

Enhancing Organizational Productivity through Effective Human Resource Planning in Tanzania's Public Sector

Cairo Mwaitete, PhD
Department of Economics,
Institute of Accountancy Arusha,
P.O. Box 2798, Tanzania
Email: mwaitetecairo@gmail.com

Abstract

Inefficient human resource planning remains a significant challenge in Tanzania's public sector, adversely affecting organizational performance. This study examines the impact of human resource planning (HRP) on organizational productivity, focusing on key HRP elements such as workforce planning, job analysis, recruitment, and training. Using a case study design and a mixed research approach, data were collected from a sample of 56 employees through structured questionnaires. The findings revealed a strong relationship between effective workforce planning, job analysis, recruitment strategies, employee training, and overall organizational performance. Based on the results, the study recommends the implementation of regular workforce planning to anticipate future needs, the use of diverse recruitment sources to attract qualified candidates, and prioritizing employee training and development to enhance skills and competencies. These measures are essential for improving organizational performance in Tanzania's public sector.

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1. Introduction

Human Resource Planning (HRP) is an essential management function that significantly contributes to organizational productivity, employee satisfaction, and national development. By ensuring the right people are placed in the right roles, HRP becomes a cornerstone of success for organizations globally, as human capital is one of the most critical assets (Anya, Umoh, & Worlu, 2017). Proper HRP aligns workforce capabilities with organizational goals, fostering an environment where productivity can thrive, leading to enhanced outcomes that contribute to economic growth and overall national development (Utouh & Kitole, 2024).

In the modern, highly competitive global marketplace, effective human resource management is a key factor in maintaining a competitive edge (Kitole et al, 2023; 2024). Many successful organizations attribute their achievements to strategic Human Resource Planning, which not only ensures the recruitment of skilled personnel but also emphasizes development and retention (Orbole, 2016; Elnaga & Imran, 2018). This results in sustained productivity, higher employee satisfaction, and improved organizational performance, ultimately benefiting both individuals and national economies by driving economic development and improving standards of living (Kitole & Sesabo, 2024).

In Africa, the significance of HRP became more pronounced between 2004 and 2006. However, challenges such as inadequate compensation, poor working conditions, and limited growth opportunities have hindered the effective recruitment and retention of skilled workers in many African countries (AAPAM, 2018). For instance, in Kenya, the expansion of the public sector led to overemployment, primarily due to the lack of proper HRP (KNBS, 2016). Edeh and Dialoke (2020) note that many organizations underperform because HR managers fail to properly identify and allocate talent, resulting in productivity losses that hinder broader national development goals.

In Tanzania, the government recognizes the importance of effective HRP at both national and organizational levels. It seeks to improve productivity in various ministries and departments by enhancing workforce management practices (Karia et al., 2016). Proper HRP can address issues of overstaffing, understaffing, and inefficient worker deployment, ensuring that employees with the right skills are placed in the correct roles. Such strategic workforce planning is crucial for increasing organizational productivity and achieving broader economic growth, contributing to national development and improved living standards.

Despite these initiatives, Tanzania's public sector continues to face challenges related to workforce productivity. Inefficient HRP practices lead to underperformance, as organizations often employ unqualified personnel due to a lack of focus on proper workforce planning (Hussein, 2019). This issue is especially prevalent in institutions like the National Social Security Fund (NSSF), where difficulties in aligning human resource supply with demand negatively impact productivity and organizational efficiency. Effective HRP is essential for ensuring that employees contribute optimally to both the organization's goals and national development (Kitole & Utouh, 2023).

Although several studies have investigated the relationship between HRP and organizational performance (Okonkwo, Okafor, & Essell, 2022; Suta, 2020; Mbiu & Nzulwa, 2018; Pamela, Umoh, & Worlu, 2017), few have explored its direct effect on organizational productivity. This study seeks to fill that gap by examining how HRP impacts productivity in Tanzania's public sector, aiming to provide insights into how improved HR practices can drive organizational success and contribute to national growth.

2. Empirical review

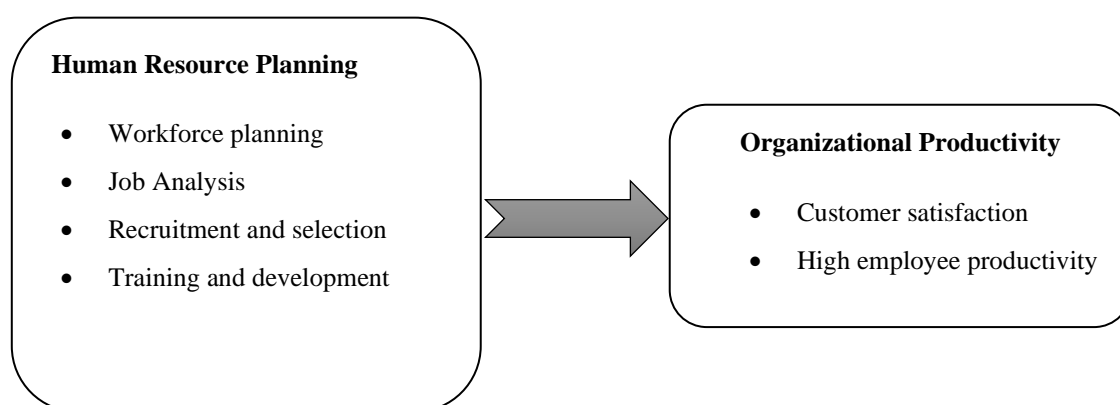
Tende and Alagah (2017) examined the influence of human resource planning on organizational productivity within fast food companies in Nigeria, employing questionnaires for data collection. Their findings revealed that both human resource planning policies and effective HR planning have a significant relationship with organizational productivity. However, this study focused on private companies, whereas the present research centers on public organizations, highlighting a gap in the existing literature regarding public sector dynamics.

Helavalada and Julius (2017) explored the significance of manpower planning for the effective utilization of human resources within organizations. Their study found that manpower planning enables organizations to make accurate estimates of the number of employees needed to achieve their goals, reduce employment waste, and address uncertainties in personnel levels. They also emphasized the need for organizations to be proactive in recruiting and retaining employees. However, the study did not establish a direct link between manpower planning and organizational productivity, leaving a gap in understanding its broader impact.

In Kenya, Mbiu and Nzulwa (2018) investigated the influence of human resource planning on employee productivity. Their study revealed a significant correlation between recruitment, deployment, training, talent retention, succession planning, and overall productivity. However, despite identifying these correlations, the study did not clearly explain how human resource planning directly influences employee productivity, leaving room for further exploration of these connections.

Similarly, Al-Qudah et al. (2014) conducted a study on the effect of human resource planning, training, and development on organizational performance in the Jordanian government sector. Using descriptive and correlation analysis, the study found that structured HR planning, along with training and development, significantly impacts organizational productivity. However, like the other studies reviewed, this research did not sufficiently explain the specific mechanisms through which HR planning affects productivity, indicating a need for further research in this area.

Figure 1 Conceptual framework



Source: Author's design, 2024

3. Methodology

This study employed a case study research design alongside a mixed-method approach, integrating both qualitative and quantitative data. Data collection was carried out at the National Social Security Fund (NSSF) in Dar es Salaam, using a structured questionnaire. The questionnaires were administered through a preliminary field investigation and self-

administration, ensuring that respondents had a clear understanding of the study's purpose. This approach allowed respondents to seek clarification on any aspects they found unclear, fostering better engagement with the research process.

The study population consisted of 125 NSSF staff members. A sample of 56 respondents was determined using Taro Yamane's (1967) sampling formula, with a 95% confidence level and a margin of error of 10%. This ensured the sample was both representative and reliable. To select the sample, a simple random sampling technique was applied, ensuring equal chances of selection from the different departments within NSSF. Additionally, the study utilized descriptive statistics and a Likert scale to analyze the collected data. To ensure the reliability of the questionnaire, Cronbach's alpha was calculated, yielding a value of 0.72, which indicated acceptable reliability (Dimoso & Andrew, 2021). Given the nature of the study, descriptive analysis was applied to interpret the findings.

4. Results and discussion

4.1 Description of respondents' characteristics

The demographic characteristics of the respondents in Table 1 indicate a diverse range of backgrounds in terms of age, gender, education, and work experience. The largest age group is between 39-48 years, representing 26.8% of the respondents, with other age groups being fairly well represented. Males account for the majority of the sample at 61%, while females make up 39%. Educational attainment is notably high, with 55% of respondents holding a bachelor's degree, followed by 23% with a master's degree. A smaller percentage have obtained certificates or diplomas, each accounting for 11%. In terms of work experience, the largest portion of respondents (37.5%) have been employed for 6-10 years, while 28.6% have 11-15 years of experience. A smaller group, 5.4%, has over 20 years of experience. This demographic diversity provides valuable insight into the varied perspectives of the respondents included in the study.

Table 4.1 Demographic Characteristics of respondents

Demographic Information	Frequency	Percentage
Age		
18 - 28 years	9	16.10
29 – 38 years	10	17.9
39 – 48 years	15	26.80
49 – 58 years	12	21.40
Over 59 years	10	17.9
Total	56	100
Sex		
Male	34	61
Female	22	39
Total	56	100
Level of education		
Certificate	6	11
Diploma	6	11
Bachelor's degree	31	55
Master's degree	13	23
Total	56	100
Working Experience		
1 to 5 years	11	19.6
6 to 10 years	21	37.5
11 to 15 years	16	28.6
16 to 20 years	5	8.9
21 years and above	3	5.4
Total	56	100

4.2 The effect of workforce planning on organizational productivity

The results in Table 2 indicate that 18 respondents (32.1%) strongly agreed, and 23 respondents (41.1%) agreed that their organization regularly forecasts future human resource needs. This finding suggests that the organization has a solid understanding of its human resource requirements and is capable of planning effectively to meet those needs. A study by Yang and Huang (2017) supports this by demonstrating that effective workforce planning enables organizations to align their human resource needs with their strategic goals, thereby enhancing productivity. Additionally, Bulla and Scott (1994) found that such planning helps organizations identify potential talent gaps and develop strategies to address them, ultimately leading to better productivity.

Furthermore, the data reveals that 17 respondents (30.4%) strongly agreed, and 20 respondents (35.7%) agreed that their organization has a clear understanding of the skills and competencies required for each job. This suggests that the organization can recruit the right individuals for each role, improving overall performance. Lee and Choi (2018) echo this finding, noting that organizations with a clear understanding of job requirements tend to experience better employee productivity, which in turn drives organizational success. Similarly, Lawler and Mohrman (2003) found that effective workforce planning ensures that the right people are in the right roles at the right time, contributing to improved productivity.

In addition, 20 respondents (35.7%) strongly agreed, and 18 respondents (32.1%) agreed that their organization proactively plans for changes in workforce demographics and labor market conditions. This indicates that the organization is responsive to evolving trends in the labor market and takes steps to address potential workforce impacts. Supporting this, Kekale et al. (2020) found that proactive workforce planning not only boosts productivity but also reduces labor costs, enhancing financial outcomes. Similarly, Tahir et al. (2021) highlighted that organizations that manage workforce demographics and market conditions effectively are better positioned to attract and retain top talent. These organizations are also more adaptable to changes in technology and globalization, further strengthening their competitiveness and productivity.

Table 4. 2 Effect of workforce planning on organizational productivity

Statements	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Our organization regularly forecasts future human resource needs	18(32.1%)	23(41.1%)	7(12.5%)	3(5.4%)	5(8.9%)
Our organization has clear understanding of the skills and competencies required for each job	17(30.4%)	20(35.7%)	8(14.3%)	6(10.7%)	5(8.9%)
Our organization plans for changes in workforce demographics and labor market conditions	20(35.7%)	18(32.1%)	8(14.3%)	4(7.1%)	6(10.7%)
Workforce planning enhance organizational productivity	24(42.9%)	18(32.1%)	6(10.7%)	4(7.1%)	4(7.1%)

Source: Field Computations, 2024

4.3 The effect of job analysis on organizational productivity

The results in Table 3 indicate that 23 (41.1%) of respondents strongly agreed, and 20 (35.7%) agreed that their organization has a well-defined job analysis process. This suggests that the majority of respondents believe their organization has a structured approach to conducting job analysis, which is essential for identifying the knowledge, skills, and abilities required for each position. A well-implemented job analysis process helps organizations make informed decisions in recruitment, selection, training, and development. Research by Kim and Lee (2021) supports this finding, as they identified a significant positive effect of job analysis on job productivity, ultimately enhancing organizational productivity. They emphasized the importance of regularly conducting job analyses to inform HR practices such as recruitment and training. Similarly, Choi et al. (2020) found that job analysis positively impacts employee engagement, which contributes to higher productivity. Their study suggests that organizations can leverage job analysis to foster engagement by identifying factors like job autonomy and meaningful work that drive employee motivation and output.

Furthermore, 18 (32.1%) of respondents strongly agreed, and 21 (37.5%) agreed that their organization uses job analysis to identify the required knowledge, skills, and abilities for each role. This highlights the role of job analysis in aligning employee competencies with job requirements. Chen, Wang, and Kao (2018) found that organizations that utilize job analysis for this purpose see improvements in job performance, satisfaction, and commitment, resulting in higher productivity. Additionally, Huang, Wang, and Tsai (2016) linked job analysis with organizational innovation, noting that clear job roles and responsibilities derived from job analysis can spur innovation within the organization.

Moreover, the results show that 17 (30.4%) of respondents strongly agreed, and 26 (46.4%) agreed that their organization regularly updates job descriptions and specifications based on job analysis. This suggests that many organizations actively use the insights from job analysis to inform HR decisions, ensuring job descriptions remain relevant and aligned with organizational needs. Kavanagh et al. (2019) found that regularly updating job descriptions based on job analysis positively influences employee satisfaction and organizational commitment, with organizations experiencing lower turnover rates as a result. Azeem et al. (2018) further illustrated that job analysis leads to increased employee productivity, as organizations that updated job descriptions and specifications saw improved workforce performance.

Lastly, 27 (48.2%) of respondents strongly agreed, and 20 (35.7%) agreed that job analysis promotes organizational productivity. This reinforces the idea that understanding job requirements through job analysis is critical to optimizing employee performance and organizational outcomes. Akdere and Kara (2021) found that job analysis significantly improves job performance, which translates into greater organizational productivity. Similarly, Al-Waqfi et al. (2020) highlighted that job analysis identifies the critical competencies required for each role, allowing organizations to tailor training programs and enhance employee productivity, ultimately contributing to overall organizational success.

Table 4. 3 Effect of job analysis on organizational productivity

Statements	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Our organization has a well-defined job analysis process	23(41.1%)	20(35.7%)	4(7.1%)	5(8.9%)	4(7.1%)
Our organization uses job analysis to identify required knowledge, skills, and abilities for each job	18(32.1%)	21(37.5%)	9(16.1%)	4(7.1%)	4(7.1%)
Our organization regularly updates job descriptions and specifications based on job analysis	17(30.4%)	26(46.4%)	4(7.1%)	3(5.4%)	6(10.7%)
job analysis promotes organizational productivity	27(48.2%)	20(35.7%)	2(3.6%)	1(1.8%)	6(10.7%)

Source: Field Computations, 2024

4.4 The effect of recruitment and selection on organizational productivity

The findings in Table 4 reveal that 25 (44.6%) of respondents strongly agreed, and 22 (39.3%) agreed that using multiple recruitment sources can be beneficial for finding the best candidates. This indicates that a majority of respondents believe in the effectiveness of diverse recruitment channels in attracting top talent. This aligns with the study by Hossain et al. (2020), which found that organizations using multiple recruitment sources, such as job boards, social media, and employee referrals, experienced better organizational performance. The use of varied recruitment methods was associated with a higher likelihood of hiring superior candidates, which supports the perception of 44.6% of respondents in the current study who strongly agreed with the benefit of using diverse recruitment sources.

Similarly, 53.6% of respondents strongly agreed, and 21.4% agreed that using valid and reliable selection methods is essential for assessing candidate qualifications and selecting the best candidates for the organization. This finding resonates with Chen and Wang's (2021) research, which showed that valid and reliable selection methods lead to improved organizational productivity. Their study emphasized the importance of using job-relevant, standardized, and objective methods to evaluate candidates, ensuring that the best-fit candidates are selected. The strong agreement from respondents in the current study reflects this belief, highlighting the significance of robust selection practices for organizational success.

Furthermore, 39.3% of respondents strongly agreed, and 37.5% agreed that having a well-defined recruitment and selection process is vital for attracting and selecting the best candidates. This is supported by Singh and Mehta (2018), who found that organizations with clear recruitment and selection guidelines were better able to attract and retain qualified candidates, which in turn contributed to higher organizational productivity. The structured approach to recruitment and selection enhances the likelihood of securing top talent, echoing the sentiments of respondents who believe in the value of a well-defined recruitment process.

Lastly, 48.2% of respondents strongly agreed, and 32.1% agreed that recruitment and selection practices positively impact organizational productivity. This finding aligns with a study by Ali et al. (2020), which established a positive correlation between effective recruitment and selection practices, employee productivity, and job satisfaction. Ali et al. highlighted the importance of using high-quality recruitment sources, such as employee referrals, and objective selection methods like structured interviews and cognitive ability tests. The respondents' general agreement in the current study underscores the belief that well-implemented recruitment and selection practices can significantly enhance organizational productivity.

Table 4.4 Effect of recruitment and selection on organizational performance

Statements	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Our organization uses a variety of recruitment sources to find the best candidates	25(44.6%)	22(39.3%)	0(0%)	1(1.8%)	8(14.3%)
Our organization uses valid and reliable selection methods to assess candidate qualifications	30(53.6%)	12(21.4%)	4(7.1%)	3(5.4%)	7(12.5%)
Our organization has a well-defined recruitment and selection process	22(39.3%)	21(37.5%)	6(10.7%)	5(8.95%)	2(3.6%)
increases organizational productivity	27(48.2%)	18(32.1%)	4(7.1%)	1(1.8%)	6(10.7%)

Source: Field Computations, 2023

4.5 The effect of training and development on organizational productivity

In Table 5, respondents were asked to rate their level of agreement with statements regarding training and development within their organization. A significant majority of respondents either strongly agreed (51.8%) or agreed (25%) that their organization provides opportunities for employees to enhance their skills and competencies through training and development. This suggests that many organizations acknowledge the value of investing in employee development as a means to improve both individual and organizational performance. Mone and London (2018) similarly found that organizations investing in employee training and development programs tend to experience higher levels of employee satisfaction and retention, as employees feel valued when their professional growth is supported. Additionally, Aguinis et al. (2021) highlighted that organizations prioritizing employee development often benefit from increased innovation and creativity, as training equips employees with new skills and perspectives they can apply to their work.

When asked about the variety of training and development methods used, 39.3% of respondents strongly agreed and 33.9% agreed that their organization employs a range of methods to cater to employees' diverse learning needs. This indicates an effort by organizations to customize training programs to meet the specific requirements of their workforce. Similarly, a study by Chen and Li (2020) found that technology-based training methods, such as e-learning and virtual reality, enhance employee learning outcomes and boost organizational productivity. DeRue et al. (2012) also suggested that job rotation, another form of training and development, can significantly improve employees' knowledge and skills while increasing job satisfaction and organizational commitment. Together, these findings reinforce the idea that a varied and strategic approach to training leads to better employee outcomes and overall organizational success.

Table 4.5 Effect of training and development on organizational productivity

Statements	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Organization provides employees with training and development opportunities to enhance their skills and competencies	29(51.8%)	14(25%)	3(5.4%)	3(5.4%)	7(12.5%)
Organization uses a variety of training and development methods to meet employee learning needs	22(39.3%)	19(33.9%)	5(8.9%)	4(7.1%)	6(10.7%)

Organization evaluates the effectiveness of training and development programs	22(39.3%)	20(35.7%)	6(10.7%)	4(7.1%)	4(7.1%)
Training and development improve employee productivity	23(41.1%)	19(33.9%)	8(14.3%)	5(8.9%)	1(1.8%)

Source: Field Computations, 2024

Additionally, the majority of respondents agreed (39.3%) or strongly agreed (35.7%) that their organization evaluates the effectiveness of its training and development programs. This indicates that organizations are taking proactive steps to ensure that their programs are achieving the intended outcomes and contributing to employee and organizational growth. Su et al. (2020) similarly found that evaluating the effectiveness of training programs had a positive impact on employee job satisfaction, commitment, and productivity. The study underscored the importance of regular assessments to ensure that training initiatives align with organizational goals. Furthermore, Nkomo et al. (2021) highlighted that training programs tailored to meet the diverse needs of employees resulted in higher levels of engagement and motivation, emphasizing the necessity of customizing training to address the unique challenges faced by different employee groups.

Moreover, 41.1% of respondents strongly agreed and 33.9% agreed that training and development improve employee productivity, reinforcing the idea that investing in employee development positively impacts organizational performance. Similar findings were reported by Al-Jabri and Sohail (2021), who demonstrated that training programs had a direct positive effect on employee productivity in the Omani banking sector, which in turn contributed to higher organizational productivity. A study by Kiptoo and Lagat (2021) in Kenya also supported this, showing that training and development in the banking sector significantly boosted employee productivity. They recommended that organizations continue to invest in employee development as a strategic tool to enhance both individual and organizational performance.

5. Conclusion

The findings from this study highlight the significant impact that effective human resource planning practices have on organizational productivity, particularly within the public sector. It is evident that workforce planning, job analysis, recruitment, selection, and employee training and development are critical components for enhancing productivity. A strong positive correlation was observed between job analysis and organizational productivity, emphasizing the importance of regularly conducting job analysis activities to align employee skills with organizational needs. Similarly, the positive relationship between recruitment and selection processes and organizational productivity underscores the necessity of strategic hiring practices to ensure that the right people are in the right roles.

The study also found that workforce planning, job analysis, recruitment, selection, and training and development positively affected the productivity of NSSF. These findings suggest that these human resource practices are essential in driving productivity and achieving organizational success. Furthermore, the majority of respondents identified the best human resource practices as including regular workforce planning to anticipate future needs, conducting thorough job analyses to determine the required skills and competencies for each role, and utilizing a diverse range of recruitment sources to find the best candidates.

Given these findings, NSSF should prioritize training and development programs tailored to enhance employee skills and competencies, as this is directly linked to improved productivity.

Additionally, NSSF should implement various training methods to address the diverse learning needs of their employees and regularly evaluate the effectiveness of these programs to ensure they achieve their intended goals. Lastly, NSSF should continue to conduct regular workforce planning activities and use valid and reliable selection methods to recruit skilled candidates, ultimately leading to a more competent and productive workforce.

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