
Term	12 months	12 months		
Total Cost	\$130	\$119		

Example 1

	Loan 1 Loan 2			
Amount	\$1,000	\$1,000		
Term	12 months	12 months		
Total Cost	\$130	\$119		
APR	24%	22%		

Example 2

	Loan 1	Loan 2		
Amount	\$1,000	\$1,500		
Term	12 months	18 months		
Total Cost	\$179	\$333		

Example 2

	Loan 1	Loan 2	
Amount	\$1,000	\$1,500	
Term	12 months	18 months	
Total Cost	\$179	\$333	
APR	33%	28%	

Now which?

Example 3

	Loan 1	Loan 2		
Amount	\$2,000	\$3,000		
Term	6 months	12 months		
Compulsory Savings	10%	0%		
Total Cost	\$245	\$568		

Now which?

Example 3

	Loan 1	Loan 2		
Amount	\$2,000	\$3,000		
Term	6 months	12 months		
Compulsory Savings	10%	0%		
Total Cost	\$245	\$568		
APR	50%	35%		

"Should we use TCC with clients?"

(Total Cost of Credit)

- No!! TCC only works for exactly identical products
 - TCC is flawed even for products that seem very similar.
 - TCC is deceptive for comparing dissimilar products
- Why?
 - A client doesn't buy a loan.
 - A client rents a variable amount of money for a variable amount of time.
 - We shouldn't use a "purchase price", we need to use a "rental price"

What is the APR?

(Annual Percentage Rate)

The APR indicates the cost for you to borrow \$1.00 for one year. *It is a unit rental cost.*

An APR of 30% means it would cost you 30 cents to borrow \$1.00 and keep the entire \$1.00 for one full year.

The APR is an essential figure for you to compare the true cost of different loans.

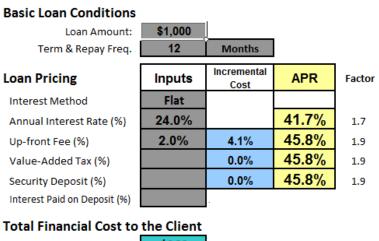
"What costs should we include?"

- 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! We'll see later.

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

MFT Pricing Calculation Tool – **Basic Analysis**

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



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

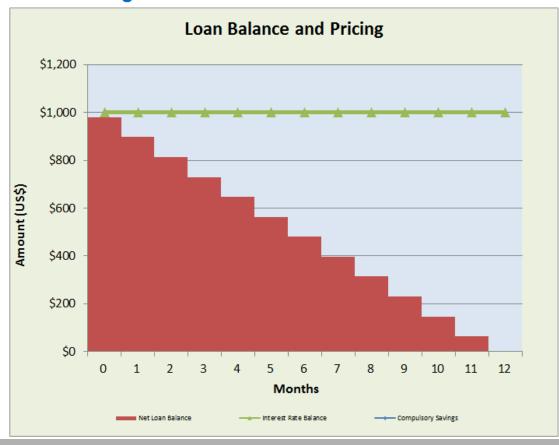
This is the amount the client has to invest in her business

Client Breakeven Point: 24.1 Months

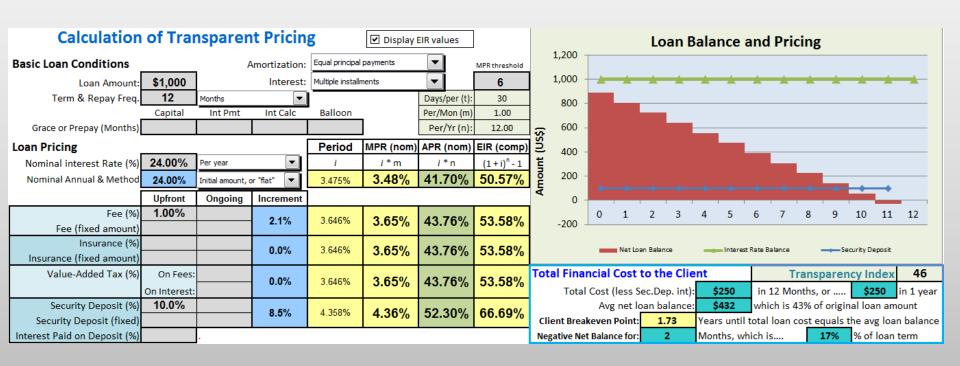
The month when the total loan cost equals the avg loan balance

Amount of Time with Negative Net Balance

Months:	0
% of loan term:	0%



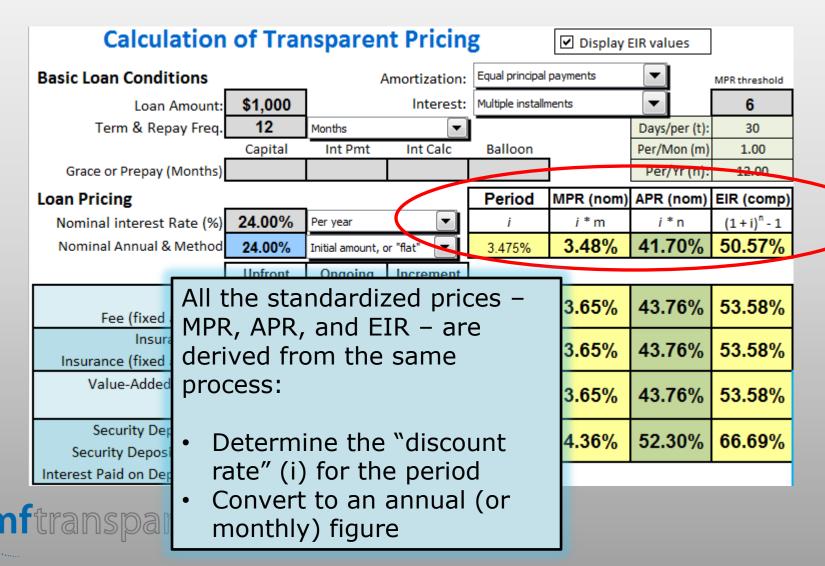
MFT Pricing Calculation Tool – Advanced Analysis



MFT Pricing Calculation Tool – Advanced Analysis

Calculation of Transparent Pricing Display			☑ Display I	EIR values			
Basic Loan Conditions		A	mortization:	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) ⁿ - 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)			2.1/0	3.040 //	3.05%	43.70%	33.36%
Insurance (%)			0.0%	3.646%	3.65%	43.76%	53.58%
Insurance (fixed amount)			0.076	3.04070	3.03 /0	43.70 /0	33.36 /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	JJ.JO /0
Security Deposit (%)	10.0%		8.5%	4.358%	4.36%	52.30%	66.69%
Security Deposit (fixed)			0.076	4.55070	4.50%	J2.JU%	00.09 /0
Interest Paid on Deposit (%)					<u> </u>		

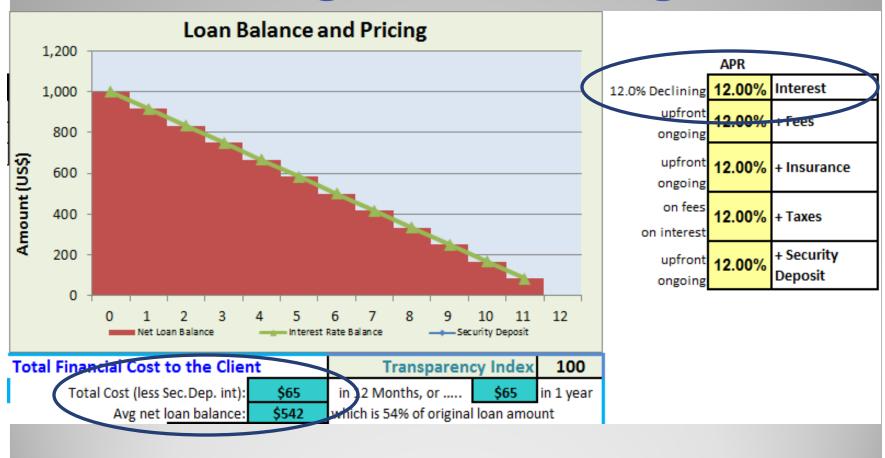
MFT Pricing Calculation Tool – Advanced Analysis



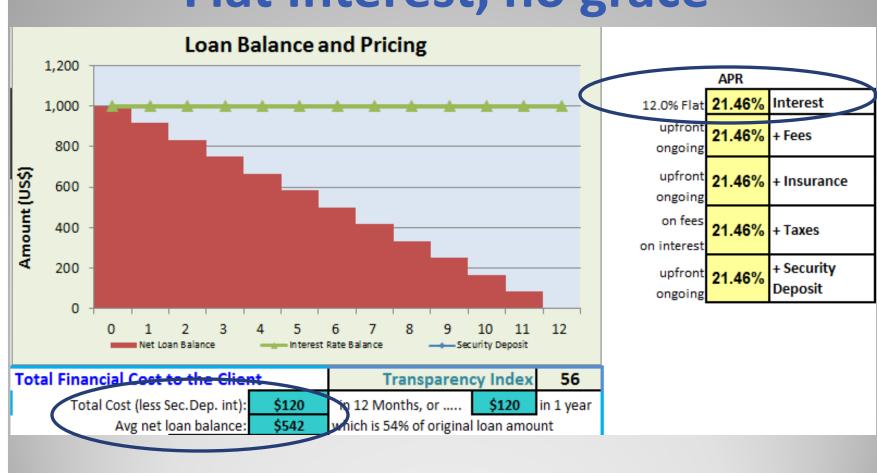
Even Interest can be complicated

- Declining Balance
 - Do grace periods affect price?
- Flat Interest
 - Do grace periods affect price?
- 3. Up-front Interest
 - Does the timing of when interest is paid affect price?

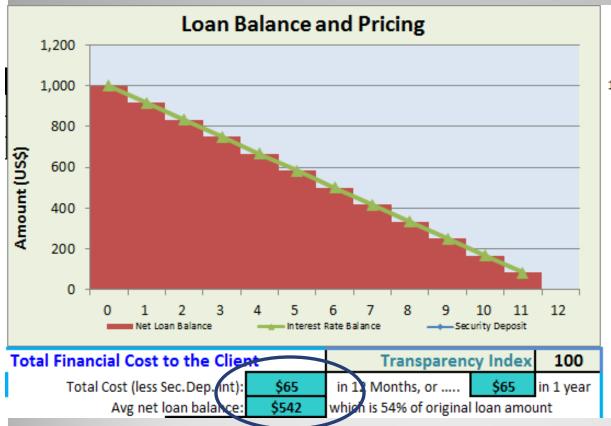
Declining Balance, no grace





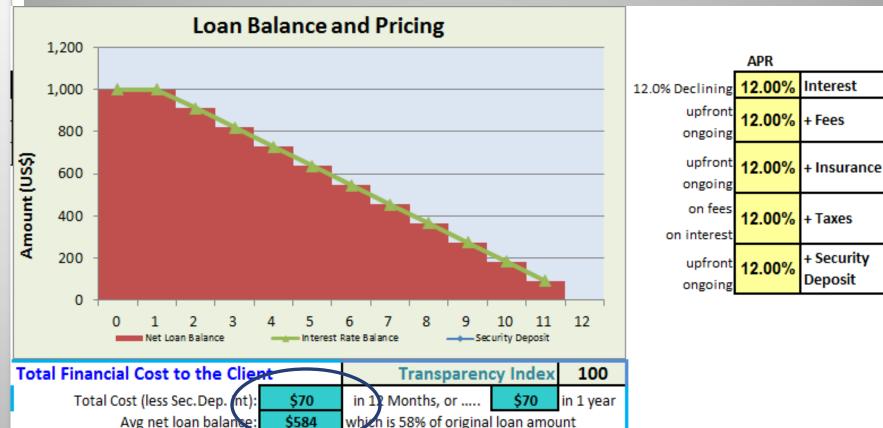


Declining Interest, no grace

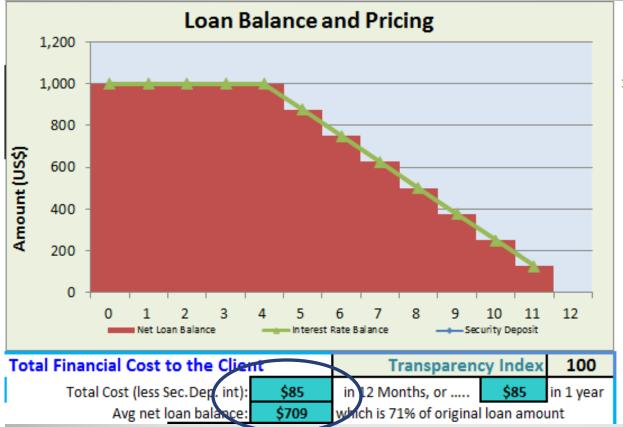


APR			
12.0% Declining	12.00%	Interest	
upfront ongoing	12.00%	+ Fees	
upfront	12.00%	+ Insurance	
on fees on interest	12.00%	+ Taxes	
upfront ongoing	12.00%	+ Security Deposit	

Declining Interest, 1 month grace

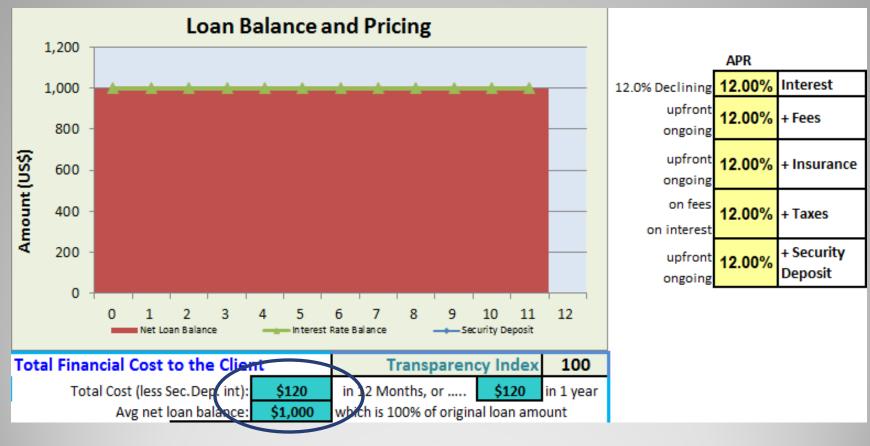


Declining Interest, 4 months grace

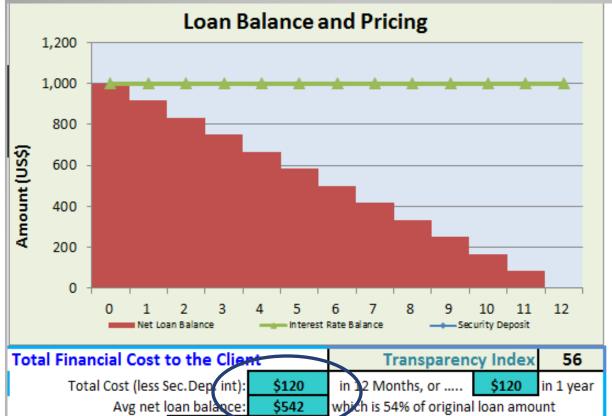


APR			
12.0% Declining	12.00%	Interest	
upfront	12.00%	+ Fees	
ongoing	12.0070		
upfront	12.00%	+ Insurance	
ongoing			
on fees	12.00%	+ Taxes	
on interest			
upfront	12.00%	+ Security Deposit	
ongoing		Deposit	

Declining Interest, 11 months grace

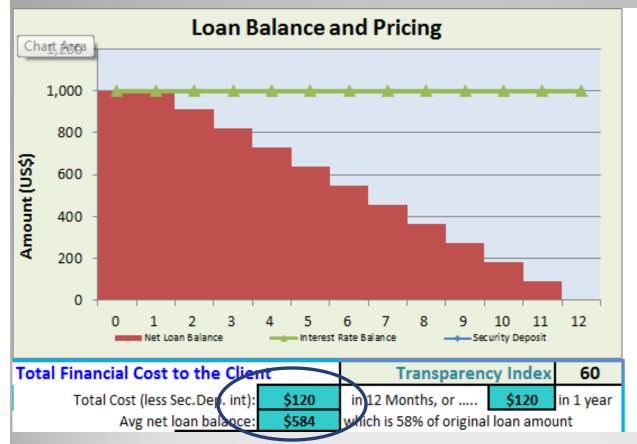


Flat Interest no grace



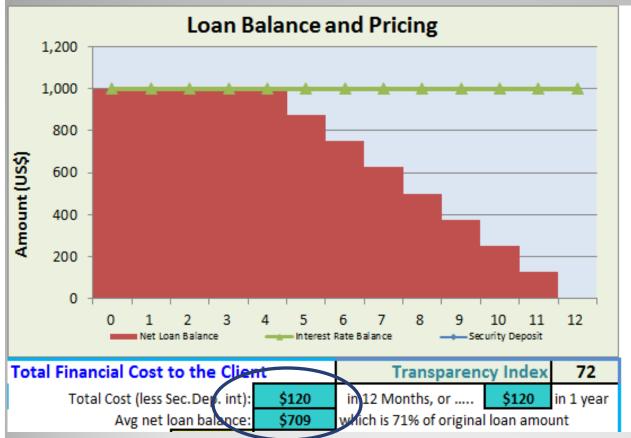
APR			
12.0% Flat	21.46%	Interest	
upfront	21.46%	+ Fees	
ongoing			
upfront	21.46%	+ Insurance	
on fees	21.46%	+ Taxes	
on interest			
upfront	21.46%	+ Security	
ongoing		Deposit	

Flat Interest, 1 month grace



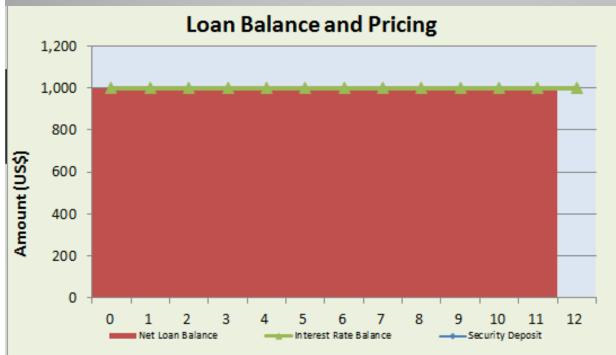
APR			
12.0% Flat	19.98%	Interest	
upfront ongoing	19.98%	+ Fees	
upfront ongoing	19.98%	+ Insurance	
on fees on interest	19.98%	+ Taxes	
upfront ongoing	19.98%	+ Security Deposit	

Flat Interest, 4 months grace



_APR			
12.0% Flat	16.61%	Interest	
upfront ongoing	16.61%	+ Fees	
upfront ongoing	16.61%	+ Insurance	
on fees on interest	16.61%	+ Taxes	
upfront ongoing	16.61%	+ Security Deposit	

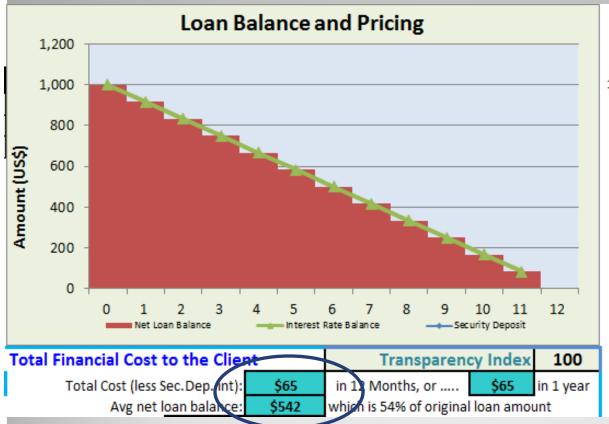
Flat Interest, 11 months grace



APR			
12.0% Flat	12.00%	Interest	
upfront ongoing	12.00%	+ Fees	
upfront ongoing	12.00%	+ Insurance	
on fees on interest	12.00%	+ Taxes	
upfront ongoing	12.00%	+ Security Deposit	

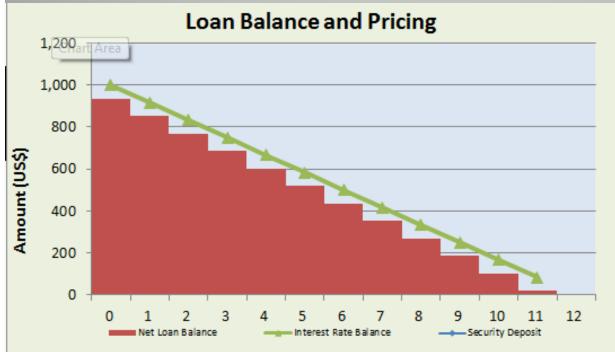
Total Financial Cost to the Cli	ent -	Transparen	cy Index	100
Total Cost (less Sec. Deg. int		in 12 Months, or		
Avg net loan balance	\$1,000	which is 100% of origin	al loan am	ount

Declining Interest, paid monthly



APR			
12.0% Declining	12.00%	Interest	
upfront ongoing	12.00%	+ Fees	
upfront ongoing	12.00%	+ Insurance	
on fees on interest	12.00%	+ Taxes	
upfront ongoing	12.00%	+ Security Deposit	

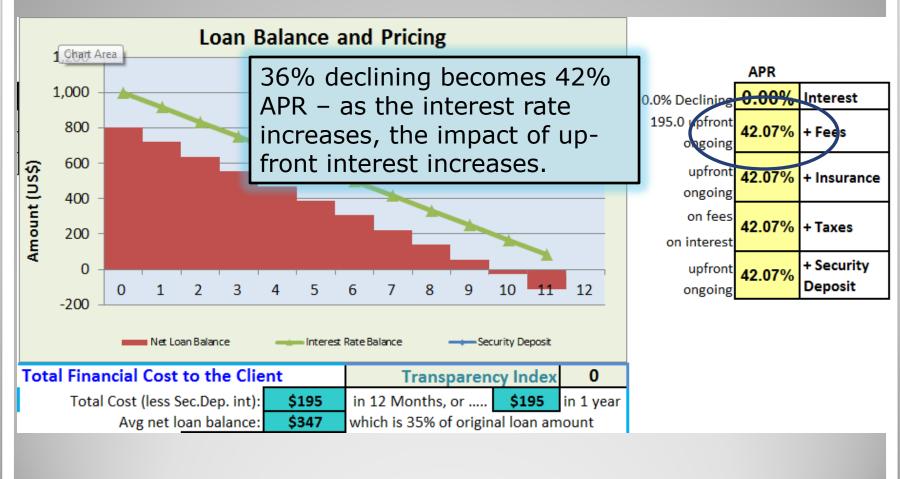
12% declining, paid up-front



APR			
0.0% Declining	0.00%	Interest	
65.0 up ront on roing	12.59%	+ Fees	
upfront ongoing	12.59%	+ Insurance	
on fees on interest	12.59%	+ Taxes	
upfront ongoing	12.59%	+ Security Deposit	

Total Financial Cost to the Clien	1	Transparen	cy Index	0
Total Cost (less Sec.Deg. int):		in 12 Months, or	\$65	in 1 year
Avg net loan balance:	\$477	which is 48% of original loan amount		unt

36% declining, paid up-front



Now for another quiz....

Same loan amounts, same term and...

same interest rate, no fees

(should be easy, right?)

Which loan would you nick?

Upfront interest can dramatically increase the cost because client has *less* money for less time

Grace periods on "flat interest" loans can significantly *reduce* the actual price, because client has *more* money for more time

Loan term:		onths
Interest Rate:	36% Paid	.a. "flat" u pfront
Grace period		No

12 months
36% p.a. "flat"
Paid monthly
3 months grace

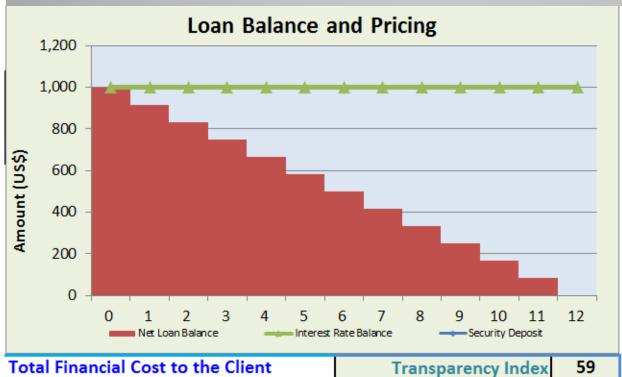
5% p.a. "flat" Paid monthly No

nonths

Total Cost Credit	\$360	\$360	\$360
APR	91%	51%	61%
Transparency Index	39	71	59

Calculating those three examples

36% flat interest, no grace

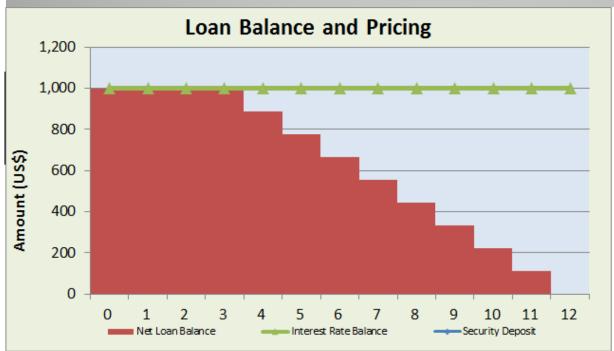


36.0% Flat	60.96%	Interest		
upfront ongoing	60.96%	+ Faas		
ongoing	00.0070	T FEE3		
upfront	60.96%	+ Insurance		
ongoing				
on fees	60.96%	+ Tayes		
on interest	00.0076	· Iuxes		
upfront	60.96%	+ Security		
ongoing	55.5676	Deposit		

Ī	Total Financial Cost to the Clie	Transparen	cy Index	59	
	Total Cost (less Sec.Dep. int):	\$360	in 12 Months, or	\$360	in 1 year
i	Avg net loan balance:	\$542	which is 54% of origin	al loan am	ount

Amount \$1,000
Term 12 Months
Int. on Savings 0.0% Annually

36% flat interest, 3 month grace

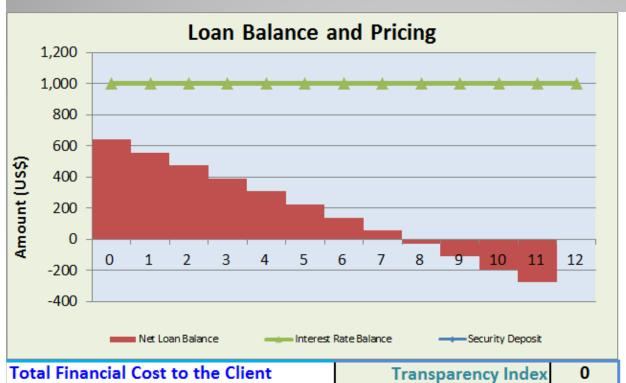


Total Financial Cost to the Clie	Transparen	cy Index	71
Total Cost (less Sec.Dep. int):	in 12 Months, or	\$360	in 1 year
Avg net loan balance:	which is 67% of origin	al loan am	ount

	APR	
36.0% Flat	50.73%	Interest
upfront ongoing	50.73%	+ Fees
upfront ongoing	50.73%	+ Insurance
on fees	50.73%	+ Taxes
upfront ongoing	50.73%	+ Security Deposit

Amount \$1,000
Term 12 Months
Int. on Savings 0.0% Annually

36% flat interest, paid up-front



Total Financial Cost to the Clie	ent	Transparence	y Index	0
Total Cost (less Sec.Dep. int):	\$360	in 12 Months, or	\$360	in 1 year
Avg net loan balance:	\$182	which is 18% of origina	al loan am	ount

	APR	
0.0% Flat	0.00%	Interest
360.0 upfront ongoing	91.64%	+ Fees
upfront	91.64%	+ Insurance
on fees on interest	91.64%	+ Taxes
upfront ongoing	91.64%	+ Security Deposit

Amount \$1,000
Term 12 Months
Int. on Savings 0.0% Annually

36% flat interest, paid up-front

Payment Date			Loan Cost and Ca		ashflow	Inte	rest	Fe	es
Period #	Date	# Days	Principal Disbursed	Principal Paid	Balance	Interest Paid	Cashflow incl. Interest	ees Paid	Cashflow incl. Fees
0	13-Jun-10		1,000.00		1,000.00		1,000.00	360.00	640.00
1	13-Jul-10	30		83.33	916.67	-	(83.33)	-	(83.33)
2	13-Aug-10	31		83.33	833.33	-	(83.33)	-	(83.33)
3	13-Sep-10	31		83.33	750.00	-	(83.33)	-	(83.33)
4	13-Oct-10	30		83.33	666.67	-	(83.33)	-	(83.33)
5	13-Nov-10	31		83.33	583.33	-	(83.33)	-	(83.33)
6	13-Dec-10	30		83.33	500.00	-	(83.33)	-	(83.33)
7	13-Jan-11	31		83.33	416.67	-	(83.33)	-	(83.33)
8	13-Feb-11	31		83.33	333.33	-	(83.33)	-	(83.33)
9	13-Mar-11	28		83.33	250.00	-	(83.33)	-	(83.33)
10	13-Apr-11	31		83.33	166.67	-	(83.33)	-	(83.33)
11	13-May-11	30		83.33	83.33	-	(83.33)	-	(83.33)
12	13-Jun-11	31		83.33	-	-	(83.33)	-	(83.33)
		365	1,000.00	1,000.00		0.00	0.00	360.00	(360.00)
	MPR						0.000%		7.637%
	APR						0.000%		91.641%

And what about EIR instead of APR?

- The terms APR and EIR actually have no standard definition outside of MFTransparency. They are used interchangeably.
- 2. All approaches use this formula to solve for "I"

$$\sum_{k=1}^{m} \frac{A_k}{(1+i)_k^q} = \sum_{j=1}^{n} \frac{P_j}{(1+i)_j^t}$$

1. "i" is then converted to an annual rate either nominally or by compounding, eg:

APR =
$$i \times 12$$
 EIR = $(1 + i)^{12^{th}} - 1$

Estimated "i"

0.0% APR (i * n)

Try a HIGHER discount rate to get DIFF to \$0

0.0% EIR: (1+i) ^ n - 1

	Nominal	Values			Discounte	d Values	Difference
TOTALS	\$1,000.00	\$1,200.00		i	\$1,000.00	\$1,200.00	(\$200.00)
Period	Inflow	Outflow	Divisor	%	Inflow	Outflow	
0	\$1,000.00		1.00000		\$1,000.00	\$0.00	\$1,000.00
1		\$100.00	1.00000	0.00%	\$0.00	\$100.00	(\$100.00)
2		\$100.00	1.00000	0.00%	\$0.00	\$100.00	(\$100.00)
3		\$100.00	1.00000	0.00%	\$0.00	\$100.00	(\$100.00)
4		\$100.00	1.00000	0.00%	\$0.00	\$100.00	(\$100.00)
5		\$100.00	1.0000		For	mula	
6		\$100.00	1.0000	\overline{m}	4	\overline{n}	D.
_					/1 -		D.
7		\$100.00	1.0000	\sim	$\frac{A_k}{$	$\equiv \sum_{i}$	P_j
8		\$100.00 \$100.00	1.0000 1.0000	$\sum_{i=1}^{n}$	$\frac{A_k}{(1+i)_k^q} =$	$=\sum_{i=1}^{\infty}\frac{1}{i}$	$\frac{P_j}{(t-i)_i^t}$
				$\sum_{k=1}$	$\frac{1}{(1+i)_k^q} =$	$=\sum_{j=1}^{\infty}\frac{1}{(1+1)^{j+1}}$	$\frac{P_j}{(t-i)_j^t}$
8		\$100.00	1.0000	$\sum_{k=1}^{\infty}$	$\frac{1+i)_k^q}{(1+i)_k^q}$ Solve for	$= \sum_{j=1}^{\infty} \frac{1}{(1-1)^{j}}$ i, and then,	$\frac{P_j}{(t-t)^t_j}$
8 9		\$100.00 \$100.00	1.0000 1.0000	$\sum_{k=1}^{\infty}$	$\frac{1+i)_k^q}{(1+i)_k^q}$ Solve for	$=\sum_{j=1}^{\infty}\frac{1}{(1+1)^{j+1}}$	$\frac{P_j}{(t-1)^t_j}$

This is the sec

mftransparency.org

Use previous formula to solve for i, and then

$$EIR = (1+i)^{n} -1$$

Practicing with "i" for Discounted Present Value Estimated "i" 0.0% APR (i * n) Try a HIGHER dissount rate to get DIFF to \$0 0.0% EIR: (1+i) ^ n - 1 **Nominal Values** Discounted Values Difference \$1,000.00 \$1,200.00 \$1,000.00 \$1,200.00 (\$200.00) TOTALS Period Divisor Inflow Outflow Inflow Outflow 0 \$1,000.00 1 00000 \$1,000.00 \$0.00 \$1,000.00 \$100.00 1.00000 \$0.00 \$100.00 (\$100.00) 0.00% \$100.00 1.00000 0.00% \$0.00 \$100.00 (\$100.00) 3 \$100.00 1.00000 0.00% \$0.00 \$100.00 (\$100.00) \$100.00 1.00000 0.00% \$0.00 \$100.00 (\$100.00) 4 5 \$100.00 1.00000 0.00% \$0.00 \$100.00 (\$100.00) 6 \$100.00 1.00000 0.00% \$0.00 \$100.00 (\$100.00) 1.00000 0.00% \$0.00 \$100.00 (\$100.00) \$100.00 8 \$100.00 1.00000 \$0.00 \$100.00 (\$100.00) 0.00% \$100.00 1,00000 0.00% \$0.00 \$100.00 (\$100.00) 1.00000 0.00% 10 \$100.00 \$0.00 \$100.00 (\$100.00) \$100.00 1.00000 0.00% \$0.00 \$100.00 (\$100.00) 12 \$100.00 1.00000 0.00% \$0.00 \$100.00 (\$100.00)

This is the secret "correct answer" --->

Estimated "i"

0.0% APR (i * n)

Try a HIGHER discount rate to get DIFF to \$0

Nominal Values

0.0% EIR: (1+i)^n-1

	NOITHIAI	values				Discounte	eu values	Difference	
TOTALS	\$1,000.00	\$1,200.00		i	\$1	,000.00	\$1,200.00	(\$200.00)	
Period	Inflow	Outflow	Divisor	%		Inflow	Outflow		
0	\$1,000.00	/	1.00000		\$	1,000.00	\$0.00	\$1,000.00	
1		\$100.0	1.00000	0.00%	\	\$0.00	\$100.00	(\$100.00)	
2		\$100.00	1.00000	0.00%		\$0.00	\$100.00	(\$100.00)	
3		\$100.00	1.00000	0.00%		\$0.00	\$100.00	(\$100.00)	
4		\$100.00	1.00000	0.00%		\$0.00	\$100.00	(\$100.00)	
5		\$100.00	1.00000	0.00%		\$0.00	\$100.00	(\$100.00)	
6		\$100.00	1.00000	0.00%		\$0.00	\$100.00	(\$100.00)	
7		\$100.00	1.00000	0.00%		\$0.00	\$100.00	(\$100.00)	
8		\$100.00	1.00000	0.00%		\$0.00	\$100.00	(\$100.00)	
9		\$100.00	1.00000	0.00%	/	\$0.00	\$100.00	(\$100.00)	
10		\$100.00	1.00000	0.00%		\$0.00	\$100.00	(\$100.00)	
11		\$100.00	1.00000	0.00%		\$0.00	\$100.00	(\$100.00)	
12		\$100.00	1.00000	0.00%		\$0.00	\$100.00	(\$100.00)	

This is the secret "correct answer" --->

Practicing with "i" for Discounted Present Value Estimated "i" 0.0% APR (i * n) Try a HIGHER discount rate to get DIFF to \$0 0.0% EIR: (1+i) ^ n - 1 Nominal Values Discounted Values Difference \$1,000.00 \$1,200.00 (\$200.00) \$1,000.00 \$1,200.00 TOTALS Inflow Period Inflow Outflow Divisor Outflow \$0.00 \$1,000.00 \$1,000.00 \$1,000.00 0 1.00000 \$0.00 \$100.00 (\$100.00) \$100.00 1.00000 0.00% \$100.00 (\$100.00) \$100.00 1.00000 0.00% \$0.00 \$100.00 1.00000 0.00% \$0.00 \$100.00 (\$100.00) \$0.00 \$100.00 (\$100.00) \$100.00 1.00000 0.00% 4 1.00000 0.00% 5 \$100.00 \$0.00 \$100.00 (\$100.00) \$100.00 1.00000 0.00% \$0.00 \$100.00 (\$100.00) 6 \$0.00 \$100.00 (\$100.00) \$100.00 1.00000 0.00% \$100.00 (\$100.00) 8 \$100.00 1.00000 0.00% \$0.00 \$100.00 1.00000 0.00% \$0.00 \$100.00 (\$100.00) 9 \$100.00 (\$100.00) 10 \$100.00 1.00000 0.00% \$0.00 \$100.00 1.00000 0.00% \$0.00 \$100.00 (\$100.00) 11 \$100.00 \$0.00 \$100.00 (\$100.00) 12 1.00000 0.00% IRR (i) = 2.523% This is the secret "correct answer" -

Estimated "i" 1.00%

12.0% APR (i * n)

Try a HIGHER discount rate to get DIFF to \$0

12.7% EIR: (1+i) ^ n - 1

	Nominal	Values				Discounte	ed Values	Difference
TOTALS	\$1,000.00	\$1,200.00		i	\$ 1	L,000.00	\$1,125.51	(\$125.51)
Period	Inflow	Outflow	Divisor	%		Inflow	Outflow	
0	\$1,000.00	/	1.00000		\$	1,000.00	\$0.00	\$1,000.00
1		\$100.00	1.01000	1.00%	1	\$0.00	\$99.01	(\$100.00)
2		\$100.0 <mark>0</mark>	1.02010	1.00%		\$0.00	\$98.03	(\$100.00)
3		\$100.00	1.03030	1.00%		\$0.00	\$97.06	(\$100.00)
4		\$100.00	1.04060	1.00%		\$0.00	\$96.10	(\$100.00)
5		\$100.00	1.05101	1.00%		\$0.00	\$95.15	(\$100.00)
6		\$100.00	1.06152	1.00%		\$0.00	\$94.20	(\$100.00)
7		\$100.00	1.07214	1.00%		\$0.00	\$93.27	(\$100.00)
8		\$100.00	1.08286	1.00%		\$0.00	\$92.35	(\$100.00)
9		\$100.00	1.09369	1.00%	/	\$0.00	\$91.43	(\$100.00)
10		\$100.00	1.10462	1.00%		\$0.00	\$90.53	(\$100.00)
11		\$100.00	1.11567	1.00%		\$0.00	\$89.63	(\$100.00)
12		\$100.00	1.12683	1.00%		\$0.00	\$88.74	(\$100.00)

This is the secret "correct answer" --->

Estimated "i" 1.00%

12.0% APR (i * n)

Try a HIGHER discount rate to get DIFF to \$0

12.7% EIR: (1+i) ^ n - 1

	Nominal	Values			Discounte	ed Values	Difference
TOTALS	\$1,000.00	\$1,200.00		i	\$1,000.00	\$1,125.51	(\$125.51)
Period	Inflow	Outflow	Divisor	%	Inflow	Outflow	
0	\$1,000.00		1.00000		\$1,000.00	\$0.00	\$1,000.00
1		\$100.00	1.01000	1.00%	\$0.00	\$99.01	(\$100.00)
2		\$100.00	1.02010	1.00%	\$0.00	\$98.03	(\$100.00)
3		\$100.00	1.03030	1.00%	\$0.00	\$97.06	(\$100.00)
4		\$100.00	1.04060	1.00%	\$0.00	\$96.10	(\$100.00)
5		\$100.00	1.05101	1.00%	\$0.00	\$95.15	(\$100.00)
6		\$100.00	1.06152	1.00%	\$0.00	\$94.20	(\$100.00)
7		\$100.00	1.07214	1.00%	\$0.00	\$93.27	(\$100.00)
8		\$100.00	1.08286	1.00%	\$0.00	\$92.35	(\$100.00)
9		\$100.00	1.09369	1.00%	\$0.00	\$91.43	(\$100.00)
10		\$100.00	1.10462	1.00%	\$0.00	\$90.53	(\$100.00)
11		\$100.00	1.11567	1.00%	\$0.00	\$89.63	(\$100.00)
12		\$100.00	1.12683	1.00%	\$0.00	\$88.74	(\$100.90)
I							

This is the secret "correct answer"

Estimated "i" 1.00%

12.0% APR (i * n)

Try a HIGHER discount rate to get DIFF to \$0

12.7% EIR: (1+i) ^ n - 1

	Nominai	Values			Discounte	ed Values	Difference
TOTALS	\$1,000.00	\$1,200.00		i i	\$1,000.00	\$1,125.51	(\$125.51)
Period	Inflow	Outflow	Divisor	%	Inflow	Outflow	
0	\$1,000.00		1.00000		\$1,000.00	\$0.00	\$1,000.00
1		\$100.00	1.01000	1.00%	\$0.00	\$99.01	(\$100.00)
2		\$100.00	1.02010	1.00%	\$0.00	\$98.03	(\$100.00)
3		\$100.00	1.03030	1.00%	\$0.00	\$97.06	(\$100.00)
4		\$100.00	1.04060	1.00%	\$0.00	\$96.10	(\$100.00)
5		\$100.00	1.05101	1.00%	\$0.00	\$95.15	(\$100.00)
6		\$100.00	1.06152	1.00%	\$0.00	\$94.20	(\$100.00)
7		\$100.00	1.07214	1.00%	\$0.00	\$93.27	(\$100.00)
8		\$100.00	1.08286	1.00%	\$0.00	\$92.35	(\$100.00)
9		\$100.00	1.09369	1.00%	\$0.00	\$91.43	(\$100.00)
10		\$100.00	1.10462	1.00%	\$0.00	\$90.53	(\$100.00)
11		\$100.00	1.11567	1.00%	\$0.00	\$89.63	(\$100.00)
12		\$100.00	1.12683	1.00%	\$0.00	\$88.74	(\$100.00)

This is the secret "correct answer" --->

Estimated "i" 3.00%

36.0% APR (i * n)

Try a LOWER discount rate to get DIFF to \$0

42.6% EIR: (1+i) ^ n - 1

	Nominal	Values			Discounte	d Values	Difference	
TOTALS	\$1,000.00	\$1,200.00		i	\$1,000.00	\$995.40	\$4.60)
Period	Inflow	Outflow	Divisor	%	Inflow	Outflow		
0	\$1,000.00		1.00000		\$1,000.00	\$0.00	\$1,000.00	
1		\$100.00	1.03000	3.00%	\$0.00	\$97.09	(\$100.00)	
2		\$100.00	1.06090	3.00%	\$0.00	\$94.26	(\$100.00)	
3		\$100.00	1.09273	3.00%	\$0.00	\$91.51	(\$100.00)	
4		\$100.00	1.12551	3.00%	\$0.00	\$88.85	(\$100.00)	
5		\$100.00	1.15927	3.00%	\$0.00	\$86.26	(\$100.00)	
6		\$100.00	1.19405	3.00%	\$0.00	\$83.75	(\$100.00)	
7		\$100.00	1.22987	3.00%	\$0.00	\$81.31	(\$100.00)	
8		\$100.00	1.26677	3.00%	\$0.00	\$78.94	(\$100.00)	
9		\$100.00	1.30477	3.00%	\$0.00	\$76.64	(\$100.00)	
10		\$100.00	1.34392	3.00%	\$0.00	\$74.41	(\$100.00)	
11		\$100.00	1.38423	3.00%	\$0.00	\$72.24	(\$100.00)	
12		\$100.00	1.42576	3.00%	\$0.00	\$70.14	(\$100.00)	

This is the secret "correct answer" --->

Estimated "i" 2.90%

34.8% APR (i * n)

Try a HIGHER discount rate to get DIFF to \$0

40.9% EIR: (1+i) ^ n - 1

Nominal Values				Discounted Values		Difference
\$1,000.00	\$1,200.00		i	\$1,000.00	\$1,001.37	(\$1.37)
Inflow	Outflow	Divisor	%	Inflow	Outflow	
\$1,000.00		1.00000		\$1,000.00	\$0.00	\$1,000.00
	\$100.00	1.02900	2.90%	\$0.00	\$97.18	(\$100.00)
	\$100.00	1.05884	2.90%	\$0.00	\$94.44	(\$100.00)
	\$100.00	1.08955	2.90%	\$0.00	\$91.78	(\$100.00)
	\$100.00	1.12114	2.90%	\$0.00	\$89.19	(\$100.00)
	\$100.00	1.15366	2.90%	\$0.00	\$86.68	(\$100.00)
	\$100.00	1.18711	2.90%	\$0.00	\$84.24	(\$100.00)
	\$100.00	1.22154	2.90%	\$0.00	\$81.86	(\$100.00)
	\$100.00	1.25696	2.90%	\$0.00	\$79.56	(\$100.00)
	\$100.00	1.29342	2.90%	\$0.00	\$77.31	(\$100.00)
	\$100.00	1.33093	2.90%	\$0.00	\$75.14	(\$100.00)
	\$100.00	1.36952	2.90%	\$0.00	\$73.02	(\$100.00)
	\$100.00	1.40924	2.90%	\$0.00	\$70.96	(\$100.00)
	\$1,000.00 Inflow	\$1,000.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00	\$1,000.00 \$1,200.00 Inflow Outflow Divisor \$1,000.00 1.00000 \$100.00 1.02900 \$100.00 1.05884 \$100.00 1.08955 \$100.00 1.12114 \$100.00 1.15366 \$100.00 1.18711 \$100.00 1.22154 \$100.00 1.25696 \$100.00 1.29342 \$100.00 1.33093 \$100.00 1.36952	\$1,000.00 \$1,200.00 Divisor % \$1,000.00 1.00000 \$100.00 1.02900 2.90% \$100.00 1.05884 2.90% \$100.00 1.08955 2.90% \$100.00 1.12114 2.90% \$100.00 1.15366 2.90% \$100.00 1.22154 2.90% \$100.00 1.22154 2.90% \$100.00 1.25696 2.90% \$100.00 1.29342 2.90% \$100.00 1.33093 2.90% \$100.00 1.36952 2.90%	\$1,000.00 \$1,200.00 Inflow Outflow Divisor % Inflow \$1,000.00	\$1,000.00 \$1,200.00 Divisor % Inflow Outflow 1.00000 \$1,000.00 \$1,000.00 \$0.00 \$1,000.00 \$1,000.00 \$1,000.00 \$0.00 \$1,000.00 \$1,000.00 \$0.00 \$1,000.00 \$1,000.00 \$0.00 \$1,000.00 \$0.00 \$97.18 \$100.00 \$1.05884 \$2.90% \$0.00 \$94.44 \$100.00 \$1.08955 \$2.90% \$0.00 \$91.78 \$100.00 \$1.12114 \$2.90% \$0.00 \$89.19 \$100.00 \$1.15366 \$2.90% \$0.00 \$86.68 \$100.00 \$1.18711 \$2.90% \$0.00 \$84.24 \$100.00 \$1.22154 \$2.90% \$0.00 \$81.86 \$100.00 \$1.29342 \$2.90% \$0.00 \$77.31 \$100.00 \$1.36952 \$2.90% \$0.00 \$77.30

This is the secret "correct answer" --->

Practicing with "i" for Discounted Present Value Estimated "i" 2.92% 35.0% APR (i * n) That looks close enough! 41.3% EIR: (1+i) ^ n - 1 Nominal Values Discounted Values Difference \$1,000.00 \$1,000.17 (\$0.17) \$1,000.00 \$1,200.00 TOTALS Inflow Inflow Outflow Divisor Period \$1,000.00 1.00000 \$1,000.00 \$0.00 \$1,000.00 0 \$100.00 1.02920 2.92% \$0.00 \$97.16 (\$100.00) \$100.00 \$0.00 \$94.41 (\$100.00) 2 1.05925 2.92% \$0.00 \$91.73 (\$100.00) \$100.00 1.09018 2.92% \$100.00 \$0.00 1.12202 2.92% \$89.13 (\$100.00) \$100.00 1.15478 2.92% \$0.00 \$86.60 (\$100.00) \$84.14 (\$100.00) 6 \$100.00 1.18850 2.92% \$0.00 \$100.00 \$81.75 (\$100.00) 7 1.22320 2.92% \$0.00 \$79.43 (\$100.00) \$100.00 1.25892 2.92% \$0.00 9 \$100.00 1.29568 2.92% \$0.00 \$77.18 (\$100.00) 10 \$100.00 1.33351 2.92% \$0.00 \$74.99 (\$100.00) 1.37245 2.92% \$72.86 (\$100.00) \$100.00 \$0.00 11 \$100.00 12 1.41253 2.92% \$0.00 \$70.80 (\$100.00) This is the secret "correct answer" ---> IRR(i) = 2.923%

Estimated "i" 2.92%

35.0% APR (i * n)

That looks close enough!

41.3% EIR: (1+i) ^ n - 1

Nominal Values					Discounte	Discounted Values		
TOTALS	\$1,000.00	\$1,200.00		i	\$1,000.00	\$1,000.17	(\$0.17)	
Period	Inflow	Outflow	Divisor	%	Inflow	Outflow		
0	\$1,000.00		1.00000		\$1,000.00	\$0.00	\$1,000.00	
1		\$100.00	1.02920	2.92%	\$0.00	\$97.16	(\$100.00)	
2		\$100.00	1.05925	2.92%	\$0.00	\$94.41	(\$100.00)	
3		\$100.00	1.09018	2.92%	\$0.00	\$91.73	(\$100.00)	
4		\$100.00	1.12202	2.92%	\$0.00	\$89.13	(\$100.00)	
5		\$100.00	1.15478	2.92%	\$0.00	\$86.60	(\$100.00)	
6		\$100.00	1.18850	2.92%	\$0.00	\$84.14	(\$100.00)	
7		\$100.00	1.22320	2.92%	\$0.00	\$81.75	(\$100.00)	
8		\$100.00	1.25892	2.92%	\$0.00	\$79.43	(\$100.00)	
9		\$100.00	1.29568	2.92%	\$0.00	\$77.18	(\$100.00)	
10		\$100.00	1.33351	2.92%	\$0.00	\$74.99	(\$100.00)	
11		\$100.00	1.37245	2.92%	\$0.00	\$72.86	(\$100.00)	
12		\$100.00	1.41253	2.92%	\$0.00	\$70.80	(\$100.00)	

This is the secret "correct answer" --->

IRR (i) = 2.923%

Maminal Values

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%
	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%

Period "I"	APR	EIR	Difference
renou i	AFN	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%
	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%
	0.00%	0.00%	0.00%
	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%
	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%

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%
	0.00%	0.00%	0.00%
	0.00%	0.00%	0.00%

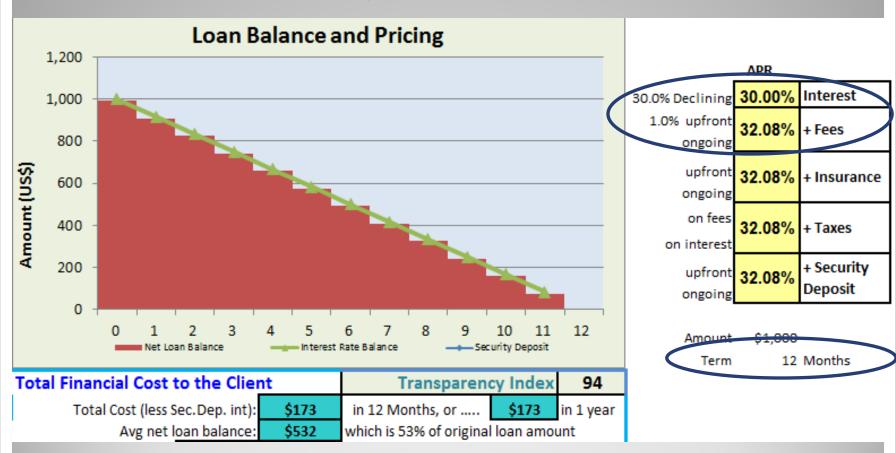
Period "I"	APR	EIR	Difference
0.5%	6.00%	6.17%	0.17%
1.0%	12.00%	12.68%	0.68%
1.5%	18.00%	19.56%	1.56%
2.0%	24.00%	26.82%	2.82%
3.0%	36.00%	42.58%	6.58%
4.0%	48.00%	60.10%	12.10%
5.0%	60.00%	79.59%	19.59%
6.0%	72.00%	101.22%	29.22%
7.0%	84.00%	125.22%	41.22%
8.0%	96.00%	151.82%	55.82%
9.0%	108.00%	181.27%	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%

Understanding Fees

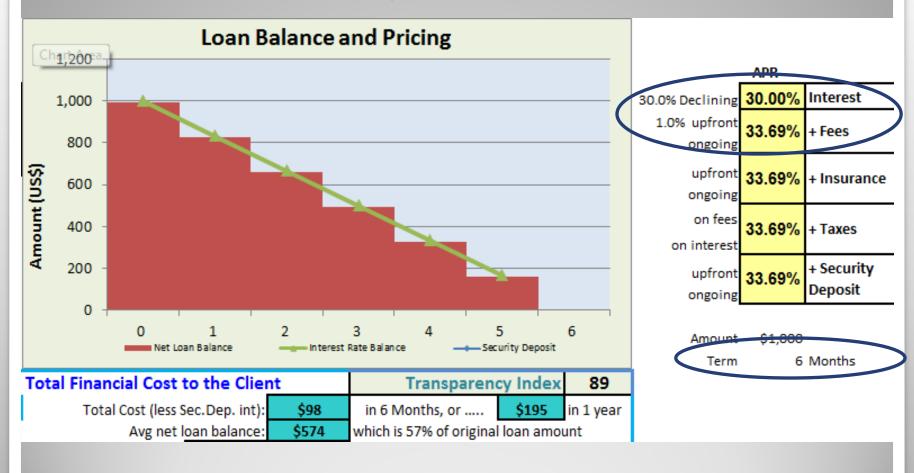
- Up-Front Fees
 - Percentage
 - Fixed Amount
- 2. On-going Fees
 - Percentage
 - Fixed Amount
- 3. Sensitivity of Up-front fees and loan terms
- 4. Sensitivity of Fixed fees and loan amount
- 5. Upfront fees are more expensive than on-going

Up-front Percent Fees with differing loan terms

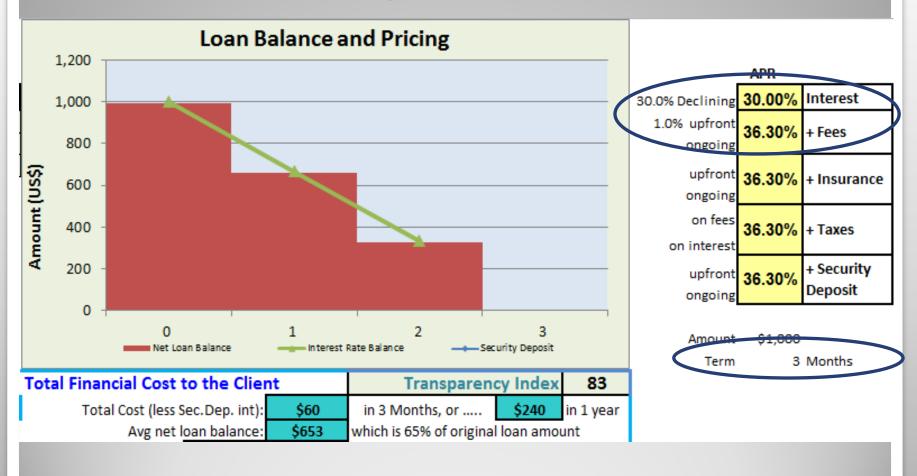
Fee of 1% up-front, 12 months



Fee of 1% up-front, 6 months

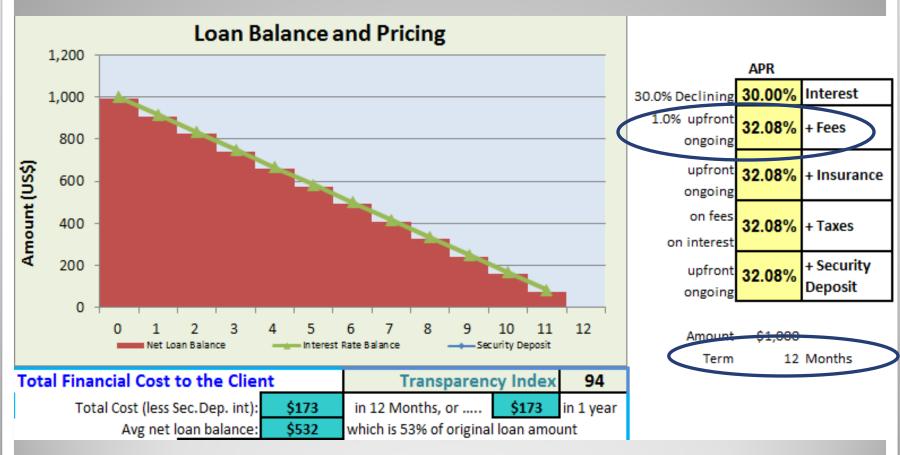


Fee of 1% up-front, 3 months

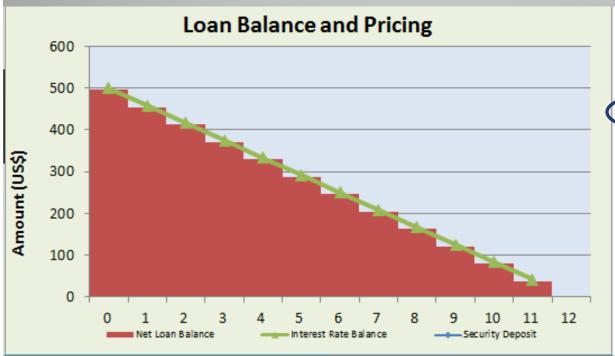


Up-front Percent Fees with differing loan amounts

Fee of 1% up-front, \$1,000



Fee of 1% up-front, \$500



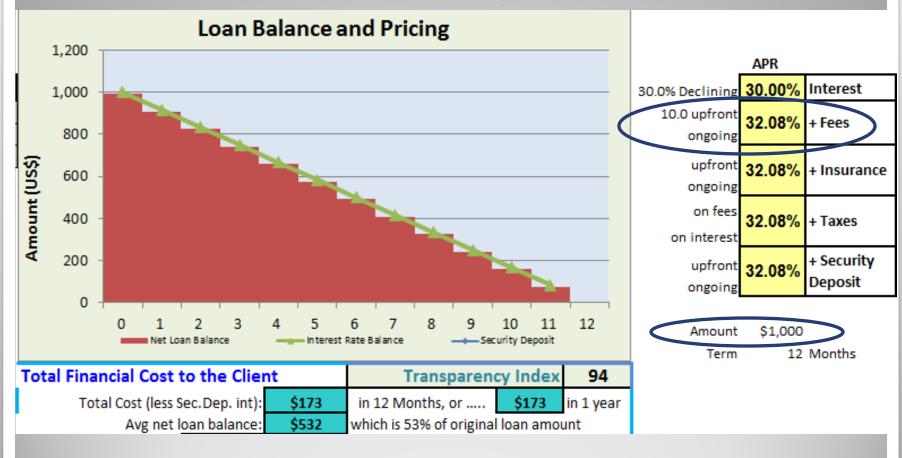
Total Financial Cost to the Clie	Transparen	cy Index	94	
Total Cost (less Sec.Dep. int):	\$86	in 12 Months, or	\$86	in 1 year
Avg net loan balance:	\$266	which is 53% of original loan amount		

APR						
30.0% Declining	30.00%	Interest				
1.0% upfront ongoing	32.08%	+ Fees				
upfront ongoing	32.08%	+ Insurance				
on fees on interest	32.08%	+ Taxes				
upfront ongoing	32.08%	+ Security Deposit				

Amount \$500 Term 12 Months

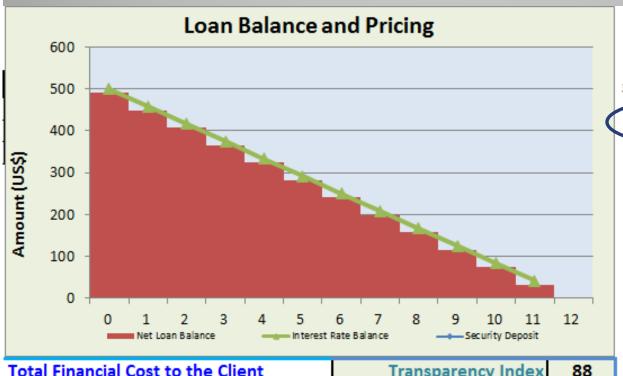
Up-front Fixed Fees with differing loan amounts

Fixed-fee of \$10 up-front, \$1000



Fixed-fee of \$10 up-front, \$500

which is 52% of original loan amount



\$91

\$261

7 e Balance	8	9 —— Sec	10 curity Dep	11 osit	12	Amount
Tr	ans	paren	88			
n 12 Mor	nths,	or	\$9:	1	in 1 year	

APR 30.0% Declining 30.00% Interest 10.0 upfront 34.20% + Fees ongoing upfront 34.20% + Insurance ongoing on fees 34.20% + Taxes on interest + Security upfront 34.20% Deposit ongoing

\$500

12 Months

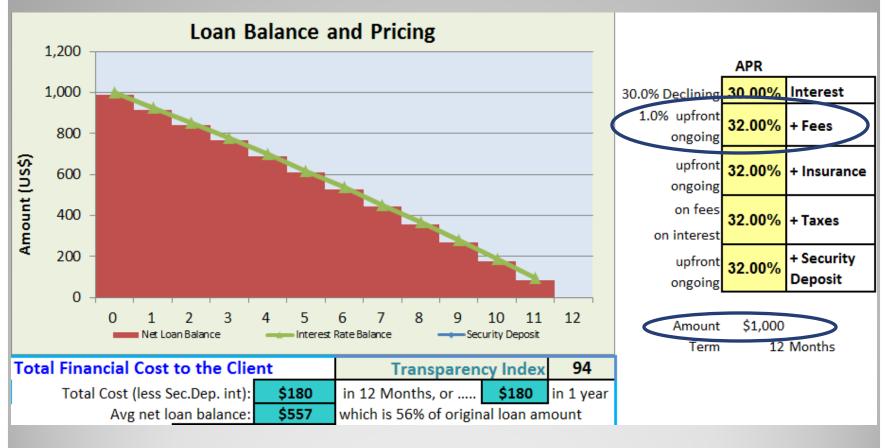
mftransparency.org

Total Cost (less Sec. Dep. int):

Avg net loan balance:

Comparing Up-front and On-going Fees

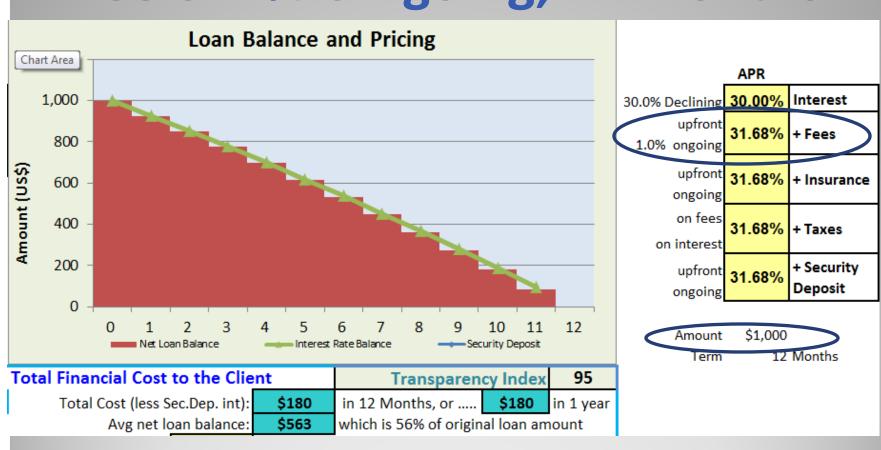
Fee of 1% up-front, \$1,000



Fee of 1% up-front, \$1,000

Payment Date		Loan Co	ost and Cashflow		Interest		Fees		
Period #	Date	# Days	Principal Disbursed	Principal Paid	Balance	Interest Paid	Cashflow incl. Interest	Fees Paid	Cashflow incl. Fees
0	13-Jun-10		1,000.00		1,000.00		1,000.00	10.00	990.00
1	13-Jul-10	30	ſ	72.49	927.51	25.00	(97.49)	-	(97.49)
2	13-Aug-10	31		74.30	853.21	23.19	(97.49)	-	(97.49)
3	13-Sep-10	31		76.16	777.06	21.33	(97.49)	-	(97.49)
4	13-Oct-10	30		78.06	699.00	19.43	(97.49)	-	(97.49)
5	13-Nov-10	31		80.01	618.98	17.47	(97.49)	-	(97.49)
6	13-Dec-10	30		82.01	536.97	15.47	(97.49)	-	(97.49)
7	13-Jan-11	31		84.06	452.91	13.42	(97.49)	-	(97.49)
8	13-Feb-11	31		86.16	366.74	11.32	(97.49)	-	(97.49)
9	13-Mar-11	28		88.32	278.43	9.17	(97.49)	-	(97.49)
10	13-Apr-11	31		90.53	187.90	6.96	(97.49)	-	(97.49)
11	13-May-11	30		92.79	95.11	4.70	(97.49)	-	(97.49)
12	13-Jun-11	31		95.11	-	2.38	(97.49)	-	(97.49)
		365	1,000.00	1,000.00		169.85	(169.85)	10.00	(179.85)
	MPR						2.500%		2.666%
	APR						30.000%		31.997%

Fee of 1% on-going, 12 months



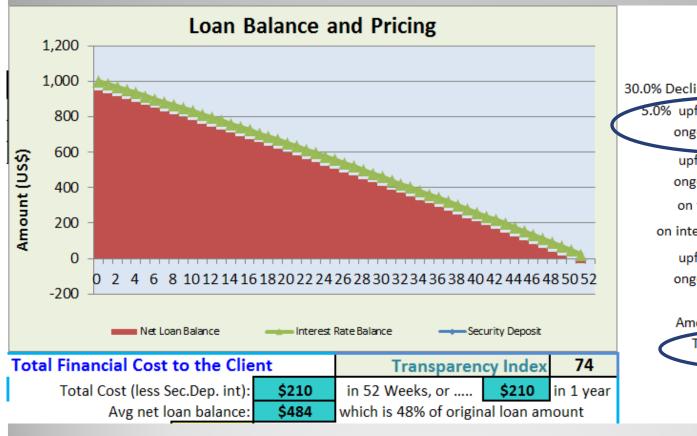
Fee of 1% on-going, 12 months

Paym	ent Date		Loan Cost and Cashflow		Inte	rest	Fees		
Period #	Date	# Days	Principal Disbursed	Principal Paid	Balance	Interest Paid	Cashflow incl. Interest	Fees Paid	Cashflow incl. Fees
0	13-Jun-10		1,000.00		1,000.00		1,000.00	-	1,000.00
1	13-Jul-10	30		72.49	927.51	25.00	(97.49)	0.72	(98.21)
2	13-Aug-10	31		74.30	853.21	23.19	(97.49)	0.74	(98.23)
3	13-Sep-10	31		76.16	777.06	21.33	(97.49)	0.76	(98.25)
4	13-Oct-10	30		78.06	699.00	19.43	(97.49)	0.78	(98.27)
5	13-Nov-10	31		80.01	618.98	17.47	(97.49)	0.80	(98.29)
6	13-Dec-10	30		82.01	536.97	15.47	(97.49)	0.82	(98.31)
7	13-Jan-11	31		84.06	452.91	13.42	(97.49)	0.84	(98.33)
8	13-Feb-11	31		86.16	366.74	11.32	(97.49)	0.86	(98.35)
9	13-Mar-11	28		88.32	278.43	9.17	(97.49)	0.88	(98.37)
10	13-Apr-11	31		90.53	187.90	6.96	(97.49)	0.91	(98.39)
11	13-May-11	30		92.79	95.11	4.70	(97.49)	0.93	(98.42)
12	13-Jun-11	31		95.11	-	2.38	(97.49)	0.95	(98.44)
		365	1,000.00	1,000.00		169.85	(169.85)	10.00	(179.85)
	MPR						2.500%		2.640%
	APR						30.000%		31.677%

Example of pushing the limits:

Impact of high up-front Fees with short loan term

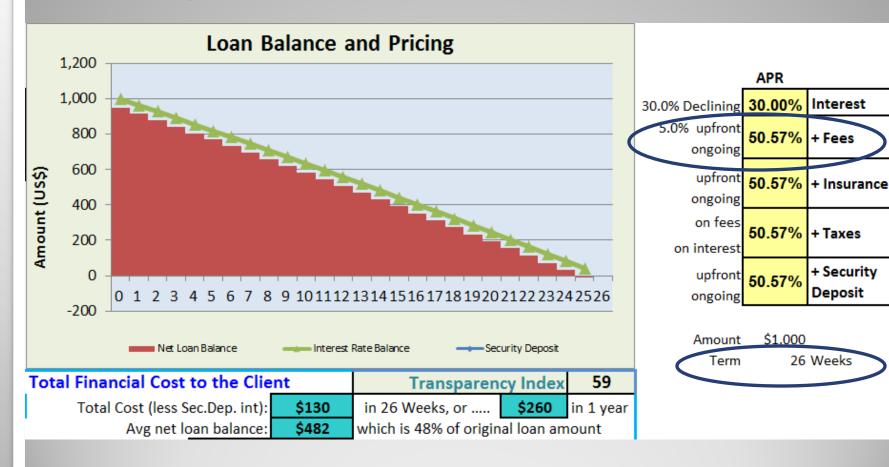
5% up-front fee on 52-week loan



APR					
30.0% Declining	30.00%	Interest			
5.0% upfront	40.75%	+ 5000			
ongoing	40.7370	Trees			
upfront	40.75%	+ Insurance			
ongoing					
on fees	40 750/	_			
on interest	40.75%	+ Taxes			
upfront	40.750/	+ Security			
ongoing	40.75%	Deposit			
		•			

Amount	\$1,000
Term	52 Weeks

5% up-front fee on 26-week loan



5% up-front fee on 12-week loan

APR

72.19% + Fees

72.19% + Taxes

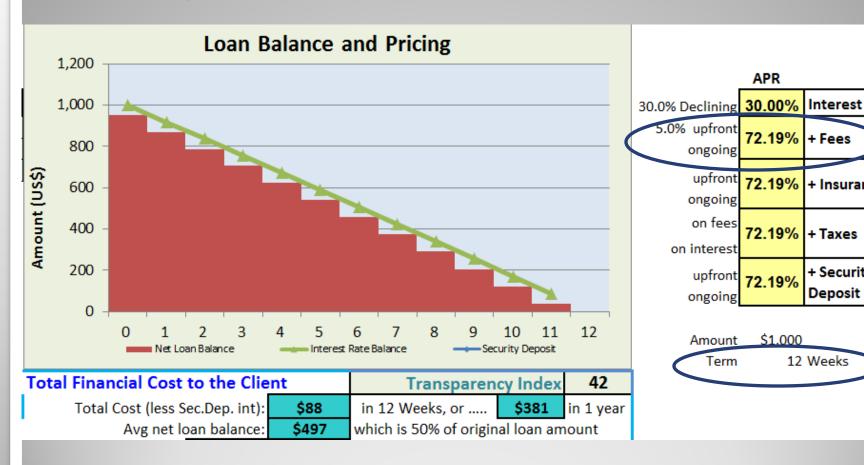
\$1.000

+ Insurance

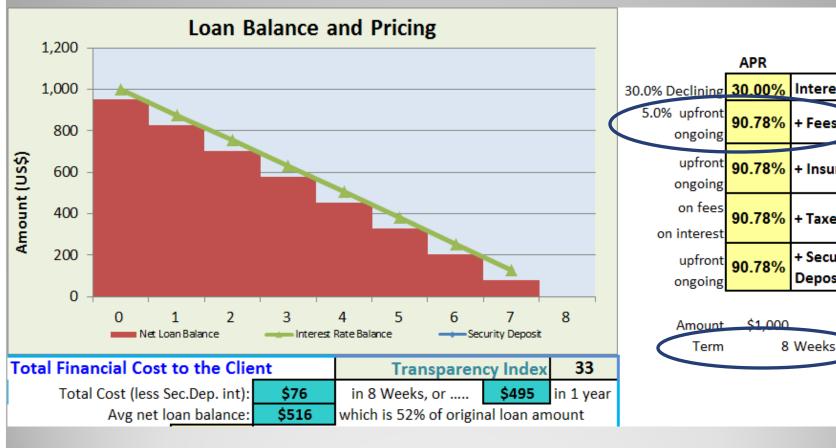
+ Security

Deposit

12 Weeks



5% up-front fee on 8-week loan

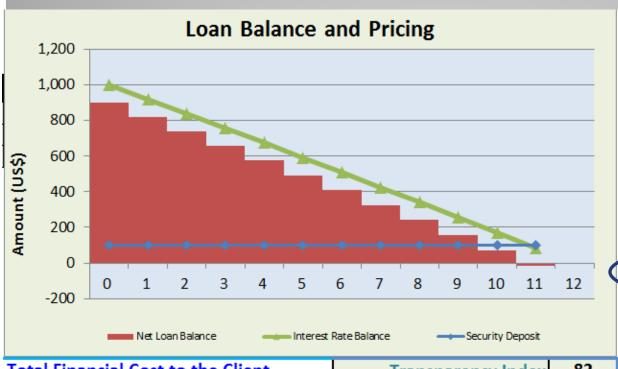


	APR	
30.0% Declining	30.00%	Interest
5.0% upfront ongoing	90.78%	+ Fees
upfront ongoing	90.78%	+ Insurance
on fees on interest	90.78%	+ Taxes
upfront ongoing	90.78%	+ Security Deposit

Understanding Security Deposits

- 1. Called "savings" in some countries, but it is collateral, inaccessible to client during the loan
- 2. Frequently part of the loan, but adds to cost even if the client deposits the money before the loan
- Frequently, the MFIs pay interest on the "savings", but
 - The "savings" is part of the loan balance
 - The client is paying a higher interest rate on the loan
 - Therefore, the "savings" increases the true cost of the loan.

10% up-front security deposit



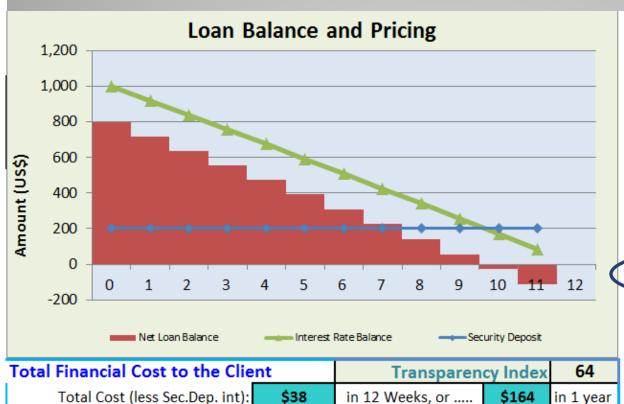
APR							
30.00% Intere	30.0% Declining						
30.00% + Fees	upfront						
	ongoing						
30.00% + Insu	upfront						
	ongoing						
30.00% + Taxe	on fees						
- Tux	on interest						
36.60% + Secu	10.0% upfront						
Depos	ongoing						

Total Financial Cost to the Clie	Transparen	cy Index	82	
Total Cost (less Sec.Dep. int):	\$38	in 12 Weeks, or	\$164	in 1 year
Avg net loan balance:	\$447	which is 45% of original loan amount		

Amount \$1,000
Term 12 Weeks
Int. on Savings 0.0% Annually

20% up-front security deposit

which is 35% of original loan amount



\$347

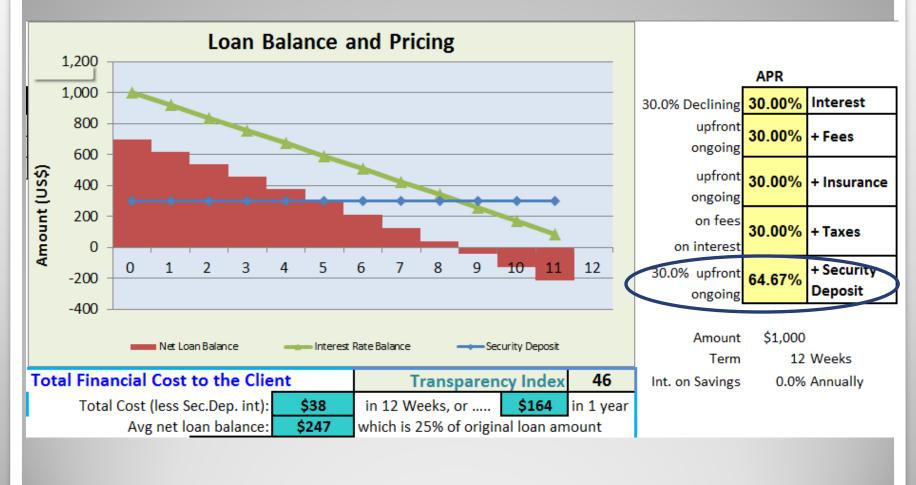
APR					
30.0% Declining	30.00%	Interest			
upfront ongoing	30.00%	+ Fees			
upfront ongoing	30.00%	+ Insurance			
on fees on interest	30.00%	+ Taxes			
20.0% upfront ongoing	46.84%	+ Security Deposit			

Amount \$1,000
Term 12 Weeks
Int. on Savings 0.0% Annually

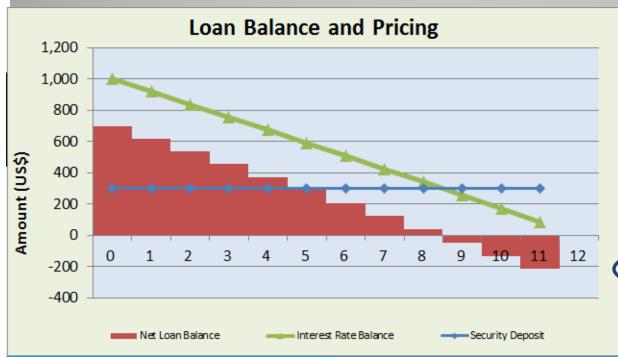
mftransparency.org

Avg net loan balance:

30% up-front security deposit



30% up-front, pay 5% interest

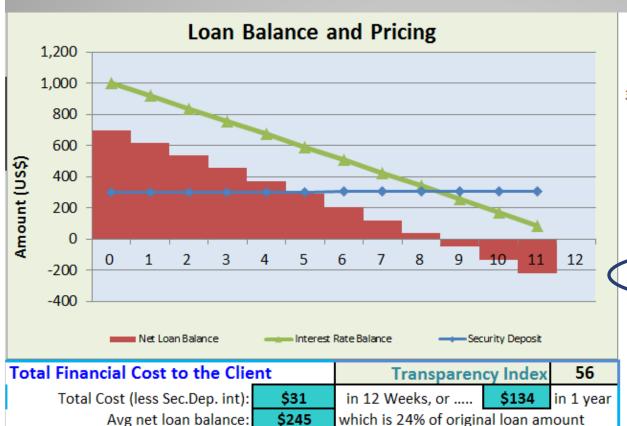


Net Loan Balance	Interest	Rate Balance	→— Sec	urity Deposit	
Total Financial Cost to the Client	Tra	nsparen	cy Index	51	
Total Cost (less Sec.Dep. int):	\$34	in 12 Week	(s, or	\$149	in 1 year
Avg net loan balance:	\$246	which is 259	% of origin	al loan am	ount

APR						
30.0% Declining	30.00%	Interest				
upfront ongoing	30.00%	+ Fees				
upfront ongoing	30.00%	+ Insurance				
on fees on interest	30.00%	+ Taxes				
30.0% upfront ongoing	59.33%	+ Security Deposit				

Amount \$1,000
Term 12 Weeks
Int. on Savings 5.0% Annually

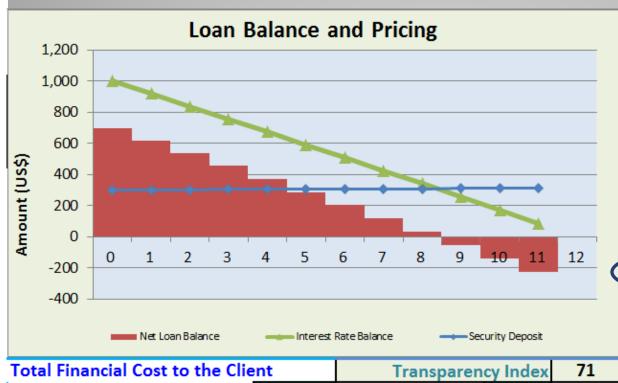
30% up-front, pay 10% interest



APR					
30.0% Declining	30.00%	Interest			
upfront ongoing	30.00%	+ Fees			
upfront ongoing	30.00%	+ Insurance			
on fees on interest	30.00%	+ Taxes			
30.0% upfront ongoing	53.83%	+ Security Deposit			

Amount \$1,000
Term 12 Weeks
Int. on Savings 10.0% Annually

30% up-front, pay 20% interest



30.0% upfront ongoing	42.30%	+ Securit Deposit	
Amount	\$1,000		
Term	12	Weeks	
Int. on Savings	20.0%	Annually	

APR

Interest

30.00% + Fees

30.00% + Taxes

upfront 30.00% + Insurance

30.0% Declining 30.00%

upfront

ongoing

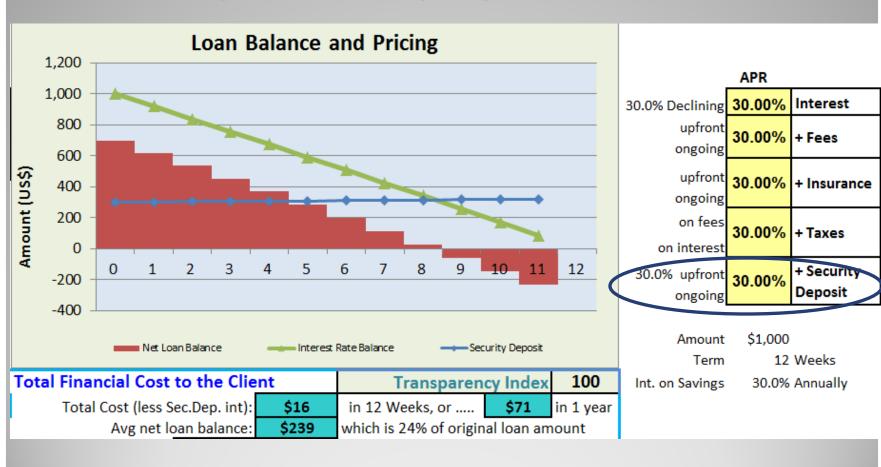
ongoing

on fees

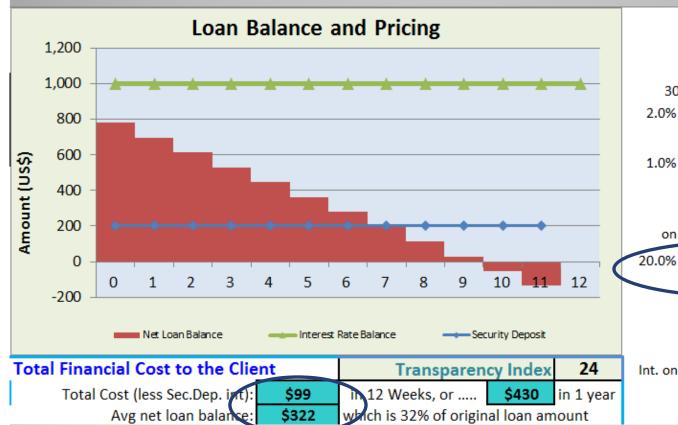
on interest

Total Cost (less Sec.Dep. int): \$24 in 12 Weeks, or \$103 in 1 year \$242 which is 24% of original loan amount Avg net loan balance:

30% up-front, pay 30% interest



Complex loan, 20% security deposit

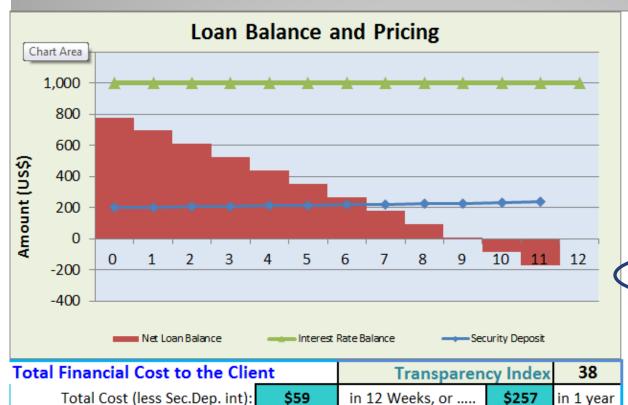


APR					
lat 54	0.0% Flat 54.35 %	Interest			
ont 71	upfront 71 07%	+ Fees			
ing	ongoing	. 1 c c 3			
ont 79	upfront 79.62 %	+ Insurance			
ing	ongoing				
ees 70	on fees 70 62%	+ Taxes			
	interest 79.02 /	TIAXES			
ont 12	upfront 123.56%	+ Security			
	ongoing	Deposit			
_					

Amount \$1,000
Term 12 Weeks
Int. on Savings 0.0% Annually

Complex Ioan, pay 79% on sec. dep.

which is 31% of original loan amount



\$307

APR		
54.35%	30.0% Flat	Interest
71.07%	2.0% upfront	+ Fees
1110170	ongoing	- 1 - 1 - 1
79.62%	1.0% upfront	+ Insurance
	ongoing	
79.62%	on fees	+ Taxes
	on interest	
70.600/	20.0% upfront	+ Security
79.62%	ongoing	Deposit

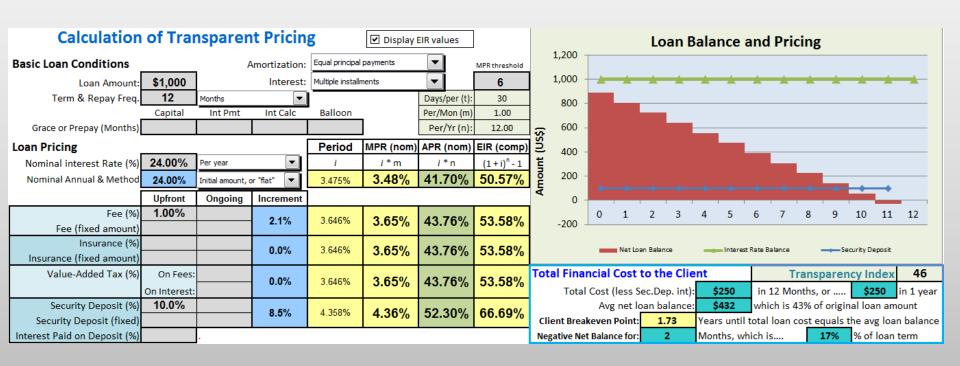
ADD

Amount \$1,000
Term 12 Weeks
Int. on Savings 79.6% Annually

mftransparency.org

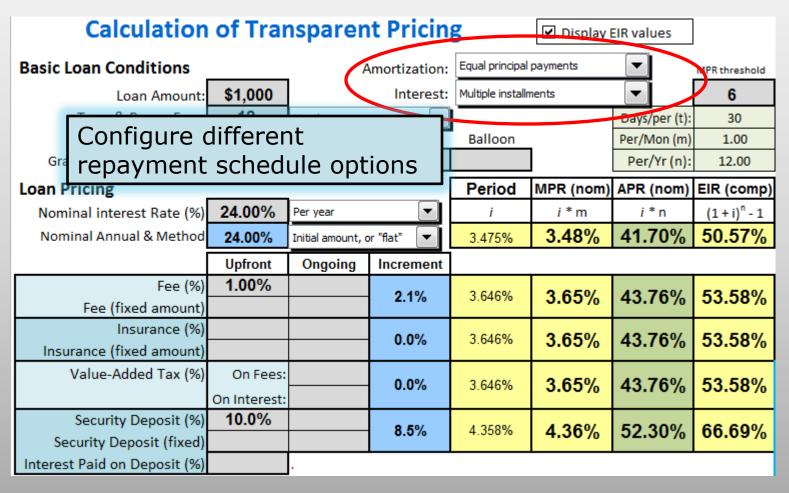
Avg net loan balance:

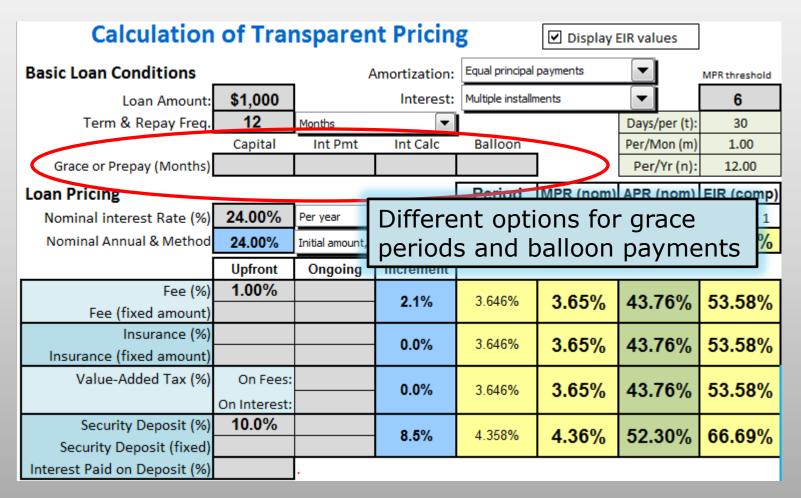
You can use our MFT Pricing
Calculator to deepen your
understanding and to calculate actual
prices of loans

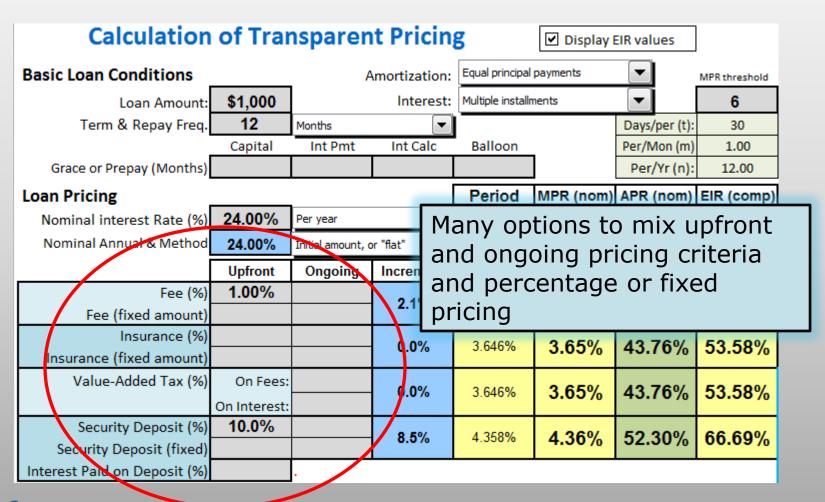


Calculation of Transparent Pricing Display					☑ Display I	EIR values	
Basic Loan Conditions Amortization:			Equal principal payments		MPR threshold		
Loan Amount:	\$1,000		Interest:	Multiple installments			6
Term & Repay Freq.	12	Months				Days/per (t):	30
	Capital	Int Pmt	Int Calc	Balloon		Per/Mon (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) ⁿ - 1
Nominal Annual & Method	24.00%	Initial amount, or "flat" ▼		3.475%	3.48%	41.70%	50.57%
	Upfront	front Ongoing Increment					
Fee (%)	1.00%		2.1%	3.646%	3.65%	43.76%	53.58%
Fee (fixed amount)			2.1/0	3.040 //	3.05%	43.70%	33.36%
Insurance (%)			0.0%	3.646%	3.65%	43.76%	53.58%
Insurance (fixed amount)			0.076	3.04070	3.03 /0	43.70 /0	JJ.J6 / ₀
Value-Added Tax (%)	On Fees:		0.0%	3.646%	3.65%	43.76%	53.58%
	On Interest:		0.076	3.04070	3.03%	43.70%	JJ.J6 / ₀
Security Deposit (%)	10.0%		8.5%	4.358%	4.360/	52 30%	66 60%
Security Deposit (fixed)				4.33070	4.36%	52.30%	66.69%
Interest Paid on Deposit (%)							

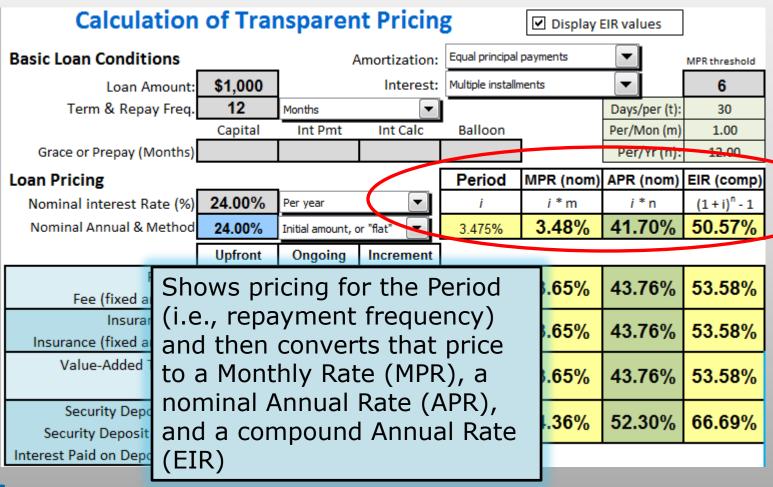
Calculation of Transparent Pricing Display EIR values							
Basic Loan Conditions	I A	A broad variety of repayment frequencies					
Loan Amount:	· -,		Intel I (e payiii		Juencie	5
Term & Repay Freq.	12	Months				Days/per (t):	30
	Capital	Days Weeks		Ralloon		Per/Mon (m)	1.00
Grace or Prepay (Months)		2-wk periods				Per/Yr (n):	12.00
Loan Pricing		15-day periods 4-wk periods		Period	MPR (nom)	APR (nom)	EIR (comp)
Nominal interest Rate (%)	24.00%	Months Quarters		i	i * m	<i>i</i> * n	(1 + i) ⁿ - 1
Nominal Annual & Method	24.00%	Half-years Years		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	3.04076	3.05%	43.70%	33.36%
Insurance (%)			0.0% 3.646	3 6460/	2 C4C9/ 2 CE9/	42 760/	E2 E00/
Insurance (fixed amount)				3.040 %	3.65%	43.76%	53.58%
Value-Added Tax (%)	On Fees:		0.00/	2.0400/	2.650/	42.760/	E2 E00/
	On Interest:		0.0%	3.646%	3.65%	43.76%	53.58%
Security Deposit (%)	10.0%	8.5%	4.2500/	4.260/	52 20 0/	66 600/	
Security Deposit (fixed)			4.358%	4.36%	52.30%	66.69%	
Interest Paid on Deposit (%)							







Calculation of Transparent Pricing Display EIR values										
Basic Loan Conditions			Amortization	Equal principal	l payments		MPR threshold			
Loan Amount:	\$1,000		Interest	Multiple install	ments		6			
Term & Repay Freq.	12	Months	•	1		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) ⁿ - 1			
Nominal Annual & Method	24.00%	Initial amoun	nt, or flat"	3.475%	3.48%	41.70%	50.57%			
	Upfront	Ongoing	Increment	1						
Fee (%)	1.00%		2.1%	3.646%	3.65%	43.76%	53.58%			
Fee (fixed amount)			2.170	5.51575	3.03 /6	43.70 /0	33.30 /6			
Insurance (%)			0.0%	3.646%	3.65%	43.76%	53.58%			
Insurance (fixed amount)				\vdash	0.0070	1011 0 70	0010070			
Value-Added Tax (%)	On Fees:		0.0%	8.646%	3.65%	43.76%	53.58%			
	On Interest:				0.0070	70	33.5578			
Security Deposit (%)			8.5%	4.358%	4.36%	52.30%	66.69%			
Security Deposit (fixed)										
Interest Paid on Deposit (%) Shows incremental cost of										
transparenc	transparency.org					each different price component				
		9		compo	ment					



Repayment Schedule The following table shows the repayment schedule and cashflow for the loan given the conditions indicated on the companion sheet with the Interest Rate Graph.

☐ Enter Manual Mode to modify dates and specific amounts

13-Jun-10 <-- Disbursment Date Maturity: 13-Jun-11 Days: 365

		an to . Disparement Date mater					,												
Paym	ent Date		Loan Co	ost and C	ashflow	Inte	rest	Fe	es		Inst	ırance	Ta	xes		Sec	urity Dep	osit	
Period #	Date	# Days	Principal Disbursed	Principal Paid	Balance	Interest Paid	Cashflow incl. Interest	Fees Paid	Cashflow incl. Fees	Period APR	Insurance Paid	Cashflow incl. insurance	Taxes	Cashflow Incl. Taxes	Security Deposit	Interest Paid	Deposit Withdr.	Deposit Balance	Cashflow incl. Sec.Dep.
0	13-Jun-10		1,000.00		1,000.00		1,000.00	10.00	990.00	1.0%	-	990.00	-	990.00	100.00			100.00	890.00
1	13-Jul-10	30		83.33	916.67	20.00	(103.33)	-	(103.33)	24.4%	-	(103.33)	-	(103.33)	-	-	-	100.00	(103.33)
2	13-Aug-10	31		83.33	833.33	20.00	(103.33)	-	(103.33)	25.7%	-	(103.33)	-	(103.33)	-	-	-	100.00	(103.33)
3	13-Sep-10	31		83.33	750.00	20.00	(103.33)	-	(103.33)	28.3%	-	(103.33)	-	(103.33)	-	-	-	100.00	(103.33)
4	13-Oct-10	30		83.33	666.67	20.00	(103.33)	-	(103.33)	32.5%	-	(103.33)	-	(103.33)	-	-	-	100.00	(103.33)
5	13-Nov-10			83.33	583.33	20.00	(103.33)	-	(103.33)	35.3%	-	(103.33)	-	(103.33)	-	-	-	100.00	(103.33)
6	13-Dec-10	30		83.33	500.00	20.00	(103.33)	-	(103.33)	41.7%	-	(103.33)	-	(103.33)	-	-	-	100.00	(103.33)
7	13-Jan-11	31		83.33	416.67	20.00	(103.33)	-	(103.33)	47.1%	-	(103.33)	-	(103.33)	-	-	-	100.00	(103.33)
8	13-Feb-11	31		83.33	333.33	20.00	(103.33)	-	(103.33)	56.6%	-	(103.33)	-	(103.33)	-	-	-	100.00	(103.33)
9	13-Mar-11	28		83.33	250.00	20.00	(103.33)	-	(103.33)	78.3%	-	(103.33)	-	(103.33)	-	-	-	100.00	(103.33)
10	13-Apr-11	31		83.33	166.67	20.00	(103.33)	-	(103.33)	94.3%	-	(103.33)	-	(103.33)	-	-	-	100.00	(103.33)
11	13-May-11	30		83.33	83.33	20.00	(103.33)	-	(103.33)		-	(103.33)	-	(103.33)	-	-	-	100.00	(103.33)
12	13-Jun-11			83.33	-	20.00	(103.33)	-	(103.33)	282.8%		(103.33)	-	(103.33)	-	-	100.00	-	(3.33)
		365	1,000.00	1,000.00		240.00	(240.00)	10.00	(250.00)		0.00	(250.00)	0.00	(250.00)	100.00	0.00	100.00		(250.00)
	MPR						3.475%		3.646%			3.646%		3.646%					4.358%
	APR						41.703%		43.756%			43.756%		43.756%					52.300%
	EAIR						50.573%		53.582%			53.582%		53.582%					66.686%
	Erint						55.57 676		00.00270			55.56276		00.00270					20.00070

The tool generates a full repayment schedule and shows the cash flow for the client, which is used to calculate the true price.

		Interest			Fees					
	Interest Paid	Override	Cashflow incl. Interest	Fees Paid	Override	Cashflow incl. Fees	Period APR			
	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00		1,000.00 (103.33) (103.33) (103.33) (103.33) (103.33) (103.33) (103.33) (103.33)	10.00 - - - - - -		990.00 (1/3.33) (103.33) (103.33) (103.33) (103.33) (103.33) (103.33) (103.33)	25.7% 28.3% 32.5% 35.3% 41.7% 47.1% 56.6%			
It includes a useful calculation of the APR for each period, showing how pricing changes dramatically with "flat interest" calculations. (10.3.3) 78.3% (10.33) 94.3% (10.33) 94.3% (10.33) 146.1% (10.33) 146.1% (10.33) 282.8% (10.33) 146.1% (10.33) 282.8% (10.33) 146.1% (10.3										

MFT Pricing Calculation Tool –

Advanced Analysis

Repayment Schedule

The following table shows the repayment schedule and cashflow or the loan given the conditions indicated

☑ Enter Manual Mode to modify dates and specific amounts

13-Jun-10 Disbursment Date

Maturity: 13-Jun-11

Davs: 365

	Pay	ment Dat	е	Loan Cost and Cashflow				low		Interest		Fees			
Period #	Days	OR Date	Date	# Days	Principal Disbursed	Principal Paid	Override	Balance	Interest Paid	Override	Cashflow incl. Interest	Fees Paid	Override	Cashflow incl. Fees	Period APR
0			13-Jun-10		1,000.00			1,000.00			1,000.00	10.00		990.00	0.0%
1			13-Jul-10	30]	83.33		916.67	20.00		(103.33)	-		(103.33)	24.4%
2			13-Aug-10	31		83.33		833.33	20.00		(103.33)	-		(103.33)	25.7%
3			13-Sep-10	31		83.33		750.00	20.00		(103.33)	-		(103.33)	28.3%
4			13-Oct-10	30		83.33		666.67	20.00		(103.33)	-		(103.33)	32.5%
5			13-Nov-10	31		83.33		583.33	20.00		(103.33)	-		(103.33)	35.3%
6			13-Dec-10	30		83.33		500.00	20.00		(103.33)	-		(103.33)	41.7%
7			13-Jan-11	31		83.33		416.67	20.00		(103.33)	-		(103.33)	47.1%
8			13-Feb-11	31		83.33		333.33	20.00		(103.33)	-		(103.33)	56.6%
9			13-Mar-11	28		83.33		250.00	20.00		(103.33)	-		(103.33)	78.3%
10			13-Apr-11	31		83.33		166.67	20.00		(103.33)	-		(103.33)	94.3%
11			13-May-11	30		83.33		83.33	20.00		(103.33)	-			146.1%
12			13-Jun-11	31		83.33		-	20.00		(103.33)	-		(103.33)	282.8%
				365	1,000.00	1,000.00	0.00		240.00	0.00	(240.00)	10.00	0.00	(250.00)	
			MPR					_			3.469%		·	3.640%	

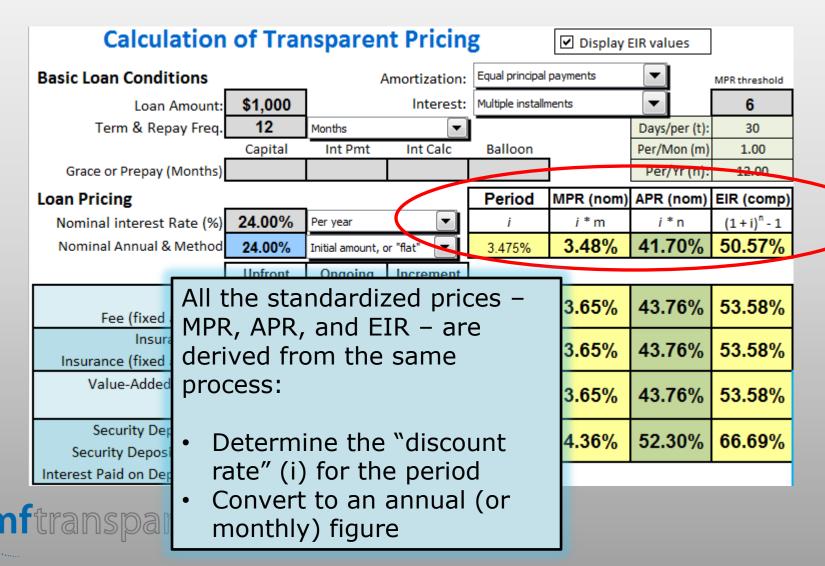
APR

EAIR

43 682%

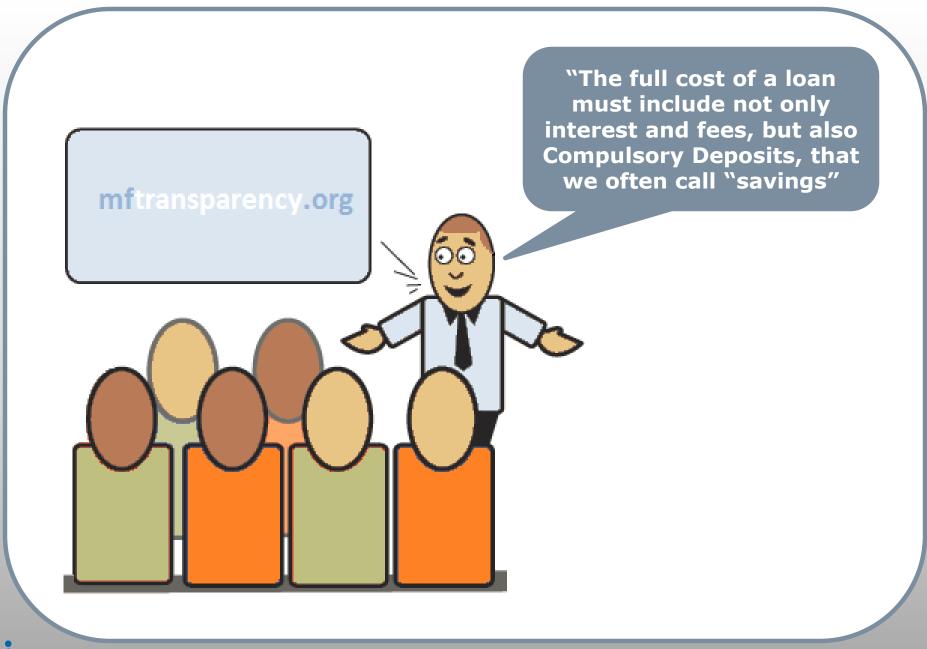
53.582%

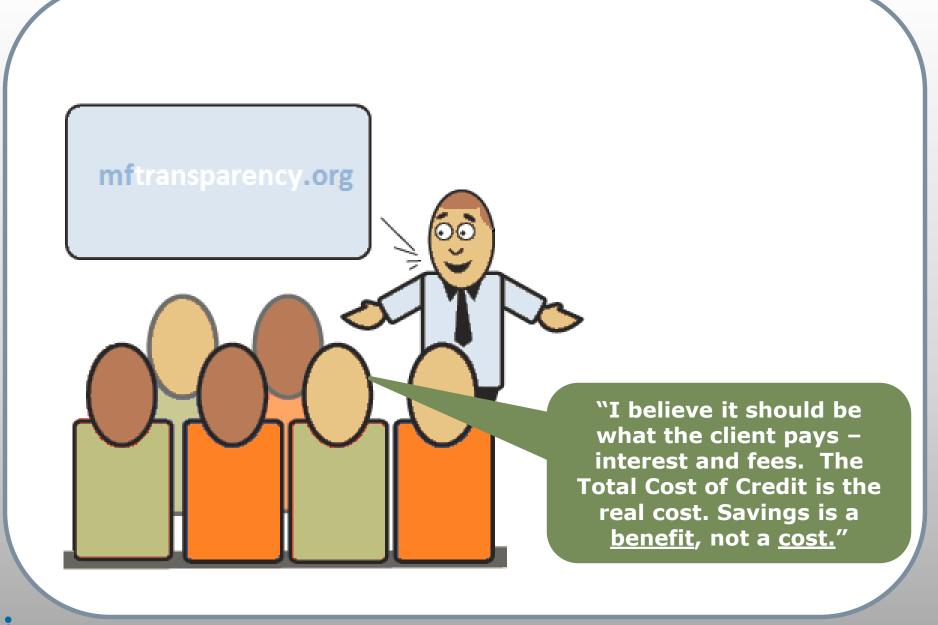
You can also enter "manual mode" to put in exact dates and amounts when the automatic options don't give you the exact price.

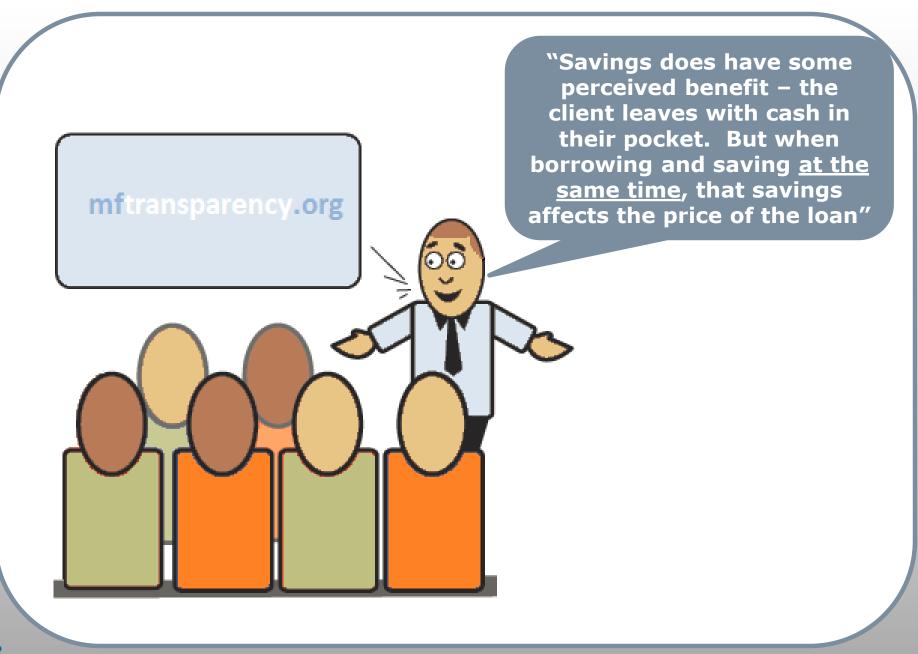


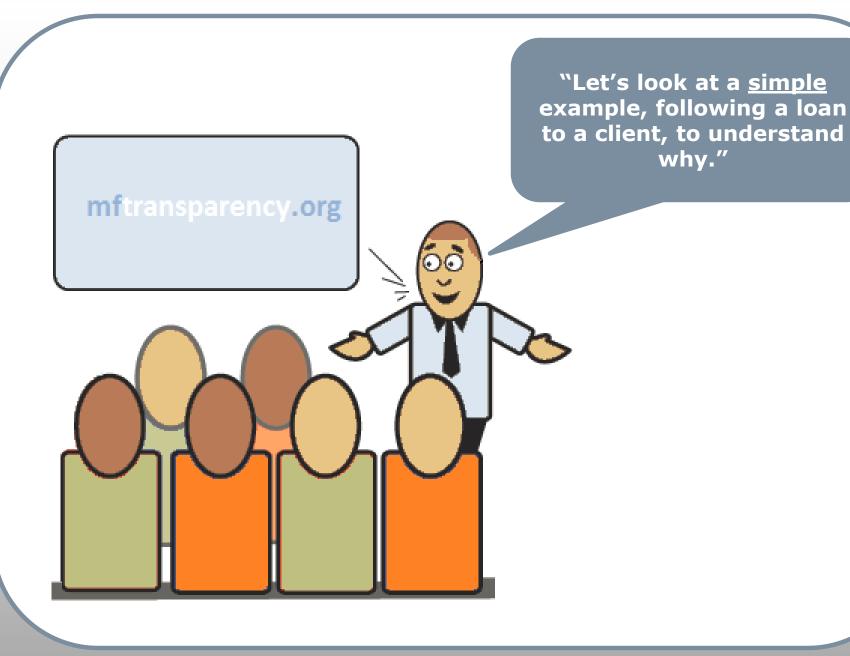
COLLATERAL DEPOSITS ("SAVINGS")

Though potentially offering some benefits to the client, compulsory deposits clearly have a financial cost to the client.











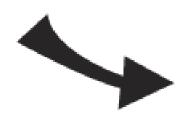
Loan Term = 10 months
Loan Amount = \$1000
Compulsory deposit = 20%
Interest Rate = 2.5% per
month (flat) or \$25 per
month















After 1 month







Part of the loan interest paid is for the part of the loan that is in "savings"



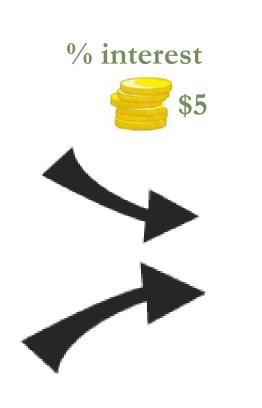


% interest + principal

After 6 months - Amounts are equal









After 8 months - none of original loan left



BUSINESS

\$0





is repaid

% interest + principal



So client may be forced to liquidate stock in order to repay the loan



BUSINESS

Negative \$!!

At end of loan – savings are repaid to client





But what has client actually paid?

Using TCC – Total Cost of Credit

PRINCIPAL

Loan repayments = \$1000



With Savings

INTEREST

Interest paid on loan = \$200

Interest paid on savings = \$50

TCC = \$250

Av. Loan Balance for business = \$350

Without Savings

INTEREST

Interest paid on loan = \$250

TCC = \$250

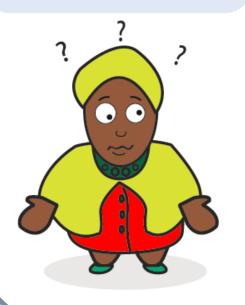
Av. Loan Balance for business = \$550

But what has client actually paid?

Using APR – Annual Percentage Rate

PRINCIPAL

Loan repayments = \$1000



With Savings

INTEREST

Interest paid on loan = \$200

Interest paid on savings = \$50

Total APR = 75%

Av. Loan Balance for business = \$350

Without Savings

INTEREST

Interest paid on loan = \$250

Total APR = 51%

Av. Loan Balance for business = \$550

Burning off the Fog of Pricing

Making sense of the complications of the price communicated

Fanikiwa Microfinance Company Limited Zanzibar

Loan Repayment Schedule

Client Name : Client ID : Loan Series : 1

Product Name: Personal Loans

Loan Amount : 3,000,000.00 (TZS) Interest Rate : 24.00 % Flat

Term : 12 (Month(s)) Repayment Term : 12 (Monthly)

Installment No.	Installment Due Date	Installment Amount
1	20/Mar/2013	310,000.00
2	22/Apr/2013	310,000.00
3	20/May/2013	310,000.00
4	20/Jun/2013	310,000.00
5	22/Jul/2013	310,000.00
6	20/Aug/2013	310,000.00
7	20/Sep/2013	310,000.00
8	21/Oct/2013	310,000.00
9	20/Nov/2013	310,000.00
10	20/Dec/2013	310,000.00
11	20/Jan/2014	310,000.00
12	20/Feb/2014	310,000.00

MicroFinance Transparency Pricing Calculation

Institution: Fanikiwa Microfinance Company Limited Country: Tanzania Full Price: 62.42% Product 4: Personal Loan Transparency Index: 38/100 Sample 3 of 5, Variation 1 of 1 FileName: TZ-006-V02-FMFC-P04-PriceCalc-S3-1-20130208.PDF Date of Analysis: 2013-05-22 Total Pd 3,000,000.00 **Pricing Info** Quoted info Incr MPR APR EIR Loan Amt: Avg Balance: NA* Interest 24.00% annual, Flat 720,000.00 41.24% 3.44% 41.24% 51.01% 2.00% upfront 60,000.00 4.02% 3.77% Disb Date: 20-Feb-13 Fees 45.26% 57.20% 1.00% upfront 2.05% 3.94% 60.45% Term (Months): 12.0 Insurance 30,000.00 47.31% Grace (Months): -0.1None 0.00 0.00% 3.94% 47.31% 60.45% Deposit 15.00% upfront 15.11% 5.20% 62.42% 86.58% 38 810,000.00 Transp INDEX: 5.20% 62.42% 86.58% Total Cost Total Cost of Loan Loan Amount & Balance **Compulsory Deposit** Taxes Deposit Date Disburse Prin+Int Fees Insurance Interest Withdraw Balance ransparent Price (nominal APR) 45.26% 47.31% 47.31% 41.24% 62.42% 60,000.00 Totals 30,000.00 0.00 450,000.00 0.00 0.00 3,000,000 3,720,000 (450,000.00) 20-Feb-13 3,000,000.00 60,000.00 30,000.00 450,000.00 450,000.00 0 20-Mar-13 310,000.00 450,000.00 1 2 22-Apr-13 310,000.00 450,000.00 20-May-13 450,000.00 3 310,000.00 4 20-Jun-13 450,000.00 310,000.00 5 22-Jul-13 310,000.00 450,000,00 20-Aug-13 310,000.00 450,000.00 7 20-Sep-13 310,000.00 450,000,00 21-Oct-13 450,000.00 310,000.00 9 20-Nov-13 310,000.00 450,000.00 20-Dec-13 310,000.00 450,000.00 10 11 20-Jan-14 310,000.00 450,000.00 12 20-Feb-14 310,000.00 (450,000.00)



Lo	an Amoun	t & Balance		Total Cost	0	f Loan
Per	Date	Disburse	Prin+Int	Fees		Insurance
Trans	parent Price	(nominal APR)	41.24%	45.26%		47.31%
Totals		3,000,000	3,720,000	60,000.00		30,000.00
0	20-Feb-13	3,000,000.00		60,000.00		30,000.00
1	20-Mar-13	-	310,000.00	-		-
2	22-Apr-13		310,000.00			-
3	20-May-13		310,000.00			-
4	20-Jun-13	-	310,000.00	-		-
5	22-Jul-13	-	310,000.00	-		-
6	20-Aug-13	-	310,000.00	-		-
7	20-Sep-13	-	310,000.00	-		-
8	21-Oct-13	-	310,000.00	-		-
9	20-Nov-13	-	310,000.00	-		-
10	20-Dec-13	-	310,000.00	-		-
11	20-Jan-14	-	310,000.00	-		-
12	20-Feb-14	-	310,000.00	-		-

MicroFinance Transparency Pricing Calculation

			ance Company Lin		Country	. Tanzania			Full Pric	e: 62.42 %
Produ	ict 4: Perso	onal Loan						Tra	ansparency In	dex: 38/100
Sample	3 of 5, Varia	tion 1 of 1 FileN	ame: TZ-006-V02-FMF0	C-P04-PriceCalc	-S3-1-20130208.	PDF			Date of Analysi	s: 2013-05-22
	Loan Amt:	3,000,000.00	Pricing Info	Quo	ted info	Total Pd	Incr	MPR	APR	EIR
	Avg Balance:	NA*	Interest		annual, Flat	720,000.00	41.24%	3.44%	41.24%	51.01%
	Disb Date:	20-Feb-13	Fees		% upfront	60,000.00	4.02%	3.77%	45.26%	57.20%
Ter	rm (Months):	12.0	Insurance		% upfront	30,000.00	2.05%	3.94%	47.31%	60.45%
Gra	ce (Months):	-0.1	Taxes	s I	None	0.00	0.00%	3.94%	47.31%	60.45%
			Deposit	t 15.00	% upfront		15.11%	5.20%	62.42%	86.78%
Tra	ansp INDEX:	38	Total Cost		·	810,000.00		5.20%	62.42%	88.58%
Lo	an Amount	& Balance		Total Cos	t of Loan			Compulsory Deposit		
Per	Date	Disburse	Prin+Int	Fees	msurance	Taxes	Deposit	Interest		Balance
Trans	narent Drice	(nominal APR)	41.24%	45.26%	47.31%	//7.240/	62.42%			
	parent Frice					47.31%				
Totals		3,000,000	3,720,000	60,000.00	30,000.00	0.00	450,000.00	0.00	(450,000.00)	0.00
0	20-Feb-13	3,000,000.00	-	60,000.00	30,000.00	-	450,000.00		-	450,000.00
1	20-Mar-13	-	310,000.00	-	-	-	-		-	450,000.00
2	22-Apr-13	-	310,000.00	-	-	-	-		-	450,000.00
3	20-May-13	-	310,000.00	-	-	-	-	-	-	450,000.00
4	20-Jun-13	-	310,000.00	-	-	-	-	-	-	450,000.00
5	22-Jul-13		310,000.00	-	-	-	-	-	-	450,000.00
6	20-Aug-13	-	310,000.00	-	-	-	-	-	-	450,000.00
7	20-Sep-13	-	310,000.00	-	-	-	-	-	-	450,000.00
8	21-Oct-13		310,000.00	-	-	-	-	-	-	450,000.00
9	20-Nov-13	-	310,000.00	-	-	-	-	-	-	450,000.00
10	20-Dec-13	-	310,000.00	-	-	-	-		-	450,000.00
11	20-Jan-14	-	310,000.00	-	-	-	-	-	-	450,000.00
12	20-Feb-14	-	310,000.00	-	-	-	-	-	(450,000.00)	-

omp	any Limi	ted Country:	Tanzania		Full Pric	Full Price: 62.42%			
					Tra	insparency In	dex: 38/100		
006-V	02-FMFC-P	04-PriceCalc-S3-1-20130208.P	'DF		[Date of Analysis	: 2013-05-22		
Pric	cing Info	Quoted info	Total Pd	Incr	MPR	APR	EIR		
	Interest	24.00% annual, Flat	720,000.00	41.24%	3.44%	41.24%	51.01%		
	Fees	2.00% upfront	60,000.00	4.02%	3.77%	45.26%	57.20%		
1	nsurance	1.00% upfront	30,000.00	2.05%	3.94%	47.31%	60.45%		
	Taxes	None	0.00	0.00%	3.94%	47.31%	60.45%		
	Deposit	15.00% upfront		15.11%	5.20%	62.42%	86.58%		
Tot	al Cost		810,000.00		5.20%	62.42%	86.58%		

d Coun	Γanzania				Full Pric	e: 62.42 %	
					Tra	ansparency In	dex: 38/100
PriceCalc-S3-1-201302	208.PD)F			ĺ	Date of Analysis	: 2013-05-22
0		IDJ		•		455	
Quoted info		Total Pd		Incr	MPR	APR	EIR
24.00% annual, Flat		720,000.00	_ \	41.24%	3.44%	41.24%	51.01%
2.00% upfront		60,000.00		4.02%	3.77%	45.26%	57.20%
1.00% upfront		30,000.00		2.05%	3.94%	47.31%	60.45%
None		0.00		0.00%	3.94%	47.31%	60.45%
15.00% upfront				15.11%	5.20%	62.42%	86.58%
		810,000.00			5.20%	62.42%	86.58%
	PriceCalc-S3-1-201303 Quoted info 24.00% annual, Flat 2.00% upfront 1.00% upfront None	PriceCalc-S3-1-20130208.PD Quoted info 24.00% annual, Flat 2.00% upfront 1.00% upfront None	PriceCalc-S3-1-20130208.PDF Quoted info Total Pd 24.00% annual, Flat 720,000.00 2.00% upfront 60,000.00 1.00% upfront 30,000.00 None 0.00 15.00% upfront	PriceCalc-S3-1-20130208.PDF Quoted info Total Pd 24.00% annual, Flat 720,000.00 2.00% upfront 60,000.00 1.00% upfront 30,000.00 None 0.00 15.00% upfront	PriceCalc-S3-1-20130208.PDF Quoted info Total Pd Incr 24.00% annual, Flat 720,000.00 41.24% 2.00% upfront 60,000.00 4.02% 1.00% upfront 30,000.00 2.05% None 0.00 0.00% 15.00% upfront 15.11%	PriceCalc-S3-1-20130208.PDF Quoted info 24.00% annual, Flat 720,000.00 41.24% 3.44% 2.00% upfront 60,000.00 4.02% 3.77% 1.00% upfront 30,000.00 2.05% None 0.00 0.00% 3.94% 15.00% upfront 15.11% 5.20%	PriceCalc-S3-1-20130208.PDF Date of Analysis Quoted info Total Pd Incr MPR APR 24.00% annual, Flat 720,000.00 41.24% 3.44% 41.24% 2.00% upfront 60,000.00 4.02% 3.77% 45.26% 1.00% upfront 30,000.00 2.05% 3.94% 47.31% None 0.00 0.00% 3.94% 47.31% 15.00% upfront 15.11% 5.20% 62.42%

ompany Limit	ed Country:	Tanzania			Full Price: 62.42%			
				Tra	ansparency In	dex: 38/100		
006-V02-FMFC-P0	04-PriceCalc-S3-1-20130208.F	DF		ı	Date of Analysis	: 2013-05-22		
Pricing Info	Quoted info	Total Pd	Incr	MPR	APR	EIR		
r manig inito				THIT IS				
Interest	24.00% annual, Flat	720,000.00	41.24%	3.44%	41.24%	51.01%		
Fees	2.00% upfront	60,000.00	4.02%	3.77%	45.26%	57.20%		
Insurance	1.00% upfront	30,000.00	2.05%	3.94%	47.31%	60.45%		
Taxes	None	0.00	0.00%	3.94%	47.31%	60.45%		
Deposit	15.00% upfront		15.11%	5.20%	62.42%	86.58%		
Total Cost		810,000.00		5.20%	62.42%	86.58%		

mpany Limited	Countr	y: Tanzania			Full Price: 62.429					
				Tra	ansparency In	dex: 38/100				
006-V02-FMFC-P04-PriceCalc-S3-1-20130208.PDF Date of Analysis: 2013-05-										
But to a to fo	0	T18.1			1					
Pricing Info	Quoted info	Total Pd	Incr	MPR	APR	EIR				
Interest	24.00% annual, Flat	720,000.00	41.24%	3.44%	41.24%	51.01%				
Fees	2.00% upfront	60,000.00	4.02%	3.77%	45.26%	57.20%				
Insurance	1.00% upfront	30,000.00	2.05%	3.94%	47.31%	60.45%				
Taxes	None	0.00	0.00%	3.94%	47.31%	60.45%				
Deposit	15.00% upfront		15.11%	5.20%	62.42%	86.58%				
Total Cost		810,000.00		5.20%	62.42%	86.58%				
						_				

ompany Limited Country: Tanzania

Full Price: 62.42%

Transparency Index: 38/100

Date of Analysis: 2013-05-22

006-V0	2-EMEC-	PO4-Price	eCalc-S3-1	20130208.PDF
AND A SE	C-1 1811 2-			-20130200.101

Pricing Info	Quoted info	Total Pd	Incr	MPR	APR	EIR
Interest	24.00% annual, Flat	720,000.00	41.24%	3.44%	41.24%	51.01%
Fees	2.00% upfront	60,000.00	4.02%	3.77%	45.26%	57.20%
Insurance	1.00% upfront	30,000.00	2.05%	3.94%	47.31%	60.45%
Taxes	None	0.00	0.00%	3.94%	47.31%	60.45%
Deposit	15.00% upfront		15.11%	5.20%	62.42%	86.58%
Total Cost		810,000.00		5.20%	62.42%	86.58%

ompany Limited Country: Tanzania Full Price: 62.42%

Transparency Index: 38/100 Date of Analysis: 2013-05-22

006-V02-FMFC-P04-PriceCalc-S3-1-20130208.PDF

Pricing Info	Quoted info	Total Pd	lner	MPR	APR	EIR
Interest	24.00% annual, Flat	720,000.00	41.24%	3.44%	41.24%	51.01%
Fees	2.00% upfront	60,000.00	4.02%	3.77%	45.26%	57.20%
Insurance	1.00% upfront	30,000.00	2.05%	3.94%	47.31%	60.45%
Taxes	None	0.00	0.00%	3.94%	47.31%	60.45%
Deposit	15.00% upfront		15.11%	5.20%	62.42%	86.58%
Total Cost		810,000.00		5.20%	62.42%	86.58%



Group Exercise – Part I

- Review some example repayment schedules that clients receive. Compare the information to the complete information for the companion MFT Price Calculation Sheet.
- Rate what is good and what needs improvement

Sample	Strengths	Weaknesses
Gatsby		
Microfinance		
Lillings		
Ujjivan		
Hofokam		

Group Exercise – Part II

• Review the different price components and propose an approach for how legislation should address them

Price Components	Approach
Interest	
Should flat interest be allowed?	
Should there be a single defined approach to how interest is calculated	
Fees	
Should there be a limit to the number of fees charged?	

Promoting Transparent Pricing in the Microfinance Industry

MicroFinance Transparency is an NGO registered in the USA

