

Credit Risk Programme

Module 10 Bringing it Together



Learning Objectives

At the end of this module, you will have an overview of:

- Portfolio overview
- Decision tools
- New to bank acquisition
 - Incorporate Risk appetite and RDF
- Existing to Bank Portfolio Management
 - Incorporate Risk appetite and RDF
- Portfolio Monitoring and Tracking





Malaysia Credit Cards

CAD Extract

- Malaysia CCPL portfolio has been liquidating rapidly from a high of USO St.eSAn in 2OL2 to USD 0.8998n as of end June 20L5. The portfolio has declined by t3% from the beginning of 2Ol5. Overall performance has been trending worse with lower reduction in delinquent inventory and losses compared to ENR. Overall LAR is projected to decline from 5.1 %in2OL4 lo 4.9% in 2015. 2014 and early reads of 2015 vintage performance are worse than prior vintages with cumulative LAR over 3 years of H72074 vintage is projected to be 5.0% for PL and 1.2% for Cards.
- Overall performance is expected to improve LAR and RORWA. LAR for Personal Loan is going to improve from 2.L% in 15 to 4.L% in 2OL7,lor Cards LAR will improve from 8.3% in 2015 to 9.0% in 20IT.RORWAforLoansisgoingtoimprovefrom 3.2% in 2015 to 3.5% in 2O17 and for Cards from 7.5% in 2015 to 7.6% in 2017. Monthly monitoring of portfolio and TTD statistics will be the basis to assure performance is in line with expectations.

Duoposod	Product	ENR (\$m)	Exposure (\$m)	Recession Loss (\$m)
Proposed Approved	Credit Cards	642	2484	64
Peak	Personal Loans	383	383	76
Exposure (up to Sep 2016)	Revolving Credit	1	2	-
to Sep 2016)	Total	1027	2869	140



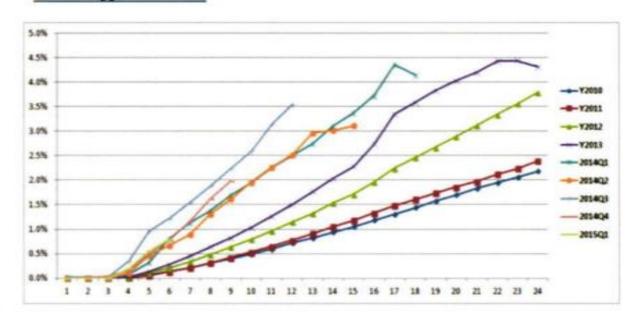
Portfolio Financials

Malaysia Credit Cards

Financial Summary

% ANR	2013	2014	2015(Sep)
Revenue	13.3%	13.7%	13.2%
GCO	5.7%	5.5%	4.6%
LI	5.1%	4.2%	3.2%
LAR	8.2%	9.5%	10.1%
LI% Rev	38%	30%	24%

Vintage Chart



Financial Metrics and Underlying performance are diverging

- Apparent reduction in losses from cards
- Deterioration in vintage performance



Decision Tools

In House and Bureau Scores

- Credit Scorecards are in place for all retail lending products in Malaysia.
- Existing scorecards being replaced with new scorecards where performance has dropped
- Credit Bureau Score being used to augment CC behavior Score for usage in CC ETB RDF strategy

	Existing		Ne	New	
	KS	GINI	KS	GINI	
PL A-Scorecard	24.3%	26.9%	30.2%	41.8%	
PL B-Scorecard (current segment)	34.1%	42.2%	38.0%	49.0%	
PL B-Scorecard (X & 30 days segment)	44.7%	48.2%	38.0%	51.0%	
Credit Bureau B-Scorecard	65.8%	80.1%			
Credit Card B-score (Current) (current segment)	41.5%	55.0%			
Credit Card B-score (Current) (X & 30 day segment	30.9%	42.2%		VENEZE IN	
Credit Card B-score (NEW) (current segment)*	56.9%	70.7%			
Credit Card B-score (NEW) (X days segment)*	50.9%	66.0%	(b)		
CC A-Scorecard	21.2%	25.6%	STATE OF THE PARTY OF		
CC A-Scorecard (Matured segment)			59.47%	75.20%	
CC A-Scorecard (Young segment)			51.97%	68.20%	

Decision systems in place to enable both new to bank and existing bank credit decisions



Scorecard Tools

Existing Card Application Scorecard

Max. Delq in last 12 mth (all credit bureau products) (Bureau)

Credit Card Utilization Rate (Bureau)

Count of 30+dpd in last 12 mth (revolving products) (Bureau)

Oldest Card MOB (Bureau)

Regular Monthly Income (Demographic)

Applicant age (Demographic)

Education Level (Demographic)

Accommodation Status (Demo8raphic)

New Scorecard (Mature - Bur >= 24 MOB)

Ratio of number of P[account to total number of loans (Bureau)

% Utilization of Revolving accounts (Bureau)

Percentage accounts delinquent 30+dpd (Bureau)

of enquiries in the last 12 months (Bureau)

of credit cards with utilization greater than 75% (Bureau)

Applicant age (Demo6raphic)

Secured account maximum delinquency (Bureau)

of Unsecured account opened in the last 24 months (Bureau)

New Scorecard (Young - Bur < 24 MOB)

of enquiries in the last 6 months (Bureau)

% Utilization of Unsecured accounts (Bureau)

of Pt opened in the last 12 months (Bureau)

of CC with Balance > RM 5,000 (Bureau)

of Delinquent Secured Accounts with balance > 50% of Credit Amount (Bureau)

Applicant's highest level of education (Demographic)

Age of the oldest Revolving account (Bureau)

Age of the newest I[account (Bureau]

Months in current employment (Demographic)

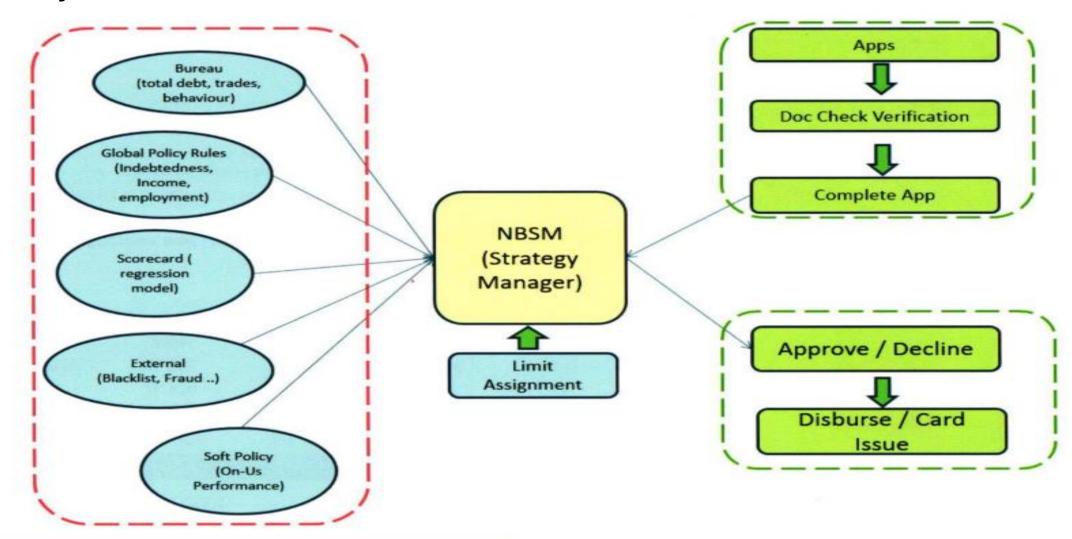
Marital status (Demographic)

of Unsecured account 30+ dgd in last 6 months



Integrated Decision Process

Malaysia Credit Cards





Malaysia Credit Cards

Financial Summary

% ANR	2013	2014	2015(Sep)
Revenue	13.3%	13.7%	13.2%
GCO	5.7%	5.5%	4.6%
LI	5.1%	4.2%	3.2%
LAR	8.2%	9.5%	10.1%
LI% Rev	38%	30%	24%

Financial Metrics and Underlying performance are diverging

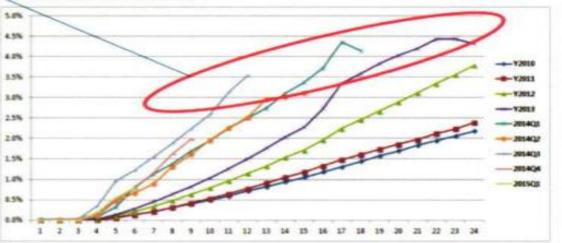
- Apparent reduction in losses from cards
 - driven by restructuring accounts booked as personal loans (losses transferred)
- Deterioration in vintage performance
- High percentage of volatile concentration in portfolio

New originations- % Distribution



Volatile	Loss rate>8%
Moderate	Loss rate 4-8%
Standard	Loss rate<4%

Vintage Chart





"Real" Loss Recognition for Malaysia Unsecured Portfolio Malaysia - DRP Misallocation

Malaysia Unsecured DRP (restructured accounts) are booked on the same system as loans (RLS).

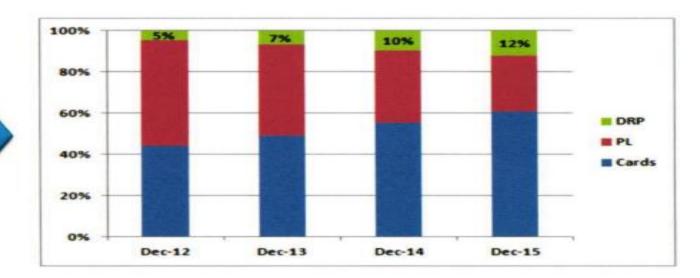
- Due to system limitation, the P&L-of the DRP book is reported under "Personal Loans"
- Impact of this misalignment is that CC standalone financials look "artificially" healthy, and PL performance deterioration is compounded
- With DRP (majority being AKPX or regulatory conversions) book growing, the loss rate of Pt is deteriorating

As per GL	LI % (Loss Rate)
Personal Loans	7.5%
Credit Cards	3.2%
Total	5 1%

	THE RESERVE OF THE PERSON NAMED IN	
After	re-allocating DRP	
	riginating product	

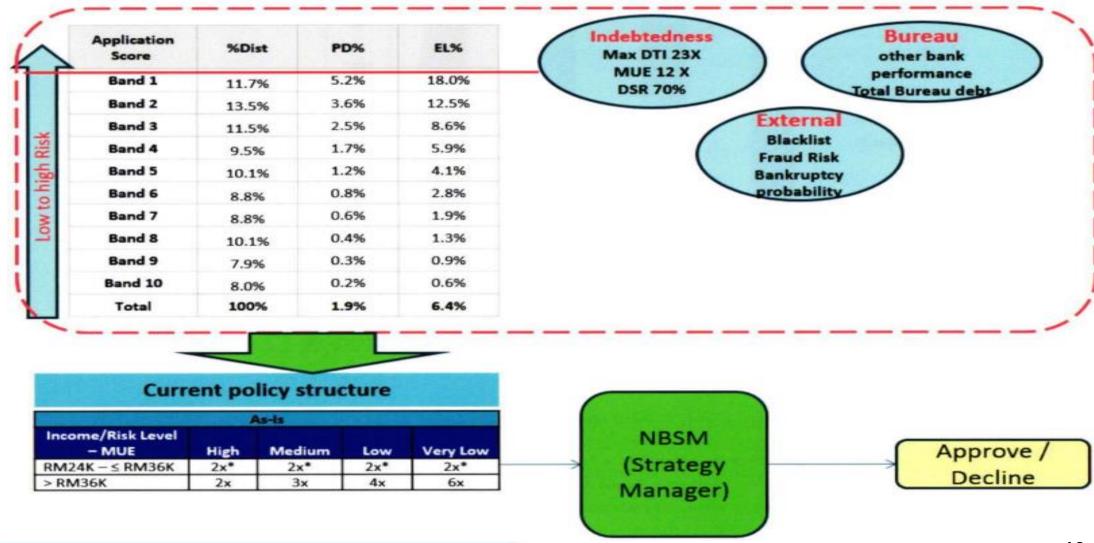
Real Loss	LI % (Loss Rate)
Personal Loans	5.0%
Credit Cards	5.2%
Total	5.1%

Increasing % of DRP in the Unsecured Portfolio



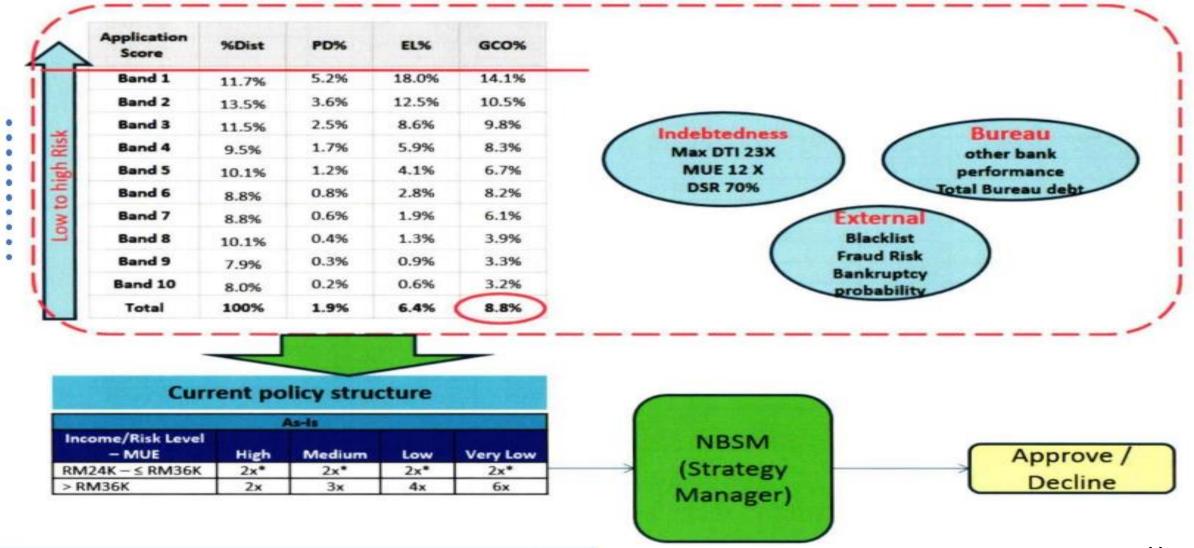


RDF Segmentation Approach - New Originations Malaysia Credit Cards NTB





RDF Segmentation Approach - New Originations Malaysia Credit Cards NTB





CC NTB - Utilization Rates

- Drop in utilization rates seen in more recent vintages, as the CVP was diluted
- This impacted good utilization, while bad utilization stayed high

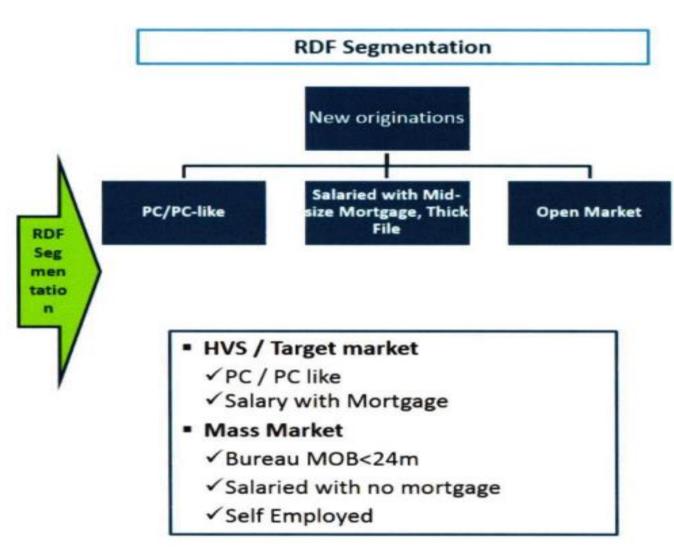
: Average Utilization	1:V36	2:V24	3:V12
Band 1	52.9%	48.4%	46.1%
Band 2	42.9%	34.5%	32.8%
Band 3	32.2%	25.2%	23.2%
Band 4	22.9%	17.2%	17.1%
Band 5	16.2%	11.6%	11.5%
Band 6	11.6%	8.6%	8.4%
Band 7	9.0%	6.2%	6.6%
Band 8	7.7%	4.6%	4.9%
Band 9	5.4%	4.1%	3.9%
Average Utilization	4.5%	3.0%	2.7%
Sum of utirate12	1:V36	2:V24	3:V12
Sum of utirate12 Band 1	1:V36 49.0%	2:V24 47.2%	3:V12 41.9%
Band 1	49.0%	47.2%	41.9%
Band 1 Band 2	49.0% 40.8%	47.2% 35.7%	41.9% 32.0%
Band 1 Band 2 Band 3	49.0% 40.8% 32.7%	47.2% 35.7% 27.4%	41.9% 32.0% 23.3%
Band 1 Band 2 Band 3 Band 4	49.0% 40.8% 32.7% 24.3%	47.2% 35.7% 27.4% 20.0%	41.9% 32.0% 23.3% 18.0%
Band 1 Band 2 Band 3 Band 4 Band 5	49.0% 40.8% 32.7% 24.3% 17.7%	47.2% 35.7% 27.4% 20.0% 13.5%	41.9% 32.0% 23.3% 18.0% 12.6%
Band 1 Band 2 Band 3 Band 4 Band 5 Band 6	49.0% 40.8% 32.7% 24.3% 17.7% 12.8%	47.2% 35.7% 27.4% 20.0% 13.5% 9.7%	41.9% 32.0% 23.3% 18.0% 12.6% 8.8%
Band 1 Band 2 Band 3 Band 4 Band 5 Band 6 Band 7	49.0% 40.8% 32.7% 24.3% 17.7% 12.8% 10.4%	47.2% 35.7% 27.4% 20.0% 13.5% 9.7% 7.7%	41.9% 32.0% 23.3% 18.0% 12.6% 8.8% 7.4%

Average Utilization	1:V36	2:V24	3:V12
Band 1	35.9%	31.3%	
Band 2	30.5%	26.0%	
Band 3	25.0%	19.8%	
Band 4	20.5%	15.7%	
Band 5	17.2%	10.9%	
Band 6	13.4%	8.3%	
Band 7	9.9%	6.5%	
Band 8	9.3%	4.3%	
Band 9	6.5%	3.8%	
Average Utilization	5.3%	2.8%	
Sum of utirate36	1:V36	2:V24	3:V12
Band 1	22.1%		
Band 2	21.5%		
Band 3			
band 3	17.7%		
Band 4	17.7% 15.0%		
Band 4	15.0%		
Band 4 Band 5	15.0% 12.0%		
Band 4 Band 5 Band 6	15.0% 12.0% 8.6%		
Band 4 Band 5 Band 6 Band 7	15.0% 12.0% 8.6% 8.2%		



RDF Segmentation Approach – New Originations Malaysia Credit Cards NTB

Application Score	%Dist	PD%
Band 1	11.7%	5.2%
Band 2	13.5%	3.6%
Band 3	11.5%	2.5%
Band 4	9.5%	1.7%
Band 3 Band 4 Band 5 Band 6	10.1%	1.2%
Band 6	8.8%	0.8%
Band 7	8.8%	0.6%
Band 8	10.1%	0.4%
Band 9	7.9%	0.3%
Band 10	8.0%	0.2%
Total	100%	1.9%





RDF Segmentation Approach – New Originations Malaysia Credit Cards NTB

Application Score	%Dist	PD%	EL%	GCO%	Application Score	PC & PC- Like	Salaried & Mtg 300k-1M & Bur > 24	Others
Band 1	11.7%	5.2%	18.0%	14.1%	Band 1	0.0%	6.9%	14.1%
Band 2	13.5%	3.6%	12.5%	10.5%	Band 2	0.0%	2.2%	10.5%
Band 3	11.5%	2.5%	8.6%	9.8%	Band 3	0.0%	6.2%	10.4%
Band 4	9.5%	1.7%	5.9%	8.3%	Band 4	0.0%	8.6%	8.1%
Band 5	10.1%	1.2%	4.1%	6.7%	Band 5	0.0%	2.3%	7.0%
Band 6	8.8%	0.8%	2.8%	8.2%	Band 6	0.0%	4.5%	8.5%
Band 7	8.8%	0.6%	1.9%	6.1%	Band 7	0.0%	0.9%	4.1%
Band 8	10.1%	0.4%	1.3%	3.9%	Band 8	0.0%	2.2%	3.0%
Band 9	7.9%	0.3%	0.9%	3.3%	Band 9	0.0%	0.9%	3.1%
Band 10	8.0%	0.2%	0.6%	3.2%	Band 10	0.0%	5.8%	3.1%
Total	100%	1.9%	6.4%	8.8%	Total	0.0%	3.9%	9.0%
Old Cut off	did not diff	ferentiate	by bureau o	characteris	%Distribution	0.6%	8.2%	91.1%
New cut off			The second second	ssed loss 8			Volatile	>8%
egmented b	y bureau c	haracterist	tics				Moderate	4-8%
							Standard	<4%

- Segmented Approach with aligned financial metrics enables further risk splitting
- Big concentration visible in current TTDin "Others." Accounts volume expected to drop by 35% volume with revised segmentation and differentiated cut-off
- LAR to improve from 2.6% to 6.3%.



RDF Credit Strategy

Malaysia Credit Cards - New Originations

HVS/Target

Lower Cut-Off

All in Standard

Line Capping Relaxed

Max 1.5x off-us line

Salaried with Mid-size Mortgage, Thick File

Cutoff maintained

Cut Off Raised for Standard

Line Capping Relaxed

Max 1.2x off-us line

Others

Raise cutoff

By 3 score band

Line Capping Relaxed

Max 1.2x off us line

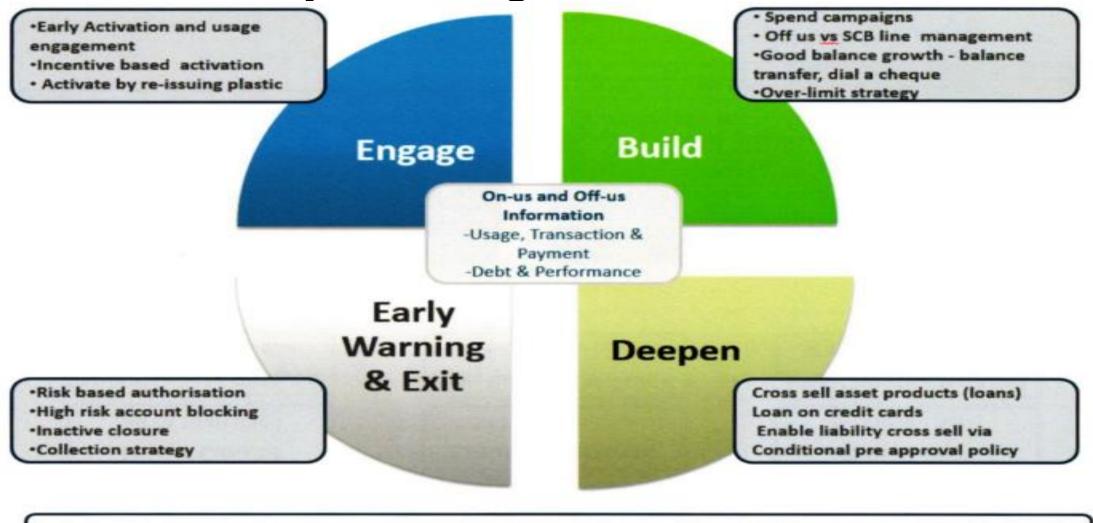
Current policy structure								
As-is								
Income/Risk Level – MUE	High	Medium	Low	Very Low				
RM24K – ≤ RM36K	2x*	2x*	2x*	2x*				
> RM36K	2x	3x	4x	6x				

New RDF strategy							
		То-ве					
Risk Grade	Score Band	1: Priority Client & Priority Client Like	2:Salaried and Mortgage 300k - 1M	4:Others			
Income RM	24-36k p.a.(*)		2x				
1-3	339 - 438		4x	N/A			
4-7	439 - 473	6x	122	4x			
8+	>474		6X	бх			

(*)Income RM 24-36k p.a.- MUE 2x for all segments due to regulatory guidelines



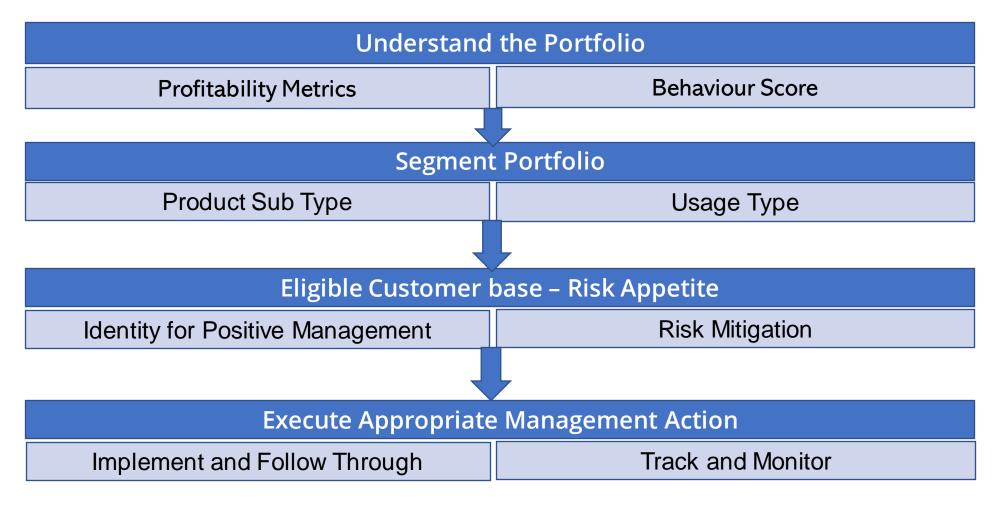
Customer Lifecycle Management – Credit Cards



Lifecycle customer management critical to match strategy to customer behaviour and needs



Customer Lifecycle Management – Credit Cards



Robust and detailed portfolio understanding and analysis critical for effective portfolio management



Customer Lifecycle Management – Credit Cards

	Si	napshot Poin	t: Aug-2013			@Snapshot				Subseq	uent 12	-month	s
мов	Segment	MPS Se	egment	Transactor/Revolver	#Cust	\$ Limit	\$ ENR	\$ ANR	\$ GCO	\$ Revenue	GCO%	Rev%	LAR%
MOB<6					45,416	722,104	131,188	146,675	7,886	7,582	5.4%	5.2%	-0.2%
	X+ DPD				23,301	645,832	369,565	255,419	111,773	40,039	43.8%	15.7%	-28.19
	Current & Bloo	cked			5,665	93,264	33,055	24,113	3,352	3,879	13.9%	16.1%	2.2%
	Unscored				18,913	306,594	42,056	42,496	1,504	4,706	3.5%	11.1%	7.5%
Transactor				24,751	1,432,579	912,867	811,959	18,011	99,240	2.2%	12.2%	10.0%	
			With Cash	Occ Revolver	9,676	493,072	316,708	293,752	10,073	38,956	3.4%	13.3%	9.8%
			One / COC	Mid Revolver	8,912	404,144	289,663	274,107	12,293	39,441	4.5%	14.4%	9.9%
		sanc nal so		Hard-Revolver	10,156	407,213	314,805	297,312	19,572	45,558	6.6%	15.3%	8.7%
MOB>=6		MPS Bal >0		Transactor	9,131	294,350	70,665	69,398	644	4,323	0.9%1	6.2%	5.3%
	With Valid B-		BT / MPS	Occ Revolver	4,066	117,414	37,568	40,422	572	4,248	1.4%	10.5%	9.1%
	score		BI / MPS	Mid Revolver	3,206	82,260	38,297	39,171	1,170	5,330	3.0%	13.6%	10.6%
				Hard-Revolver	5,712	141,440	94,580	91,209	5,481	14,336	6.0%	15.7%	9.7%
				Transactor	146,415	3,917,011	185,533	245,993	1,630	16,440	0.7%	6.7%	6.0%
		MPS Bal <=((Core Card	Occ Revolver	31,035	783,920	65,395	89,059	1,416	12,434	1.6%	14.0%	12.4%
		Custo	mers)	Mid Revolver	12,998	257,385	65,968	73,813	1,151	12,297	1.6%	16.7%	15.1%
				Hard-Revolver	29,408	561,076	231,461	230,123	10,375	38,582	4.5%	16.8%	12.3%
	To	tal			390,238	10,697,893	3,205,908	3,032,189	207,318	388,399	6.8%	12.8%	6.0%

Observation point: Aug2013 Roll-up: Customer level, including Cash One

- Cash Product holding risk ranks the customer base
- Payment behaviour risk ranks within each segment



Product Level Segmentation

Current & Scored				
Cust #	296,943			
Limit	8,930,100			
ENR	2,630,045			
ANR	2,563,486			
Loss Rate - 3Y	5.6%			
Rev %	12.0%			
LAR %	6.5%			

	1:C1	2:COC	3:MPS	4:BT	5:CC
Cust #	23,004	30,653	12,107	10,207	220,972
Limit	1,497,908	1,245,741	327,234	312,426	5,546,791
ENR	1,108,595	729,026	143,004	98,445	550,975
ANR	1,019,900	660,435	143,991	96,578	642,583
Loss Rate - 3Y	6.5%	5.9%	5.5%	4.5%	3.9%
Rev %	11.7%	12.3%	13.1%	9.6%	12.4%
LAR %	5.2%	6.4%	7.6%	5.1%	8.5%

CashOne (C1) /Cash On Card (COC) /Major Purchase Scheme (MPS) /Balance Transfer (BT) /Credit Card (CC)only - based on product holding

RDF Segmentation leverages existing Behavior score and new Credit Bureau Score

All	Cust #	Cust %	ENR \$	ENR %	3 yr Loss
Standard	222,733	75.0%	1,287,803	49.0%	1.7%
Moderate	27,048	9.1%	477,599	18.2%	5.6%
Volatile 1	13,513	4.6%	352,990	13.4%	8.9%
Volatile 2	33,649	11.3%	511,653	19.5%	13.4%
Total	296,943	100.0%	2,630,045	100.0%	5.6%



Cash One – Segmenting the eligible base

	AB	CC	DD	EF	GHIJ	OTHERS	Total
1:C1	110000					111111111111111111111111111111111111111	
Loss Rate (GCO + 50% DRP)							
0:Above 584	0.0%	0.1%	4.3%	2.5%	#DIV/0!	0.0%	0.7%
1:561 - 584	0.2%	0.2%	3.6%	0.0%	0.0%	0.0%	0.6%
2:526 - 560	0.7%	0.8%	1.5%	2.0%	0.0%	3.5%	1.2%
3:473 - 525	0.7%	1.8%	3.3%	4.2%	2.4%	3.0%	2.8%
4:434 - 472	1.2%	2.4%	3.3%	4.9%	3.3%	6.2%	3.9%
5:Low - 433	5.0%	4.7%	8.8%	8.7%	9.5%	11.3%	8.2%
3 Year Loss Rate							
0:Above 584	0.0%	0.2%	8.4%	4.9%	#DIV/0!	0.0%	1.3%
1:561 - 584	0.3%	0.4%	7.2%	0.0%	0.0%	0.0%	1.2%
2:526 - 560	1.4%	1.6%	3.0%	3.9%	0.0%	6.9%	2.4%
3:473 - 525	1.3%	3.5%	6.5%	8.3%	4.7%	6.0%	5.5%
4:434 - 472	2.4%	4.7%	6.4%	9.7%	6.5%	12.2%	7.7%
5:Low - 433	9.9%	9.3%	17.3%	17.2%	18.7%	22.3%	16.3%
Rev - 3 Yr Loss							
0:Above 584	10.2%	9.6%	1.7%	4.8%	0.0%	7.1%	8.7%
1:561 - 584	9.8%	9.4%	3.4%	10.5%	10.8%	10.3%	8.9%
2:526 - 560	8.9%	9.0%	7.2%	7.3%	13.2%	4.4%	8.2%
3:473 - 525	10.1%	7.9%	4.9%	3.6%	8.3%	6.1%	6.1%
4:434 - 472	9.8%	7.8%	6.0%	2.8%	6.8%	0.8%	4.9%
5:Low - 433	2.6%	3.9%	-4.3%	-3.7%	-4.3%	-8.5%	-2.9%
oss Rate (GCO + 50% DRP)	0.8%	1.6%	3.6%	5.2%	4.6%	5.8%	3.3%
3 Year Loss Rate	1.6%	3.2%	7.1%	10.2%	9.1%	11.4%	6.5%
Rev - 3 Yr Loss	9.3%	8.1%	4.5%	2.1%	4.4%	1.1%	5.2%
# Cust	3,628	5,556	4,568	8,404	97	751	23,004
ENR	210,302	250,831	208,903	403,212	2,080	33,266	1,108,59



Cash One - Segmentation enables eligible base

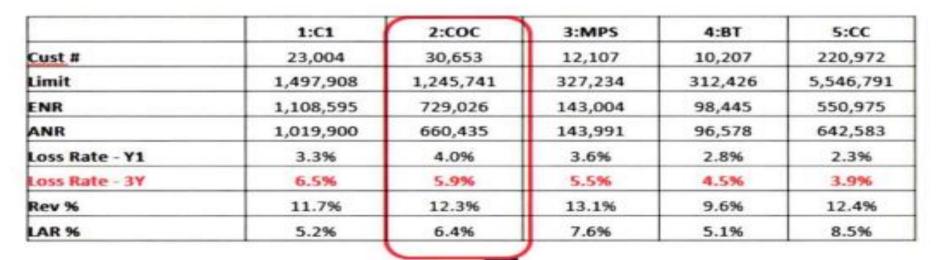
	AB	CC	DD	EF	GHU	OTHERS	Total
1:C1							
Loss Rate (GCO + 50% DRP)							
0:Above 584	0.0%	0.1%	4.3%	2.5%	#DIV/01	0.0%	0.7%
1:561 - 584	0.2%	0.296	3.6%	0.0%	0.0%	0.0%	0.6%
2:526 - 560	0.7%	0.8%	1.5%	2.0%	0.0%	3.5%	1.2%
3:473 - 525	0.7%	1.8%	3.3%	4.296	2.4%	3.0%	2.8%
4:434 - 472	1.296	2.496	3.3%	4.9%	3.3%	6.2%	3.9%
5:Low - 433	5.0%	4.7%	8.8%	8.7%	9.5%	11.3%	8.2%
3 Year Loss Rate							
0:Above 584	0.0%	0.2%	8.4%	4.9%	#DIV/0!	0.0%	1.3%
1:561 - 584	0.3%	0.496	7.2%	0.0%	0.0%	0.0%	1.29
2:526 - 560	1.496	1.6%	3.0%	3.9%	0.0%	6.9%	2.4%
3:473 - 525	1.3%	3.5%	6.5%	8.3%	4.7%	6.0%	5.5%
4:434 - 472	2.4%	4.7%	6.496	9.796	6.596	12.2%	7.7%
5:Low - 433	9.9%	9.3%	17.3%	3.7.2%	18.7%	22.3%	16.39
Rev - 3 Yr Loss							
0:Above 584	10.2%	9.6%	1.7%	4.8%	0.0%	7.196	8.7%
1:561 - 584	9.8%	9.496	3.4%	10.5%	10.8%	10.3%	8.9%
2:526 - 560	8.9%	9.0%	7.2%	7.3%	13.2%	4.4%	8.2%
3:473 - 525	10.1%	7.9%	4.9%	3.6%	8.3%	6.1%	6.1%
4:434 - 472	9.8%	7.8%	6.0%	2.8%	6.8%	0.8%	4.9%
5:Low - 433	2.6%	3.9%	-4.3%	-3.7%	-4.3%	-8.5%	-2.99

1:C1	Cust #	Cust %	ENR\$	ENR %
Standard	10,430	45.3%	517,007	46.6%
Moderate	3,495	15.2%	165,040	14.9%
Volatile 1	5,277	22.9%	260,823	23.5%
Volatile 2	3,802	16.5%	165,726	14.9%
Total	23,004	100.0%	1,108,595	100.0%

40% in High risk segment



Cash on Card – Segment eligible base



2:COC	Cust #	Cust %	ENR\$	ENR %
Standard	14,384	46.9%	319,450	43.8%
Moderate	8,183	26.7%	201,681	27.7%
Volatile 1	902	2.9%	24,986	3.4%
Volatile 2	7,184	23.4%	182,909	25.1%
Total	30,653	100.0%	729,026	100.0%

29% ENR in Volatile Segment



BT – Segment eligible base



4:BT	Cust #	Cust %	ENR \$	ENR %
Standard	7,915	77.5%	66,309	67.4%
Moderate	149	1.5%	2,295	2.3%
Volatile 1	564	5.5%	8,165	8.3%
Volatile 2	1,579	15.5%	21,675	22.0%
Total	10,207	100.0%	98,445	100.0%

31% ENR in Volatile Segment



CC – Segment eligible base

					1
	1:C1	2:COC	3:MPS	4:BT	5:CC
Cust #	23,004	30,653	12,107	10,207	220,972
Limit	1,497,908	1,245,741	327,234	312,426	5,546,791
ENR	1,108,595	729,026	143,004	98,445	550,975
ANR	1,019,900	660,435	143,991	96,578	642,583
Loss Rate - Y1	3.3%	4.0%	3.6%	2.8%	2.3%
Loss Rate - 3Y	6.5%	5.9%	5.5%	4.5%	3.9%
Rev %	11.7%	12.3%	13.1%	9.6%	12.4%
LAR %	5.2%	6.4%	7.6%	5.1%	8.5%
				(A)	

5:CC	Cust #	Cust %	ENR\$	ENR %
Standard	182,919	82.8%	327,058	59.4%
Moderate	12,596	5.7%	67,554	12.3%
Volatile 1	6,443	2.9%	52,506	9.5%
Volatile 2	19,014	8.6%	103,856	18.8%
Total	220,972	100.0%	550,975	100.0%

29% ENR in Volatile Segment



Reassessing Policy Overlays - CC ETB

High Utilization
Maintain for Moderate

	High Ut	ilization	
3 Yr GCO Rates	No	Yes	Total
Standard	1.6%	4.1%	1.7%
Moderate	4.7%	8.8%	5.6%

Bureau MOB: 12M for Standard, 24M for Moderate

		Bureau MOB		
3 Yr GCO Rates	L<12	12-24	24+	Total
Standard	12.8%	5.9%	1.6%	1.7%
Moderate	4.0%	17.4%	4.7%	5.6%

High Credit Bureau Enq Remove

3 Yr GCO Rates	High Enq 1	High Enq 2	Total
Standard	4.1%	1.3%	1.7%
Moderate	4.8%	2.9%	4.7%

Bureau Delinquent

3 Yr GCO Rates	Bur Del 1	Bur Del 2	Total
Standard	2.9%	1.496	1.7%
Moderate	4.7%	4.7%	4.7%

Important to ensure policy overlays are rationalised to make sure they are relevant and not reduce the power of scores



Portfolio Management Actions

No	Portfolio Strategy	Standard	Moderate	Volatile 1	Volatile 2
1	Cross Sell Strategy	✓	✓	√ *	
2	CLI	✓	✓		
3	Overlimit	✓	✓		
4	Cash Advance	✓	✓		
5	Authorisation	✓	✓	✓	
6	Card Renewal	✓	✓	✓	✓
7	CLD				✓
8	Activation and Deepening	✓	✓		

^{*} Target customers with further separation in Volatile 1



Cross Sell Strategy

P&L Dynamics	Standard	Moderate	Volatile 1
GCO%ANR	1.7%	5.6%	8.9%
COF	3.7%	3.7%	3.7%
Breakeven (LAR) Pricing	5.4%	9.3%	12.6%
Breakeven (Stress LAR) Pricing	5.4%	11.0%	17.9%

		Str	ategy Based on	Stress LAR Positi	ve
Distribut	ion by EIR	Standard	Moderate	Volatile 1	Volatile 2
ВТ	3%-5.5%	BAU	Price Up		
	5.5%-7.5%	BAU	Price Up		
	9.5%-11%	BAU	Price Up	1000	
	11%-12.5%	BAU	BAU		
COC	7.5%-9.5%	BAU	Price Up	Decline	
	9.5%-11%	BAU	Price Up	segments where further separation is possible and pricing can justify)	Decline
	12.5%-17%	BAU	BAU		
	17%-18%	BAU	BAU		
Cash One	12.5%-17%	BAU	BAU		
	17%-18%	BAU	BAU		
	18%-25%	BAU	BAU		
MPS/EPS	3%-5.5%	BAU	Price Up		Jp Justily)
	7.5%-9.5%	BAU	Price Up		
	12.5%-17%	BAU	BAU		
	17%-18%	BAU	BAU		



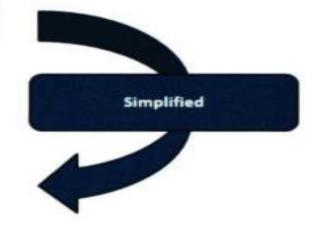
Credit Limit Increase - CLI

Current Policy

MOR		MU	E Matrix (Annu	al Income)	
мов	RM24K - <	RM40K*	RM40K - <	RM90K	≥ RM9	юк
CC B-Score	386 - 508	≥ 509	386 - 508	≥ 509	386 - 508	≥ 509
6-11 MOB	5x - 6 x	5x	5x	6x	5x	6x
12-23 MOB	6x	6x	6x	7x	6x	7x
24-35 MOB	7x	8x	7x	9x	7x	9x
36-47 MOB	7x	9x	7x	10x	7x	10x
48-59 MOB	7x	9x	7x	12x	7x	12x
≥ 60 MOB	8x	9x	8x	12x	8x	12x



Risk Level	MUE	MOB	Line Increase (%)
Chanderd	42	≥ 6 and < 12	50%
Standard	12x	≥ 12	100%
Moderate	12x	All	50%
Volatile 1		Decline	
Volatile 2	Decline		





Overlimit

Current Policy

Current Status Accounts Only

МОВ	B – Score	Overlimit
<6	N/A	0
	<385	0
	386 – 405	5%
	406 – 425	10%
>6	426 – 446	15%
	447 – 465	15%
	466 – 486	20%
	≥487	30%

Proposed Policy

Current Status Accounts Only

МОВ	Risk Level	Overlimit
<6	All	0%
	Standard	30%
. 6	Moderate	15%
>6	Volatile 1	0%
	Volatile 2	0%



Cash Advance

Cur		
МОВ	B – Score	Overlimit
<6	N/A	20%
6 to 12	≤ 418	0
	> 418	20%
	≤ 418	0
>12	419 – 446	20%
	447 – 484	50%
	≥485	80%

Proposed Policy					
Risk Level	МОВ	Ove	rlimit		
Standard		20%			
Moderate	<6	20%			
Volatile		0%			
Standard		50%			
Moderate	. 6	30%			
Volatile 1	>6	0%			
Volatile 2		0%			

Portfolio Performance of cash users

Segment (MOB > 6)	Cash Usage	Yr 1 Loss	3 Yr Loss
Standard	No Cash Usage	0.9%	1.5%
	With Cash Usage	3.0%	5.3%
	No Cash Usage	3.2%	5.3%
Moderate	With Cash Usage	6.0%	10.1%

Differentiated performance for cash users



Authorisation

Current Policy

мов	MOB Segment	Card Type	Score Cut-Off
		PB / VI Plat / Staff	Approve all score
< 6	2-5	Plat	≥ 386 (RG 9B)
- 0	2-5	Gold / JustOne Titanium	≥ 386 (RG 9B)
		Classic	≥ 426 (RG 8B)
		PB / VI Plat / Staff	Approve all score
		Plat	≥ 365 (RG 10A)
	6 – 12	Gold / JustOne Titanium	≥ 386 (RG 9B)
		Classic	≥ 386 (RG 9B)
		PB / VI Plat / Staff	Approve all score
≥ 6	13 – 24	Plat	≥ 344 (RG 10B)
- 0	13 - 24	Gold / JustOne Titanium	≥ 344 (RG 10B)
		Classic	≥ 365 (RG 10A)
		PB / VI Plat / Staff	Approve all score
	> 24	Plat	≥ 344 (RG 10B)
	> 24	Gold / JustOne Titanium	≥ 344 (RG 10B)
		Classic	≥ 344 (RG 10B)

Proposed Policy

Delinquency Status	Risk Level	Decision
	Standard	Approve
	Moderate	Approve
Current	Volatile 1	Approve
	Volatile 2	Approve
	Standard	Approve
v doue	Moderate	Approve
X days	Volatile 1	Approve
	Volatile 2	Decline

X dpd loss rate

	3 Yr Loss	Rev
Standard	3.0%	12.4%
Moderate	5.8%	12.3%
Volatile 1	9.2%	14.3%
Volatile 2	19.6%	15.4%

S / M / V segmentation: MOB<6: Based on Application Score. MOB>=6: Based on Behavior Score + Bureau Score



31



CLD Strategy – Current Segment (MOB 6+)

Cust

3 Yr Loss

Volatile 2 (GCO>10%)

Targeting
negative LAR
and stress
LAR
customers

Total	33,649	13.4%	14.6%	1.2%	-6.9%	
1: Upto 10%	9,225	2.6%	14.9%	12.3%	10.8%	Exclude
7: 90%+	8,291	20.0%	14.7%	-5.4%	-17.4%	Exclude
Exicuding High Utili	16,133	8.6%	14.5%	5.9%	0.8%	Segment Further
Mortgage Segmentation	# Cust	3 Yr Loss	Rev	LAR	Stress LAR	
1: 1m+ Mort	404	3.9%	13.9%	10.0%	7.6%	Exclude
2: 1m - 300k	1,961	5.4%	14.1%	8.6%	5.4%	Exclude
3: 300k - 60k	5,776	8.3%	14.4%	6.1%	1.1%	Segment Further
4: Others	7,992	11.3%	14.9%	3.6%	-3.2%	Segment Further
Total	16,133	8.6%	14.5%	5.9%	0.8%	
No Mort / Mort < 300k	13,768	9.8%	14.7%	4.8%	-1.1%	
Off Us 30+ on 2 or more	482	19.5%	16.7%	-2.8%	-14.4%	Target CLD
Off Us 30+ on 1 or less	13,286	9.6%	14.6%	5.0%	-0.7%	Segment Further
Off Us Enq						1
3+	312	13.2%	13.7%	0.5%	-7.4%	Target CLD
Enq <=2	12,974	9.4%	14.6%	5.2%	-0.5%	Segment Further
Last 6M Cash Usage						
No	12,241	8.7%	14.5%	5.8%	0.5%	Exclude
Yes	733	17.4%	16.3%	-1.0%	-11.5%	Target CLD
Total CLD Eligible	1,527	16.9%	15.8%	-1.1%	-11.2%	N .

LAR

Stress LAR (1.6)





Renewal Strategy – Current Segment (MOB 6+)

Volatile 2 (GCO>10%) # Cust 3 Yr Loss

Targeting negative LAR and stress LAR customers

TOTAL E LOCO-1070	an arrestant	2 11 5500	110.0	S.Pitt	an cas men friel	
Total	33,649	13.4%	14.6%	1.2%	-6.9%	2
1: Upto 10%	9,225	2.6%	14.9%	12.3%	10.8%	Exclude
7: 90%+	8,291	20.0%	14.7%	-5.4%	-17.4%	Exclude
Exicuding High Utili	16,133	8.6%	14.5%	5.9%	0.8%	Segment Furthe
Mortgage Segmentation	# Cust	3 Yr Loss	Rev	LAR	Stress LAR	
1: 1m+ Mort	404	3.9%	13.9%	10.0%	7.6%	Exclude
2: 1m - 300k	1,961	5.4%	14.1%	8.6%	5.4%	Exclude
3: 300k - 60k	5,776	8.3%	14.4%	6.1%	1.1%	Segment Furthe
4: Others	7,992	11.3%	14.9%	3.6%	-3.2%	Segment Furthe
Total	16,133	8.6%	14.5%	5.9%	0.8%	,
No Mort / Mort < 300k	13,768	9.8%	14.7%	4.8%	-1.1%	1
Off Us 30+ on 2 or more	482	19.5%	16.7%	-2.8%	-14.4%	Non-Renewal
Off Us 30+ on 1 or less	13,286	9.6%	14.6%	5.0%	-0.7%	Segment Furthe
Off Us Enq	9					1
3+	312	13.2%	13.7%	0.5%	-7.4%	Non-Renewal
Enq < =2	12,974	9.4%	14.6%	5.2%	-0.5%	Segment Furthe
Last 6M Cash Usage						1
No	12,241	8.7%	14.5%	5.8%	0.5%	Exclude
Yes	733	17.4%	16.3%	-1.0%	-11.5%	Non-Renewal
High Uti	# Cust	3 Yr Loss	Rev	LAR	Stress LAR	T .
7: 90%+	8,291	20.0%	14.7%	-5.4%	-17.4%	Exclude
Mortgage Segmentation	# Cust	3 Yr Loss	Rev	LAR	Stress LAR	
1: 1m+ Mort	181	13.1%	14.0%	1.0%	-6.9%	Exclude
2: 1m - 300k	887	15.0%	14.0%	-1.0%	-10.0%	Exclude
31 300t 60t	3,173	17.7%	14-5%	3-2%	13.0%	Exclude
4: Others	4,050	26.2%	15.3%	-10.9%	-26.6%	Non-Renewal
Total	8,791	20.0%	1A 7%	-5.4%	-17.4%	
Total No. 2000	5.577	23.9%	15.4%	-8.5%	22.00	1
Total Non-Renewal Base	2.3//	4.5.976	13.4070	-6.37	-22.8%	







Exclude

CC X Dpd - CLD

Targeting
negative LAR
and stress
LAR
customers



Volatile 2 (GCO>10%)

1: Upto 10%

Total

Cust

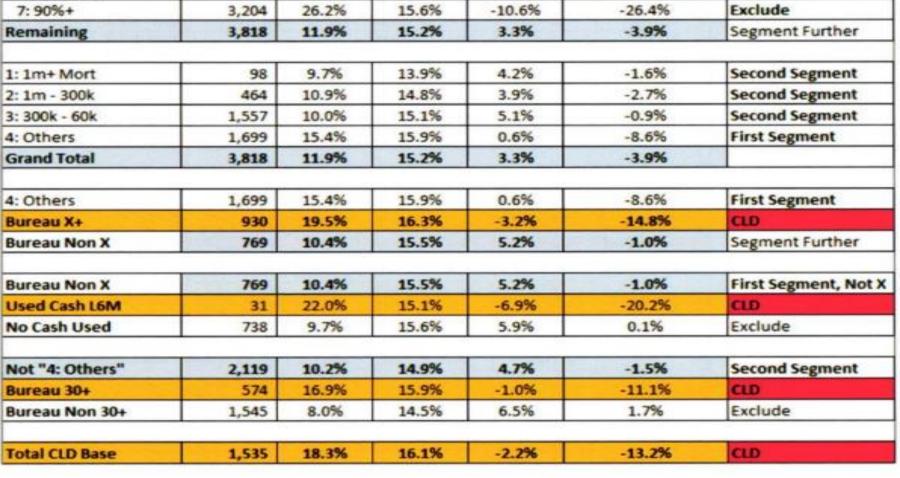
7,217

194

3 Yr Loss

19.6%

5.7%



Rev

15.4%

16.5%

LAR

-4.1%

10.8%

Stress LAR (1.6)

-15.9%

7.4%





CC X Dpd - Renewal

Targeting negative LAR and stress LAR customers



Volatile 2 (GCO>10%)	# Cust	3 Yr Loss	Rev	LAR	Stress LAR (1.6)	
Total	7,217	19.6%	15.4%	-4.1%	-15.9%	
1: Upto 10%	194	5.7%	16.5%	10.8%	7.4%	Exclude
7: 90%+	3,204	26.2%	15.6%	-10.6%	-26.4%	Non-Renewal
Remaining	3,818	11.9%	15.2%	3.3%	-3.9%	Segment Further
1: 1m+ Mort	98	9.7%	13.9%	4.2%	-1.6%	Second Segment
2: 1m - 300k	464	10.9%	14.8%	3.9%	-2.7%	Second Segment
3: 300k - 60k	1,557	10.0%	15.1%	5.1%	-0.9%	Second Segment
4: Others	1,699	15.4%	15.9%	0.6%	-8.6%	First Segment
Grand Total	3,818	11.9%	15.2%	3.3%	-3.9%	
4: Others	1,699	15.4%	15.9%	0.6%	-8.6%	First Segment
Bureau X+	930	19.5%	16.3%	-3.2%	-14.8%	Non-Renewal
Bureau Non X	769	10.4%	15.5%	5.2%	-1.0%	Segment Further
Bureau Non X	769	10.4%	15.5%	5.2%	-1.0%	First Segment, Not X
Used Cash L6M	31	22.0%	15.1%	-6.9%	-20.2%	Non-Renewal
No Cash Used	738	9.7%	15.6%	5.9%	0.1%	Exclude
Not "4: Others"	2,119	10.2%	14.9%	4.7%	-1.5%	Second Segment
Bureau 30+	574	16.9%	15.9%	-1.0%	-11.1%	Non-Renewal
Bureau Non 30+	1,545	8.0%	14.5%	6.5%	1.7%	Exclude
Total Non-Renewal Base	4,739	24.4%	15.7%	-8.6%	-23.3%	Non-Renewal



Portfolio analytics drives deepening relationship

Behaviour Score	
Bureau Behaviour	
Transactions	

Off us Behaviour

On us behaviour

	Transactor	Revolver
Transactor	Transaction based analytics	Off us debt analysis - drive balance transfer
Revolver	Predictive analytics for cross sell	Protect good balances through proactive retention
Inactive	Transaction and behaviour analysis Value proposition	Customer profile and card proposition 6ctivate usage to engage

Deeper and enhanced analytics drives robust risk management while enabling positive balance growth



Collections Strategy Malaysia – Credit Cards X - dpd

Segmented collections strategy analytics drives robust risk management while enabling positive balance growth High Risk, high balance is prioritized for collection actions

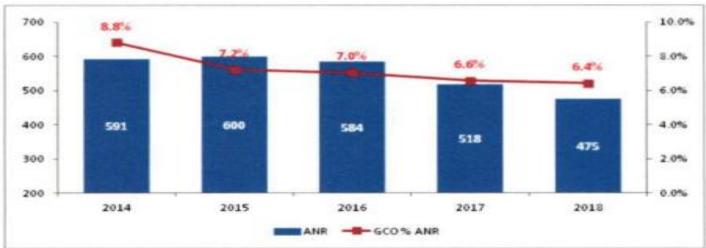
Risk Level (Based on Beh Score)	Statement Balance (RM)	Strategy 1	Strategy 2
Very High	>8500	Calling from Day 1	NONE
Very High	>3500-8500	Calling from Day 15	SMS on Day 5 and 10
Very High	<=3500	Calling from Day 20	SMS on Day 5 and 10
High	>8500	Calling from Day 1	NONE
High	>3500-8500	Calling from Day 15	SMS on Day 5 and 10
High	<=3500	Calling from Day 20	SMS on Day 5 and 10
LT 6 MOB-New to Bank	>3500	Calling from Day 1	NONE
LT 6 MOB-New to Bank	<=3500	Calling from Day 20	SMS on Day 5 and 10
LT 6 MOB-New to Product	>8500	Calling from Day 25	SMS on Day 5 and 10
LT 6 MOB-New to Product	<=8500	Calling from Day 27	SMS on Day 5 and 10
Medium	ALL	Calling from Day 25	SMS on Day 5 and 10
Low	ALL	Calling from Day 25	SMS on Day 5 and 10
Very Low	>8500	Calling from Day 25	SMS on Day 5 and 10
Very Low	<=8500	Calling from Day 27	SMS on Day 5 and 10





Expected Portfolio GCO % ANR Malaysia Credit Cards

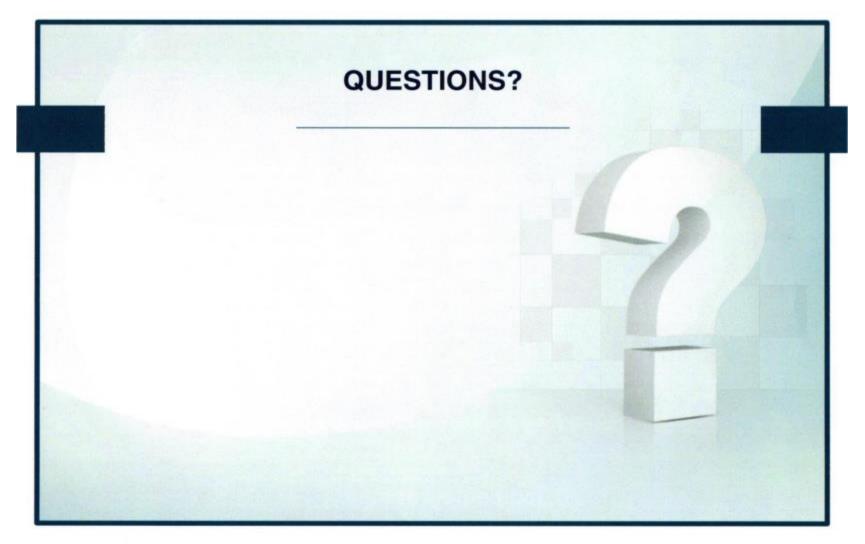




- Portfolio Impact can only be achieved under circumstances where:
 - · Significant reduction in New acquisition (40% impact in volatile segment)
 - · The distribution remains same as per existing analysis
 - Sustained focus on better quality sourcing
 - No Worsening assumed in Macro Economic Factors
 - RDF benefits GCO/ANR by 2017
- Monthly Monitoring to be done to ensure same the trend is within expected



Questions





Notes

