Addressing crisis situations:

Recommended Risk Management practices for MFIs to address reputational, liquidity and other important risks

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- A financial institution can minimize reputational risk by creating and then sustaining the trust of
 - existing and new clients
 - existing and new refinancing partners
- How to achieve this? By ensuring all cash outflow commitments can be met at any time
- Need for an efficient Asset Liability Management (ALM) process between
 - Branches and Head Office (short term)
 - Consolidated level and the market (short and medium term)

- In particular liquidity risk has to be managed well
 - Ensuring all cash <u>outflow commitments</u> can be met at any time means



punctual payment of all obligations on loans received by the MFI

Creating client's TRUST!

on time disbursement of all confirmed loans - renewed or new ones

instantaneous re-payment of voluntary client's deposits (SACCOS & MDIs only)

- ii. Minimizing costs of forgone earnings on idle cash for future periods implies
 - forecasting cash inflows versus outflows across branches so that
 - Liquidity Ratio = (cash at start of period plus inflows) /outflows ~ 100%

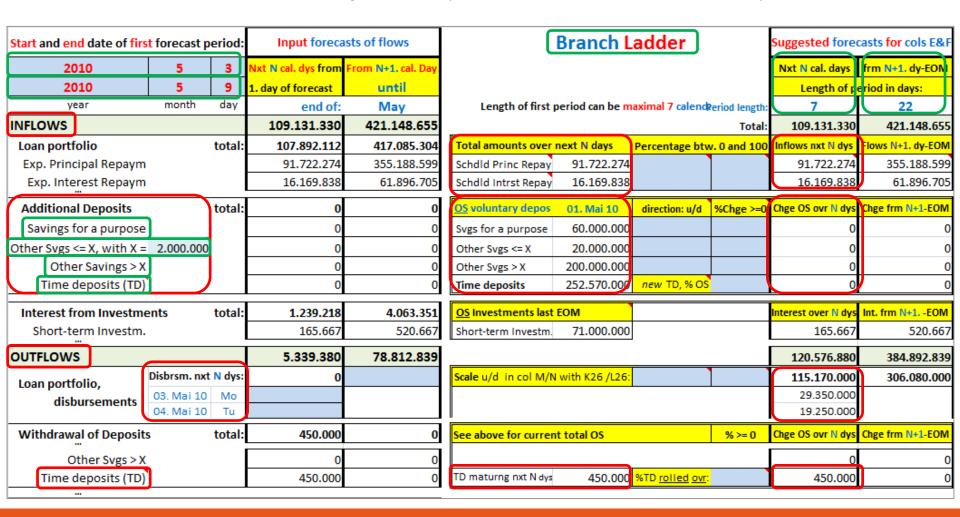
- Then Clients / members will benefit twofold:
 - Trust in the institution increases as all members confirm that their deposits are accessible at any time
 - The institution itself makes good profits
- However, modelling expected cash in- and outflows is a comprehensive task Lot's of work?
- Not, if: Underlying calculations for branches, HO & consolidated are *automated* then ALM process becomes easy to adhere to and time saving, i.e. **efficient**
- Set up entire Liquidity Mgmt process in 3 Excel workbooks:
 i) Branch and ii) HO & Consolidated level iii) Interface^(*)

- Idea: Financial and risk managers learn concepts and applications how to measure, manage and stress test liquidity – a prerequisite for avoiding reputational risk
- As a result a reliable and secure ALM process for the institution is
 - realised in practice and all people involved
 - learn about the underlying concepts "on the job"
 - will adhere to it once underway since the process is
 - straight forward
 - easy to manage being lead by the Excel templates

Let's have a brief look into some templates to see parts of the *process* and risk management *concepts* to be learned

White cells in Liquidity Management Tool are *automatically* derived from reports of the accounting system. They display

- i. current contractually expected cash flows and outstanding amounts
- ii. as a first guidance: automatically derived rough forecasts of future cash flows for the first two periods (one week, until end of month)



The financial branch manger needs to fill in only the blue cells
With these parameters he/she fine tunes
the rough automatic forecasts of cash flows resulting in
the measurement of the entire branch's short term liquidity

Start and end date of first forecast period:			Input forecasts of flows		Branch Ladder				Suggested forecasts for cols E&F	
2010	5	3	Nxt N cal. dys from	From N+1. cal. Day	_		Nxt N cal. days	frm N+1. dy-EOM		
2010	5	9	1. day of forecast	until	Length of period in o					
year month day			end of:	May	Length of first period can be maximal 7 calenderiod length:				7	22
INFLOWS			106.796.203	422.452.754	Total				106.796.203	422.452.754
Loan portfolio	<u> </u>	total:	104.425.244	414.814.338	Total amounts over	next N days	Percentage btw	. 0 and 100	Inflows nxt N dys	Flows N+1. dy-EOM
Exp. Principal Repaym			87.136.160	348.084.827	Schdld Princ Repay	91.722.274	95%	98%	87.136.160	348.084.827
Exp. Interest Repaym			15.361.346	60.658.771	Schdld Intrst Repay	16.169.838	3370		15.361.346	60.658.771
Additional Deposits		total:	1.131.425	3.571.868	OS voluntary depos	01. Mai 10	direction: u/d	%Chge >=0	Chge OS ovr N dys	Chge frm N+1-EOM
Savings for a purpose			300.000	947.571	Svgs for a purpose	60.000.000	up	0,50%	300.000	947.571
Other Svgs <= X, with X =	2.000.000		200.000	634.857	Other Svgs <= X	20.000.000	up	1,00%	200.000	634.857
Other Savings > X			0	0	Other Svgs > X	200.000.000	down	0,25%	0	0
Time deposits (TD)			631.425	1.989.440	Time deposits	252.570.000	new TD, % OS	0,25%	631.425	1.989.440
Interest from Investme	Interest from Investments total:			4.066.548	OS Investments last EOM				Interest over N dys	Int. frm N+1EOM
Short-term Investm.			165.667	520.667	Short-term Investm. 71.000.000			165.667	520.667	
OUTFLOWS			132.394.398	399.033.036					126.721.745	397.712.114
Loan portfolio,	Disbrsm. nxt	N dys:	126.687.000	318.323.200	Scale u/d in col M/N	with K26 /L26:	122%	105%	121.082.060	317.302.933
	03. Mai 10	Мо	32.285.000						30.856.633	
04. Mai 10		Tu	21.175.000						20.238.167	
Withdrawal of Deposits total:		680.000	1.567.500	See above for current total OS % >= 0			% >= 0	Chge OS ovr N dys	Chge frm N+1-EOM	
Other Svgs > X			500.000	1.567.500					500.000	1.567.500
Time deposits (TD)			180.000	0	TD maturng nxt N dys	450.000	%TD <u>rolled ovr</u> :	60%	180.000	0

Managing short term Liquidity btw. HO and Branches

If forecasted cash of all branches + HO is *a deficit*

Treasurer needs to liquidate (some of) MFI's short term investments

or

some of the planned loan disbursements need to be restricted

First measure liquidity - then promise loans

Strt 2010	5	3		Nxt N cal. dys from	From N+1. cal. Day			
End 2010	5	9		1. day of forecast	until			
				end of:	May			
D NET disposable Cash HO				89.582.490	7.804.973			
Cash transfer requested by Branches Underlying OS as of								
F1 Cash OUT (-) to Br. = HO Int-Br. Debtors	626.682.624	30. Apr 1	0	-23.000.000	0			
F2 Cash IN (+) from Br. = HO Int-Br. Creditors	760.550.772	30. Apr 1	0	0	46.000.000			
Cummulati	ive flows from Liq.	. Mgmt as r	equest:	-23.000.000	23.000.000			
F NET Cash HO according to request	(D+F1+F2)			66.582.490	53.804.973			
Cash transfer realized for Branches Underlying OS as of								
G1 Cash OUT (-) to Br. = HO Int-Br. Debtors	626.682.624			-23.000.000	46,000,000			
G2 Cash IN (+) from Br. = HO Int-Br. Creditors	760.550.772 ve flows from Liq.			-23,000,000	46.000.000 23.000.000			
	-	_	eanzed:		23.000.000			
G NET Cash HO after LiqM for Branch	hes (D+G1+G2+G	G3)		66.582.490	53.804.973			
Liquidity Management HO with Market: Underlying OS as of								
H1 Cash OUT (-) / IN (+) via acct "Short-term Investm."	200.000.000	30. Apr 1	0	-66.000.000	-53.000.000			
H2 Cash IN (+) / OUT (-) via acct "Short-term Debt"	0	30. Apr 1	0					
Cummulativ	-66.000.000	-119.000.000						
H NET Cash HO after final LiqM (G+H	1+H2)			582.490	804.973			

Managing medium term Liquidity on consolidated level

Very
 important to
 forecast
 liquidity also
 for the medium
 term future:
 in case of a

- predicted cash shortage, can i) project
- long term (bank) loans^(*) and
- ii) start now negotiations with lenders
- ✓ In this way emergency borrowing via short term debt can be avoided!

		94.4.							
2010	5	3		Nxt N cal. Days	Frm N+1. cal. day	Flows btw 1st	of month until		
	Outstandi	ng as of		until end of:	May	30. Jun 10	31. Jul 10		
Changes in Assets +	Liab			-78.334.257	62.930.680	-131.623.696	-304.336.564		
OS Loan portfolio, g	ross 4.951.755.1	70 01. Mai 10		-79.101.679	59.523.254	-139.096.838	-206.177.100		
Fixed Assets Co	ash			0	0	0	-730.263.719		
Savings & Deposits	1.065.140.0	00	tot.:	902.850	4.008.737	160.507.738	184.583.899		
(Bank) Loans	2.676.681.2	25 30. Apr 10	1	0	0	-137.500.000	470.000.000		
Income + Expenses				23.220.356	-8.868.760	45.073.676	46.254.602		
Financial Income				39.193.827	148.695.790	226.757.862	234.433.887		
	" 35.153.02/ 140.053.750 220.757.002 254.455.007								
Financial Expenses			tot.:	6.059.045	26.295.103	38.981.382	31.180.446		
Savings + all Time [Depos 1.065.140.0	00 01. Mai 10)	2.199.642	6.953.216	10.876.310	12.507.757		
Operating Cash Exp	enses Expens last m	nth as of	tot.:	9.914.427	131.269.447	142.702.803	156.998.839		
	•	19 30. Apr 10		0	100.109.819	100.212.402	109.581.330		
Irregular E	expenses 42.919.5	97 30. Apr 10)	9.914.427	31.159.627	42.490.401	47.417.508		
NET CASH FLOW				-55.113.901	54.061.921	-86.550.020	-258.081.962		
Opening Cash	Balance	Period star	t	124.000.000	1.386.099	2.448.019	897.999		
NET disposable Cas	h consolidated			67.386.099	55.448.019	-84.102.001	-257.183.963		
			Outst. in Short-t	term Investments	184.000.000	0			
			Outst. in	Short-term Debt	0	75.000.000			
Managing Liquid	ity externally:								
Csh OUT (-) /IN (+) via "Sh-terr	m Investm." 150.000.0	00 30. Apr 10		-66.000.000	-53.000.000	85.000.000	184.000.000		
Csh IN (+) /OUT (-) via "Sh-terr	m Debt"	0 30. Apr 10		0	0		75.000.000		
NET Cash Consolida		1.386.099	2.448.019	897.999	1.816.037				
CB Reserve Ratio, C	l	35,4%	35,4%	34.0%	18,1%				
Current or Liquidity Rati		101,8%	101,2%	100,3%	100,4%				

With such a tool I wish to address issues I usually find during time spent on-site:

- Processes to manage the MFI in an efficient way are
 - in general not established and /or
 - not lived and controlled, in particular regarding Risk Mgmt (RM)
- Often MFIs are taught about risk management issues but then left alone with the
 - Implementation of appropriate processes in practice
 - Derivation of the underlying calculations
- In the formal financial sector these issues are addressed because they are enforced through regulations
- Let's tailor basic RM concepts also to (unregulated) MFIs!

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Thank you for listening