



Session 3- Risk management



Learning objectives

In this session you will learn:

- To identify the main risks faced by the bank
- How banks can mitigate such risks
- What is money laundering
- What is the BASEL accord



DO THESE NEWSPAPER ARTICLES LOOK FAMILIAR?

NINE ARRESTED IN PMC BANK CASE

SEPT 30: EOW files FIR against 10 accused in PMC Bank loan fraud case. It has arrested 9 persons so far

ARRESTED ACCUSED

Rakesh Wadhawan EXECUTIVE CHAIRMAN, HOIL GROUP

Sarang Wadhawan RAKESH'S SON, AND VICE-CHAIRMAN

Joy Thomas FORMER MD. PMC BANK

AND MD, HDIL GROUP

Warvam Singh | FORMER DIRECTOR OF HOIL AND

FORMER CHAIRMAN OF PMC BANK

Surjit Singh Arora DIRECTOR, PMC BANK

Jayesh Sanghani | AUDITOR



Ketan Lakdawala | AUDITOR Anita Kirdat | AUDITOR Ranjit Singh | DIRECTOR, PMC B

MOHAMEDTHAVER MEMBAL BUILDING TO

AST WEEK, Pune-based Cosmos Bank lost Rs 94 crore is a coordinated digital fraud communicate thousands of online transactions. made notsible because of a malware attack in the bank's systems. Allook at how the four-fluor, rainted out, and what resections it paises of security nyments:

What the software did

The foragliberan with a malware attack. dware is mulicious software that in noronce dided, it can install executable codes frewalls. In this case, the malware compromased a digital system responsible for setfilter cash dispensation requests raised at ATMs Associate one swipes a card, a request is transferred to the core banking outtern (FBC) of the bank. If the account has enough transactions in a secure environment Earlier money the CRS will allow the transaction. In this case, the malware created a peoply sys-with its headparters at Kombakonam (Tami

series 14,800 fraudulent transactions to - three lots was transferred to banks in Duba. withdraw Rs 80.5 crore - Rs 78 crore Turkey and China. The SWIFT system frethrough 12,000 transaction in 26 countries. the rest in India. Another Rs 11.5 cross was transferred to a Horse Korse-based emity using a facility called Society for Worldwide

These are suspected to have been done them," he added, Former NPCI managing diwith "cloned cards", although a senior source - rector and CRO A P Hista said. "I think it is reet National Payment Composition of Jedia NPCI said that this is not certain at this stage. Sened debit and credit cards have been used n seesal cybercrimes. The feauliter collects the card details (these are sometimes even sold over the dark net, a network with restricted access) and uses a a machine to conv. these on dummies, or blank plastic cards.

trica network that enables financial insti-

tution on send and receive information about Common way attacked on a Saturday this year the SWIFT someon at City Union Blank.

their protection measures are in place."

happen. "These is a case that as far as security is concerned, attention is given more to corpquently releases security updates. Muslim Koser, director (product development) of been sidelined. Nowever there are 9-10 c Voion, a cyber security firm, suggested that: banks ensure that their systems are patched immediately after the undate. "The developshould nay special attention to large coopercarSWFF need to understand the narticular erative hands." Hota said Cuter crime ins be light of emissis heige used and neutralise tigation einest Ritech Bharia said securit and given the high level of coordinated promistive findingly afterly remove that ternational attacks, all hanks need to upgrad their security mechanisms.

The attack on Cosmos took place around the same time that the PRI issued a warring could compromise a bank or payment procesion asedones carb at carb macterin across the world to withshow money. These attacks Interpet and making hanking which we normally take place over the weekend, and suspended in the aftermath of the attack Ranfra from a nurt of the 'critical infrairma time and one would be coefficial about one ing an account at a bank where security h

Life term for man who cheated bank of 73cr.

10 years for manager Heat's on white-collar crime: 6 get life for cheating bank

PNB scam: Who's liable? spections are being raised on vitry multiple audits failed to raise an also

What Rs 94 cr online fraud says of bank security



WHAT IS RISK?

- Risk= Results Not = Expectations
- Risk is Probability of LOSS due to
 - Non-happening of an expected event
 - Happening of an Un-expected event

Why should we take risk? Can there by any activity without Risk?



WHAT ARE THE MAIN TYPES OF RISKS FACED BY BANKS?

Market Risk

Credit Risk

Operational Risk



DRIVERS OF RISK

Market Risk- External forces

• Credit Risk- Borrowers

• Operational risk- Internal processes



INTERNAL FACTORS- RISK DRIVERS





EXTERNAL FACTORS-RISK DRIVERS





MARKET RISK

- It is the risk of loss from adverse movements in the level or volatility of interest rates, Exchange Rates and market prices of assets/ Commodities.
- The Bank may experience losses due to factors that affect the overall performance of investments in the financial markets.



CREDIT RISK

It is the risk of loss from default by the Borrowers for repayment of principal as well as interest.



Operational Risk

It is the unexpected Loss arising on account of deficiencies in information systems or internal controls. Operational Risk is inherent in any financial activity.



WHAT IS RISK MANAGEMENT?

- ✓ Identify Risks
- ✓ Measure impact of Risk
- ✓ Establish Risk Hedging measures
- ✓ Overcome Risks before it comes over you
- ✓ Risk is inherent & co- extensive with activity





OPERATIONAL RISK EVENTS

- Internal fraud.
- External fraud.
- Employment practices and workplace safety.
- Damage to physical assets.
- Business disruption and system failures.
- Execution, delivery and process management.



MITIGATION OF OPERATIONAL RISK

- Define an operational risk policy at the Board level.
- Develop a system of effective internal controls with control activities defined at every business
 level.
- Have a well documented compliance policy
- Internal audit
- Employee training and motivation
- Stringent controls for new areas of activity including new products
- Disaster Recovery and Business continuity Plans
- Insurance and security measures
- Investment in Technology
- Outsourcing activities based on robust contracts and service level agreements



WHAT IS MONEY LAUNDERING?

- Money laundering refers to any procedure to change the identity of illegally obtained money so that they appear to have originated from a legitimate source.
- Stages of money laundering
 - Placement
 - Layering
 - Integration



AML GUIDELINES

- Prevention of Money Laundering Act passed in 2002 to prevent laundering. Came into effect from July 01, 2005
- It imposes obligation on banking companies, financial institutions and intermediaries to verify identity of clients, maintain records and furnish information in prescribed formto Financial Intelligence Unit (FIU-IND)
- RBI has provided detailed guidelines on the obligations of banks regarding

KYC/AML/CFT

- Every Bank is required to appoint a senior management officer as a Principal officer, who will report directly to senior management/ Board of Directors. He will be the liaison with the central Bank and other regulatory bodies for AML/CFT implementation. He will also be responsible for ensuring the guidelines within the Bank.
- Every banking shall maintain a record of all cash transactions of the value of more than rupees ten lakhs or its equivalent in foreign currency
- CTR and STR to be filed monthly with the FIU-IND



CREDIT RISK

Risk of loss from default by the borrowers for repayment of principal as well as interest. Credit Risk may take other forms also:

- In the case of Guarantees or Letters of credit: Funds not forthcoming from the constituents upon crystallization of the liability
- In the case of Treasury Operations: Payment or series of payments due from the counter parties under the respective contracts not forthcoming or ceases
- In the case of Securities Trading businesses: Funds/ Securities settlement not getting effected due to insufficient funds or securities
- In the case of Cross-border exposure: Non availability and issues in free transfer of foreign currency funds or restrictions imposed by the sovereign.



WHAT CAUSES CREDIT RISK?

- Macroeconomic factors:
 - Slowdown in the economy
 - Government policies- monetary, fiscal, licensing
- Company specific:
 - Aggressive lending policy
 - Absence of proper credit management policy
 - Inefficient management,
 - Fraudulent practices



MITIGATION OF CREDIT RISK

- Define a credit risk policy and strategy
- Adhere and review the 5C's of credit —This is a system used by lenders to gauge the creditworthiness of potential borrowers.
 - **Character**—reflected by the applicant's credit history.
 - Capacity- measures the borrower's ability to repay a loan by comparing income against recurring debts and assessing the borrower's debt to income ratio
 - Capital- indicates the borrower's level of commitment / seriousness.
 - Collateral- This is the asset which is mortgaged for securing the loan.
 - **Conditions** These are the terms and conditions of the loan.



MITIGATION OF CREDIT RISK (contd.)

Portfolio monitoring

- Ensuring compliance with the terms and conditions of the loan.
- Physically inspecting the factory, godown and the financial statements
- Monitoring performance to check the continued viability of operations.
- Verifying end use of credit.



BASEL-AN INTRODUCTION

- Basel Committee on Banking Supervision (BCBS) was formed in 1974 by central bankers from the G10 countries to develop global regulatory standards for banks and to strengthen micro and macroprudential supervision.
- It is one of the committees of the Bank for International Settlements (BIS), based in Basel, Switzerland.
- Presently 45 members.
- Committee's proposals do not have any legal force but are the accepted international standards of best practices in banking supervision.
- IMF and World Bank use the Basel's standards as a benchmark in conducting their assessment of the banking system of a country.



BASEL ACCORDS

- **Basel 1** introduced in 1988 and focused on the capital adequacy of financial institutions.
- Under Basel I, banks that operate internationally must maintain capital equal to at least 8% of their risk-weighted assets. This ensures banks hold a certain amount of capital to meet obligations.
- **Basel II** -introduced in June 2004



3 PILLARS OF BASEL II

Basel II

Pillar I

MINIMUM CAPITAL REQUIREMENTS

Credit risk

(new measurement)

Market Risk

(unchanged)

Operational Risk

(new)

Pillar II

SUPERVISORY REVIEW PROCESS

- Assesment of risks and capital adequacy of the individual banks
- Constant contact with banks

Pillar III

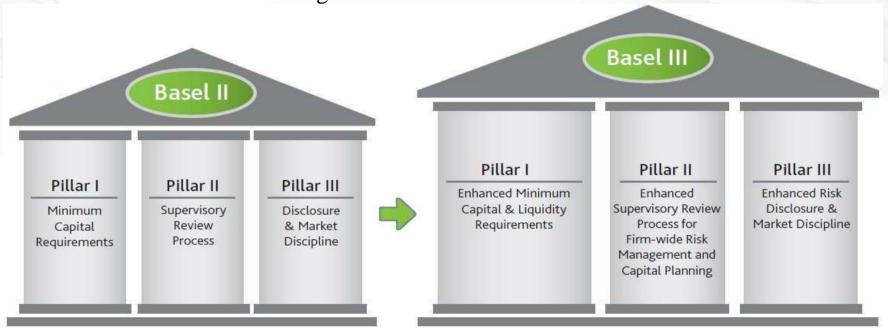
TRANSPARENCY AND MARKET DISCIPLINE

 Increasing disclosure of capital requirements as well methods of risk assesment



BASEL II TO BASEL III

• Basel III was introduced in Nov 2010 after reviewing the reasons for the collapse Lehman Brothers and other big financial institutions in 2008.





Capital requirement under Basel II and III

Introduction to Basel III

- Major features of Basel III are
 - Recommends to keep better liquidity (norms expected by 2015 end)
 - Counter cyclical buffer to be used when stressed / bad times (hence 0%) and keep when healthy (3%)
 - Systematically Important Financial Institution (SIFI) expected to go beyond Basel III recommendation
 - Snapshot of Basel II vs Basel III comparison

Requirements	Under Basel II	Under Basel III
Capital Conservation Buffers to RWAs	None	2.50%
Minimum Ratio of Total Capital To RWAs	8%	10.50%
Minimum Ratio of Common Equity to RWAs	2%	4.50%
Tier I capital to RWAs	4%	6.00%
Leverage Ratio	None	3.00%
Leverage Ratio for 8 SIFIs in US	None	8.00%
Countercyclical Buffer	None	0% to 2.50%
Minimum Liquidity Coverage Ratio	None	TBD (2015)
Net Stable Funding Ratio (NSFR)	None	TBD

Basel concepts Simplified by Gopal Presad Malakar



Thank You