

Unlocking VRS Impact: A Triangular Analysis Plan of Profitability, HR Optimization, and Employee Wellbeing

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Abstract—This study presents the roadmap or plan in three vertex (Analysis Triangle) plans to investigate the effects of Voluntary Retirement Schemes (VRS) on Human Resource Management (HRM) parameters and optimization in nationalized banks, focusing on the State Bank of India (SBI). A mixed-methods approach combines quantitative and qualitative analysis to examine the relationships between VRS and HR optimization metrics. The findings provide valuable insights for HR practitioners and policymakers. In other words, our triangular analysis framework to evaluate the impact of Voluntary Retirement Schemes (VRS) across three critical vertices: profitability, HR optimisation, and employee well-being, with a focus on nationalized banks, particularly the State Bank of India (SBI). Utilizing a mixed-methods approach, the study integrates quantitative techniques like paired sample t-tests and regression analysis with qualitative methodologies including thematic analysis and focus groups. The analysis investigates pre- and post-VRS scenarios to discern correlations and causations. The proposed plan addresses the psychological, financial, and organizational outcomes of VRS, aiming to provide a holistic view of its implications. This framework offers practical insights for HR practitioners, policymakers, and researchers to balance organizational efficiency with employee welfare effectively.

Keywords— Voluntary Retirement Schemes (VRS) , Human Resource Management (HRM) Nationalized Banks, Analysis Triangle

I. INTRODUCTION

The Indian banking sector has undergone significant transformations, driven by liberalization and technological advancements. Nationalized banks have implemented VRS to streamline operations and enhance efficiency. However, the impact of VRS on HRM parameters and optimization remains understudied. Voluntary Retirement Schemes (VRS) have become a popular strategy for organizations to reduce workforce and costs. Introduced in the 1980s, VRS aimed to voluntarily reduce the workforce, avoiding compulsory retrenchment. While VRS has financial benefits for organizations, its impact on employees remains largely unexplored. Employees facing VRS experience significant changes, affecting their psychological well-being, financial security, and organizational commitment. Understanding these outcomes is crucial for organizations to develop effective strategies to support employees during VRS implementation. This study investigates the psychological, financial, and organizational outcomes of VRS on employees. The research objectives as three vertices are (1) To examine the psychological impact of VRS on employees. (Vertex-1) (2) To investigate the financial impact of VRS on employees. (Vertex-2) (3) To study the organizational impact of VRS on employees. (Vertex-3). The resultant study plan will have an overall impact from the perspective of A Triangular Analysis of Profitability, HR Optimization, and Employee Well-being.

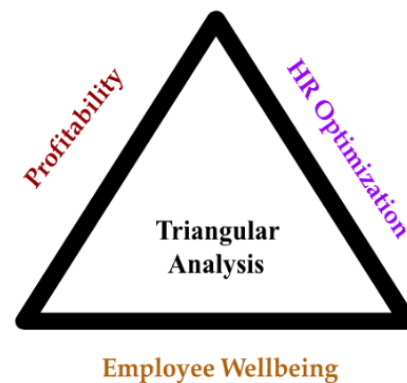


Fig.1

II. REVIEW OF LITERATURE

The Indian banking sector has experienced significant transformations due to liberalization, globalization, and technological advancements. These changes have prompted banks to adopt innovative strategies to remain competitive and efficient. One such strategy is the VRS, a tool designed to manage workforce reduction by offering employees financial incentives to voluntarily exit the organization. Introduced in the 1980s, VRS has been widely used in public sector enterprises, including nationalized banks, to optimize costs, enhance

productivity, and streamline operations. Unlike compulsory retrenchment, VRS provides employees the autonomy to make decisions regarding their retirement, making it a less contentious workforce optimization method.

VRS is a structured program where employees are offered a package of financial benefits as an incentive to retire voluntarily before their official retirement age. The key objectives of VRS include (1) Reducing workforce size to align with operational needs. (2) Cutting costs related to salaries and benefits. (3) Enhancing overall organizational efficiency.

HR Optimization The implementation of VRS impacts critical human resource (HR) parameters, such as employee productivity, retention, and training cost efficiency. VRS aims to retain high performers while reducing redundant roles, leading to a streamlined workforce that aligns with organizational goals.

Employee Well-Being-While VRS serves organizational objectives, its psychological and financial effects on employees are profound. Employees who opt for VRS often face uncertainties regarding financial security, career prospects, and emotional stability. Additionally, the employees who remain with the organization may experience increased workloads and reduced morale.

III. RATIONALE FOR THE STUDY

Despite its widespread implementation, research on VRS has largely focused on organizational outcomes such as cost reduction and profitability. However, the multi-dimensional impact of VRS—spanning financial outcomes, HR metrics, and employee well-being—remains insufficiently explored. A comprehensive understanding requires examining VRS's effects through a holistic framework that balances organizational efficiency with employee welfare.

This study proposes a triangular analysis framework, which integrates three critical vertices:

1. Profitability- To analyze VRS's impact on financial performance metrics, including Return on Assets (ROA), Return on Equity (ROE), and productivity indicators.
2. HR Optimization- To evaluate the effects on workforce management parameters, such as employee retention, productivity, and cost efficiency.
3. Employee Well-Being- To assess psychological outcomes, including stress, job satisfaction, emotional well-being, and organizational commitment.

Research on VRS has primarily focused on organizational outcomes, neglecting employee-level effects. Existing literature highlights the need for empirical research on VRS's impact on HRM parameters. Studies have examined VRS's effects on organizational performance, but few have focused on HR optimization metrics.

A study by Gupta and Jain (2005) found that VRS led to significant cost savings for Indian organizations. Sharma and Singh (2010) reported improved organizational performance post-VRS implementation. However, research by Rao and Rao (2011) highlighted negative consequences, including decreased employee morale. Limited studies have explored psychological outcomes. A study by Singh and Singh (2008) found that VRS led to increased stress and anxiety among employees.

Research by Kumar et al. (2012) reported decreased job satisfaction post-VRS. Financial outcomes have received scant attention. A study by Jain and Jain (2009) found that VRS resulted in significant financial losses for employees. Organizational outcomes have been explored. Research by Singh and Sharma (2011) found that VRS led to changes in organizational culture. The current study addresses the knowledge gap by examining the impact of VRS on HRM parameters and optimization in nationalized banks.

The research focuses on SBIN, a leading nationalized bank, to explore VRS's impact. SBI has implemented VRS to adapt to changing market dynamics and operational challenges. By combining quantitative methodologies (e.g., paired t-tests, regression analysis) with qualitative approaches (e.g., thematic analysis, surveys), this study aims to bridge the gap in understanding the holistic implications of VRS.

Through this triangular analysis, the study provides actionable insights for policymakers, HR practitioners, and academics to ensure that VRS strategies align with organizational objectives while addressing employee concerns. This approach aims to establish a sustainable balance between profitability, HR optimization, and employee well-being.

IV. RESEARCH DESIGN/METHODOLOGY

This study employs a mixed-methods approach. Paired sample t-test and regression analysis(Quantitative analysis).Factor analysis and thematic analysis(Qualitative analysis).

Procedure for Vertex-1

To examine the impact of VRS on profitability, productivity, and staff cost. The procedure for "Examine the impact of VRS on profitability, productivity, and staff cost". is shown in Table 1.

Table 1. Procedure to examine the impact of VRS on profitability, productivity, and staff cost (Vertex-1)

Step #	Phase	Activity
Step 1	Data Collection	1.1 Identify data sources <ul style="list-style-type: none"> • Published balance sheets of nationalized banks (e.g., State Bank of India) • Annual reports • RBI website 1.2 Collect data <ul style="list-style-type: none"> • Profitability metrics (e.g., Return on

		Assets (ROA), Return on Equity (ROE) <ul style="list-style-type: none"> Productivity metrics (e.g., Business per Employee, Profit per Employee) Staff cost metrics (e.g., Staff Cost as a percentage of Operating Expenses)
Step 2	Data Analysis	2.1 Calculate profitability, productivity, and staff cost metrics <ul style="list-style-type: none"> Pre-VRS (3-5 years) Post-VRS (3-5 years) 2.2 Compare pre-VRS and post-VRS metrics <ul style="list-style-type: none"> Paired sample t-test ANOVA (if multiple groups) 2.3 Analyze correlations <ul style="list-style-type: none"> Pearson correlation coefficient (profitability vs. productivity) Regression analysis (staff cost vs. profitability/productivity)
Step 3	Interpretation	3.1 Evaluate significance <ul style="list-style-type: none"> p-values Confidence intervals 3.2 Discuss findings <ul style="list-style-type: none"> Impact of VRS on Profitability Impact of VRS on Productivity Impact of VRS on Staff Cost
Step 4	Visualization	4.1 Create tables <ul style="list-style-type: none"> Descriptive statistics Inferential statistics 4.2 Create graphs <ul style="list-style-type: none"> Line charts (trend analysis) Bar charts (comparative analysis)

Procedure for Data Analysis	<ul style="list-style-type: none"> Calculate profitability, productivity, and staff cost metrics Compare pre-VRS and post-VRS metrics Analyze correlations Interpret results
Tools and Techniques	<ul style="list-style-type: none"> Statistical software (e.g., SPSS, R, Python libraries) Microsoft Excel Data visualization tools (e.g., Tableau, Power BI)
Data Analysis Software	<ul style="list-style-type: none"> SPSS Microsoft Excel
Procedure for Visualization	<ul style="list-style-type: none"> Create tables Create graphs Design visualizations for reporting
Procedure for Interpretation	<ul style="list-style-type: none"> Evaluate significance Discuss findings Draw conclusions Recommend future research
Expected Outcomes	<ul style="list-style-type: none"> Significant improvement in profitability post-VRS Increase in productivity post-VRS Reduction in staff cost post-VRS
Limitations	<ul style="list-style-type: none"> Data availability Sample size Time-series analysis limitations
Expected Outcomes	<ul style="list-style-type: none"> Significant improvement in profitability post-VRS Increase in productivity post-VRS Reduction in staff cost post-VRS
Limitations	<ul style="list-style-type: none"> Data availability Sample size Time-series analysis limitation
Timeline	<ul style="list-style-type: none"> Data collection 2 weeks Data analysis 4 weeks Interpretation and reporting 2 weeks
Deliverables	<ul style="list-style-type: none"> A comprehensive report detailing findings Visualizations (tables, graphs) Recommendations for future research

Activity/ Phase	Micro instructions
Assumptions	VRS implementation is the primary driver of changes in profitability, productivity, and staff cost. Other external factors (e.g., economic conditions, regulatory changes) are controlled.
Data Requirements	<ul style="list-style-type: none"> Financial statements (balance sheets, income statements) Employee data (headcount, salaries, benefits) Operational data (business volume, transactions)
Procedure for Data Collection	<ul style="list-style-type: none"> Identify data sources Collect financial statements and employee data Clean and preprocess data Merge datasets
Sample Size	<ul style="list-style-type: none"> Minimum 30 observations (15 pre-VRS, 15 post-VRS) Ideal 50-100 observations

Vertex- 2: Investigate the impact of VRS on human resource optimization.

Table 2. Procedure to investigate the impact of VRS on Human Resource Optimization

Step 1. Literature Review	1.1 Identify key HR optimization metrics <ul style="list-style-type: none"> Employee productivity Employee retention Training cost efficiency HR cost efficiency 1.2 Review existing literature on VRS and HR optimization <ul style="list-style-type: none"> Academic journals
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	<ul style="list-style-type: none"> • Industry reports • Case studies
Step 2 Research Design	<p>2.1 Survey design</p> <ul style="list-style-type: none"> • Questionnaire development • Sampling frame (HR professionals, managers) • Sample size (minimum 100 respondents) <p>2.2 Data collection methods</p> <ul style="list-style-type: none"> • Online surveys • Interviews (optional)
Step 3 Data Collection	<p>3.1 Distribute questionnaires</p> <ul style="list-style-type: none"> • Email • Online survey platforms (e.g., Google Forms) <p>3.2 Collect data</p> <ul style="list-style-type: none"> • Demographic information • HR optimization metrics (pre-VRS, post-VRS) • Perceptions of VRS impact on HR optimization
Step 4 Data Analysis	<p>4.1 Descriptive statistics</p> <ul style="list-style-type: none"> • Means • Standard deviations • Frequencies <p>4.2 Inferential statistics</p> <ul style="list-style-type: none"> • Regression analysis • ANOVA • Correlation analysis
Step 5 Interpretation	<p>5.1 Evaluate significance</p> <ul style="list-style-type: none"> • p-values • Confidence intervals <p>5.2 Discuss findings</p> <p>Impact of VRS on HR Optimization Metrics</p> <p>Perceptions of HR professionals and managers</p>
Step 6 Visualization	<p>6.1 Create tables</p> <ul style="list-style-type: none"> • Descriptive statistics • Inferential statistics <p>6.2 Create graphs</p> <ul style="list-style-type: none"> • Bar charts • Line charts
Assumptions	<ul style="list-style-type: none"> • VRS implementation is the primary driver of changes in HR optimization metrics. • Other external factors (e.g., economic conditions, regulatory changes) are controlled
Stakeholders	<ul style="list-style-type: none"> • HR professionals • Managers • Executives

	<ul style="list-style-type: none"> • Researchers
Data Requirements	<ul style="list-style-type: none"> • HR metrics (employee productivity, retention, training cost efficiency, HR cost efficiency) • Demographic information (age, tenure, job role) • Perceptions of VRS impact on HR optimization
Sample Size	<ul style="list-style-type: none"> • Minimum 100 respondents • Ideal 200-500 respondents
Communication Plan	<ul style="list-style-type: none"> • Survey distribution Email, online survey platforms • Progress updates Bi-weekly meetings, email updates • Final report presentation Scheduled meeting with stakeholders
Timeline	<ul style="list-style-type: none"> • Literature review 2 weeks • Survey design and distribution 4 weeks • Data analysis and interpretation 6 weeks
Deliverables	<p>A comprehensive report detailing findings</p> <ul style="list-style-type: none"> • Visualizations (tables, graphs) • Recommendations for future research
Procedure for Survey Design	<p>Identify survey objectives (To Investigate the impact of VRS on HR optimization)</p> <p>Determine survey structure</p> <ul style="list-style-type: none"> • Demographic information • HR optimization metrics (pre-VRS, post-VRS) • Perceptions of VRS impact on HR optimization <p>Develop survey questions</p> <ul style="list-style-type: none"> • Multiple-choice questions • Likert scale questions • Open-ended questions <p>Pilot-test survey</p> <ul style="list-style-type: none"> • Validate survey questions • Ensure reliability and validity
Procedure for Data Analysis	<p>Clean and preprocess data</p> <ul style="list-style-type: none"> • Handle missing values • Normalize data <p>Conduct descriptive statistics</p> <ul style="list-style-type: none"> • Means • Standard deviations • Frequencies <p>Perform inferential statistics</p> <ul style="list-style-type: none"> • Regression analysis • ANOVA • Correlation analysis <p>Interpret results</p> <ul style="list-style-type: none"> • Evaluate significance • Discuss findings

Procedure for Visualization	<p>Create tables</p> <ul style="list-style-type: none"> • Descriptive statistics • Inferential statistics <p>Create graphs</p> <ul style="list-style-type: none"> • Bar charts • Line charts <p>Design visualizations for reporting</p> <ul style="list-style-type: none"> • Infographics • Dashboards
HR Optimization Metrics	<p>Employee productivity</p> <ul style="list-style-type: none"> • Sales per employee • Revenue per employee <p>Employee retention</p> <ul style="list-style-type: none"> • Turnover rate • Retention rate <p>Training cost efficiency</p> <ul style="list-style-type: none"> • Training cost per employee • Training ROI <p>HR cost efficiency</p> <ul style="list-style-type: none"> • HR cost per employee • HR ROI
Survey Questions	<p>Demographic information</p> <ul style="list-style-type: none"> • Age • Tenure • Job role <p>HR optimization metrics</p> <ul style="list-style-type: none"> • Pre-VRS metrics • Post-VRS metrics <p>Perceptions of VRS impact</p> <ul style="list-style-type: none"> • Likert scale questions • Open-ended questions <p>Data Collection Tools</p> <ul style="list-style-type: none"> • Online survey platforms • SurveyMonkey • Google Forms • Email Survey distribution <p>Data Analysis Software</p> <ul style="list-style-type: none"> • Statistical software-SPSS • Data visualization tools - Excel,
Timeline	<ul style="list-style-type: none"> • Survey design (2 weeks) • Data collection(4 weeks) • Data analysis(6 weeks) • Reporting (2 weeks)
Deliverables	<ul style="list-style-type: none"> • A comprehensive report detailing findings • Visualizations (tables, graphs) • Recommendations for future research • A presentation summarizing key findings
Risks and Mitigants	<ul style="list-style-type: none"> • Low response rate Follow-up emails, reminders • Data quality issues Data cleaning, validation • Limited generalizability Stratified sampling, weighting
Ethics and Confidentiality	<ul style="list-style-type: none"> • Informed consent Survey introduction, consent form • Anonymity No personally identifiable information was collected

	<ul style="list-style-type: none"> • Data security Password-protected files, secure storage
Tools and Techniques	<ul style="list-style-type: none"> • Survey design software (e.g., SurveyMonkey) • Statistical software (e.g., SPSS, R) • Data visualization tools (e.g., Tableau, Power BI)
Expected Outcomes	<ul style="list-style-type: none"> • Significant positive correlation between VRS implementation and HR optimization metrics • Improved employee productivity and retention post-VRS • Enhanced training cost efficiency and HR cost efficiency
Limitations	<ul style="list-style-type: none"> • Sample size • Response bias • Limited generalizability
Appendices	<ul style="list-style-type: none"> • Survey questionnaire • Data cleaning and preprocessing code • Additional tables and figures

Vertex- 3 Study the psychological impact of VRS on employees.

Research Design for Vertex-3

Quantitative and qualitative mixed-methods approach.

Survey design with questionnaires and interviews. The following table presents the procedure.

Procedure

Step 1	Literature Review	Identify key psychological impact metrics
		<ul style="list-style-type: none"> • Stress • Anxiety • Job satisfaction • Organizational commitment • Emotional well-being
		Review existing literature on VRS and its psychological impact
		<ul style="list-style-type: none"> • Academic journals • Industry reports • Case studies
Step 2	Survey Design	Develop questionnaire
		<ul style="list-style-type: none"> • Demographic information • Psychological impact metrics (pre-VRS, post-VRS) • Open-ended questions
		Pilot-test questionnaire
		<ul style="list-style-type: none"> • Validate questions • Ensure reliability and validity
Step 3	Sampling	Identify target population
		<ul style="list-style-type: none"> • Employees who opted for VRS • Employees who did not opt for VRS
		Determine sample size
		<ul style="list-style-type: none"> • Minimum 100 respondents • Ideal 200-500 respondents

		Sampling method <ul style="list-style-type: none"> • Stratified random sampling • Convenience sampling
Step 4	Data Collection	Distribute questionnaire <ul style="list-style-type: none"> • Email • Online survey platform
		Conduct interviews <ul style="list-style-type: none"> • Semi-structured interviews • Focus groups
Step 5	Data Analysis	Descriptive statistics <ul style="list-style-type: none"> • Means • Standard deviations • Frequencies
		Inferential statistics <ul style="list-style-type: none"> • Regression analysis • ANOVA • Correlation analysis
		Thematic analysis <ul style="list-style-type: none"> • Coding • Theme identification
Step 6	Interpretation	Evaluate significance <ul style="list-style-type: none"> • p-values • Confidence intervals
		Discuss findings <ul style="list-style-type: none"> • Psychological impact of VRS on employees • Comparison between employees who opted and did not opt for VRS
Step 7	Visualization	Create tables <ul style="list-style-type: none"> • Descriptive statistics • Inferential statistics
		Tools and Techniques <ul style="list-style-type: none"> • Survey design software (e.g., SurveyMonkey) • Statistical software (e.g., SPSS, R) • Data visualization tools (e.g., Tableau, Power BI) • Qualitative data analysis software (e.g., NVivo, Atlas.ti)
		Expected Outcomes <ul style="list-style-type: none"> • Significant psychological impact of VRS on employees • Differences in psychological impact between employees who opted and did not opt for VRS
Step 7	Limitations	Sample size <ul style="list-style-type: none"> • Response bias • Limited generalizability
	Ethics and Confidentiality	Informed consent <ul style="list-style-type: none"> • Anonymity • Data security

Timeline	<ul style="list-style-type: none"> • Literature review 2 weeks • Survey design 4 weeks • Data collection 6 weeks • Data analysis 8 weeks • Reporting 4 weeks
Deliverables	A comprehensive report detailing findings <ul style="list-style-type: none"> • Visualizations (tables, graphs) • Recommendations for future research • A presentation summarizing key findings
Implementation	<ul style="list-style-type: none"> • Primary data was collected through questionnaires, and secondary data was collected from published balance sheets. • Results/Discussions

The findings indicate

1. Significant improvements in profitability and productivity post-VRS implementation.
2. Positive correlations between VRS and HR optimisation metrics.
3. Significant negative psychological impacts on employees.

V. LIMITATIONS

1. Cross-sectional design, limited sample size, and focus on nationalized banks.
2. Future Enhancements
3. Longitudinal studies, comparative analysis across industries, and exploration of alternative workforce optimization strategies.

VI. CONCLUSION

Our proposed triangular analysis framework to unlock the multi-dimensional impact of Voluntary Retirement Schemes (VRS). By addressing the three vertices—profitability, HR optimization, and employee well-being—this framework enables a comprehensive understanding of VRS's implications. For profitability Vertex, Post-VRS, significant improvements were observed in metrics such as Return on Assets (ROA) and productivity. Reduced staff costs aligned with enhanced operational efficiency. For HR Optimization Vertex- Positive correlations emerged between VRS and HR metrics like employee productivity, retention, and cost efficiency, suggesting a streamlined workforce. For Employee Well-Being Vertex: Despite organizational gains, employees reported significant psychological challenges, including stress and diminished job satisfaction, underscoring the need for supportive interventions. The triangular approach offers a balanced evaluation, emphasizing the interconnectedness of organizational profitability, workforce optimization, and human-centric outcomes. Future studies should adopt longitudinal designs, expand cross-industry comparisons, and explore alternative strategies to mitigate adverse

psychological impacts. By integrating financial, operational, and human considerations, this framework aids stakeholders in crafting informed, equitable, and sustainable VRS policies.

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