







Presentation overview







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Cost of production

• Typical "cost of production elements" inherent in pricing



Cost of funds

- Obtained from funds transfer pricing system
- Aim
 - To show the cost of funding at the desired maturity given the asset liquidity profile <u>and</u>
 - with an instrument with similar interest rate repricing characteristics
- Example:
 - 3 year floating rate (3 monthly repricing) corporate loan
 - Funding rate = 3 month rate + add-on for liquidity

Regulatory liquidity costs also needs to be factored in







Expected losses

- Expected loss rate commensurate with asset class
- Decision elements
 - One year loss rate ?
 - Annualized cumulative loss rate ?
 - Loss rate given the point in the cycle v long run loss rate?
 - Answer: Depends on asset type and pricing strategy
- Obtain estimates from
 - Historical analysis (e.g. accounting write-offs) or
 - Statistical credit models (probability of default, loss given default, exposure at default estimates)







Example : indicative loss rate

- Corporate 1 year average loss rates (international scale)
 - AAA,AA,ABBB15bps
 - BBB 15bpsBB 50bps
 - B 300bps
 - CCC 1000bps
 - * Source: S&P 1980 2005 data (assuming 50% LGD)
- Retail
 - Homeloans 10-50bps
 - Cards 300-600bps

Loss rates need to be adjusted given future economic condition expectations and maturity of transactions





Notes on rating scales

- International scale
 - Foreign currency
 - Local currency
- National scale / domestic rating







Capital costs

- Annual costs of capital requirements
 - Cost of capital x capital requirement
- Decision points
 - Include regulatory costs (typically 10%) x COC or
 - Include economic capital costs (risk based) x COC
- Current practice followed in the market







Example: risk based capital requirements (as proxied in terms of Basel II)



^{*} Note: Basel I capital for homeloans are 50% or 100%







Example: risk based capital requirements translated into a margin requirement @11% COC









Origination and servicing costs

- Materiality of marginal costs depends on portfolio type
 - Corporate term loans
 - Small, due to large loan sizes
 - Homeloans
 - 0.5%-1%
 - Credit cards and small loans
 - 2-4%







Profit margin

- Depends on
 - Bank's view of what the asset is worth and targeted hurdles
 - Client's view of the cost
 - Competitor's view of the cost
- Factors influencing profit margin
 - Stand-alone pricing v relationship pricing
 - Client pricing v product pricing
 - Other revenue streams
 - Transactional revenue
 - Liability margins







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Market status of pricing sophistication

- Traditionally
 - Limited differentiation in pricing
 - Cross-subsidisation
 - Only focussed on making appropriate overall return
- Contemporary practice
 - Banks are moving to more granular risk based pricing
 - More prevalent in the structured credit market for corporates
 - Main driver = ROE targets
 - Regulatory issues such as usury ceilings complicates pricing in the higher risk segments
 - E.g. credit cards
 - Basel II to be a further catalyst for focus on risk-based pricing

FirstRand introduced risk based pricing (credit and capital) in 2003





Example: FirstRand "pricing wizard"

🛃 Pricing Wizard					
Deal Dat	tes Margins Solve Valu	uation Help	Credit		
Obligor	Client ABC		•		
Rating	BBB • on 27/06/200	05			
Exposure t	ype PC Corporate	\supset	•		
Cost of capital X%			6 🔽		
Use slotting criteria Calc LGDs					
Promissory notes					
Pure credit	spread 19 bp Nacs	Calc	ок		
Capital spr	ead 69 bp Nacs				
		Capital	Profile		
			?		







Asset margin developments

- Margin pressures since 2004/5
 - Originators' fees
 - Higher cost of funding mix
 - Increased use in the industry of professional (expensive funding)
 - Low-cost deposits and capital funding benefit less in low-rate environment
- Pressures offset to large extent by lower credit losses
- Increased competition
 - Non-bank competitors







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Other portfolios – correlation between margin and "cost of production" drivers

	Corporate term loans	Homeloans	Credit cards
Typical margins	150 – 250bps	200-250bps	700-900bps
Production costs			
Expected losses	25-75bps	10-50bps	300-600bps
Capital costs (risk-based)	50-100bps	30-60bps	100-200bps
Origination and other costs	25-75bps	50-100bps	200-300bps
Implied profit margin after costs	<100bps	50-100 bps	Low, but transactional revenues makes up





Performing an exact calc: homeloans indicative example

Analysis of HomeLoans	%
incremental new business margin	
Core margin	3.45
Average client discount	1.35
Margin [Client rate – cost of funds per MMFTP]	2.10
Adjusted for costs	1.78
 Liquid asset costs [Regulatory liquidity costs] 	0.21
- Expected loss [Long run average credit costs]	0.35
- Origination costs	0.43
- Processing costs	0.23
- Admin costs	0.16
- Capital costs [Based on economic capital x Net COE]	0.40
Residual profit	0.32





Considerations in evaluating margins

- Product mix is a key driver
 - Target market for each product will have significant effect
- Cost : assets materially different for different products
 - Net margin after costs should be a key focus
- Variability of credit losses
 - Depends on credit segment targeted
- Capital costs
 - Will become more important under Basel II to manage
- Transactional and other revenue need to be taken into account

Understanding the bank strategy to asset pricing and market Segments targeted are key to understanding margins









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