International Journal of Scientific Research and Engineering Development-– Volume 8 Issue 5, Sep-Oct 2025
Available at www.ijsred.com

RESEARCH ARTICLE OPEN ACCESS

An Analysis of Unemployment Metrics in the Kenyan Economy, Using Economic Models to Propose Solutions, Reveals the Need for a Comprehensive Strategy to Address Labor Market Challenges

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Abstract:

Unemployment remains a profound challenge to Kenya's sustainable economic development and social stability. The problem is characterized by high rates of youth unemployment, underemployment, and a significant informal sector, presenting a complex issue that simple solutions cannot address. This paper analyses the key measures of unemployment in Kenya, highlighting the discrepancies between official statistics and the reality of underemployment and working poverty. It argues that tackling this multifaceted issue requires a move beyond traditional approaches to a synergistic economic model that integrates multiple theories. We propose a hybrid model combining elements of Lewis's Dual-Sector Model, Endogenous Growth Theory, and Matching Theory to address the structural, skill-based, and cyclical dimensions of the problem. The model's core prescriptions involve targeted public investment in catalytic sectors (via a Special Economic Zone model), a massive scale-up of digitized skills-matching platforms, and policy reforms to stimulate formal job creation in SMEs. The conclusion emphasizes that a successful strategy must be multi-pronged, evidence-based, and involve strong public-private partnerships to create productive and decent employment for Kenya's growing workforce.

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I. INTRODUCTION

1. Unemployment Measures as a Focus in Kenya's Economy

Kenya's unemployment situation is not captured by a single statistic but is better understood through a suite of measures that reveal its depth and complexity.

a) Official Unemployment Rate:

This is the most cited but often misleading measure. Kenya's national unemployment rate has hovered around 5-7% in recent years (KNBS, 2023). This relatively low figure is deceptive because it defines unemployment narrowly: individuals who did not work for pay or profit for at least one hour in the reference week, were available for work, and actively sought work. This definition fails to capture the true nature of the labor market.

b) Underemployment:

This is a critical measure for Kenya. It includes:
Visible Underemployment: People working fewer hours than they are willing and available to work.
Invisible Underemployment (Disguised Unemployment): People working in jobs where their skills are underutilized or whose productivity is exceptionally low. Many university graduates working in low-skill informal jobs fall into this category.

c) The Informal Sector ("Jua Kali"):

Over 80% of employment in Kenya is in the informal sector (ILO, 2022). While this sector provides a crucial livelihood safety net, it is characterized by low and irregular incomes, lack of social protection (pensions, health insurance), poor working conditions, and low productivity. Measuring employment here is challenging, but its

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dominance signifies an economy struggling to create sufficient quality formal jobs.

d) Youth Unemployment:

This is Kenya's most pressing economic and social challenge. Young people (18-35 years) account for a significant portion of the unemployed and underemployed. The rate of unemployment for this group is significantly higher than the national average, estimated to be over 3x higher, contributing to social ills and political instability.

e) Labour Force Participation Rate:

This measures the proportion of the working-age population that is either employed or actively seeking employment. A low or declining rate can indicate discouragement, where people have given up looking for work and are thus no longer counted as unemployed.

Why it's a Focus: High unemployment and underemployment lead to:

- Lost GDP and Reduced Tax Revenue: A waste of human capital and productive potential.
- Increased Poverty and Inequality: Lack of income perpetuates cycles of poverty.
- Social Unrest and Crime: Idle youth are a risk factor for instability and criminal activity.
- Political Instability: Economic desperation can erode trust in government and democratic institutions.

2. Addressing Unemployment Through an Integrated Economic Model

No single economic model can fully address Kenya's unemployment. A pragmatic, integrated approach is necessary.

Proposed Hybrid Model: A Three-Pronged Approach

This model synthesizes core ideas from several economic theories to tackle the supply side (workers), demand side (employers), and the market frictions between them.

Pillar 1: Structural Transformation via a Modernized Dual-Sector Model (Lewis Model)

Theory: Arthur Lewis proposed an economy with a traditional, low-productivity agricultural sector and a modern, high-productivity industrial sector. Development occurs by transferring surplus labor from traditional to modern sectors.

Application for Kenya: The goal is to accelerate the movement from low-productivity informal work to higher-productivity formal work. However, instead of just traditional manufacturing, the "modern sector" must include:

- Agro-processing: Adding value to agricultural products (e.g., processing fruits into juices, packaging horticulture).
- Light Manufacturing: Textiles, assembly of electronics, and construction materials.
- Digitally Enabled Services: Business Process Outsourcing (BPO), freelance digital work, and software development.

Policy Action: The government must act as a catalyst through Targeted Public Investment in infrastructure (reliable electricity, transport, and broadband internet) and the creation of Special Economic Zones (SEZs) with tax incentives, reduced bureaucracy, and shared infrastructure to attract investment into these modern sectors.

Pillar 2: Boosting Labor Demand with Endogenous Growth Theory (Romer Model)

Theory: Paul Romer's model posits that economic growth is generated from within (endogenously) by investments in human capital (education), innovation, and knowledge.

Application for Kenya: Kenya cannot compete on cheap labor alone. It must compete on skills, innovation, and productivity.

Policy Action:

Education Reform: Align curricula with market needs (STEM, digital literacy, technical and vocational skills - TVET).

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Support for SMEs: Small and Medium Enterprises are the biggest job creators. Provide easier access to affordable credit, business development services, and link them to larger markets. Models like table banking and venture debt are crucial.

Foster Innovation: Strengthen the "Silicon Savannah" ecosystem by supporting tech hubs, incubators, and providing R&D tax credits for firms.

Pillar 3: Reducing Market Frictions with Matching Theory (Pissarides Model)

Theory: Christopher Pissarides' work highlights that unemployment exists even in healthy economies due to frictions—it takes time and resources for workers to find suitable jobs and for firms to find suitable workers.

Application for Kenya: This is a major issue. Graduates don't know where the jobs are, and employers can't find skilled talent.

Policy Action: Invest in a national, digitized Labour Market Information System (LMIS). This would be a platform for:

- Job listings and applications.
- Skills databases for job seekers.
- Data analytics to identify skills gaps and inform education policy.

This reduces search costs and time, dramatically improving the efficiency of the labor market.

3. Conclusion

Addressing unemployment in Kenya requires a rejection of siloed thinking. The problem is structural, skills-related, and frictional all at once. The proposed integrated model provides a framework for simultaneous action: stimulating quality job creation in high-potential sectors, upgrading the skills of the workforce to meet the demands of a modern economy, and using technology to efficiently connect workers to jobs. The government's role is to create a conducive environment, the private sector's role is to invest and create jobs, and educational institutions' role is to produce relevant talent. Through such a coordinated, multi-pronged strategy, Kenya can harness its demographic dividend and unlock sustainable and inclusive economic growth.

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