Credit Risk Management

John Graystane

Presented by

Kwaku Duah Berchie

John Graystone... The Knowledge Hub





Credit Risk Management

Introductions and Course Overview Session 1









Session Objectives

 Get to know all participants, their organisations and their roles within their S&Ls



- "Ground rules" and training outline
- Introduction to the major themes of the training
- Expectations after the workshop

Handout 1.1: Training Outline







Participant's Introduction





Introduce yourself

- ► Your name, organisation and designation
- ► How much credit risk management have you done?
- One thing nobody in this room knows about you
- ▶ What can you bring to the session?







Suggested Ground Rules ...

- Brainstorm freely; disagree openly, but courteously... it stimulates discussion & helps others 'think aloud'!
- Speak up, or you'll be called upon to speak!
- Give a fair chance to all to participate
- Avoid side conversations, let all participants benefit!
- Keep discussions and comments relevant
- Don't leave the room unless you must
- Be prompt arrival, breaks, lunch....
- Don't interrupt
- Speak up with interesting & relevant ideas that will add value
- Switch off/vibrate cell phones!!!
- Others?









Useful Reading

- Nimal A. Fernando. *Managing Microfinance Risks Some Observations and Suggestions* (ADB, 2008).
- Soumya Harsh Pandey. MicroSave Briefing Note # 121. Risk Management for S&Ls I (June 2012).
- ► CGAP. Microfinance Consensus Guidelines, 2003.
- ► SEEP, Pocket Guide to the Microfinance Financial Reporting Standards Measuring Financial Performance of Microfinance Institutions, 2010.
- ▶ *Risk Management*, Frankfurt School of Finance & Management
- ► The 2021 CSFI survey of the risks facing banks Covid special. Centre for the Study of Financial Innovation (CSFI)
- ► Churchill, C. "Client Focused Lending: The Art of Individual Lending
- Pikholz, Lynn, and J. Carpenter. "Lending Training Course.
- ► Ledgerwood, Joanna. "Training and Technical Assistance Manual"
- ▶ Brown, Introduction to Risk Management. Boulder Microfinance Training
- ▶ Reuhmer, Building Risk Management. Boulder Microfinance Training
- MicroSave. Toolkit for Individual Lending for Credit Managers.









How John Graystone Training Works

Tohn Graystone is firmly committed to practice-based training



- For all trainings John Graystone follows the same basic approach:
- ▶ 2-3 days in the classroom introducing topics and beginning to work on outline plans/solutions
- > 3-5 days on-site at participants' institutions working on the issues
- ► (Sometimes) 1-2 days later on to process and wrap-up





Session Objectives

- Understand more of the implications of a proactive risk management program for your S&L
- Understand more about the typical risks faced by S&Ls
- Understand what influences credit risk in an S&L
- Understand how credit function influences institutional risk profile
- Learn more ways to manage and measure non-credit risks inherent in the lending function
- Understand more about specific credit risks
- Understand how credit risks can be mitigated through the Step by Step lending process
- ▶ Learn more about need for Managements to be involved in monitoring
- Learn methods of effective monitoring









Call Out

What is a Vision Statement?

What is a Mission Statement?

What are values?

Why are they important?









Mission Statement

- Guide to conducting a well run business
- Guide to mitigate the risk of mission drift
- Explains what an organization aims to achieve at the present time, as well as in the future
- States the organization's core values and purpose for being in operation
- A written statement with its core values, goals, objectives and vision for the future
- Clearly written and easily understood
- Be VISIBLE.







Mission Statement cont'd.....





- 1. What is the purpose of our organization?
- 2. What is the business of our organization?
- 3. What are the core values of our organization?













6 Key Ingredients to Successful Lending

- Capital
- Staff
- Strong lending methodology
- Customer focus
- Supportive operations, management and MIS teams with adequate reporting mechanisms
- Proactive risk management strategies







Call Out

What is Risk Management?
What is Proactive Risk Management?
What are its Benefits?









Risk Management

- Risk Management:
- Process of implementing policies and an overall strategy to diminish risks faced by an organization in accomplishing its mission.
- Educated decisions about how;
- much risk to tolerate
- to mitigate those that cannot be tolerated
- to manage the real risks that are part of the business







Risk Management

- ▶ One of the core functions in financial institutions
- Reduces the likelihood of losses
- Includes the prevention of potential problems
- Early detection of problems
- Corrective measures







Top 10 Reasons for Car Accidents - This Class

- 1. Speeding
- 2. Reckless/careless driving
- 3. Distractions
- 4. DUI
- 5. Bad roads
- 6. Unqualified drivers (gross indiscipline & lack of road education)
- 7. Mechanical faults/lack of maintenance
- 8. Fatigue
- 9. Running red light
- 10. Poor weather









Top 10 Reasons for Accidents

- Distracted Driving
- Speeding
- Drunk Driving
- Reckless Driving
- Rain
- Running Red Lights
- Running Stop Signs
- Motor Bike Driving
- Night Driving
- Road Defects











Risk Management is like Driving a Car

Risk Culture

Experience, discipline, training help steering through problems

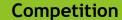


Streets of good quality with traffic management systems



Risk Structure & Policies

A well built car with the right safety components allows to drive safer and faster



Driving becomes more challenging with traffic

Risk Monitoring

A reliable and clear dashboard helps assessing the performance



As a bus driver, you have more responsibility than when driving alone

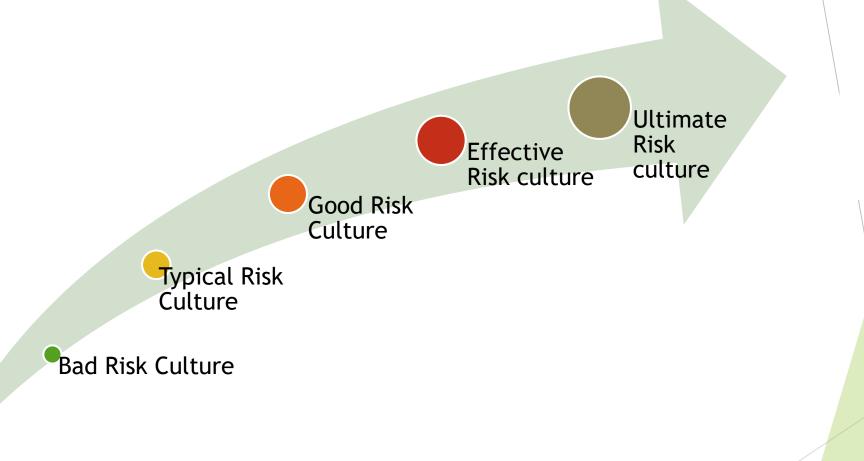








Five Levels of Risk Culture









Top 10 Reasons for Loan Defaults - This Class

- Poor/improper appraisal
- 2. Character of customers
- 3. Diversion of funds
- 4. Poor monitoring
- 5. High interest/inflation rates
- 6. Poor business practices
- 7. Accident/sickness/death of customer
- 8. Delay in loan disbursement
- 9. Lack of experienced/trained staff
- 10. Economic decline









Reasons for Credit Defaults

- Compromise of credit principles
- Incomplete credit information,
- Ignorance of warning signals
- Verbal information
- Timid dealing with clients with strong personalities, friends, celebrities
- Influenced by inadequate salary incentives
- Lack of adequate supervision
- Optimistic interpretation of known weaknesses
- No adequate supervision of old/familiar borrowers









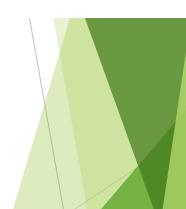
Top 10 Risks Facing Financial Institutions - This Class

- 1. Credit Risk
- 2. Liquidity Risk/challenge
- 3. Governance Risk
- 4. Fraud by staff/management
- 5. Breaching regulations
- 6. HR Risk/weak Management oversight
- 7. Cyber crime/security risk
- Granting loans bigger than the S&L could afford/single obligor breaches
- 9. Weak internal controls
- 10. Strategic risk









Banana Skins 2021 (2015 ranking in brackets)

- 1 Crime (2)
- 2 Macro-economic environment (1)
- 3 Technology risk (4)
- 4 Security risk (-)
- 5 Credit risk (7)
- 6 Quality of risk management (6)
- 7 Business model (10)
- 8 Business practices (8)
- 9 Reputation (12)
- 10 Sustainability (24)
- 11 Corporate governance (19)



- 16 Regulation (3)
- 17 Management incentives (20)
- 19 People risk (22)
- 21 Compliance risk (-)
- 22 Capital availability (13)
- 23 Currency (17)

















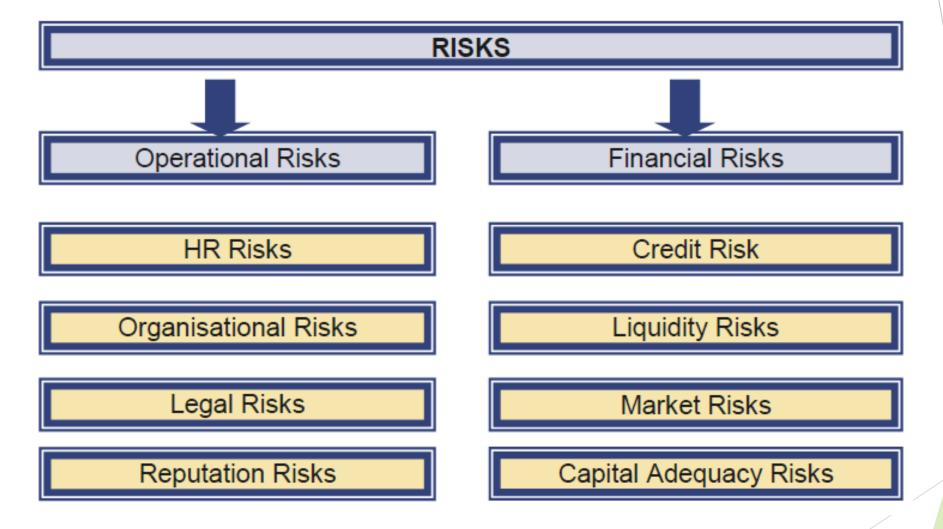








Risks Faced by Financial Institutions











How others See Risks









Components of Risk

Corporate Governance Risk Commercial Mission Risk Social Mission Risk Execution Risk Dependency Risk Compliance Risk Reputation Risk STRATEGIC Growth Risk

Transaction Risk Information Technology Risk Credit Administration Risk Human Resources Risk Disaster Recovery Security Risk Fraud Risk **OPERATIONAL** RISKS



Credit Risk Portfolio Risk Liquidity Risk Market Risks: Interest Rate Risk Foreign Exchange Risk Investment Portfolio Risk

FINANCIAL RISKS

RISKS

EXTERNAL Regulatory Risk Competition Risk RISKS Political Risk Macroeconomic Risk Product Risk Technological Risk Systemic Risk Physical Environment Risk





Benefits of Proactive Risk Management

- Implementation strategies to diminish risks
- Allows you to better anticipate risks, rather than react to them
- ➤ S&Ls should not discourage risk taking, but rather encourage prudent risk taking.
- Early warning system for potential problems
- More efficient use of capital
- More cost-effective treasury management
- Better new product development and roll out









Call Out

► Operating an S&L a is Risky Business:

What Makes Your S&L Vulnerable to Risk?







What Makes S&Ls Vulnerable?

- Many transactions
- Big ticket loans; skillset and capacity often lacking
- Rapid growth
- Inadequate training
- Pressure to cut costs
- Lack of or insufficient application MIS
- Weak internal controls
- High employee turnover
- Multiple loan products



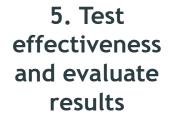


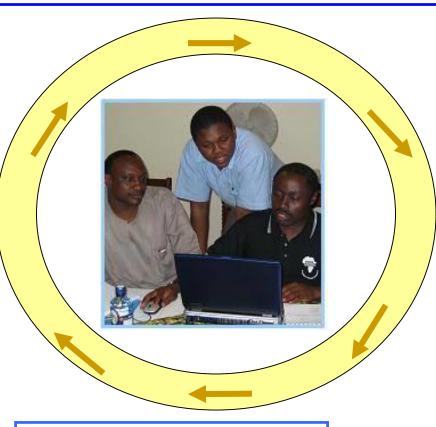




Risk Management Feedback Loop

1. (Re) Identify, (Re) Assess and (Re) Prioritise Risks





2. Develop strategies to manage risk (ATAC)

3. Develop tactics to mitigate risks

Handout 1.2: Risk Management Feedback Loop

4. Assign responsibility and implement









Ten Guidelines for Risk Management

- 1. Lead the risk management process from the top
- 2. Incorporate risk management into process and systems design
- 3. Keep it simple and easy to understand
- 4. Involve all levels of staff
- 5. Align risk management goals with the goals of individuals
- 6. Address the most important risks first
- 7. Assign responsibilities and set monitoring schedule
- 8. Design informative management reporting to board
- 9. Develop effective mechanisms to evaluate internal controls
- 10. Manage risk continuously using a risk management feedback loop









Who is Responsible for Risk Management?

- Board of Directors
- Senior Management
- Accounting Department
- Internal Auditor
- Credit Management & Other Staff
- ▶ What are the key risk management responsibilities for each of these roles?

<u>Handout 1.3: Responsibilities of the Board of Directors</u> <u>Handout 1.4: Institutional Roles in Risk Management</u>









Techniques to Mitigate Risks

Top level controls

Segregation of duties

Activity Controls

Policies and Procedures

Physical controls

Diversification

•Compliance with exposure limits

Conversion

Approvals and authorizations

Enforcement

Verifications and reconciliations

Reporting and Testing







Call Out



Why and How do we Measure Risk?





Call Out

What is this?



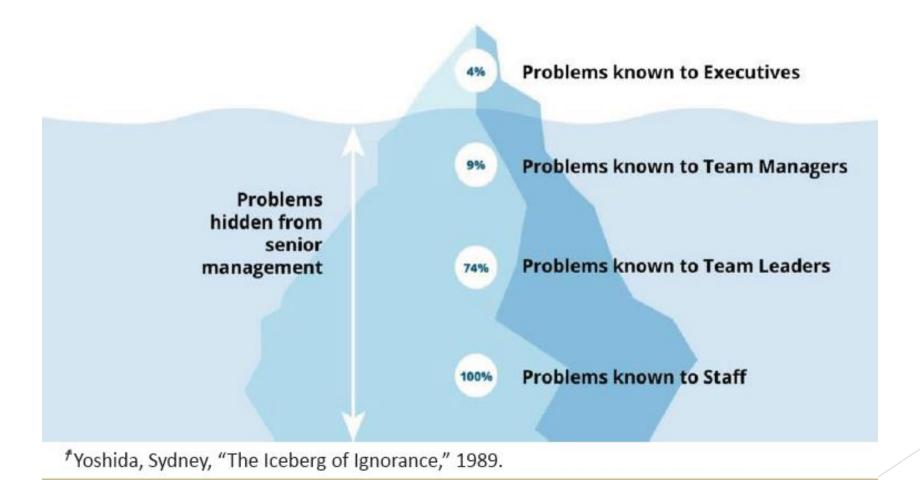








The Iceberg of Ignorance



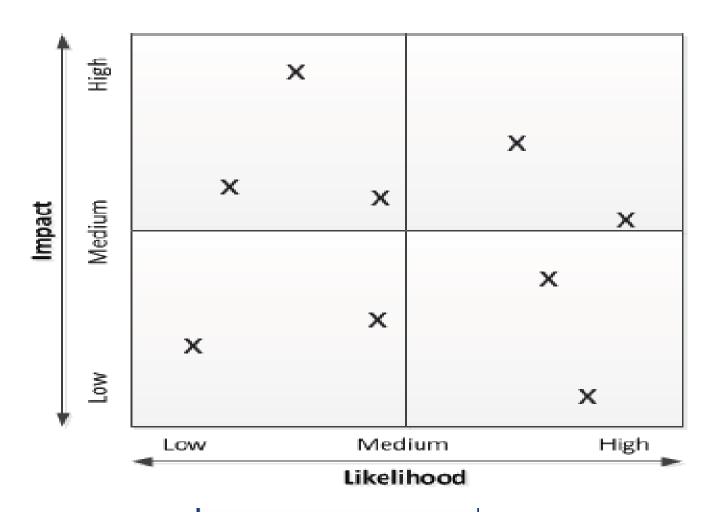








How Risk is Measured







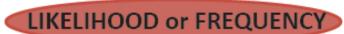




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High Avoid	Avoid/ Transfer	Transfer
Medium Avoid/ Control	Control/ Transfer	Transfer/ Accept
LOW Control	Medium Control/ Accept	High Accept













Reasons for Measuring Risk

To assess effectiveness of what we are doing in controlling risk to acceptable levels



- Is the cost of controlling a risk less than the cost of accepting the risk?
- To price products







How Do We Measure Risk?

- We develop indicators and report on them
- Through financial ratios and benchmarks (e.g. CAMEL(S))



What tools do you use in your S&L?

Handout 1.5: Risk Indicators

Handout 1.6: CAMEL Risk Ratio Definitions Handout 1.7: Risk Ratios and Benchmarks







Some Ratios Used to Measure Risk

Credit Risk

 Portfolio at Risk ratio, Reserve Ratio, Write---Off Ratio, Impairment Expense Ratio (Provision Ratio), Risk Coverage Ratio



Liquidity Risk

 Equity-to-Asset ratio, Operating liquidity ratio, Adjusted quick ratio

Market Risk

FX Exposure

Operating Risk

 Operating cost ratio, Cost per client, Active Clients per Credit Officer, Personnel Productivity Ratio,





Exercise 2.1: Performance Indicators



Discuss the typical performance indicators (ratios) for credit risk?





Sample Benchmarks for Credit Risk

- ► PAR 30 < 5%, PAR 90<2.5%
- ► Effective Repayment Rate >= 97%
- Number of Late Payers to Total Payers for Month start tracking and then determine acceptable tolerance level.
- Concentration -as no more than 1% of total portfolio to any individual and no more than 5% of total portfolio to group or related parties.
- ▶ Branch Concentration review concentration if any one branch's portfolio is greater than 30% of total loan portfolio.
- ▶ Loan Loss Reserves must be a minimum of 1% of Loans Outstanding.







Call Out



What Influences Risk Levels in an S&L?





Influences on S&L Risk Levels

- Rapid growth
- Ownership/ governance
- Management style and changes
- Reporting
- Government intervention and policies
- New product development
- Responding to competition









Exercise 1.1: Managing Growth

Please read the scenario and answer these questions:

- What should MY S&L's management do?
- ► How should they react to this situation?



Time: 20 minutes

Please be prepared to share your results verbally with the group.

Exercise 1.1: Rapid Growth and Portfolio Quality





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Call Out



What are the Various Types of Risks that an S&L Faces?





Types of Risk

- Operational
- Liquidity
- Credit
- Compliance risk
- Regulatory/ Legal risks
- Strategic risks
- Reputation risk

Handout 1.8: Risks Classification









Ex. 1.2: Credit Operations and Institutional Risks

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Reviewing Handout 1.8 (Risks Classification), give 2 examples of how credit operations affect institutional risk profile with regard to each risk category (except credit risk).

Time: 20 minutes





Policies and Procedures

Internal controls, policies and procedures should be:

- ▶ Written
- ► Understandable and clear
- ► Relevant
- ► Readily available
- ► Implemented and enforced









Operational Risk



"The risk that financial losses occur from employee negligence, system failures, and human failures."





Employee Related Risk

MONITORING / VISIT

- The team visited the Techiman branch and whilst there took the opportunity to visit major customers. One of the backbones of the Techiman branch by name Auntie Adwoa actually stopped her account operations.
- ▶ Reason: She requested and was granted a facility of GH¢30,000.00 for six months. Unfortunately the loan officer by name Joe Boy did not give her the loan contract cum agreement form, as a result when she thought the facility was for 12 months and could use some of the funds, she was told that it was for 6 months. She was advised that since it has expired she should put in a new application. In her desperation, she went to Procredit who inspected the document covering her newly put-up storey building and without hesitation granted her a facility of GH¢150,000.00 to expedite the importation of her stock in trade.

REMEDY:

The C.O.O has mandated the risk manager, marketing and Head, Ops Northern sector to pay her a visit and woo her back. Part of Risk Report in February, 2012 by an S&L







The Soup Nazi - Seinfeld



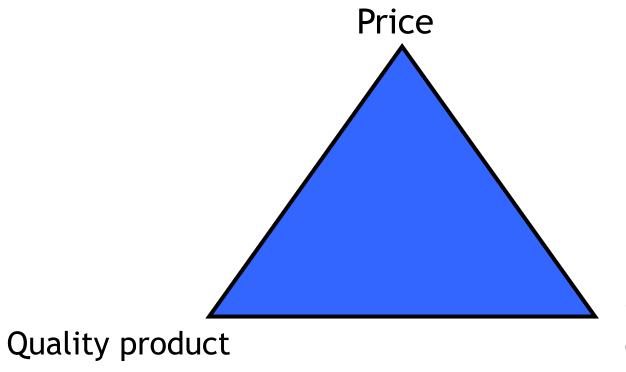








Identifying your Competitive Advantage





Convenient, serviceoriented environment

Never get stuck in the middle!





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Operational Risk Strategies

▶ Policies and procedures at the branch level to minimize the frequency and scale of the risk (e.g. dual signatures required on loans or disbursements of savings).



- ▶ Technology to reduce human error, speed data analysis and processing.
- Management information systems that provide accurate, timely and relevant data so Managements can track outputs and detect minor changes easily.
- Separate lines of information flow and reconciliation of portfolio management information and cash accounting in the field to identify discrepancies quickly.





Types of Operational Risk

- Transaction Risk
- ► Legal/Compliance Risk
- Human Resource Risk
- Fraud









Operational Risk: Human Resource

Components of a transparent HR Policy include:

Code of Conduct, agreed to by all new staff, and renewed annually for all staff.



- ▶ Training to reinforce expected levels of performance and behavior.
- Promotions driven by periodic performance appraisals demonstrate commitment to advancement of qualified staff.
- Competitive compensation programs that include incentives motivate and reward outstanding performance, through appropriately structured incentive systems.
- Disciplinary actions send a message that violations of expected behavior will not be tolerated.
- Clear job descriptions







Operational Risk: Fraud

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"The risk that assets are diverted for unintended purposes..."





What Does an Institution do in Case of Fraud?

- Act quickly and decisively
- Have a plan for responding to all incidences of fraud
- Suspend or fire the employee in question (if applicable)
- Engage in legal proceedings
- Identifying a person to be in charge of implementing policy changes if needed
- Documenting and communicating changes to all affected personnel;
- Request feedback from employees regarding the changes







Handling Fraud

Most importantly, whatever the size or scope of the misdeed, management must act quickly.

- Have plan in place to respond;
- Make effort to recoup losses;
- Explain problem to clients; and
- Address the problem with Board.

What do you do in your S&L?



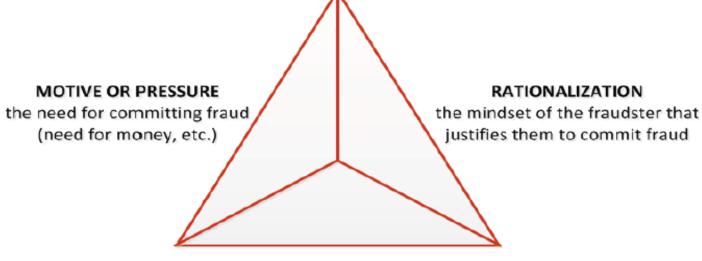






THE FRAUD TRIANGLE





OPPORTUNITY

the situation that enables fraud to occur; often when internal controls are weak or nonexistent

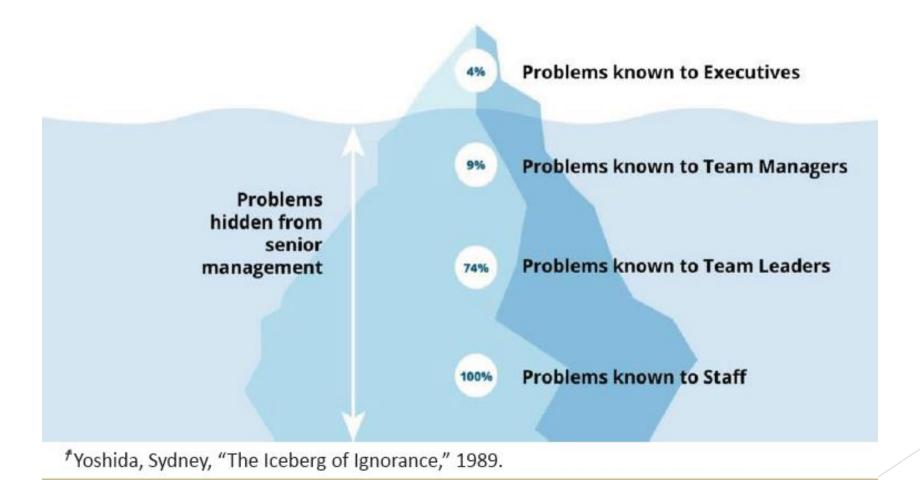
Attributed to Dr. Donald Cresseny





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The Iceberg of Ignorance











Liquidity Risk

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"The risk of not having sufficient cash to lend based on client demand or sufficient cash to pay obligations. These include loans (perhaps savings) and operational expenses."





Some Principles of Liquidity Management

Maintaining detailed estimates of projected cash inflows and outflows (notably, larger loan disbursements, investing, and asset acquisition) for the next few weeks or months so net cash requirements can be identified.

Using branch procedures to limit unexpected increases in cash needs, for example, limits on large savings withdrawals

Maintaining investment accounts that can be easily liquidated into cash, or lines of credit with local banks to meet unexpected needs.

Anticipating the potential cash requirements of new product introductions or seasonal variations in deposits or withdrawals.





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External/Market Risks

Are more often out of the S&L's control but must be recognized and mitigated: regulatory, competitive, demographic, macroeconomic;



Includes interest rate risk

► Includes foreign exchange risk







Reputational Risk

► The risk that legal disputes, unenforceable contracts, *negative* publicity and *negative* perceptions *negatively* impact the institution







Regulatory Risk



"Regulatory risk is **the ri**sk that regulations may change in a way that adversely affects the FI's operations and competitive viability"





Strategic Risk



"The current and prospective impact on earnings or capital arising from adverse business decisions, improper implementation of decisions, or lack of responsiveness to industry changes"





Credit Risk

- The risk that credit is being extended inappropriately based on defined market segments and client risk profile.
- > The risk that a borrower will not repay a loan according to the terms of the loan, either defaulting entirely or making late payments of interest or principal.
- Credit risk is defined as the possibility that a borrower or counterparty (guarantor) will fail to meet their obligations in accordance to the agreed lending terms.
- Financial institutions need to manage two types of credit risk:
 - entire credit portfolio
 - individual loans
- Credit risk management consists of three major components:
 - Product design,
 - loan cycle management, and
 - ▶ loan portfolio management







Credit Risk

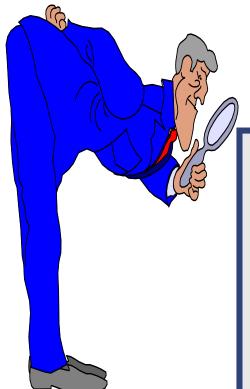
- There are two types of defaulters:
- Wilful defaulters may be able to repay a loan but are not willing to do so.
- ▶ Unwilful defaulters may not be able to repay but willing.
- Core problem in lending is information.
- Unequal (asymmetric) distribution of information between the borrower and the lender.
- Information gap produces a moral hazard problem.
- Moral hazard: borrower in a position to influence a credit relationship to his own advantage and at the expense of the lender.

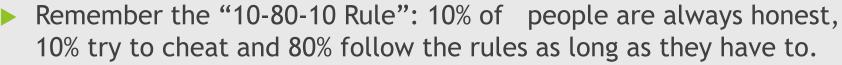






Character Assessment: "10-80-10 Rule"





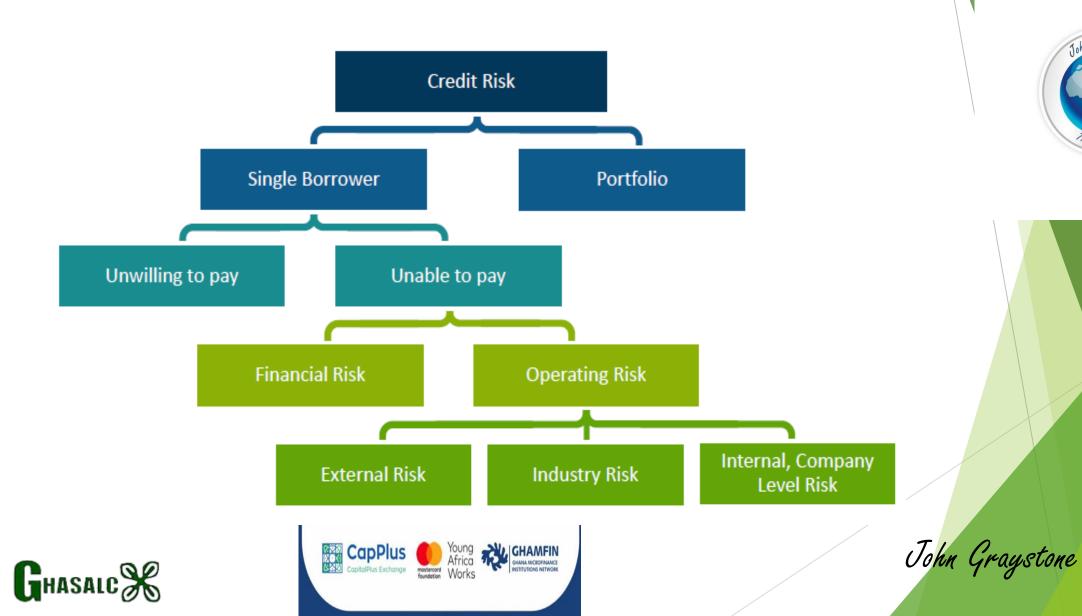
First objective: screen out the 10% cheaters (potential wilful defaulters).

Second objective: screen out possible failures (potential unwilful defaulters)





Structure and Categories of Credit Risk



Credit Market Cycles



- Transformation into a commodity and marketing drive strong growth
- High liquidity masks the difficulties caused by the debt -> low level of default

* CGAP: FOCUS NOTE No.83

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Phases



Phase 1 - Pre expansion conditions

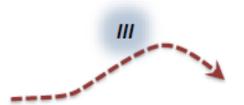
A few pioneer institutions with efficient credit methodologies reach segments that are insufficiently covered or that have little access to finance.

- Low cost models for the selection of clients, disbursement and loan management
- Leveraged access to funding organized for future growth
- Information technology
- Effective loan recovery processes



Phase 2 – Marketing and Expansion

- · Success attracts new participants
- Development of distribution networks continues
- Aggressive incentive structures promote growth
- High returns attract commercial investors
- Growth requiring a fast increase of loan portfolio and market share to obtain expected revenue



Phase 3 – Debt Accumulation

- As the market enters a fast growth pace, competition undermines credit methodologies and finance norms
- Clients may have access to different lenders and end up "bicycling" these funds
- High liquidity keeps PAR30 levels surprisingly low for a long period of time, even as the general levels of debt increase

CGAP: FOCUS NOTE No.83









Phases con'td....



Phase IV – Increasing levels of unpaid loans and market contraction

- Loan repayment levels decrease, pushed by unsustainable levels of indebtedness in families and, in extreme cases, economic deceleration
- Borrowers have less access to new loans and prioritize the repayment of existing loans
- Household liquidity contracts, leading to higher default rates



Phase V - Institutions crash and possible contagion effect

- Default rates may affect many borrowers, including banks, either through their own financing activities or by providing loans to smaller lenders
- Depending on the bank's leverage and exposure to risk, this could result in bankruptcy





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To govern well, S&L leaders need to understand that

There is a list of high-level drivers...

...which result in a predictable set of organizational ...which build **risk** over time...

...until a **trigger** sparks a crisis.



consequences...

Drivers	Consequences	Risk	Triggers
Within the organization:	 Deteriorating 	Credit risk	 Currency devaluation
 Rapid growth 	methodology	Operational risk	 Natural disasters
 Profit push 	 Increasing loan sizes 	 Financial risk 	 Recession
Hubris	Lax controls /	 Reputational risk 	 Political instability
	ineffective oversight	Market risk	 Disruptive technology
Within the market	 Strained MIS 		
Excess liquidity	 Too many new loan 		
 Increasing competition 	officers		
	 Insufficient training 		
	 Staff rotation 		





Learning Takeaway (1)

S&Ls' policies and procedures must include serious efforts to minimize risks.



S&Ls are very vulnerable to many types of risk due to the nature of the business; thus reporting and monitoring within the organization need to be continuously carried out.





Learning Takeaway (2)

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Incidents of fraud must be acted upon quickly in order to minimize damage to the organization.

Failing to use proper controls will significantly increase chances for fraud, leading to losses for the organization.





Wrap Up

► In order for an S&L to remain sustainable, the Management must establish direction, allocate resources, manage risk, and be held accountable for success or failure.



- Managements cannot do this by themselves, so support from all staff is highly important.
- ► Risk Management crosses functional boundaries. You have a role in many types of risks faced by your S&L, not just credit risk.
- Identify your key risks, develop indicators to detect risk, and measure risk







Credit Risk Management

Managing Credit Risk Through the Lending Process Session 2









Session 2 : Objectives

- Understand more about specific credit risks
- Understand how credit risks can be mitigated through the Step by Step lending process
- Learn more about need for Managements to be involved in monitoring
- ► Learn methods of effective monitoring









Perspective

- ► Effective approaches to managing credit risk in S&Ls include:
- Well-designed borrower screening, careful loan structuring, close monitoring, clear collection procedures, and active oversight by senior management.
 Delinquency is understood and addressed promptly to avoid its rapid spread and potential for significant loss.
- Good portfolio reporting that accurately reflects the status and monthly trends in delinquency, including a portfolio-at-risk aging schedule and separate reports by loan product.
- A routine process for comparing concentrations of credit risk with the adequacy of loan loss reserves and detecting patterns (e.g., by loan product, by branch, etc.).





Example of One Institution's Lending Process

- 1. Client introduction and screening (eligibility)
- 2. Appraisal (visit and financial analysis)
- 3. Loan structuring
- 4. Loan approval (supervisory scrutiny of 1-3 above)
- 5. Disbursement
- 6. Repayment and Monitoring









5 Steps of The Lending Process

1. New Customer Introduction



2. Loan Appraisal



5. Monitoring





3. Loan Approval



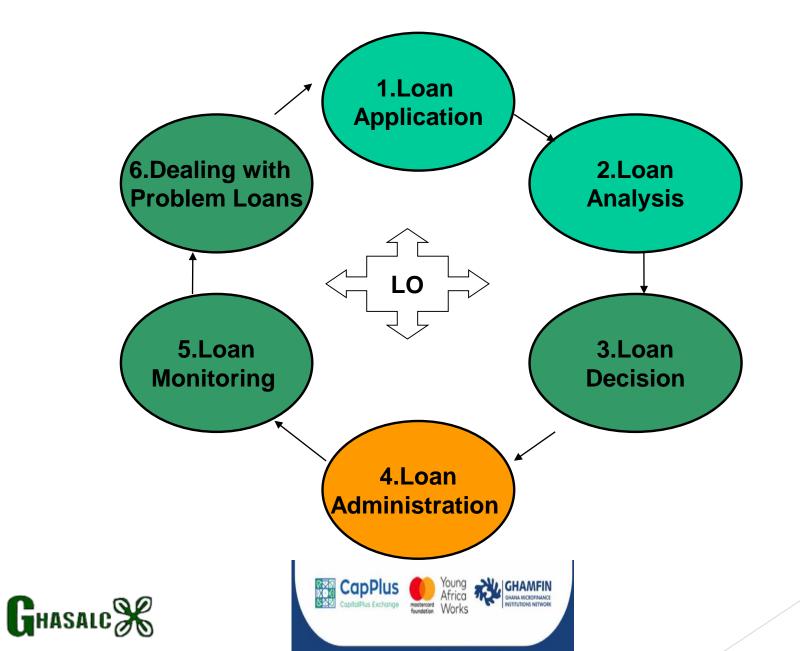








LO/Credit Department Involved Throughout







Looking at Processes

► Thinking through the five lending processes is vital to manage lending risks.



- Process maps are a great way to understand and manage process related risks.
- A process map outlines a process in a graphic form, with text under the picture.
- ► The easiest way to show this is to demonstrate a process map and then have you work on one!

Exercise 2.1: Draw a Processes Map for the 5 steps





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Ex. 2.1: Understanding Process Risk

▶ Reading through the process map in Exercise 2.1 detail the potential risks that you can see in the process.



You have 20 minutes







Now Lets Think Through the Processes...

- 1. Client introduction and screening (eligibility)
- 2. Appraisal (visit and financial analysis) and loan structuring
- 3. Loan approval (supervisory scrutiny of 1-3 above)
- 4. Disbursement
- 5. Repayment and Monitoring







Step 1 Client Introduction and Screening











What are Your Operational Risks?

John Gr

In buzz groups....

Discuss the risks involved in client introduction and screening?

Time: 10 minutes





Client Introduction and Screening Risks

- Attracting wrong clients if marketing is not appropriately targeted
- Non efficient use of resources; failure to identify applicants unlikely to succeed
- Inadequate initial character assessment
- Failure to collect pertinent information for future follow up or marketing
- Inadequate use of good existing clients to attract new clients









Client Introduction and Screening Risks

One S&L experienced old non performing clients reapplying for loans under new names and getting them... They only found out when other S&Ls came looking for the client!



Another S&L discovered that three relatives from the same household had all successfully applied for loans from different branches!





Step 2 Client Appraisal









What are Your Operational Risks?

In groups of 5...

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List the inherent risks associated with client appraisal?

Time: 10 Minutes





Risks Associated With Client Appraisal

Failure to detect fraudulent intention/ misrepresentation on the part of loan applicants



- Credit Officer fraud
- Poor collateral valuation
- Reputation (and eventually credit) risk from officers demanding inducements from clients
- Incomplete information and documentation







Client Business and Residence Visit

Ensure visits are facilitated and made per policy to mitigate compliance and fraud risks



- Develop methods to deal with Inadequate formal business records in collecting Asset-Liability (balance sheet), profitability, and cash flow positions
- Financial analysis: simplicity, automation, interpretation of ratios





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"Games" Clients Play



"Games" refers to clients testing the controls, exploiting weaknesses in the S&L's system or testing the S&Ls capacity to live up to its promises.



In groups of 5...

List from your experience the 'games' that clients play to access credit from S&Ls. What measures can you implement to curb these Risks?



Games Clients Play

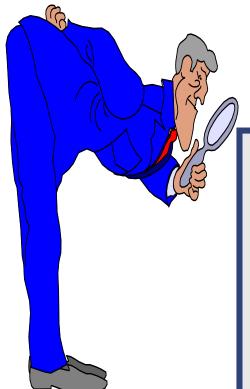


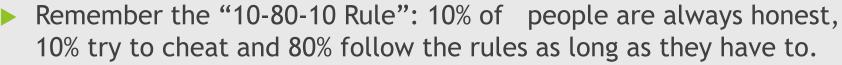






Character Assessment: "10-80-10 Rule"





First objective: screen out the 10% cheaters (potential wilful defaulters).

Second objective: screen out possible failures (potential unwilful defaulters)





5 C's of Lending **CHARACTER COLLATERAL CAPACITY CONDITIONS & CAPITAL CASHFLOW** John Graystone GHASALC X

CAMPARI

- 1. Character
- 2. Ability
- 3. Margin
- 4. Purpose
- 5. Amount
- 6. Repayment
- 7. Insurance



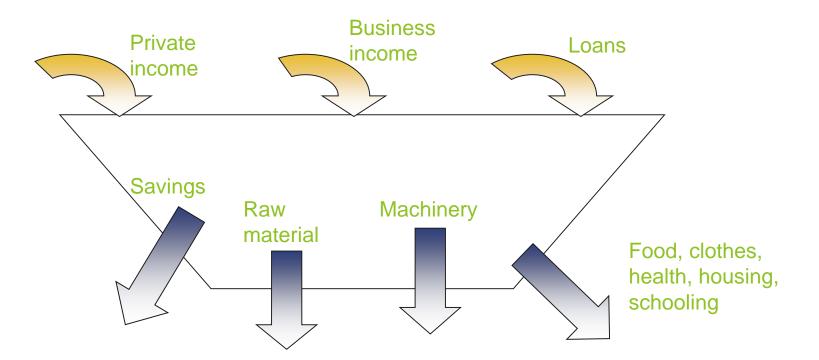






Purpose - Real Reason for Borrowing

=>Remember the Bath-Tub: Money is fungible!











What are the 3 M's of Credit?



- Market
- Management
- Money







Celebrity Comes to Town





- Discuss the pros and cons of this loan application
- ▶ If you were the MD, what would be your response?
- What are the Risk(s) involved in this application?
- ▶ What would be the possible outcome if this loan is granted?

Celebrity Comes to Town







Collateral Assessment and Acceptance









Call Out



How Effective/ Practical is Collateral Realisation For Your S&L?





Factors Influencing Collateral Policy

Policy - Influencing Factors

- Institutional Mission, value and culture
- Loan Size
- Income Level of Clients
- Type of Business
- Type of Loan
- Registration of the Business
- Legal Environment
- Land Tenure System
- Character/Status of the Borrower
- Any others









Call Out

List a Few Prudent Safeguards with Respect to Collateral









Collateral Policies to Mitigate Credit Risk (1)

- Use professionals or trained staff to value collateral, especially for land and property.
- Value according to real market values using comparison data and update comparison data regularly.
- Be consistent in the method and procedures used
- Have a prudent collateral to loan value coverage ratio
- Credit staff should reassess collateral value during monitoring visits.
- ► Have an effective guarantor arrangements where applicable
- Conduct regular compliance (audit/compliance) checks on collateral valuation
- Perfect collateral where legally required. Think of ways to reduce perfection time and costs to clients









Exercise: Loan Structuring



In groups ...



Refer to the Exercise and prepare the cash flow analysis and decide

- 1. If you will give Joe a loan for the new freezer
- 2. If yes, how you would structure the loan

Time: 30 mins

Exercise: Loan Structuring

On Completion: Solution on Loan Structuring







Loan Structuring (1)

Loan structuring is the last and one of the most important steps of analyzing a loan



- ▶ It can determine good repayment or delayed repayment/nonpayment
- A well structured loan's terms and conditions match with the needs and cash flows of the business and will prevent default
- ► Term of loans should not compromise institutional liquidity
- Proper loan structuring reduces the risk to the lender and the borrower





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Loan Structuring to Mitigate Risk

- Appropriate loan amount
- Appropriate loan period
- The right conditions being set for disbursing
- Appropriate payment frequency in relation to business' operating/cash cycle
- Appropriate grace period
- Improved loan terms for good repeat borrowers
- Appropriate penalties for poor performance









Loan Structure-Policy and Procedure Guidelines

- Keep interest-only periods to a minimum
- Grace periods are NOT recommended
- Don't set overly tough conditions for the client
- Train client to make repayments on time.
- Match repayment terms to cash flow, business, and loan purpose







Penalties in Loan Structure

- Standardise
- Build the penalties into the MIS so that they are automatically calculated.
- Make sure that all clients understand the penalties and know they must pay them.
- Set precedent of late clients to pay the penalties
- Management can over ride in extreme cases, but must document and internal audit should review these over rides.
- Set a reasonable period where penalties will not accrue as the penalties could become so large that it deters the client from ever repaying







Portfolio Management

Includes:

- Developing a sound lending methodology
- Putting sound lending methodology into practice
- Approving high quality loans
- Monitoring
- Work out of problem loans
- Using appropriate tools and reports to monitor the process







Portfolio Management - Key Element-Risk Management

Includes all steps in the loan process from:

Making high quality loans and enforcing no tolerance for delinquency from the very early stages to:



Monitoring

- ▶ There is no substitute for direct contact with the borrower
- Frequent visits are important
- Managing risks along the way to prevent problem loans







Importance of a Sound Lending Methodology

▶ To mitigate risk, policies and procedures must be in place for systematised lending procedures



- Standardised credit operations: less room for individual negotiation of terms and fraud
- Standardised products: multiple loan products or non-standardised products also leave room for client-staff negotiations





Step 3 Loan Approval









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Call Out

What are the factors to having an effective credit committee?



Who should be on the committee?





Mitigation of Risk through Approval Committee

- Appropriate composition of the committee to competently review applications.
- Objectivity and Independence of committee members
- ▶ Adequate but not excessive documentation for review.
- Proper conduct of a credit committee meeting or individual review process.

Who should be on the committee?



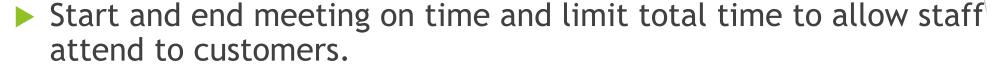








Credit Committee Operations





- Limit the number of loans to review in one session & Set time limit for presentations
- All write-ups on loan applicants are to be received in advance
- Standardize Credit Officers' presentations
- Meeting minutes including decisions made and underlying reasons are documented and all members sign.





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Common Credit Committee Problems

- Credit committees that have too few members
- 2. Credit committee has too many members
- 3. Failure to properly review the loan files
- Documents not checked for consistency and completeness before the meeting.
- 5. Wrong people on committee.
- 6. A "gotha" attitude of a the committee









Call Out



What Problems have you Experienced with your Credit Committees and What Solutions do you have?





Step 4 Loan Disbursement











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Call Out



What are the Risks in the Disbursement Process?





Disbursement Risks

- Contractual documents being legally incomplete, compromising enforceability.
- Lack of dual control can result in fraud.
- Lengthy process can frustrate the customer as a result of lengthy disbursement.
- Incorrect account set up in system can compromise reporting.
- ► Failure to check completeness of client loan documentation compromising follow and monitoring.







Ex. 1.3 Case Study on Loan Disbursement





In groups of 5...

Read the case study given to you and answer the questions.

Time: 15 Minutes

Exercise 1.3: Case Study on Loan Disbursement





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Step 4: Loan Documentation

- Documentation errors can lead to losses and considerable extra time in approvals
- You can control this
- ▶ Tool: Documentation Checklist







A Real Example

- In one case a review of 50 loan files showed considerable differences in the level of documentation provided for approved loans. Common errors included:
 - ► Incomplete or inconsistent cash flows
 - ► No documentation of field visits a photo of each visit at the clients premises was supposed to be on each file.
 - ► Limited documentation of securities
- ► This resulted in many larger loans sent to head office for approval being returned for further documentation.
- ► The problem was not the existence of the documentation checklist but compliance to it!









Documentation Checklist



- In your institutional groups...
- Develop a Cover Sheet and Loan Processing Check list and discuss it in the context of your institution.
- Do you follow all the steps mentioned?
- Is there anything that you do very differently?

Time 15 mins











Step 5: Monitoring











Call Out

- What is the role of a monitoring visit?
- What should the lender accomplish at a monitoring visit?
- Decide the appropriate monitoring schedule for an individual loan.







Role of Monitoring

- 1. Catch any potential problem early
- 2. Document information gained to update the credit file
- 3. Marketing
- 4. Build a relationship with both the credit officer and the client
- 5. Check the product, policies and procedures to make sure everything is in order accordingly









When to Monitor?

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The Knowledge Hub

- Decided by the Credit Officer and Manager
- During loan disbursement
- According to policy
- Tailored to the type of business, loan purpose and key risk events







Ex 6.10 Problems Related to Monitoring

In buzz groups ...





Discuss the problems or challenges an S&L faces with monitoring?

Time: 15 minutes





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Monitoring Tips

- 1. Look at business physical condition, inventory, raw materials, etc.
- 2. Sales trends and trends in inventory stocks, accounts receivables and payables (if applicable)
- 3. Overall cash flow (sales and expenses) compared to analysis
- 4. Changes in assets and liabilities
- 5. Major sums in or out of the business purchases/sales
- 6. Major increases/decreases in receivables, payables or inventory
- 7. Competition
- 8. Suppliers and buyers
- Collateral condition

Be sure to document the visit!

Create a loan monitoring tool for documentation









Monitors

- ► Internal Audit/Control
- Compliance
- Risk
- External Audit
- Self-audits by:
 - Credit Managers
 - Loan Administration
 - ► Loan Review









On a Monitoring Visit the Manager Should

- 1. Be open and talk to the client to find out about his/her current situation
- 2. Collect current financial information
- 3. Compare reality with the original analysis
- 4. Ask additional probing questions checking the client' and credit officer's performance
- 4. Watch for warning signs and observe the workplace for anything different (could be better or worse) than prior visit
- 5. Market the S&L/sell your next loan
- 6. Make sure that what the credit officer is saying is correct and there are no problems

Handout 2.1 Sample Credit Manager Monitoring Tracking Form









Wrap Up

- Every step of the lending process is about reducing risk
- Policies and procedures must guide Credit Officers to achieve S&L's objectives to reduce risk
- Use of different types of collateral with the individual lending product introduces new risks that need to be identified and managed through different monitoring tactics
- Credit staffing will change with individual lending in response to risk management in the back office, collateral, and problem loans
- There are various ways to monitor the portfolio. It does not matter how it is done, just that it gets done!







Wrap Up

- Monitoring according to schedule will help catch problems early
- ➤ To remain sustainable, the Manager must establish direction, allocate resources, manage risk, and be held accountable for success or failure.
- Managers cannot do this by themselves; support from all staff is highly important.
- Management should strive for a proper balance being struck between the 'small picture' detail of credit analysis and the 'big picture' consideration of issues relating to the markets and economical conditions.







Risk and Analytics

- MIS
- Reporting
- Credit Scoring
- Digitization



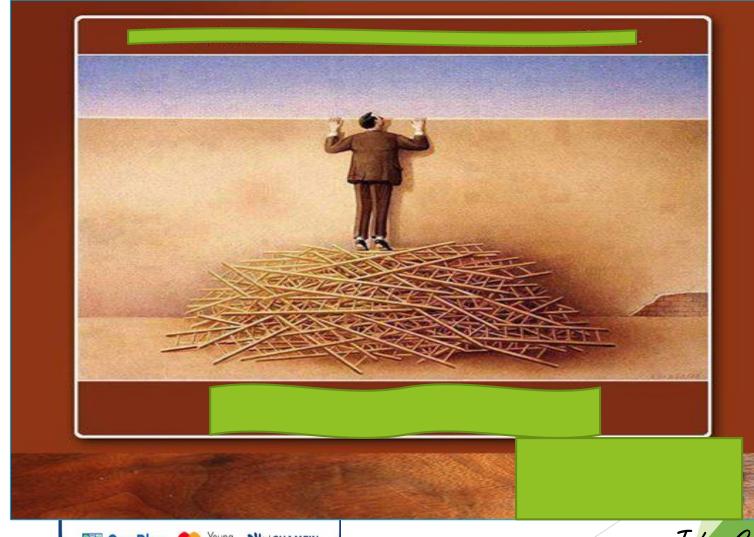






What is your take on this illustration?

It does not matter how much resources you have, if you do not know how to manage them they will not benefit you









Call Out









Reporting

	NUMBER OF ACTIVE CLIENTS					
			Growth in Active Clients			
BRANCH	30-06-20	16-07-20	Actual	Target	%age Achieved	
1	448	454	6	24	24.68%	
2	499	499	0	24	0.00%	
3	1085	1066	(19)	110	-17.24%	
4	354	357	3	17	17.26%	

	Disbursement		NEW ACCOUNT ROLL-DOWN			
	30-06-20	16-07-20	No of			
BRANCH	Number	Volume	Loans	Volume	%age Vol	
1	32	250,500	6.00	16,535.54	0.48%	
2	23	396,000	7.00	171,911.18	5.89%	
3	46	111,800	6.00	6,633.63	0.54%	
4	5	26,500	9.00	14,633.95	0.76%	



	Outstanding Portfolio					
			Growth in Outstanding Portfolio			
BRANCH	30-06-20	16-07-20	Actual	Target	%age Achieved	
1	3,447,180.56	3,489,645.63	42,465.07	127,227.64	33.38%	
2	2,917,953.04	3,113,252.88	195,299.84	114,612.42	170.40%	
3	2,852,456.89	2,754,449.18	(98,008)	73,854.76	-132.70%	
4	1,919,956.10	1,821,041.52	(98,915)	84,470.80	-117.10%	

	PAF	R Above 30 Da	% PAR Above 30 Days		
BRANCH	30-06-20	Net Growth	16-07-20	30-06-20	16-07-20
1	913,509.13	13,525.73	927,034.86	22.61%	22.71%
2	594,531.49	137,330.64	731,862.13	18.22%	20.99%
3	585,185.85	(55,910.77)	529,275.08	18.61%	17.37%
4	360,243.18	15,675.54	375,918.72	16.25%	17.68%

4% Tolerable PAR>30days

6% Tolerable PAR 1-30days

5% Reserve ratio (Cum Provision/ Outst Portfolio)

	Recoveries	Collections	Reserve ratio	Deposits - Loan Clients	
	Principal, Int.,			Vol	Deposit/ Loan
BRANCH	&Penalty	This month	% age	GHS	ratio
1	51,974.94	208,034.93	30.7%	3,693,361	105.84%
2	61,617.88	200,700.16	23.8%	3,577,171	114.90%
3	73,034.55	209,807.71	14.1%	5,893,650	213.97%
4	38,476.84	125,414.58	25.9%	2,271,820	124.75%









Ranking of Branch, Manager, & Officer

PROVISION				
For the Month	Cumulative	Cum Provision/ Outs Principal	Profitability- Net Income	LO Profitability Ranking
4,414.0	236,289.0	22%	29,201	2
(1,234.7)	145,134.3	16%	41,440	1
			·	
(3,621.3)	21,541.4	7%	19,332	5
(417.5)	62,724.1	16%	13,049	31
(426.0)	43,127.9	12%	14,564	4
(112.2)	4,049.8	4%	3,426	6



6% Tolerable PAR 1-30days

5% Reserve ratio (Cum Provision/ Outst Portfolio)









Sum of Bal1	Column Labels									
Row Labels	Current	1-15	16-30	31-60	61-90	91-120	121-150	151-180	>180	Grand Total
New	3,716,001									3,716,001
Current	22,695,164		212,173		_					25,565,093
1-15	1,030,347	30,960	1,013,127	7,775		•				2,082,208
16-30	10,231	208,768	990	529,934			_			749,923
31-60	2,639	28,344	47,581	474,206	354,957	7				907,728
61-90	8,750			138,399	726,354	323,211				1,196,713
91-120				568	42,511	346,498	198,994			588,570
121-150				2,953		19,938	244,589	192,475		459,955
151-180							3,559	117,764	110,847	232,170
>180								2,730	3,163,268	3,165,998
Grand Total	27,463,132	2,925,827	1,273,871	1,153,834	1,123,822	689,646	447,142	312,969	3,274,115	38,664,359

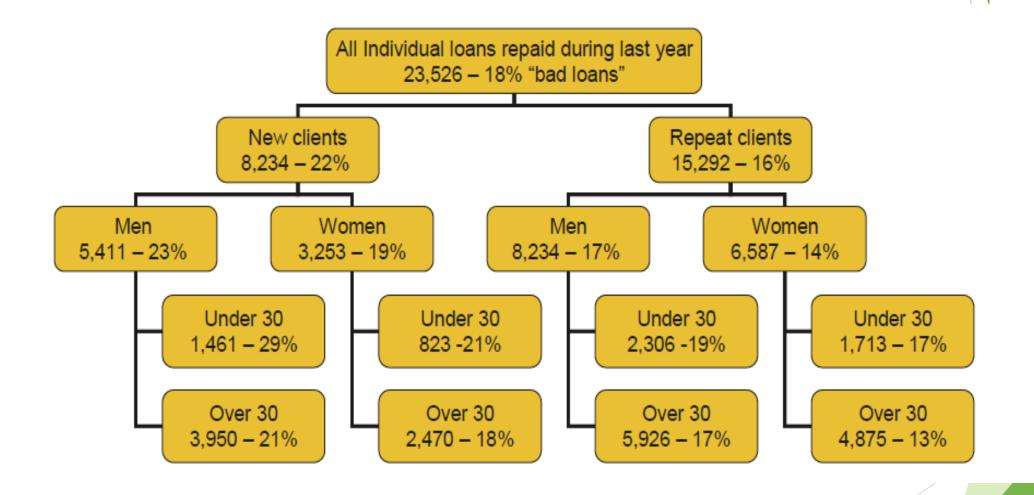


Legend:	Vol			
	5,601,248 Further deterioration in delinquency aging	PAR	7,001,529	18.11%
	5,104,628 No change in aging bracket	NPL	4,723,872	12.22%
	495,351 Roll-back of days late, though client is still in arrears	PAR1+	11,201,227	28.97%
	27,463,132 No arrears	Current	27,463,132	71.03%





What is your take on this illustration?









Credit Scoring & Data Tree

- New male clients below the age of 30 carry the highest risk of loan default (29%)
- ▶ New female clients under the age of 30 (21%)
- ▶ New male clients over the age of 30 (21%)
- In the scoring model;
- Categories could be used as criteria;
- "new client" or "repeat client"
- "man" or "woman"
- "under 30 years age" or "over 30 years age"
- with high scores for the criteria "repeat client", "woman" and "over 30 years age"
- low scores for "new client", "man" and "under 30 years age".

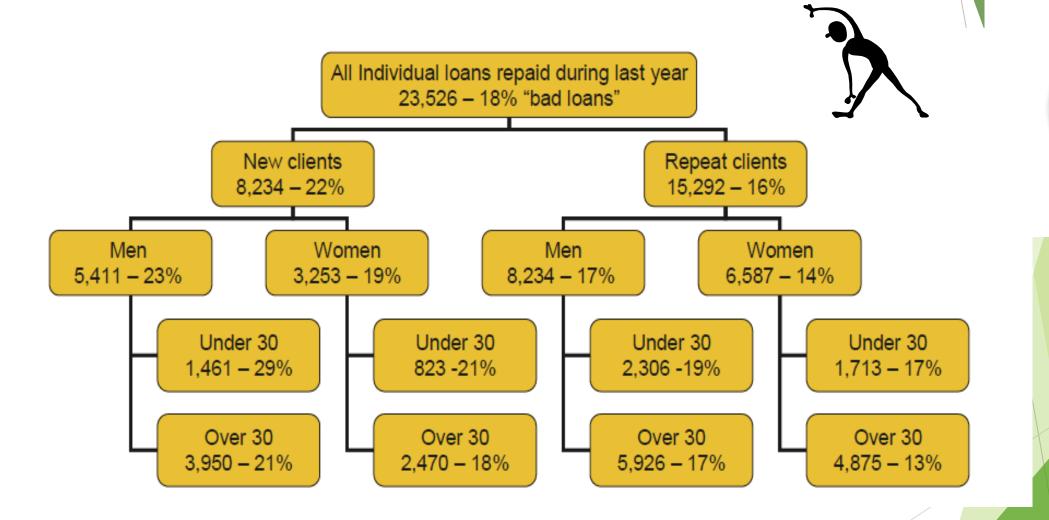








Credit Scoring & Data Tree









Key Points to Scoring

- Scoring works best in mature financial sector environment;
- Significant sample size is important to make results statistically meaningful;
- Fewer but useful variables are better than too many variables;
- Build the scoring system on institutional knowledge and pre-test scoring system before using it in day-to-day operations;
- ▶ Update scoring systems regularly and be aware of changes in the environment.







Maturity Profile for Term Deposits							
	2018		2019				
	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Term Deposits	696,081	2,326,067	751,360	911,030	1,373,497	429,347	185,950
Avg Int Rate	11.12%	11.30%	11.33%	11.80%	11.95%	12.07%	12.05%
Max Int Rate	13.50%	16.00%	21.25%	16.00%	17.00%	13.50%	13.50%
Min Int Rate	10.00%	10.00%	10.00%	10.00%	11.25%	11.25%	11.25%

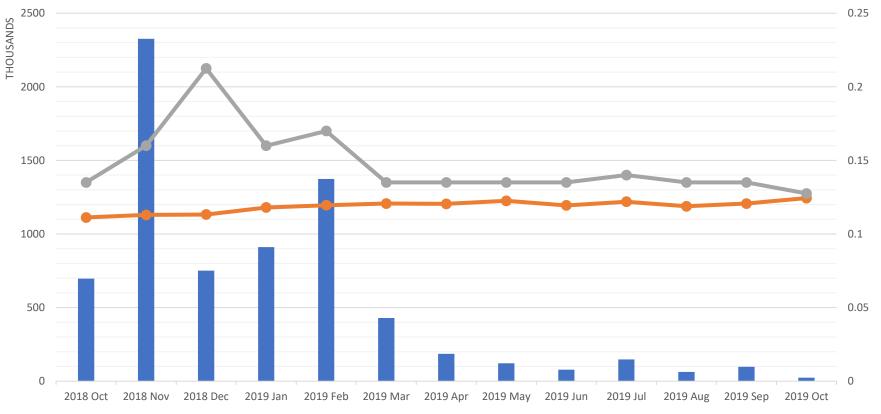


Maturity Profile for Ter								
	2019							Grand Total
	Apr	May	Jun	Jul	Aug	Sep	Oct	
Term Deposits	185,950	121,600	77,500	147,500	62,680	97,500	23,000	7,203,112
Avg Int Rate	12.05%	12.25%	11.94%	12.19%	11.88%	12.07%	12.44%	11.61%
Max Int Rate	13.50%	13.50%	13.50%	14.00%	13.50%	13.50%	12.75%	21.25%
Min Int Rate	11.25%	11.50%	11.50%	11.50%	11.50%	11.50%	11.50%	10.00%





Maturity Profile -Term Deposits











To what kind of risk categories do the following examples belong?

An S&L has taken a foreign currency loan of one million USD at 5% interest p.a., fixed for three years. However, the S&L disburses micro-loans in local currency.



- An S&L has 10,000 outstanding loans of which 75% are for cattle purchasing.
- An S&L has granted 500 farmer loans, using their land as legal collateral. However, the new government decided that land of small farmers must not be foreclosed in case of loan default.
- An S&L has approved a large volume of new loans. However, the borrowers have to wait several weeks until they can withdraw their loans because the S&L has a temporary cash problem.





Solutions

- (1) Interest rate risk and foreign exchange rate risk;
- (2) Loan portfolio risk;
- ► (3) Capital adequacy risk and credit risk (capital requirement increases because risk weight of farmer loans increases, and loan portfolio risk increases because the farmers may feel less obliged to repay their loans);
- (4) Liquidity risk (not enough cash to pay out loans)



































