

Risk Management Framework at the Central Bank of Azerbaijan

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Organizational Framework of Risk Management



Financial Risk Management at Strategy Level

Safety

High probability that the invested amount will get back

- Investing only in investment grade fixed income assets;
- Maximum limit applies to the non-government (or non-benchmark) instruments;
- Diversification limit applies to each non-government (or non-benchmark) instrument.

Liquidity

Converting the invested assets to cash within a reasonable period by incurring the lowest possible cost

- Tranching approach is used by dividing reserves into Operational (Liquidity) and Investment tranches;
- Determining the minimum daily liquid amount;
- Maximum limit applies to non-marketable instruments.

Return

Positive return at the end of the investment horizon(s)

- Investing only in bonds and money market instruments;
- Benchmarks are selected based on the risk tolerance of portfolios till the end of the investment horizon;
- Duration and tracking error management is used to beat the benchmark return.

Investment Approach based on Risk Tolerance

	High conservative	Conservative	Less conservative
Investment horizon	Less than 1 year	1 year	1 - 2 years
Liquidity needs	Very high	High	Low
Goal	Capital preservation and immediate liquidity	Capital preservation and low return	Capital preservation and maximization of excess return
Strategy	Money market	Short duration	1 - 3 year duration
Expected annual return	0,65%	0,80%	1,00%
Expected standard deviation (annual)	0,30%	0,45%	0,65%

Maximize the excess return at the end of the investment horizon while preserving capital and liquidity

Financial Risk Management Tools

	Key points	Risk Management Tools
Credit risk	 Avoidance of credit event Potential for credit rating downgrades Idiosyncratic events Counterparty exposure 	 Credit rating constraints Credit model based on credit rating and CDS Counterparty limits for exposure Concentration limits Issuer specific analysis on both parent and issuer level
Liquidity risk	 Monetary policy liquidity requirements Market depth: bid/offer spreads, ability to transact Liquidity profile of portfolio (% of overnight, % of government, etc.) Management around statement dates Counterparty exposure 	 Daily liquidity limit Liquidity/issuance Views on issuers, sectors, countries Maturity profile Instrument selection (secured vs. unsecured, fixed vs. floating)
Market risk	 Interest rate risk Volatility Correlations Basis risk 	 Duration management relative to the benchmarks VaR, CVaR and tracking error Weekly stress testing – shock scenarios on interest rate moves, credit spread widening Regular meetings/discussions

Operational Risk Management Framework



Operational Risk Management Process



ERM - from Traditional to Integrated Approach



Centralized risk management

- proactive risk
- Focus on the threats and the
- Effective support of RM to strategic
- Prioritization of strategies on resources allocation

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Irregular

planning

Building Blocks of Integrated Approach



- Build risk culture at organization
- Use risk information in decision making
- Transparent and integrated resource allocation policy
- Clear set of roles, responsibilities and risk owners
- Accountability
- Defines risk appetite
- Evaluate strategies based on risk information
- Formulate business objectives

- Risk assessment (financial, operational, strategic etc.)
- Risk responses and prioritization
- Portfolio view of projects

Building Blocks of Integrated Approach



Resources Needed During the Implementation



Board Support Board support is critical



Board Decisions

Board should adopt new policies or update existing ones



Stakeholders Participation

Involvement of relevant departments



Communication to Change Culture

Frequent communication

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Human Resources in Risk

Number of employees in risk management



IT Tools

Software tools are critical for the automation process.

Central Bank Risk Landscape



Source: A Survey of Research on Retail Central Bank Digital Currency, WP/20/104, June 2020, Washington, D.C.: International Monetary Fund.

Thank you for your attention!

