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IZA DP No. 14350

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ABSTRACT

Assessing Gender Gaps in Employment and Earnings in Africa: The Case of Eswatini

Persistent gender gaps characterize labor markets in many African countries. Utilizing Eswatini's first three labor market surveys (conducted in 2007, 2010, and 2013), this paper provides first systematic evidence on the country's gender gaps in employment and earnings. We find that women have notably lower employment rates and earnings than men, even though the global financial crisis had a less negative impact on women than it had on men. Both unadjusted and unexplained gender earnings gaps are higher in self-employment than in wage employment. Tertiary education and urban location account for a large part of the gender earnings gap and mitigate high female propensity to self-employment. Our findings suggest that policies supporting female higher education and rural-urban mobility could reduce persistent inequalities in Eswatini's labor market outcomes as well as in other middle-income countries in southern Africa.

JEL Classification: J16, J21, L26, O12

Keywords: gender, employment, income, multivariate analysis, policies

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1. Introduction

Countries cannot develop sustainably and reach their potential unless women, who represent half of the population, have equal access to education and productive opportunities as do men. Beyond the fairness aspect, the academic and policy-oriented literature has emphasized the economic arguments for gender equality, underscoring that women bring into the workforce different skills and perspectives that complement those of men (Ostry et al., 2018). With the analysis pointing to economic benefits of closing gender gaps in labor markets, policymakers in Africa (and elsewhere) have strived to promote inclusive growth and female economic empowerment.

Today most Sub-Saharan Africa (SSA) policymakers view gender equality as a key priority for sustainable development. Yet many SSA countries, including Eswatini, continue to experience sizeable gender gaps. Eswatini is among the bottom quarter of countries globally on the gender inequality index, having ranked 148 out of 189 in 2019 (UNDP, 2020). Women in Eswatini have relatively low labor force participation as well as lower access to resources and economic opportunities than men. They are also less represented in government leadership (Tsododo, 2014). Moreover, according to the UNICEF, Eswatini still has the highest HIV prevalence in the world with a prevalence rate of 27% among adults (15-59), with women being more impacted.²

The academic literature links lifting restrictions on female economic participation with higher growth. Specifically, using cross-country and panel regressions, Klasen (2002) showed that gender inequality in education reduces long-term growth through lower investment in human and physical capital. Extending this analysis, Klasen and Lamanna (2003) posited that gender gaps in employment tend to have bigger effect than gaps in education. Stotsky (2006) documented that reducing gender gaps may not only promote economic growth, but contribute to macroeconomic stability. Utilizing a broader measure of inequality, Amin et al. (2015) showed that in low-income countries greater gender inequality is associated with lower economic growth. Hakura et al. (2016) confirmed this finding and showed that policies that raise the opportunities of low-income households and women to participate in economic activities can contribute to alleviating inequalities.

In contrast, Ruiters and Charteris (2020) found that in South Africa, higher development was associated with female labor force participation more equal to the male one, but gender equality in labor force participation was not linked with higher economic growth. They have concluded that since development is a slow and long-term process, the government should intervene directly in the labor market to support higher female labor force participation. Such intervention would need to be accompanied by measures to incentivize women to enter technical fields and also provide child-care facilities.

¹ Various studies have documented the linkages between gender equality and economic outcomes as well as impacts of gender gaps in education, labor markets and political participation on growth, productivity, and societal well-being (Klasen, 2006; Cuberes and Teignier-Baqué, 2011; Schober and Winter-Ebmer, 2011; Duflo, 2012; World Bank, 2012; Dieterich et al., 2016; Hakura et al., 2016;).

² Specifically, young women (15-24) were 5 times more likely to be infected with HIV than their male counterparts, according to the UNICEF.

Several African countries have made strides in some areas of gender inequality (e.g., Rwanda and South Africa on female representation in middle-management, Liberia on legal protection of women). However, overall progress in the region has stalled in the past several years in most areas, including in the labor market (McKinsey, 2019). In this paper, we document critical gender gaps and their trends over time in the labor market in Eswatini, a small middle-income country which has one of the highest unemployment rates and one of the lowest female labor force participation rates in southern Africa (SADC, 2018).

Labor market survey data from African countries are scarce; until several years ago none was available for Eswatini. The analysis in this paper utilizes the first three Eswatini Labor Force Surveys from 2007, 2010, and 2013 (LFS 2007, 2010, 2013), allowing for identification of trends between 2007 and 2013, which includes the global financial crisis. Our cross-sectional dataset provides, among other things, information on human capital of individuals as well as on personal and job characteristics, including working hours or professional field. This enables us to explore, for example, whether women earn less than men because of their productivity-related attributes or because they work in different sectors. Besides the labor force surveys, we utilize in Section 2 databases of the International Monetary Fund (IMF), the World Bank and the United Nations (UN). The purpose is to conduct regional comparisons and to assess Eswatini's labor market outcomes in the context of overall macroeconomic developments.

We statistically investigate the drivers of the unequal labor market outcomes and draw policy recommendations. we explore the hypothesis that women in Eswatini have higher odds than men of being self-employed rather than wage employees in a multivariate logit regression. To quantify the factors behind the gender earnings gap we utilize an Oaxaca-Blinder decomposition (Blinder 1973; Oaxaca 1973) of male and female earnings. We find that while women in Eswatini are over-represented among self-employed, their returns on this activity are markedly lower than those of men, suggesting that women opt for self-employment out of necessity rather than to pursue profitable entrepreneurial opportunities.

This paper thus contributes to the literature on labor markets in southern Africa with the first systematic analysis of the gender gaps in the labor market in Eswatini. By shedding light on some factors contributing to the gender disparities in the labor market, the paper provides basis for evidence-based policies. Given the availability of data during 2007 – 2013, it also illustrates the impact of the global financial crisis on the labor market of a small, middle-income and land-locked economy. It is thus relevant for other middle-income countries in southern Africa, including poorer regions of South Africa, which aim to reach inclusive growth amid volatile fiscal revenues, high unemployment and income inequality (Jauch, 2011). In the 21st century, a series of shocks such as the global financial crisis, the commodity price shock and recently the COVID-19 pandemic amplified inequalities in labor markets, including alongside the gender dimension (World Bank, 2012; Wenham et al., 2020; International Labour Organization, 2020). With gender inequality in economic opportunities on the global policy agenda, the paper can also inform policy debates on addressing gender disparities in Africa and other developing regions.

The rest of this paper is organized as follows. Section 2 summarizes key facts about the gender gaps in the Eswatini's labor market outcomes. Section 3 statistically investigates drivers of female self-employment as well as contributors to the gender gap in wages and income from self-employment. Section 4 concludes and draws policy recommendations.

2. Key trends in the labor market outcomes of women

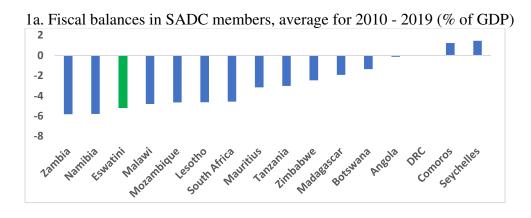
This section analyzes the macroeconomic context and the key features of the labor market in Eswatini that impact women based on the country's first three Eswatini's labor force surveys (2007, 2010 and 2013) collected by the Eswatini Statistical Office. The survey data is based on representative samples and contains information such as status of employment, hours of work, earnings as well as a socio-economic background of respondents. To analyze macroeconomic trends, we draw on data of the IMF, World Bank and UN.

2.1 Macroeconomic context

Eswatini is a small, lower-middle-income country in southern Africa, with an area of approximately 17,360 km² and a population of about 1.2 million. According to the World Bank indicators, Eswatini relies on South Africa for 85% of its imports and 60% of its exports. Over the past twenty years, the country has exhibited a volatile, but mostly low economic growth. Despite being classified as a middle-income country, the World Bank estimates that about 40% of the population lived below the poverty line of \$1.90 (PPP) a day in 2017, making Eswatini more akin to a low-income country.³

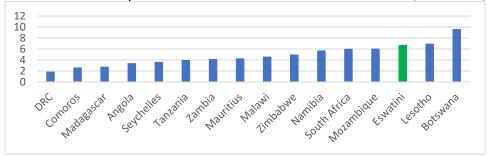
Eswatini is part of a Common Monetary Area, together with South Africa, Lesotho, and Namibia. While this arrangement helps the country manage inflation, it reduces room for a monetary policy response to shocks and makes fiscal policy the primary counter-cyclical tool available. However, macroeconomic policy has been restricted by low budgetary space due to high spending, with a large share of outlays going into public sector wages. The government budget relies heavily on revenues from the Southern Africa Customs Union (SACU), which hampers the effective implementation of counter-cyclical policies.

Figure 1. Eswatini's fiscal challenges

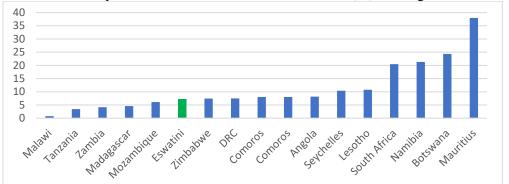


 $^{^3}$ World Bank provides Eswatini overview at: $\underline{www.worldbank.org/en/country/eswatini/overview}$.

1b. Government expenditures on education in SADC members (% of GDP)



1c. Gross tertiary enrollment rates in SADC members (%), average of the last 10 years



Source: World Bank Development Indicators and IMF World Economic Outlook databases. **Note:** DRC for Democratic Republic of Congo.

In the past ten years, the government has periodically experienced liquidity pressures, forcing it to borrow from the central bank or making abrupt expenditure cuts including in priority capital and social areas. Domestic revenue mobilization capacity remains low, as evidenced by the lowest total revenues-to-GDP ratio in the SACU group, with majority revenues (and foreign exchange receipts) coming from the SACU. Despite the high outlays on education (over 7% of GDP and around 20% of total fiscal expenditures), gross tertiary enrollment rates remain relatively low (Figure 1).

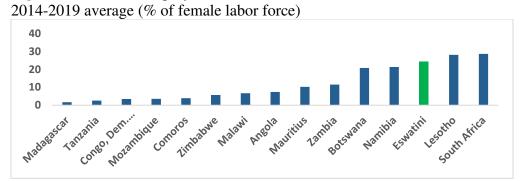
2.2 High and rising female unemployment

Eswatini continues to have one of the highest female unemployment rates in the Southern African Development Community (SADC) and on the continent (Figure 2). Even though the female unemployment started from a higher level than the unemployment rate of men, it rose during 2007 - 2013 by five percentage points, notably more than the unemployment rate of men (Table 1). As a result, the gender gap in unemployment that existed before the global financial crisis has widened. These developments, together with persistently high unemployment in recent years, suggest that the structural factors play an important role.

Further, if we count discouraged workers among the unemployed, a gap in unemployment emerges already among young men and women, which widens further for young adults (ages 25 - 34). Moreover, youth unemployment rates are particularly high if we include the discouraged workers (i.e. those who left the labor market because they did not see

prospects for finding a job) among the unemployed. With this perspective, more than two-thirds of young women (ages 15-24) in Eswatini are unemployed (Table 2).

Figure 2. Female unemployment rates in SADC members



Source: World Bank Development Indicators, ILO estimates.

Table 1. Overall labor market outcomes in Eswatini, by gender, 2007, 2010 and 2013

	Unemployment (% of labor force)	Employment (% of po	Labor force	Self-employment (% of employment)	
	(76 Of Tabol Torce)		2007	(% of employment)	
Men	24.0	46.4	61.0	15.6	
Women	30.3	32.5	46.6	28.3	
Stat. significance of difference between men and women	***	***	***	***	
			2010		
Men	22.5	38.4	49.3	14.1	
Women	29.4	32.2	45.3	27.2	
Stat. significance of difference between men and women	***	***	***	***	
			2013		
Men	27.4	38.8	53.4	20.7	
Women	35.5	28.9	44.8	30.0	
Stat. significance of difference between men and women	***	***	***	**	

Source: Authors' calculations based on the Eswatini Labor Force Surveys. ***, ** and * respectively denote significance at 1%, 5% and 10%.

Table 2. Unemployment including discouraged workers, (% of relevant labor force)

	Male	Female	Total	Male	Female	Total
		2007			2013	
Total (15+)	31.1	42.9	36.8	37.1	46.5	41.8
Youth (15 - 24)	59.2	66.7	63.2	61.6	70.6	66.2
Young Adults (25 - 34)	26.7	39.4	32.8	39.2	50.7	44.9
Adults (35 +)	18.7	31.7	24.9	23	31.7	27.2

Source: Authors' calculations based on the Eswatini Labor Force Surveys.

Women with no or only primary education have much lower employment rates than men (27% employment rate for women and 39% for men in 2013) and are also over-represented among the unemployed relative to their more educated counterparts (Table 3). Moreover, a lower difference between employment rates among primary and secondary school graduates among women (5 percentage points for women vs. 9 percentage points for men in 2013) points to lower rates of return to high school education for women than for men.

Table 3. Employment (% of work, age pop. with relevant education), by gender

* * ·	Duinessure	Carandana	Tantiana
	Primary	Secondary	Tertiary
		2007	
Men	37.6	51.1	72.9
Women	26.3	36.8	69.5
Stat. signif. of diffference	***	***	
		2010	
Men	30.2	44.8	76.0
Women	25.1	35.5	68.1
Stat. signif. of diffference	***	***	**
_		2013	
Men	38.7	47.6	76.6
Women	27.0	32.5	69.8
Stat. signif. of diffference	***	***	**

Source: Authors' calculations based on the Eswatini Labor Force Surveys. ***, ** and * respectively denote significance at 1%, 5% and 10%

The long duration of unemployment is another characteristic of the Eswatini labor market, especially among women. In 2010, a staggering 59% of women of working age were available for work for more than two years (Eswatini Ministry of Labor, 2011).

Regarding the transmission of the global financial crisis to the Eswatini's labor market (mostly through South Africa), Figure 3 shows that the overall impact was more sizeable on men than women. In particular, the total employment rate for men showed a significant decline, while the structure of employment shifted towards self-employment.

10 ■ Men ■ Women 5 0 -5 -10

Figure 3. Changes in labor market outcomes, in percentage points, from 2007 to 2013

Source: Authors' calculations based on the Eswatini Labor Force Surveys. Note: pp = percentage points.

labor force

(pp of pop.)

self-employment

(pp of empl.)

employment

(pp of pop.)

unemployment

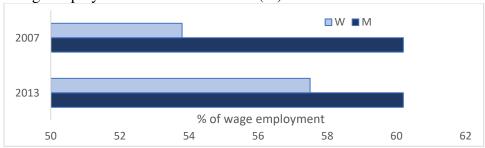
2.3 Female labor force participation and labor market outcomes

Regarding the transmission of the global financial crisis to the Eswatini's labor market (mostly through South Africa), Figure 3 shows that the impact was more sizeable on men than on women. In particular, the total employment rate for men showed a significant decline, while the structure of employment shifted towards self-employment.

Despite some reduction in the gender gap, Eswatini's women still post both higher levels of unemployment and lower labor force participation than men. The female labor market outcomes are also weaker than those of other countries in the region, with Eswatini having the lowest female labor force participation in the SADC, according to the SADC Gender Protocol Barometer 2018. In 2018, the country also recorded the widest gender gap in the labor force participation in the SADC, pointing to women-specific barriers to labor market participation (43% labor force participation for women and 67% for men).

Women's labor market outcomes are less favorable than those of men also in terms of the quality of jobs and in particular the security of jobs. Specifically, a lower share of women in wage employment than men have formal contracts, although the gender gap has narrowed during 2007 - 2013 (Figure 4). The small percentage of women with formal contracts implies that women's jobs are not only less secure but also less protected by the labor code or less protected against health risks than those of men. These differences start emerging already among the youth (Brixiová and Kangoye, 2014).

Figure 4. Security of wage employment, by gender, 2007 and 2013 Share of wage employees with formal contract (%)



Source: Authors' calculations based on the Eswatini Labor Force Surveys.

Relatedly, women are less likely than men to work in relatively stable sectors such as the formal sector than in the informal sector. These disparities in employment quality between men and women emerge already among youth and widen with age. For young adult women (ages 15–24), the employment gap in the private sector employment is, in part, compensated by a higher share of women working in the public sector. Still, these ratios are reversed in the 35+ age group (Table 4).

As in many SSA countries, women's labor force participation in Eswatini is below that of men in most age categories (Figure 5). Since the labor force participation has declined between 2007 and 2013 for men but not for women, the gender gap has somewhat narrowed. This is in part due to the nature of the shock exhorted by the crisis, where sectors with a high share of men in employment (e.g., manufacturing) were particularly impacted.

However, according to the SADC Gender Protocol 2018 Barometer, the gender gap has widened again since then, and in 2018 may have exceeded the 2007 level (SADC, 2018).

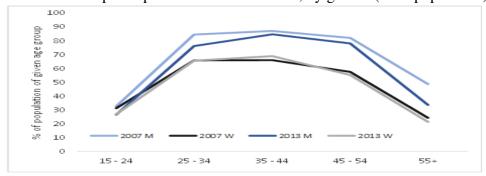
Table 4. Sectoral distribution of employment, by gender and age, 2007

(% of total employment in each age category)

		0 0	/			
	15 - 24		25 - 34		35+	
	Men	Women	Men	Women	Men	Women
Public	9.9	10.2	17.4	22.6	27.2	26.5
Formal private	77.3	69.1	71.3	58.8	60.4	36.9
Informal private	9.5	16.6	10.3	15.5	11.7	32.8
Domestic workers	3.2	4.1	1.1	3.1	0.7	1.8

Source: Authors' calculations based on the Eswatini Labor Force Surveys.

Figure 5. Labor force participation in 2007 and 2013, by gender (% of population)



Source: Authors' calculations based on the Eswatini Labor Force Surveys.

2.4 Rising female migration

Besides discouragement, the low female labor force participation may be partly driven by the emigration of Eswatini citizens abroad, especially to South Africa, and remittances these migrants send back home. As shown in Table 5, in 2020, Eswatini received an estimated \$98 million of official remittances (equivalent to 2.7% of its GDP), making it the third largest recipient of remittances in terms of their share in GDP in the region, after Lesotho (20.6%), and Zimbabwe (9.9%). Furthermore, these official remittances inflows do not account for informal remittances.

Table 5. Official remittance inflows to Eswatini and other countries in the region

Countries	Remittances (million US\$)	Remittances % GDP
Eswatini	98	2.7
Botswana	43	0.3
Lesotho	398	20.6
Malawi	219	1.5
Mozambique	189	2.3
South Africa	840	0.3
Zambia	91	0.5
Zimbabwe	1,730	9.9

Source: World Bank (2020).

The lack of economic opportunities resulting in high unemployment rates has led to a relatively high migration from Eswatini. The 2018 Afrobarometer survey indicates that about a quarter of Eswatini citizens have emigrated abroad in recent years and that another similar share intend to do so.⁴ The driving reason is the job search. For several decades, South Africa has been the primary destination of Eswatini's job-searching migrants (Harington et al. 2004). For low-skilled and semi-skilled male migrants, working in the mining industry was the main path to formal employment in South Africa. These migrants were recruited under a temporary labor scheme, i.e., on a short-term and contractual basis, which means they would often return home.

Eswatini's low female labor force participation could also be related to remittances. Several studies found that remittances reduce labor force participation in receiving countries.⁵ More remittances received would lead to higher reservation wage of the recipients and to lower probability that they would participate in the labor force (Azizi, 2018).⁶

In the last decade, trade unions were able to negotiate more flexible contracts for migrant workers from Eswatini in South Africa. As a result, migration rose, with migrants returning home more frequently (therefore still being counted in the country's working age population and the labor force). Given the high female unemployment and that Eswatini's labor market provides even fewer job opportunities than that of South Africa, Swazi female emigration to South Africa exceeds the rate of typical SSA countries. Even though half of the female migrants from Eswatini to South Africa have tertiary education, most are employed in services such as retail trade in the informal sector (World Bank, 2016).

3. An Analysis of Gender Gaps in Self-Employment, Self-Employment Earnings and Formal Wages

This section statistically investigates drivers of female self-employment, using logit regressions, as well as factors behind the gender gap in wages and income from self-employment, through Oaxaca-Blinder decomposition.

3.1 Gender disparities in self-employment

Women in Eswatini, especially those with less than tertiary education, are disproportionally represented among self-employed (Table 6). This applies especially to women with primary or no education: while overall self-employment accounted for about 30% of total female employment, for women with primary or lower education, the shares were 37.3% and 42.8% in 2007 and 2013, respectively. The increased share of self-employment among less educated women in 2013 reflected both the adjustment to the shock of the global financial crisis and structural factors, in particular limited job creation in the formal sector.

10

⁴ Afrobarometer (2018) survey for Eswatini provides some highlights on views/perception towards emigration. The survey covers a nationally representative sample of 1,200 individuals.

⁵ Cox-Edwards and Rodriguez-Oreggia (2009) found that labor force participation depends on reservation wage. In turn, non-labor income, including remittances, is a key determinant of the reservation wage.

⁶ Azizi (2018) found that remittances lower labor force participation of women but not men.

Table 6. Share of employed with tertiary education, by gender and type of employment,

	Wage employment	Self-employment
(% of rele	evant employment, a	ges 15 +)
		2007
Men	15.4	14.7
Women	21.6	5.9
Stat. significance of difference	***	***
		2010
Men	17.0	15.6
Women	21.6	6.3
Stat. significance of difference	**	***
		2013
Men	23.6	13.9
Women	27.7	7.8
Stat. significance of difference	**	***

Source: Authors' calculations based on the Eswatini Labor Force Surveys. **, ** and * respectively denote significance at 1%, 5% and 10%.

We explore further the drivers of female self-employment in the logit regressions (Table 6), which estimates the effect of the explanatory variables on the odds that people will become self-employed rather than wage employees. It takes the following form:

$$Pr(Self - employed_i) = \alpha + \gamma Personal\ char. + \psi Household\ related\ char. + \delta Location + v Education + \varepsilon_i(1)$$

The vector of personal characteristics comprises gender, age, and citizenship, while the household-related vector contains dummy variables indicating whether the person is head of the household and their marital status. The vector of location characteristics captures whether the person lives in an urban area or in Manzini (the country's business center) and if they have been living in the location since birth. The hypothesis is that people who moved into the area (migrants) are more likely to be self-employed, in line with Harris-Todaro labor mobility theory (Fields, 2007). The vector of educational characteristics includes dummy variables for secondary and tertiary education. All variables are defined in Appendix I while the key descriptive statistics are in Appendix II.

Table 7. Gender and self-employment (logit regressions; dependent var. is self-employed = 1)

	(1)	(2)	(3)
	2007	2010	2013
Personal characteristics			
Gender (women=1)	0.90***	0.91***	0.35**
	(0.1)	(0.11)	(0.09)
Eswatini citizen	-1.32***	-1.33***	-0.66**
	(0.21)	(0.19)	(0.30)
Age (in years)	0.04*	0.06***	0.033*
	(0.02)	-0.02	(0.02)
Age (in years squared)	0.00	0.00	0.00
	(0.0)	(0.0)	(0.0)
Household-related characteris	stics		
Head of household	0.16	0.09	-0.15
	(0.11)	(0.11)	(0.11)
Marital status (married=1)	0.21**	0.35***	0.04
	(0.1)	(0.1)	(0.1)
Mobility, location			
Urban location (urban=1)	-0.29***	-0.34**	-0.45***
	(0.1)	(0.11)	(0.11)
Manzini resident	0.25***	0.27***	0.37***
	'(0.09)	(0.10)	(0.09)
Migrant (moved into area=1)	-0.02	-0.07	-0.03
	(0.11)	(0.11)	(0.09)
Education			
Secondary	-0.16*	-0.27***	-0.25**
	(0.09)	(0.1)	(0.1)
Tertiary	-0.90***	-1.10***	-1.21***
	(0.15)	(0.16)	(0.14)
Intercept	-1.76***	-2.25***	-1.46***
	(0.46)	(0.41)	(0.49)
Obs	3561	3267	3376
Pseudo R ²	0.075	0.093	0.085

Source: Authors' estimations based on the Eswatini Labor Force Surveys. Note: Robust standard errors are under parentheses; ***, ** and * respectively denote significance at 1%, 5% and 10%

We find that being a woman (variable gender is set to 1) has a positive and statistically significant association with the odds of self-employment relative to wage employment (Table 7). Several personal characteristics, namely age, being married, and being a foreign national also have a positive and statistically significant association with self-employment. In contrast, secondary and especially tertiary education as well as living in an urban area enter negatively in all the regression specifications, which is associated with lower odds of

being self-employed.⁷ Put differently, educated women are more sought-after employees, while living in urban areas increases opportunities for wage employment.

Our findings that education reduces odds of self-employment are similar to those of Dieterich et al. (2016) who, utilizing household survey data, analyze drivers of gender gaps in five SSA countries. They illustrate that education can serve as an escape route from low productivity agricultural employment and poverty towards wage employment in the formal sector. However, household responsibilities that arise for married women may reduce wage for women with higher education. The authors also found that while self-employment in household enterprises offers women another escape venue, the women's gains in income per capita are below those of men. They underscore the need for analyzing labor markets beyond the aggregate figures and examine in detail self-employment.

3.2 Gender gaps in wage and self-employment earnings

Besides gaps in employment, unemployment and labor force participation, gender gaps persist in earnings. In this section, we explore the gender-based differences in income from wage employment and self-employment.

The labor force data shows that the gap between the average wages from employment among men and women at the economy-wide level amounted to about 13% (of average men's wages) in 2007 and increased to 25% by 2013. The income gap is more pronounced for the self-employed, with female income amounting on average to less than 40% of male income (Figure 6). Since a larger share of women than men are discouraged workers, as evidenced in Tables 1 and 2 presented earlier in this paper, the unadjusted figure underestimates the actual income gap from the perspective of women's earnings potential.

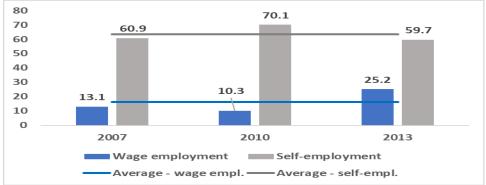
Regarding the distribution of the gender gap across different levels of income, Figures 7 and 8 show the nonparametrically estimated densities of log wage and log income from self-employment for men and women aged 15 years and higher, respectively. While the gender wage gap is relatively narrow at high-income ranges (Figure 7), it is more sizeable in low paying sectors such as trade or social services, where women mostly work (Eswatini Ministry of Labour and Social Security, 2014). In traditional high-earning fields such as finance, men earn more than women. In contrast, women's earnings exceed those of men in transport and construction, but those are fields where female presence accounts for small shares of total employment. Figure 8, which focuses on self-employment income, also reveals an unadjusted income gap in both 2007 and 2013. In contrast to wage employment, the gap is present throughout the entire distribution, including a high-income range, and is notably larger than the gap from waged employment.

⁸ Ganguli et al. (2014) showed that 'the marriage gap' (the labor force participation gap between married and single women) and the 'motherhood gap' vary widely across countries.

13

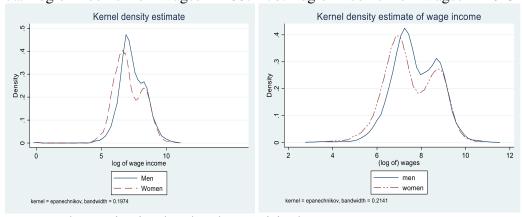
⁷ As we believe that variation in gender ratios is driven mostly by exogeneous factors and is not subject to mismeasurement, it's unlikely that the results on gender suffer from endogeneity bias. The relatively limited variety of variables makes it difficult to devise a solid instrumental variable-based estimation strategy.

Figure 6. Gender gaps in earnings, 2007, 2010 and 2013 (in % of male income)



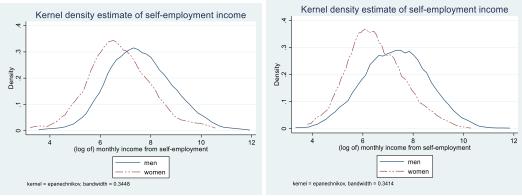
Source: Authors' calculations based on the Eswatini Labor Force Surveys.

Figure 7. Kernel density estimate of (log of) income from wage employment, by gender 7a. Log of income from wages in 2007 7b. Log of income from wages in 2013



Source: Authors' estimations based on the Eswatini Labor Force Surveys.

Figure 8. Kernel density estimate of (log of) income from self-employment, by gender 8a. In 2007 8b. In 2013



Source: Authors' estimations based on the Eswatini Labor Force Surveys.

To identify the factors contributing to the unadjusted gender wage gap and the gap in income from self-employment, we utilized a statistical method developed by the Blinder (1973) and Oaxaca (1973). This procedure explains the extent to which the aggregate wage gap is caused by the wage structure (unexplained) effect, the composition (explained)

effect, and their combination. The explained part is the gap between the wages of men and women due to the differences in their observed characteristics (e.g., age, education, sector). Such differences can result from many factors, including sectoral and/or occupational segregation. The unexplained part measures the gap in wages of male and female workers with identical observed characteristics, which can reflect gaps in their unobservable characteristics.⁹

Table 8 displays the results of the Oaxaca-Blinder decomposition of the mean difference between (log of) monthly wages of men and women. The explained part (differences in observed characteristics) ranges from 21.7% in 2013 to 23.7% in 2010. Put differently, on average about 23% of the gender gap in monthly wages can be attributed to the differences in observed characteristics between male and female workers.

The explained part is driven by observed personal characteristics, especially whether the worker is the head of the household. This is consistent with findings for advanced economies where workers with greater financial responsibilities to their families earn higher wages (Hill, 1979). Marital status explains on average 9% of the gender wage gap and the age 10%, but their contributions vary. In contrast, working in Manzini, in the industrial hub of the country, has almost no explanatory effect since a large share of the employment is also generated in the government sector in Mbabane. The tertiary education is negatively related to the gender gap (-30% on average), which means that the gap would be even larger if tertiary education of men and women were to be equal. In our sample, tertiary schooling has a positive effect on wages, and employed women have, on average, more years of tertiary schooling than employed men (Table 6).

Table 8 also reveals that the unexplained part of the gender wage gap is large. However, this does not necessarily mean that this large part of the gender wage gap is due to practices such as unequal wage for equal work. Labor force surveys in Eswatini omit some important characteristics that may matter or be even critical for the labor market outcomes. Examples include differences in respondents' length and quality of work experience, non-cognitive skills, or access to professional networks. At the same time, it is likely that prevailing social norms, attitudes, and practices impact negatively female labor market outcomes. For example, micro-surveys have pointed out that only half of women in Eswatini believe that men should share the housework and 17% believe that when women work, they should give their wage to their husband (SADC, 2018).

More broadly, researchers have also highlighted that the presence of women in the labor market, which is particularly low in Eswatini, is a key determinant of the degree of gender bias in the workplace (Agenor, 2017). SADC (2018) found that women's participation in the formal economy remains undervalued in the region. Women in SADC are also less likely than men to benefit from digital technologies and the use web for economic empowerment, given their lower digital skills and more limited access to the Internet. In

⁹ The analysis consists of two stages: a regression analysis and a decomposition analysis of the structure of earnings. The regressions build on the standard Mincer (1974) earnings equation, where the log earnings are related to education and experience. In the decomposition part, a counterfactual equation is constructed where the constant and coefficients in the women's equation are replaced by those of the men's equation.

Eswatini, the challenge of including women in good (productive and well-paying) jobs is magnified by the country having one of the slowest real GDP growth in Africa.

Table 8. Oaxaca-Blinder decomposition of gender wage gaps in Eswatini, 2007 – 2013

Dependent variable:	•		Coeff. (Std. Err.)			
Log of monthly wages	[2007]	[2007]	[2010]	[2010]	[2013]	[2013]
Reference group: men						
	log points	share of total gap, %	log points	share of total gap, %	log points	share of total gap, %
Overall					•	
Men	7.48***(.02)		7.66***(.02)		7.79***(.03)	
Women	7.18***(.03)		7.48***(.03)		7.56***(.03)	
Difference (log points)	0.30***(.04)	100.0	0.18***(.04)	100.0	0.23***(.04)	100.0
Explained part	0.07*(.03)	23.4	0.042 (.03)	23.7	0.05*(.03)	21.7
Unexplained part	0.23***(.04)	76.6	0.154***(.03)	76.3	0.17***(.04)	78.3
					•	
Lives in Manzini	0.00(.00)	0.0	0.00 (0.00)	0.0	0.00(0.00)	0.4
Head of household	0.07***(.02)	26.7	0.028** (0.01)	15.8	0.10***(.02)	43.5
Age	0.05***(.01)	16.7	0.02*** (.01)	11.3	0.00(.01)	1.3
Eswatini citizen	0.00(.00)	0.0	0.00(.00)	0.0	0.00(.00)	0.1
Married	0.03***(.01)	10.0	0.03***(.00)	16.9	0.00(.00)	0.3
Moved into the area	0.00(.00)	0.0	0.00(.00)	0.0	0.00(.00)	-1.8
Secondary education	-0.01(.01)	-3.3	-0.01(.01)	0.0	0.00(.01)	1.7
Tertiary education	-0.09***(0.02)	-26.7	-0.06*(0.02)	-33.9	-0.064**(.03)	-28.7
In the formal sector 1/	0.013**(0.01)	-26.7	0.032***(.01)	18.1	0.011**(.01)	4.9
Number of observations	2676	2676	2638	2638	2481	2481
Men	1591	1591	1476	1476	1413	1413
Women	1085	1085	1162	1162	1068	1068

Source: Author's estimations based on the Eswatini Labor Force Surveys. 1/ Note: In 2013, being a manager vs. worker was used as data on the formal and informal employment was not available. Robust standard errors are under parentheses; ***, ** and * respectively denote significance at 1%, 5% and 10%

Given the vital role of self-employment in women's labor market activities and the sizeable unadjusted gender gap in the incomes from self-employment, we utilized the Oaxaca-Blinder decomposition to explore also factors linked with this earnings disparity (Table 9).

In self-employment and entrepreneurship research, it is common to include a correction for sample selection bias in the income equations based on the procedure developed by Heckman (1979). This is because those individuals who are not self-employed and not in the labor force (e.g. discouraged workers) are not randomly sampled but constitute a self-selected sample. Since they are not working, their wages or earnings are unobserved, and thus they are omitted. Hence, a simple regression procedure will face the endogeneity problem of non-random omitted sample. Not accounting for this issue could yield biased estimates of the gender income gap. The Heckman procedure works as follows. In the first

step, using a probit model, it estimates the determinants of the decision to engage in employment (selection equation). In the second step gender income gap (outcome equation) is estimated, using the results of the first step to correct for the endogenous sample selection. Hence we used this procedure and applied the standard decomposition formulas only after deducting the selection effects from the overall gender gap.

Table 9. Oaxaca-Blinder decomposition of net income from self-employment (log)

	log points	share of total gap, %	log points	share of total gap, %	log points	share of total gap, %
Overall					•	
Men	7.20***(.09)		7.54***(.08)		7.37***(.07)	
Women	6.42***(.67)		7.00***(.5)		6.60***(1.86)	
Difference (log points)	0.78(.68)	100.0	0.54(.5)	100.0	0.77(1.86)	100.0
Explained part	0.26**(.11)	33.3	0.23** (.1)	42.6	0.16***(.06)	20.8
Unexplained part	0.53(.69)	66.7	0.31(.51)	57.4	0.61(1.86)	79.2
					•	
Lives in Manzini	0.01(.01)	1.3	0.01 (0.01)	1.9	-0.01(0.01)	0.0
Head of household	0.04(.09)	5.1	0.00(0.08)	0.5	0.07*(.04)	9.1
Age (incl. age squared)	-0.02(.01)	-1.9	0.00(.01)	0.7	-0.01(.03)	-1.3
Eswatini citizen	0.03(.02)	3.8	0.04(.03)	7.4	0.01(.01)	1.3
Secondary education	0.04(.03)	4.6	0.02(.02)	3.7	-0.01(.02)	-0.5
Tertiary education	0.08**(0.03)	9.6	0.13***(.04)	25.0	0.07**(.03)	9.0
In the formal sector	0.09**(0.03)	11.3	0.02(0.02)	3.7	0.03*(.02)	4.0
Number of observations	684	684	677	677	810	810
Men	285	285	271	271	377	377
Women	399	399	406	406	433	433

Source: Authors' calculations based on the Eswatini Labour Force Surveys. Note: Robust standard errors are under parentheses; ***, ** and * respectively denote significance at 1%, 5% and 10%

The pay gap between self-employed men and women is substantial (about 60% of male income in 2013) and does not appear to narrow over time. In contrast to the gender wage gap, differences in endowments (e.g., observed characteristics) account for a significant part of the unadjusted self-employment income gap, on average, for over 40% of it (Table 8). Personal characteristics, especially tertiary education and the sector of employment, mostly drive the explained part of the gap. Working in an urban area and the amount of weekly working hours also account for a large part of the gender gap in self-employment income. These four characteristics together account for 20 to 60% of the overall disparity.

However, sizeable pay gap remains unexplained, suggesting that the pay gap could be generated by the demand factors of the Eswatini's labor market, most of which remain unaccounted for. It implies that a large share of women is likely pushed into self-employment due to the lack of other job opportunities, rather than pulled into it by more flexible working arrangements, autonomy and other potential psychological benefits of

¹⁰ Jann (2008) discusses this method in detail.

being self-employed. For many Swazi women who lack education and work experience, and also face high demands for care from families, productive job opportunities in the public of formal private sector are limited. These women often work as self-employed out of necessity and engage in non-professional jobs, such as low productivity and low value-adding services in the informal sector.

4. Conclusions

In this paper, we documented the gender gaps in the labor market in Eswatini and their trends, using the first three (2007, 2010 and 2013) Eswatini Labor Force Surveys. We found that women face higher likelihood of being unemployed than men and are more prone to being discouraged and exit from the labor force. Relatively large gender earning gaps were identified, even after accounting for different characteristics of men and women.

The unadjusted income gap is particularly high for the self-employed women, whose average earnings amount to only about 40% of those of their male counterparts. While part of this gap can be explained by gender differences in tertiary education and the sector of employment, a significant portion remains unexplained, suggesting that Swazi women are pushed into self-employment due to the lack of other employment opportunities. Social norms contribute to the large presence of women in the low paying and insecure segments of the labor market. Given its persistence over time, self-employment earnings gap has become a structural component of the labor markets. The country has made some progress with the legal framework on gender equality, but implementation is lacking. Specifically, since 2019 married women do not need their husband's consent for dealing with marital assets and administering property. Women also have same access to long-term land leases as men. However customary practices still restrict women's access (World Bank, 2020).

The co-existence of large wage gap and low labor force participation contrasts with evidence from European countries, which exhibit trade-off between the two. In Eswatini, women are turning to low-paying self-employment out of necessity rather than opportunity as they face barriers in entering the high paying professions. This is confirmed by the observation that the share of women who have emigrated to find a job abroad has also increased since 2000, possibly hampering the country's economic development. We have also highlighted low and declining labor force participation among Swazi women. Emigration and remittances received from abroad are likely to contribute to such decline.

The surveys show that Eswatini has one of the highest female unemployment rates in the region. The country has not been generating enough jobs, especially for women. It would need to invest more in female-friendly jobs through well-designed structural transformation strategy that would incentivize female workers to move from low to high productivity sectors and firms. By reducing pay gaps, such strategy would also help address emigration of skilled female workers. Moreover, the government could incentivize women

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¹¹ Boll and Lagemann (2019) discuss this trade-off in the context of European Union, where countries with relatively large wage gap have relatively high labor force participation and vice versa.

to enter technical training programs and university fields in Science, Technology, Engineering and Mathematics (STEM). 12

Based on the evidence, policies both on the supply and demand side of the labor market are needed to reduce the persistent gender gaps and utilize the potential of women. The measures on the supply side could include enhancement of female education outcomes, and in particular raising enrollment rates into tertiary education. On the demand side, measures could include, for example, mentoring programs, expansion of scholarships and opportunities for combining studies with internships. On the supply side, it would be important to raise the number of institutions providing tertiary education while also closely monitoring its quality. Other measures impacting woman's job market outcomes could include government and firms' support to their job search in the formal sector. Given the greater job opportunities in urban areas, complementary policies could focus on affordable urban housing and building roads to facilitate urban-rural commute, alongside creating more non-agricultural jobs in rural areas. To benefit from emigration, the government could develop (re)integration policy for returning migrants while creating networks with Eswatini diaspora abroad and incentivizing them to invest in their communities of origin.

On the labor demand side, measures that would encourage female entrepreneurship include financial instruments and change in regulations to help self-employed women access credit and grow their firms. The young women in particular could benefit from tailored entrepreneurship development programs, alongside improved educational opportunities in technical and business fields, vocational training, including at the tertiary level, so as to strengthen female human capital and ease school-to-work transition. Given the fiscal costs associated with many of these measures, strengthening of public financial management and bringing the public finance on sustainable footing are a precondition.

In conclusion, while the paper has provided evidence on the positive role of tertiary education and urban location in securing wage employment by women, further research is needed to identify mechanisms through which these factors work. One area of possible interest is to examine the network spillovers at the universities and in urban centers once information on social and professional networks of respondents becomes available.

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¹² A similar policy recommendation was made by Ruiters and Charteris (2020) for South Africa.

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Appendix I. Description of variables

Variable	Description
Unemployment (%)	Share of unemployed in the labor force (%)
Employment (%)	Share of employed in working age population (%)
Labor force (%)	Share of people who are self-employed as % of employed
Self-employment (%)	Share of people who are in the labor foce (employed or unemployed) as % of working age population (15+)
Gender	Dummy variable taking the value of 1 for women and 0 for men
Age	Age (in years)
Education	Variable taking the value 1 if the person's highest education is primary or less, 2 if secondary and 3 for tertiary.
Secondary	Dummy variable taking the value 1 if the person has secondary education and 0 otherwise.
Tertiary	Dummy variable taking the value 1 if the person has tertiary education and 0 otherwise.
Eswatini citizen	Dummy variable taking the value of 1 if the entrepreneur has an Eswatini citizenship and the value of 0 otherwise
From Manzini	Dummy variable taking the value of 1 if the person is from Manzini and the value of 0 otherwise
Contract	Dummy variable taking the value of 1 if the employed person has a formal contract and 0 otherwise
Wage	Wage for employees in a typical month (Emalangeni)
Income	Income for self-employed in a typical week (Emalangeni)
Head	Dummy variable taking the value 1 if the person is head of the household and 0 otherwise
Area	Dummy variable taking the value 1 if the person lives in urban area and 0 otherwise
Migrant	Dummy variable taking the value 1 if the person moved into the current place of residence and 0 if he/she was born there

Appendix II. Descriptive statistics of the main variables (% of total population aged 15+, unless otherwise stated)

Variable	Number of observations	Mean	St. Dev.	Min	Max		
, arabic	ocser various	2007					
gender	10,046	0.53	0.50	0	1		
age (years)	10,046	33.58	15.99	15	99		
primary education	8,841	0.51	0.50	0	1		
secondary education	8,841	0.40	0.49	0	1		
tertiary education	8,841	0.09	0.29	0	1		
Swazi citizen	10,046	0.98	0.14	0	1		
area	10,046	0.41	0.49	0	1		
from Manzini	10,046	0.29	0.45	0	1		
head	10,046	0.35	0.48	0	1		
migrant	10,046	0.44	0.50	0	1		
		2	010				
gender	10,189	0.50	0.50	0	1		
age (years)	9,628	34.79	16.99	15	98		
primary education	8,509	0.51	0.50	0	1		
secondary education	8,509	0.40	0.49	0	1		
tertiary education	8,509	0.09	0.29	0	1		
Swazi citizen	9,599	0.97	0.17	0	1		
area	10,189	0.40	0.49	0	1		
from Manzini	10,189	0.29	0.45	0	1		
head	9,599	0.38	0.49	0	1		
migrant	9,592	0.47	0.50	0	1		
		2	013				
gender	11,217	0.53	0.50	0	1		
age (years)	11,217	35.33	17.21	15	99		
primary education	8,289	0.31	0.46	0	1		
secondary education	8,289	0.57	0.50	0	1		
tertiary education	8,289	0.12	0.33	0	1		
Swazi citizen	11,217	0.99	0.12	0	1		
area	11,217	0.33	0.47	0	1		
from Manzini	11,217	0.29	0.45	0	1		
head	11,217	0.36	0.48	0	1		
migrant	11,217	0.40	0.49	0	1		

Source: Authors' calculations based on the Eswatini Labor Force Surveys.