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PARTICIPATION IN THE BURKINA FASO LABOR MARKET: 
CASE OF SKILLED AND UNSKILLED WORKERS

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Address : Dakar BP 64608

ABSTRACT
For most African countries, the issue of employment is one of the main challenges of inclusive growth. 11 million young people enter the labor market each year, while the sub-Saharan Africa labor market offers only 3 million jobs, a gap of around 8 million jobs per year (AfDB, 2017). From this work, we evaluate, using a multinomial logit model, the impact of human capital on the probability of access to employment in the Burkina Faso labor market with data from household surveys. The results show that a significant increase in human capital allows to hold a skilled job in Burkina Faso.

KEYWORDS : Human capital; Employment; Labor market; skilled; unskilled; Burkina-Faso

INTRODUCTION
For most African countries, the issue of employment is one of the main challenges of inclusive growth. In sub-Saharan Africa, 60% of the population, or 200 million, are under 25 years old. Among them, 11 million enter the labor market each year, while the sub-Saharan Africa labor market offers only 3 million jobs, a gap of around 8 million jobs per year (AfDB, 2017). WAEMU countries' GDP growth will be in real terms at 6.8% in 2018 (Central Bank of West African States, 2018). Despite sustained economic growth for years and progress in education and training, the issue of employment remains a major challenge for many countries in sub-Saharan Africa. Research on human capital theory has shown that education is an economic investment that increases the productivity skills of workers and, de facto, is a form of human capital (Becker 1964, Schultz 1963). Education and training can be likened to investments that, accumulating, form a stock of professional skills, called "human capital" (Pierre and André, 2004). The state of the labor market in the West African Economic and Monetary Union (WAEMU) countries has always been one of the major concerns of the authorities of the zone. Since 2012, WAEMU countries have obtained from the African Development Fund (ADF) a foreign exchange donation of 20 million units of account to finance the Higher Education Support Project (ASPP) of the WAEMU countries. One of the three components of this project is "Support for reforms and harmonization of higher education systems in the WAEMU area". According to the Central Bank of West African States (2016), investments in human capital made in WAEMU countries have positively affected the efficiency of investments in other sectors. Thus human capital can be seen as a factor of human development in the area by its contribution to the acquisition of knowledge useful for insertion and the active participation of the population in the labor market. Therefore, the countries of the union must increase their level of investment in education and vocational training to enable the population to access quality jobs and sufficiently high wages. In the four WAEMU countries, much effort has been made in the sectors of education and training. This, with the aim of fostering strong growth and creating quality jobs.

As for Burkina Faso, since its independence in 1960, the education sector has been a major concern. Burkina's public higher education has faced an exponential increase in the number of its students. They increased from 374 in 1974 to 48,000 in 2009,
The relationship between education and the labor market has attracted a lot of attention since Mincer's study showed a correlation between income and the level of education attained (Mincer, 1958). In theory, education decisions are motivated by two aspects. First, education makes workers more productive and increases their earnings in accordance with human capital theory (Becker 1964, Schultz 1961). Secondly, education increases the duration of individual employability, and thus is a protection against exclusion. This is because more educated workers are also more productive, so firms agree to train them for longer. According to this vision, individuals and employers invest in training when they can expect a profit that exceeds the costs incurred. These include the direct costs of training but also the opportunity costs of the gains that we did not have because we were in training.

The objective of this paper is to evaluate the impact of human capital on the probability of access to employment in the Burkina Faso labor market. The rest of the article is organized as follows. The first section presents the background. Section 2 describes the state of the issue in the literature and Section 3 develops the Multinomial Logit Model specification. The last section presents the results.

1. BACKGROUND

This section presents the public expenditure on education (% GDP). Table 1 highlights public expenditures on education (% total expenditure) in the WAEMU zone. In fact, education expenditures (% total expenditure) of Burkina Faso has exceeded the average education expenditure of Sub-Saharan Africa (18.03% in Burkina versus 16.62% in Sub-Saharan Africa).

---

1 Continuous Multisectoral Survey
2 National Observatory of Employment and Training
Table 1. Education Expenditures (% GDP) and (% Total Expenditures) in Burkina Faso

<table>
<thead>
<tr>
<th>WAEMU countries</th>
<th>Year</th>
<th>Education expenditure (% total expenditures)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benin</td>
<td>2015</td>
<td>17.48</td>
</tr>
<tr>
<td>Burkina Faso</td>
<td>2015</td>
<td>18.03</td>
</tr>
<tr>
<td>Cote d’Ivoire</td>
<td>2015</td>
<td>21.17</td>
</tr>
<tr>
<td>Guinée-Bissau</td>
<td>2013</td>
<td>16.19</td>
</tr>
<tr>
<td>Mali</td>
<td>2014</td>
<td>18.22</td>
</tr>
<tr>
<td>Niger</td>
<td>2014</td>
<td>21.66</td>
</tr>
<tr>
<td>Sénégal</td>
<td>2014</td>
<td>24.76</td>
</tr>
<tr>
<td>Togo</td>
<td>2015</td>
<td>17.99</td>
</tr>
</tbody>
</table>

Reference
Sub-Saharan Africa   2013  16.62

Source: WDI, UNESCO 2017

Table 2 shows the distribution of employment by sector in Burkina Faso. In the country, the level of employment is below the average for sub-Saharan Africa (7.153 million).

Table 2. Distribution of employment by sector in Burkina Faso

<table>
<thead>
<tr>
<th>Country</th>
<th>employment (%)</th>
<th>Total employment (milliers) (âges 15+)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>année Agriculture Industrie Service</td>
<td></td>
</tr>
<tr>
<td>Benin</td>
<td>2013 42.7 9.5 47.8</td>
<td>4 260</td>
</tr>
<tr>
<td>Burkina Faso</td>
<td>2013 84.7 3.1 12.2</td>
<td>6 455</td>
</tr>
<tr>
<td>Niger</td>
<td>2013 56.9 11.1 31.1</td>
<td>5 598</td>
</tr>
<tr>
<td>Senegal</td>
<td>2013 49.1 14.8 36.1</td>
<td>5 494</td>
</tr>
<tr>
<td>Sub-Saharan Africa</td>
<td>2013 .. .. ..</td>
<td>7 153</td>
</tr>
</tbody>
</table>

Reference
Source: WDI, ILO, 2017

2. LITERATURE REVIEW

2.1. Theoretical review
The first part of the literature is rather centered on a theoretical approach of the links between education, economy and employment. The links between education and the economy are important and have an impact on the training-employment relationship.

2.1.1. Education and the labor market
The concept of human capital has been used constantly in economics since the works of Schultz (1961) and Becker (1964). Some authors make it go back to Adams Smith in the 18th century. In the OECD (1998) report, human capital is defined as "knowledge, skills, competences and other qualities possessed by an individual and relevant to economic activity". The relationship between education and the labor market has attracted a lot of attention since Mincer's satudy showed a correlation between income and the level of education attained (Mincer, 1958). In theory, education decisions are motivated by two aspects. First, education makes workers more productive and increases their earnings in accordance with human capital theory (Becker 1964, Schultz 1961). Secondly, education increases the duration of individual employability, and thus is a protection against exclusion. This is because more educated workers are also more productive, so firms agree to train them for longer. According to this vision, individuals and employers invest in training when they can expect a profit that exceeds the costs incurred. These include the direct costs of training but also the opportunity costs of the gains that we did not have because we were in training. According to Lucas (1988), the production function of an economy is composed of three elements: capital, labor and work efficiency reflecting the quality of human capital. This Lucas model refers to a set of knowledge available in the population and a qualitative improvement of training over time.

In most countries education is a bulwark against unemployment. As a result, Borooah and Mangan (2008) argue that the lowest unemployment rates are generally found among the most educated segments of the population. Although this theory has the advantage of advancing the theory of labor supply by bringing training and employment closer together by market logic, it nevertheless has some limitations,
particularly the emphasis on individual productivity and supposedly measurable. This poses a problem especially when we know that the production process is of the collective type as a whole. Hence the consideration of complementary and alternative theories to the theory of human capital.

2.1.2. Complementary and alternative theories to the theory of human capital

These theories seek to explain the upsurge of unemployment by asymmetric information, the refusal of downgrading, the opposition insiders / outsiders, the failure of the matching process (Azariadis 1975, Spence 1973, Lindbeck and Snower 1988; Pissarides and Mortensen, 1999).

- Signal Theory, formulated by Spence (1973)

The author makes the assumption that education is not a way to increase human capital but a means of selection. In this perspective, individuals invest in education to send signals to employers. Unlike the theory of human capital, signal theory considers that it is the rank in the hierarchy of diplomas that counts not and not the level. As a result, beyond a certain threshold, investment in training would be a social waste and produce over-education and downsizing. The main idea is that the employer, in a state of asymmetry of information with respect to the labor suppliers, does not know the productivity or the potential of the person she is going to hire and that this search for information is too expensive. As a result, it transfers this burden to the education system and relies on the degree or level of education to rank individuals.

- The "insiders / outsiders" model

This model was developed by Lindbeck and Snower in 1988. The distinction is based on the observation that in large, highly structured companies for labor relations, workers already present in the company (insiders) are clearly distinguished from external candidates (outsiders). The latter are confronted with an attitude of rejection on the part of the former, thus defending their wages and working conditions. The threat represented by their power of intervention in the life of the company is sufficient to modify the decision of the employer. Insiders want a rise in wages while outsiders have an interest in lowering wages so that the demand for labor increases and they can maximize their chances of finding employment. At the end of the 1980s, this idea was developed in relation to that of turnover costs. Insiders have been a cost to the company, and departures would be a cost. As long as the claim of the "insiders" does not exceed the estimated cost of their current presence, the "outsiders" will not be hired.

- Matching theory

The theory of matching is based on the idea that the employer is looking for a profile that is perfectly adapted to the job (Jovanovic, 1979). For this, he needs a period of time necessary to assess the adequacy between the profile sought and the job to be filled. He may therefore make any salary adjustments. Indeed, at the time of recruitment, the diploma is an insufficient marker. Among the reasons given for the persistence of imbalances in the labor market, the efficiency of the matching process occupies a prominent place. This matching theory accounts for the coexistence of high unemployment and labor shortages in some sectors (Pissarides 1990, Pissarides and Mortensen 1999). The authors argue that the pairing results from the confrontation between job search of workers who have imperfect knowledge of job vacancies and recruitment of companies that have an unclear idea about the characteristics of job seekers.

To stimulate employment, it is necessary to stimulate the supply of labor rather than reduce the activity rate (Caluc and Zyliberberg, 2004a, b).

The suitability of the worker's characteristics to those associated with a vacant job is a determining factor in the hiring process as described by the matching or job matching models (Jovanovic 1979, Mortensen 1988, Sattinger 1993).

2.2. Empirical review

Empirically, a 1% increase in the GDP of public investment in France would generate in the short term a GDP increase of 1.1% at three years and a reduction of 245 000 unemployed if it is financed by debt (OFCE, 2016). As a primary source of human capital, education increases the productivity of the workforce, improves and promotes growth (Dissou et al., 2016). Boutin (2010) conducts a study in Cameroon with data from ECAM 3 conducted in 2007 where she analyzes the determinants of access to employment using a probit model. The results reveal that the probability of accessing employment is higher for individuals with a primary or secondary education compared to individuals with no education or those with a higher level of education. In parallel, Nordman and Doumer (2012) find opposite results to those of Boutin on the link between level of education and access to employment. From the data of the 1-2-3 survey carried out between 2001 and 2003 in seven capitals of the WAEMU zone (all capitals except Bissau), the authors find with the help of a logit model that in Lomé, Cotonou and Abidjan, there is a positive correlation between unemployment and educational level, the chances of unemployment increase with the level of education. In other cities, however, unemployment and educational attainment form a bell curve. Individuals without a level of education have a lower probability of being unemployed. Their results show a positive impact of the diploma on remuneration with more pronounced effects for secondary and higher education diplomas. According to Chirache (2014), the unemployment rate in France of recent workers, with at most a college diploma, is 4.5 times higher than that of higher education graduates. Further, Nordman and Doumer (2012) show a clear correlation between level of education and quality of employment in WAEMU capitals, applying the segmentation "public,
private formal, informal”. In the seven cities studied, 91% of those who did not complete primary education work in the informal sector. This proportion is 75% for those with a primary level, and only 19% for individuals who have completed higher education. Using a multinomial logit model, the authors show that an additional year of study increases the odds to integrate the public and the formal private sector than to work in the informal sector. However, Camara and Benjamin (2011) did a study in Ivory Coast and found a contradictory result to the human capital theory. Their results reveal that the higher the level of education, the lower the employability of young people. As for the formation of incomes, the level of education acts positively.

In Senegal, Cabral et al (2014) find the following results: (i) the socio-professional categories of the "low-skilled" are those where there is a shortage of manpower; then (ii) there is an excess of labor supply in the "unskilled" segment and in the "highly skilled" segment; and finally (iii) in the "highly skilled" labor market, supply is dominated by the non-youth segment. On the other hand, in all other segments of the market, young people account for most of the labor supply. These studies show us that human capital, measured by level of education, plays a predominant role in access to employment, even if qualification adequacy problems are noted.

3. METHODOLOGY

3.1. Classification of skilled employment and unskilled employment

With regard to the qualification of professions (skilled, unskilled), we have relied on the International Classification of Occupations-ISCO08, adapted to the four WAEMU countries. Table 4 presents the employment classification (skilled employed, unskilled employed) using ISCO-adjusted to developing countries and applied in the four WAEMU countries. The skilled employed includes senior managers, engineers and related professionals, middle managers and supervisors, skilled employees and workers, semi-skilled employees and manual workers. Finally non-skilled employed includes informal self-employed persons, laborers, caregivers and apprentices.

<table>
<thead>
<tr>
<th>Table 3: Classification of Employment by Adjusted-ISCO08</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISCO groups</td>
</tr>
<tr>
<td>1- Senior manager, engineer and related</td>
</tr>
<tr>
<td>2- Middle manager, master agent</td>
</tr>
<tr>
<td>3- Employee / skilled worker</td>
</tr>
<tr>
<td>4- Employee/ semi-skilled worker</td>
</tr>
<tr>
<td>5- Independent (seller, grower, tailor)</td>
</tr>
<tr>
<td>6- Maneuver</td>
</tr>
<tr>
<td>7- Help family</td>
</tr>
<tr>
<td>8- Apprentice paid or unpaid</td>
</tr>
</tbody>
</table>

Source: author, ILO (2013)

3.2. Model

The multinomial logit model (MLM) is our analytical model. This model is an extension of the simple logistic regression model. It was introduced by McFadden in 1968 and it allows to study situations where the individual must make a choice among several modalities. In unordered models, the variable to be explained represents the possibilities of choice of an individual among M + 1 possibilities and therefore his preferences. This is why they are also called random utility models.

The decision $Y_i = j$ is retained if $U_{ij} = \max \{U_{i0}, U_{i1}, \ldots, U_{iM}\}$

Suppose that each individual has to choose between the three alternatives ($j = 0$ to 2) more precisely (unemployed, skilled employment and unskilled employment). What we seek to study is the unique decision of an individual among a number of unordered alternatives. In a model of unordered choices, the individual we will compare the different levels of utility associated to the various states, and then we will opt for the one that maximizes its utility $U_{ij}$ among the $J$ states. For the individual $i$, the utility of the state $j$ is given by:

$U_{ij} = \beta'Z_{ij} + \epsilon_{ij}$

Where $Z_{ij}$ is a vector of individual characteristics (education level, vocational and/or technical training, age group, gender, residence place, etc.), $\beta$ is a vector of unknown parameters and $\epsilon_{ij}$ is a random error term. If the individual $i$ is in the state $j$, we shall consider that $U_{ij}$ is the greatest utility among the utilities considered by the individual $i$. In fact, the probability that the individual $i$ participates in sector $j$ corresponds to the probability that the utility of sector $j$ is greater than that associated with all other sectors:

$P(U_{ij} > U_{ik})$, with $k \neq j$ ; $j, k=0, 1, 2$

In many studies, the estimation of the reduced equation of labor force participation is done from this equation.
point using a multinomial logistic model\(^3\). In this model, the probability that the individual \(i\) is in the state \(j\) is expressed by:

\[
\text{Prob} (Y_i = j) = \frac{e^{\beta_j x_{ij}}}{\sum_{k=0}^{J} e^{\beta_k x_{ij}}}, \text{ with } j = 0, 1, 2 \text{ et } \beta_0 = 0
\]

The estimation of the parameters will be done by the likelihood maximum method. The maximum likelihood estimators are obtained once again by canceling the partial derivatives with respect to the different parameters of the likelihood of the sample. We will admit the classical results on the asymptotic behavior of the estimators: asymptotic variance deduced from the Fisher information matrix, asymptotic normality of the maximum likelihood estimator, Wald tests, likelihood ratio etc. The odds ratio appear directly in the software outputs for the multinomial model.

### 3.3. Data and study area

**Burkina Faso**

Data from the Multisectoral Continuous Survey (EMC-2014), collected by the National Institute of Statistics and Demography (INSD) are used. We are interested in items related to the labor market (employment, education). Inactive subjects are excluded from the study, resulting in a sample of 43,238 subjects.

The dependent variable (employment state) has three alternatives: unemployed, skilled employment and unskilled employment. The explanatory variables of the model are human capital, here captured by the level of education and vocational and/or technical training, and other individual characteristics of households (age group, gender, place of residence, marital status, etc.). Unskilled employment stands at 96.97% in Burkina Faso.

### 4. RESULTS

Table 4 presents the results of the multinomial logit model (MLM) estimation for access to employment and for which the base is the alternative 0 (unemployed).

The overall significance test of the model shows that the model is globally significant. We then did the independence tests of the variables (likelihood ratio test, Wald test) to check the partial significance of these variables. The LR test of alternative combinations, another test that we performed to check whether it makes sense to combine certain categories of the dependent variable - for example: whether it makes sense to combine "unemployed" and "skilled occupation". Finally, the independence test for irrelevant alternatives (IIA) has been validated for this model.

To clarify the effect of human capital, Table 4 gives the results of a simulation of the probability of being in a skilled job or an unskilled job using odds ratios.

In Burkina Faso, an increase in the level of education significantly increases the probability of being in a skilled job.

A one-point increase in the level of higher education leads to an increase in the probability of having a skilled job of 35.17 points in Burkina Faso. On the other hand, the results obtained in Burkina Faso concerning the unskilled segment seem to reveal a phenomenon of declassification on the labor market of Burkina Faso. Although the probability of access to a skilled job is high (35.17 points for the higher level), it is 19.87 points for unskilled employment. This would reflect a phenomenon of over-education or downgrading in this country. This result corroborates with Thiaw’s (2019) finding that a significant increase in human capital makes it possible to hold a skilled job in Senegal.

---

\(^3\) Nerlove et Press [1973]
Table 4: Effect of variables on the probability of access to employment in Burkina Faso (odds ratio)

<table>
<thead>
<tr>
<th>Variables</th>
<th>Burkina</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Skilled employment</strong></td>
<td></td>
</tr>
<tr>
<td>primary</td>
<td>2.00**</td>
</tr>
<tr>
<td>middle</td>
<td></td>
</tr>
<tr>
<td>general secondary</td>
<td></td>
</tr>
<tr>
<td>general high educ</td>
<td>35.17***</td>
</tr>
<tr>
<td>technic secondary</td>
<td></td>
</tr>
<tr>
<td>technic high edu</td>
<td></td>
</tr>
<tr>
<td>women</td>
<td>0.47*</td>
</tr>
<tr>
<td>rural</td>
<td>0.52***</td>
</tr>
<tr>
<td>AGE24_35</td>
<td>19.24***</td>
</tr>
<tr>
<td>AGE236_59</td>
<td>57.00***</td>
</tr>
<tr>
<td>AGE60_plus</td>
<td>56.53***</td>
</tr>
<tr>
<td><strong>Unskilled employment</strong></td>
<td></td>
</tr>
<tr>
<td>primary</td>
<td>2.05**</td>
</tr>
<tr>
<td>middle</td>
<td>2.37**</td>
</tr>
<tr>
<td>general secondary</td>
<td></td>
</tr>
<tr>
<td>general high educ</td>
<td>19.87***</td>
</tr>
<tr>
<td>technic secondary</td>
<td></td>
</tr>
<tr>
<td>technic high edu</td>
<td></td>
</tr>
<tr>
<td>women</td>
<td>0.36***</td>
</tr>
<tr>
<td>rural</td>
<td>0.55**</td>
</tr>
<tr>
<td>AGE24_35</td>
<td>18.93***</td>
</tr>
<tr>
<td>AGE236_59</td>
<td>75.12***</td>
</tr>
<tr>
<td>AGE60_plus</td>
<td>84.54***</td>
</tr>
</tbody>
</table>

**Statistics**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>43788</td>
</tr>
<tr>
<td>L1</td>
<td>-5893.84</td>
</tr>
<tr>
<td>df_m</td>
<td>38.00</td>
</tr>
<tr>
<td>chi2</td>
<td>908.30</td>
</tr>
</tbody>
</table>

Source: Author

*** p<0.01, ** p<0.05, * p<0.1

Other individual characteristics that significantly affected the probability of belonging to the employment state are: gender, residence place, youth (AGE24_35), adults (AGE236_59), older persons (AGE60_plus). Compared to men, women are at a disadvantage in all segments and in Burkina Faso. In rural areas access to skilled employment is very limited in this country. Compared to youths (AGE_15_24), the results reveal that in Burkina Faso, the chances of older people to work in unskilled jobs are greater than the chances of getting a skilled job.

5. DISCUSSION

According to the results, an increase in the education level increases the probability of having a skilled job in all the four countries. So education and skilled employment are positively correlated in the Burkina Faso labor market. On the other hand, the results obtained in Burkina Faso concerning the unskilled segment seem to reveal a phenomenon of declassification in the Burkina Faso labor market.

CONCLUSION AND POLICY LESSONS

In this paper, we study, using a multinomial logit model, the impact of human capital on the probability of access to employment in Burkina Faso. Empirical analysis reveals that:

- A significant increase in human capital allows to hold a skilled job in Burkina Faso.
- Burkina Faso labor market seems to reveal a phenomenon of declassification.
- Compared to rural people who are mainly immersed in unskilled employment, urban
households are more likely to be in a skilled job.

The results have important implications for serving education, vocational and technical training policies and labor market policies in the Burkina Faso labor market:
- An education policy focused on the correction of imbalance between supply and demand for qualification in the labor markets.
- An employment policy based on promoting access to decent and sustainable jobs and reducing unemployment.
- A technical and professional training policy of the workforce to increase the employability of it.

The extension of the study area and the consideration of the matching issue between labor market supply and demand for qualification seems original for future research.

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