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<td>Master in Business Administration, IESE, University of Navarra</td>
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<td>Degree in Industrial Engineering, Universitat Politècnica de Catalunya</td>
<td>Web: lancs.ac.uk/staff/bartras1/</td>
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<td>Lecturer, Department of Marketing, University of Calabar</td>
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<td>B.A., M.S., Ph.D., Biokinetics, University of Johannesburg, South Africa</td>
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<td>Director, Summer Abroad Program, Medieval Europe Travel Course</td>
<td>Professor Department of Sport and Movement Studies</td>
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Social Expenditures, Economic Growth and Poverty in Morocco: An Analysis in Computable General Equilibrium

By Nezha Bousselhami & Moustapha Hamzaoui

Abstract- This work sets the objective of analyzing the impact that social expenditures (Education and health) can have on economic growth and poverty in Morocco. This analysis is conducted through a computable general equilibrium model where the macro-micro link is established. The splitting of the household agent into a quintile makes the model a powerful instrument for analyzing the effects of these policies on the behavior of the different classes of households.

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I. Introduction

Fiscal policy is a means available to the government to regulate the economy and conduct actions on economic cycles to achieve its economic and social objectives.

Sustained growth and sustainable improvement of the living conditions of the population are among the objectives of every state. Public finance managers have to find the best possible combination, between the various means of fiscal space, namely the levies, internal and external borrowing, donations for the poorest countries and income seigniorage.

The reduction of poverty begins with sustained economic growth, which itself results from the combination of several factors.

The supply of public goods and services (education, health, road, transport and tele-communication infrastructure) can play a particularly important role in preventing the poor from continuing to become poorer (Stiglitz, J., 2012). It is also a fundamental factor in accelerating growth (Brun, J. F et al., 2007). The logic that proves it is impressive: If the state increases its expenditures, the GDP increases by a multiple of this sum (the mechanism of the Keynesian multiplier), even if this mechanism has been much disputed.

Of course, public spending can have more effects if we spent it on high-productivity investments, such as those that facilitate the restructuring of the economy. Beyond their high direct returns, these investments have other benefits. The private investment returns increase and the deficit is reduced in the medium term, which should inspire confidence, and it is even possible that consumers, understanding that the future tax burden will be lower than expected, increase their consumption. Even private one is "invited" (Stiglitz, J., 2012).

Therefore, the quantitative analysis of the impacts is crucial to guide decision-making and optimize actions regarding state intervention. Indeed, any state interventionism should be analyzed and appreciated at its fair value compared to the costs incurred regarding income redistribution and wealth.

However, the quantitative analysis of redistribution issues requires the availability of appropriate tools and summary tables of national accounts, which can provide information on the effects of policies implemented in both macroeconomic and microeconomic terms.

The advances made regarding general equilibrium models, offer an analytical platform that responds to this type of problem. They make it possible to understand the interdependence and feedback effects of the behavior of economic agents in a context of general equilibrium, taking into account the structure of the economy as a whole and the interrelationships between different economic agents.

In this context, and based on a computable general equilibrium model developed by Decaluwé, Martens and Savard (2001), a new model, taking into account the specificity of our subject has been constituted. The link micro-macro is established through the reconciliation of microeconomic information from household surveys and macroeconomic data provided by national accounts summary tables. Its accounting framework is the social accounting matrix that summarizes Moroccan economic activity in 2007 and the 2007 National survey on living standards and household consumption.

This model enables to quantify the effects of social public expenditure policies. Thus, these effects can be apprehended at the macro level on economic growth, inflation, macroeconomic balances, the internal and external competitiveness of the national economy as well as the income and savings of economic agents. At the micro level, a set of indicators of living standards...
are apprehended, including the structure of consumption expenditure by household classes, the redistribution of incomes and the level of poverty.

The splitting of the household agent into quintiles (from the poorer Q1 to the richer Q5) makes it a powerful instrument to establish the link between the simulated (fiscal and social) policies and their impacts on the living standards of the different types of households.

Four shocks were simulated, and the results differed whether it was a single shock or a multiple shocks.

The article will be organized as follows: A first section is devoted to the theoretical part explaining the links between public spending, economic growth, and poverty. The second section will deal with the CEGM-Computable Economic General Equilibrium Model (MEGC), the simulations and the analysis of the results obtained.

II. A Theoretical Framework for Public Expenditures, Economic Growth, and Poverty

Traditionally, fiscal policy debates as a macroeconomic policy instrument have focused on defining the desired level of government balance. From a Keynesian perspective (Mills. P and Quinet. A, 1992), balances can contribute to the smoothing of cyclical fluctuations: thus, in a downturn, an increase in public spending stimulates private expenditure; the net effect on the economy is activity depending on the foreclosure of the propensity to import and the possible rise in the real interest rate. Such a representation of the functioning of the economy, however, is based on simplifying assumptions: first, it assumes that the horizon of private agents is sufficiently limited, because of liquidity constraints or phenomena of tax illusion, for the consumption reacts significantly to fluctuations in current income. It also supposes that the formation of agents’ expectations gives way to a monetary illusion. Contesting these two hypotheses, monetarists (Mills. P and Quinet. A, 1992) questioned the cyclical efficiency of fiscal policy. According to them, consumption, which is a function of permanent income, is not very sensitive in the medium term to variations of public expenditure. Moreover, in the absence of a lasting monetary illusion, expansive fiscal policy is not able to lower the unemployment rate below its “natural” level permanently.

The monetarist proposals have contributed to reconsider the cyclical approach of the public finances: without necessarily calling into question the very effectiveness of the budgetary policy, economists agree today on the harmful effects of systematic use of these public finances for cyclical regulation. Reasoning in the context of the state’s intertemporal budget constraint, Barro (1974; Mills. P and Quinet. A, 1992) went further by challenging any economic efficiency in fiscal policy: reformulating the Ricardian hypothesis of equivalence between debt and tax. He estimates that any change in the public balance is offset by a similar variation in private savings. If the validity conditions of this proposal are rarely met (a perfect forecasts, an absence of liquidity constraints, a flat-rate taxes) (Boskin, 1987; Mills. P and Quinet. A, 1992), it has nonetheless contributed to a renewed focus on the medium-term effects of fiscal policy. Increased attention has been paid to the impact of tax rates, the volume and the composition of public spending on private behavior. A lot of authors putted the evidence of the distortions in labor supply and savings caused by high marginal tax rates. Regarding this public spending, Barro (1981; Mills. P and Quinet. A, 1992) emphasizes the differentiated impact of a temporary or permanent change in the level of public expenditure on activity. If private agents reason, in the long term, by forming rational expectations, causing a permanent change, leading to future increases of taxes, which will depress the income: the increase in public spending is then fully offset by the decline in private consumption. However, a temporary change- since it does not imply a future tax increase- has a stimulating effect on activity less than the Keynesian multiplier to the extent that public expenditure partially replaces private spending.

Aschauer (1989) for his part argues that the increase in public investment expenditure would have, by boosting the profitability of private capital, an impact on production higher than an equivalent change in public consumption. At the same time, he finds a favorable effect of the capital stock on the overall productivity of factors of production. His latest work has broadened the scope for thinking about the medium-term impact of public finances. In particular, they encourage a more in-depth assessment of this effect on the utility function of consumers and the production function of entrepreneurs.

Thus, the impact of investment expenditure and public capital stock on productivity and return on capital is potentially significant for fiscal policy. It means that the government has, alongside with the budget balance and tax burden rates, another macroeconomic instrument to boost private sector productivity. This issue is of particular importance to any economy. A positive contribution of public finances to the improvement of the productive supply can consist of an increase in savings and a corresponding reduction of the pressure of the State on private savings flows. The control of the balance must, therefore, be a priority objective. Given the high level of mandatory levy and the number of distortions that can be generated by taxation, the satisfaction of a pay-as-you-go objective is above all a matter of controlling expenditure.

In addition to its role as an instrument of macroeconomic policy, public spending can also
influence the distribution of income in the short term (through subsidies and transfers) and the long one (through health services and education). Transfers to households (food subsidies or unemployment allowances) directly affect the income and consumption of the beneficiaries, while supports and transfers to businesses have a more indirect impact on their income and consumption. Education and health services improve the productive capacity of advantageous (IMF, 1996). These well-targeted expenditures are a powerful instrument for boosting economic activity and reducing, either directly or indirectly, the levels of poverty (Touhami, A, 2005).

Lasting improvement in the living conditions of the population undoubtedly depends on greater access to education and health services (Djindjil. N et al., 2005). It is especially true for the poor as their important asset is generally human capital. Any reform aimed at promoting the accumulation of this capital is likely to reach the poor. For sustainable development, more focus must, therefore, be placed on access to these services. And because of market failures, state intervention is seen as the most effective way to ensure fairness and efficiency in the provision of these services.

Hence the need to simulate, through our computable general equilibrium model, the impact of a change in public spending, especially of a social nature, on the macro and microeconomic aggregates of the country.

III. COMPUTABLE GENERAL EQUILIBRIUM ANALYSIS IN MOROCCO

a) Interest of the CGEM (Computable General Equilibrium Model)

The theoretical framework of computable general equilibrium models is offered by the competitive general equilibrium model. Its original structure was developed during the second half of the nineteenth century by the neoclassical or marginalist economists (Decaluwé. B et al, 2001). In particular, the German Gossen (1854), the Englishman Jevons (1871), the Austrian Menger (1871) and the Frenchman Walras (1874-1877). However, it is widely accepted that it is the latter who contributed the most to the conceptualization of the model, hence its alternative name of general Walras system. In the twentieth century, more modern formulations, because they made use of an advanced mathematical language, came into being with the works, mainly, of Arrow and Debreu (1954) and McKenzie (1954-1981).

These models, based on the Walrasian theory, are concerned, in this theoretical framework, with the determination and estimation of the consequences of possible economic policies. These are models in which prices and quantities are determined by optimizing the agent’s behaviors. Price flexibility will guarantee the adjustments and will lead to balance.

They include different types of households, with different budgetary constraints, in which welfare plays a fundamental role since the effect of economic policies on the redistribution of income are quantified while judging efficiency.

The methodological approach adapted to these objectives requires modeling that simulates a structural shock and captures the effects on all components of the economy. It is the reason why it opted for computable general equilibrium modeling.

In this work, our modeling is based on the simulation of shocks related to social (expenditure) policies.

In this respect, the Social Accounting Matrix (SAM), serving as a database of our CGEM, is the one developed by the National Accounting Department in 2007. The population was split into five quintiles (from the poorer 20% to the richer 20%). The base of this classification is the data from the Household Living Standards Survey conducted by the HCP in 2007, which distinguishes in household income between the remuneration of factors of production, in particular labor and capital, and transfers they receive from other economic agents, including the government. Labor and capital incomes are mainly attributed to households and businesses. In this perspective, the labor factor is disaggregated into three categories according to the level of education and the degree held by the individuals in the household. Three levels of qualification of the workforce are distinguished according to whether it is low, medium or highly qualified. Government revenue comes from direct and indirect taxes.

b) Closing the Model

The model is a system with simultaneous equations. In order to have a single solution, the number of these equations must equal the number of variables. For this purpose, some variables will be kept fixed about the type of macroeconomic closure chosen for the model, which is likely to make the system of equations determined.

However, the choice of macroeconomic closures goes beyond the simple lifting of the under-determination of the equations system and is an in-depth reflection on the theoretical transfer mechanisms of the simulated shocks effects and on the factors that generate them.

Closing a model, therefore, comes down to identifying the arguments in favor of a particular functioning of the economy that can reflect as accurately as possible its realities and characteristics and to better understand the impact of simulated policies, as reported by the results of simulations performed by the model.

In response to the shocks to be simulated, the various variables of the model react according to schemes strongly conditioned by the nature of the macroeconomic closure chosen.
This loopback modification, depending on the objective pursued, gives the computable general equilibrium models great flexibility and enriches them in comparison with other types of models, thanks to the possibility of simulating the effects of a variety of measurements and to nuance them according to the privileged mode of the behavior of the variables.

Nevertheless, it is not always easy to pinpoint all the implications of one loopback over another as the expected impact is often influenced by other elements such as structural effects or microeconomic specifications of the model.

Given the structure of the Moroccan economy, especially the government behavior, and the static nature of the model, a closure consisting in considering that state expenditures are exogenous and that the investment adjusts to savings has been retained. The base of this closure is the Walras law, which states that prices are flexible and the investment is residual and automatically equates to saving. This type of closure appears to be appropriate for the study of economic policies that lead, mainly, to a reallocation of resources between activities. These resources are assumed to be fully employed at the level of the economy as a whole.

The capital stock is assumed to be specific to each of the sectors, which means that the return on the investment is not captured during the current period and the results deduced to have a short-term interpretation in this context of static CGEM s. This same hypothesis implies that there are as many capital factor remunerations as there are branches of activity in the model.

Still based on the static criterion of the model, the total supply of the labor factor of the different skills is assumed to be exogenous as well. The labor market is in full employment. Only the reallocation of this offer between the branches of activity is possible.

According to the "small country" hypothesis, world prices for imported and exported goods are also assumed to be exogenous to the model, since the small open economy cannot influence these international prices.

Similarly, the current account balance is considered exogenous and, it is the real exchange rate that adjusts to rebalance the balance of payments. As a result, RM saving (= - CAB) is also fixed.

And to keep the equilibrium of the model, it was necessary to fix another variable. To do this, we proposed to consider the change in stock as exogenous, because it is not an economic policy variable.

c) Proposed Simulations

Despite the standard structure of the constructed model, it can be used to simulate the impacts of several interesting economic policies (public expenditures in our case) on economic growth and poverty.

With this in mind, we first start with total expenditures, then education expenditures, and health expenditures. Finally, we will try to evaluate the changes observed by combining the two last policies (education and health).

The evolution of public expenditure (table-1), in Morocco, shows that their average growth rate over the period 2000-2015 is 6.6%, their share in GDP rose from 22.1% in 2000 to 28.4% in 2015 (6.3 points more). Hence, there is a need for effective control of expenditure. A better allocation of spending can contribute to growth, as the theory of endogenous growth teaches. When spending is both reduced and redeveloped, growth and social indicators are not necessarily threatened (IMF, 2006).

Table 1: Evolution of public expenditure (in billions of DHS) and their share in the GDP (in %) over the period 2000-2015

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<tr>
<td>PE</td>
<td>101</td>
<td>111</td>
<td>109</td>
<td>115</td>
<td>123</td>
<td>144</td>
<td>146</td>
<td>159</td>
<td>192</td>
<td>195</td>
<td>205</td>
<td>241</td>
<td>264</td>
<td>255</td>
<td>260</td>
<td>256</td>
</tr>
<tr>
<td>Growth PE(%)</td>
<td>6.7</td>
<td>10.0</td>
<td>-2.0</td>
<td>5.4</td>
<td>7.2</td>
<td>17.0</td>
<td>1.2</td>
<td>9.3</td>
<td>20.0</td>
<td>1.9</td>
<td>5.0</td>
<td>17.0</td>
<td>9.7</td>
<td>-3.3</td>
<td>2.0</td>
<td>-1.5</td>
</tr>
<tr>
<td>PE/GDP</td>
<td>22.0</td>
<td>23.0</td>
<td>22.0</td>
<td>21.0</td>
<td>22.0</td>
<td>25.0</td>
<td>23.0</td>
<td>25.0</td>
<td>28.0</td>
<td>27.0</td>
<td>28.0</td>
<td>31.0</td>
<td>33.0</td>
<td>30.0</td>
<td>30.0</td>
<td>28.0</td>
</tr>
</tbody>
</table>

Source: Calculated from data from the Ministry of Economy and Finance (DEPF)

Spending on education and health influences heavily the social indicators. Higher education and better health are the most effective ways to boost productivity, and thereby create added value in all economic sectors. This improvement is one of the surest ways to make growth sustainable, to ensure a better sharing of its fruits and thus to combat poverty.

Spending on education in Morocco is characterized by the predominance of operating expenditures, as shown in Table 2. The latter represents, on average, between 2000 and 2015, 93% against 7% for investment expenditures. The average share of education operating expenditures in the total Moroccan operating expenditures is 28%. As for investment expenditures, they are only 8%, on average, in total investment expenditures. In total, education spending absorbs, on average, 6% of GDP and 21% of total expenditure. This share (1/5 of 11 ministries) is important but the results are not. The education system is, therefore, ineffective because the budget is spent in...
an unequal way, without taking into account the population socio-economic situation and the spatial disparities. This situation makes the system a source of inequality (Khellaf, A., 2015).

### Table 2: Evolution of educational expenditure (in billions of DHS and %) between 2000 and 2015

<table>
<thead>
<tr>
<th>Year</th>
<th>EE</th>
<th>OEE</th>
<th>IEE</th>
<th>EE / GDP</th>
<th>EE / TE</th>
<th>OEE/OTE</th>
<th>IEE/ITE</th>
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<td>2000</td>
<td>11</td>
<td>90.6</td>
<td>9.4</td>
<td>2.4</td>
<td>10.6</td>
<td>29.8</td>
<td>8.6</td>
</tr>
<tr>
<td>2001</td>
<td>25</td>
<td>91.9</td>
<td>8.1</td>
<td>5.1</td>
<td>22.3</td>
<td>30.5</td>
<td>7.6</td>
</tr>
<tr>
<td>2002</td>
<td>29</td>
<td>91.7</td>
<td>8.3</td>
<td>5.3</td>
<td>23.1</td>
<td>31.7</td>
<td>11.1</td>
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<tr>
<td>2003</td>
<td>29</td>
<td>92.7</td>
<td>7.3</td>
<td>6.6</td>
<td>23.8</td>
<td>33.6</td>
<td>11.9</td>
</tr>
<tr>
<td>2004</td>
<td>38</td>
<td>93.8</td>
<td>6.2</td>
<td>6.2</td>
<td>26.7</td>
<td>33.3</td>
<td>9</td>
</tr>
<tr>
<td>2005</td>
<td>35</td>
<td>95.2</td>
<td>4.8</td>
<td>6.6</td>
<td>24.2</td>
<td>32.1</td>
<td>9.7</td>
</tr>
<tr>
<td>2006</td>
<td>37</td>
<td>93.4</td>
<td>7.1</td>
<td>6.9</td>
<td>23.2</td>
<td>31.2</td>
<td>10.7</td>
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<tr>
<td>2007</td>
<td>44</td>
<td>92.9</td>
<td>7</td>
<td>6.2</td>
<td>20.1</td>
<td>30.5</td>
<td>12.3</td>
</tr>
<tr>
<td>2008</td>
<td>45</td>
<td>93.1</td>
<td>11</td>
<td>6.1</td>
<td>22.7</td>
<td>25.5</td>
<td>9.4</td>
</tr>
<tr>
<td>2009</td>
<td>48</td>
<td>98.7</td>
<td>19</td>
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Source: Calculated from Data from the Ministry of Economy and Finance (TGR)

Public expenditure on health is relatively low in Morocco. Table-3 shows that, on average, over the period 2000-2015, it amounts to 5% of the total State expenditure. However, 10% is the international standard set by WHO (World Health Organization) (Khellaf, A., 2015). Their average share of GDP is only 1%: 85% of these expenditures are operating expenses, and 15% are investment expenditures. The Ministry of Health’s operating and investment expenditures represent, on average, 6% of total operating expenditure and 4% of total investment expenditure. All these indicators affirm that the sector is still confronted with the low level of health expenditure.

### Table 3: Evolution of health expenditure (in billion DHS and %) between 2000 and 2015

<table>
<thead>
<tr>
<th>Year</th>
<th>HE</th>
<th>OHE</th>
<th>IHE</th>
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Source: Calculated from data from the Ministry of Economy and Finance (TGR)

According to the 2007 ENVM, hygiene and health care are the fourth largest household expenditure for Moroccan households at the national level, with an annual average per person of 809.2 DHS as against 627 DHS in 2001. This expenditure is of 1055 DHS in urban areas with only 489 DHS in rural areas. It reaches 199 DHS in households of the poor class against 1993 DHS in the easier one.

With insufficient and unequal spending on education and health, our simulations require more importance. That’s why we will analyze the effects of some expenditures policies on the economic growth and standard of living of the households. These measures are: 1) a decrease of 10% of the total public expenditure (SIM1), 2) an increase of 10% of the expenses of education (SIM2), 3) an increase of 10% of expenditure allocated to the health sector (SIM3) and 4) a combination of the last two measures (SIM4).

d) Discussion of the Results

Public expenditure reforms are generally aimed at reducing government expenditures. A 10% reduction did not have a positive impact on GDP growth (-1.32%) even though almost all sectors recorded an improvement in their value added, demand and intermediate consumption. The decline in prices (-0.09) strengthens the competitiveness of the Moroccan product both in the domestic and foreign markets. Exports made gains in almost all sectors. The demand for work has increased which has resulted in lower wages.

The government's shortfall regarding income and savings following this measure is 6.55% and 0.9%, respectively.

On the other hand, the results obtained, by reorganizing social expenditures such as education and health, show that even if the government lost income (-6.32% for SIM2, -6.35% for SIM3 and -6.30% for SIM4), it won savings (+ 0.17% for SIM2, + 0.05% for SIM3 and + 0.22% for SIM4). We can explain this situation by the drop in transfers from the government to other agents, which allowed it to save more.

GDP improved by 0.52% (SIM2), 0.17% (SIM3) and 0.69 (SIM4). These results lead to the conclusion that among all the measures proposed, the most favorable policy for economic growth is that relating to the development of education and health (SIM4).
additional allocation of resources for these two social sectors could be more effective than a decrease in total public expenditures.

Regarding indicators measuring the standard of living of households, it is still the SIM4 that has recorded the highest growth rates among the poor and middle classes. Household income increased (1.99% for Q1, 1.87% for Q2, 1.85% for Q3, 1.73% for Q4 and 1.86% for Q5), leading to a larger increase in consumption (1.96% for Q1, 1.79% for Q2, 1.73% for Q3, 1.62% for Q4 and 1.76% for Q5) and an improvement in savings (1.75% for Q1, 1.79% for Q2, 1.73% for Q3, 1.62% for Q4 and 1.66% for Q5). For the tree indicators (YH, CMH, S_H), we can say that this measure is in favor of poor population (Q1, Q2, Q3).

IV. Conclusion

In this work, we tried to provide some answers to the problem of the effectiveness of fiscal policies, as a means of economic growth and the fight against poverty, by improving the standard of living of poor and middle-class households in Morocco.

From a methodological point of view, our analysis was based on a micro-simulated computable general equilibrium model to capture the impact of the proposed fiscal policies on the economy as a whole. The disaggregation of the MCS of the Moroccan economy made it possible to follow the variations of the different variables measuring the standard of living for all household classes.

Simulation results have shown that fiscal policy can serve the goals of economic growth and poverty reduction by contributing to the well-being of households.

Of all the measures proposed, the most effective for both objectives (growth and poverty) is the revision to the increase in education and health spending by 10% each.

References Références Referencias


sur l’activité économique au Québec et au Canada » (CIRANO).


Annex

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Saving

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CMH

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The Corporate Restructuring of IDCOL: The Need of the Hour

By Santosh Kumar Panda & Anup Kumar Samantaray

IDCOL: Problems and Prospects- Before throwing light on the research work, the researcher feels it proper to provide a brief overview of Industrial Development Corporation of Odisha Limited (IDCOL). Industrial Development Corporation of Odisha Limited (IDCOL) was established by the government of Odisha in the year 1969 with a mission to promote industries in the state of Odisha, which is poor, in spite of its mineral wealth. The objective of the establishment of IDCOL was to overcome the entrepreneurial deficiency in the state by setting up medium scale industries in Odisha, with a hope that the industrial growth will contribute to economic growth of the state, which is essential for addressing the spiralling poverty of the state. The vision was clearly demonstrated by the state government which preferred to keep pace with the rapid industrialisation in the country and for that matter, in the world. With an authorised capital of Rs. 50 crores, Industrial Development Corporation of Odisha Limited (IDCOL) started functioning and subsequently, Hirakud Industrial Work, Kalinga Iron Works, Ferrochrome Plant, Hira Cement Works, Hira Cables, Re-Rolling Mill, Boiler Piping and Accessories Works, Orichem Ltd., East Coast Breweries and Distilleries Ltd., ABC Spinning Odisha Ltd., Konark Jute Limited, NICCO Industries Ltd., SN Corporation Ltd. And other subsidiary units were established, which produced fabrication of transmission line towers, pig iron and cast iron, high carbon and low carbon ferrochrome, Portland cement, AAC and ACSR conductors, M.S. rods, fabrication of piping bend, Sod. Sulphate, beer, fine cotton and synthetic yarn, heavy cess cement bags, PVC cables, high tensile fasteners and other products respectively. Though Industrial Development Corporation of Odisha Limited (IDCOL) did good business and expanded its market in the initial stage, it suffered a decline after some years.

GJMBR-B Classification: JEL Code: A19
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1. IDCOL: Problems and Prospects

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This research work has been undertaken by adopting the case study of IDCOL Ferrochrome and Alloys Limited (IFCAL) with an objective of providing suggestion for restructuring of Industrial Development Corporation of Odisha Limited (IDCOL). IDCOL Ferrochrome and Alloys Limited (IFCAL) was established in the year 1969 and it was a reputed manufacturer of ferrochrome which is used for stainless steel and special steels. The variants of ferrochrome like High Carbon Ferrochrome (HCFC), Low Carbon Ferrochrome (LCFC) and Si chrome are being produced by IDCOL Ferrochrome and Alloys Limited (IFCAL) at present. The raw materials for IFCAL are procured from its own captive chrome mines at Talangi and supplies required grade of chrome ore to the plant for consumption. In the initial stage of its establishment, IDCOL Ferrochrome and Alloys Limited (IFCAL) was doing excellent business because of its quality products. Its products were exported to the countries like Japan, Italy, Romania, USA, Korea, Australia, Philippines and Nether land etc.

During the high peak period of IFCAL Plant, the production of High Carbon Ferrochrome (HCFC), Silico Chrome (SC) and Low Carbon Ferrochrome (LCFC) was 3780.5, 2782 and 2959.25 in M.T. respectively on average. The annual net turnover of the plant is 3780.5, 2782 and 2959.25 in M.T. respectively on average. The annual net turnover of the plant is approximately 300 million. IFCAL achieved the production to the tune of 5936 M.T. in the year 2007-08. Inventory resulting in a lower demand and reduced Ferrochrome globally production fell by 27.95% by 2009. Ferrochrome production in India has been stabilised at around 10000 MT per year since 2010, out of which about 50% is domestic consumption and the rest is being exported. India’s output was expected to increase by 10% in 2015. The expectation was due to improved domestic market condition and expanding
Industrial Development Corporation of Odisha Limited (IDCOL) reached the conclusion that corporate restructuring of its predecessor, after thorough study and analysis, has degenerated itself like anything. Its production has decreased, market has been contracted, employability has dwindled and technology adoption has not been up to the mark. In the policy making and regulatory mechanism, it has fallen short of global standard and the industrial unit known for its excellence and quality is on the verge of extinction.

The researcher convinced himself to undertake this project with an objective of providing suggestions for revival and rejuvenation of IDCOL Ferrochrome and Alloys Limited (IFCAL). On-spot visit, interaction with the stakeholders, study of literature, internet browsing and comparative analysis made the researcher assured that unless some viable and innovative measures are initiated by IDCOL Ferrochrome and Alloys Limited (IFCAL), the possibility of its existence is remote. Since IDCOL Ferrochrome and Alloys Limited (IFCAL) is a subsidiary unit of IDCOL, the structural change and reforms must be adopted by Industrial Development Corporation of Odisha Limited (IDCOL), to give a new lease of life to IFCAL. Hence, the case study of IDCOL Ferrochrome and Alloys Limited (IFCAL) is oriented towards restructuring of IDCOL, which will not only help rejuvenation of IFCAL but also other subsidiary units of Industrial Development Corporation of Odisha Limited (IDCOL).

For rejuvenation of Industrial Development Corporation of Odisha Limited (IDCOL), restoration of its past glory and for making it globally competitive, the researcher, after thorough study and analysis, has reached the conclusion that corporate restructuring of Industrial Development Corporation of Odisha Limited (IDCOL) is the only alternative.

II. The Rationale of Restructuring of IDCOL

The reason for degradation and decline of Industrial Development Corporation of Odisha Limited (IDCOL) are many and these have been discussed in detail in the thesis. With the present structure of functioning, the hope of its revival and rising up to the mark is flickering. Hence, the researcher has pondered over the critical aspects of corporate restructuring and has discussed how these can be implemented in case of Industrial Development Corporation of Odisha Limited (IDCOL). It goes without mention that Industrial Development Corporation of Odisha Limited (IDCOL) has not been functioning as was expected at the time of its inception. The survey by the researcher establishes the fact that if Industrial Development Corporation of Odisha Limited (IDCOL) is not restructured, the objective can never be fulfilled. The interaction of the researcher with different stakeholders convinces him that, with the present structure of functioning, the future of Industrial Development Corporation of Odisha Limited (IDCOL) is gloomy. The critical aspects of restructuring; revival and rejuvenation have not been given wise thought by the people who matter in the administration of Industrial Development Corporation of Odisha Limited (IDCOL). The on-spot visit, interaction, literature review, study of materials and tools of research by this scholar have validated the fact that some concrete attempts need to be undertaken to make Industrial Development Corporation of Odisha Limited (IDCOL) an agent competent enough to prove its credential in the globally competitive industrial market. It has to be immune from the traditional, monolithic and obsolete functioning. It must be worthy of market and profit. For this, the viable aspects of restructuring must be considered.

Across the globe, industries and companies are undergoing dramatic changes. Even the socialistic countries like China have risen to the occasion and have adopted the policy of restructuring. One of the most pragmatic aspects of restructuring is Public Private Partnership (PPP). The Union Government has framed the PPP Policy in order to revitalise the public sectors. It goes without mention that excessive political interference, widening gap between administrators and workers, lack of work culture, inadaptability of technology and etc. have crippled the Public Sector Undertakings (PSUs) in this country. The Union Government has adopted the PPP Policy, keeping in mind giving new dividend and dimension to PSUs. Odisha Government has also framed PPP Policy in 2007, falling in line with the central government. The objective behind the policy is mainly to bring in structural reforms in the industrial sectors and utilisation of human resource, particularly the youth force. The statistics tells us after adoption of PPP policy, there has been marked change in the industrialisation of Odisha which has ultimately boosted the state economy. The growth of GDP in Odisha over the national average bears the testimony to it.

III. Conclusion

It is high time Industrial Development Corporation of Odisha Limited (IDCOL) should go for restructuring through PPP mode. There seems to be no hope if it goes on being sustained by the government. Since all the attempts by the government have failed miserably, the researcher is pretty convinced that through PPP policy, Industrial Development Corporation of Odisha Limited (IDCOL) can be given a new lease. The researcher has also contemplated on different
aspects of restructuring, but the conclusion is that merger is the last option for Industrial Development Corporation of Odisha Limited (IDCOL). All over the world and also in India, merger/amalgamation has been successful for revitalising industry and for energising the market. The critical aspects of disinvestment, accounting policy, market possibilities with regard to merger have been discussed by the scholar and finally it is surmised that the possibility of merger of Industrial Development Corporation of Odisha Limited (IDCOL) with TATA will be a very pragmatic approach.
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Digital Economy and Communication Technologies: Methods and Mechanisms of Promotion through E-Commerce and E-Marketing

By M. Foued Sabbagh
Université De Sousse

Abstract- This paper focuses on the methods and the mechanisms of e-commerce and e-marketing, and the important role of international electronic companies in this vital and digital field. The spreaders of the digital economy and the techniques of information and communication technology are deployed with applications of e-commerce and e-marketing. Thus, the digital globalization opens the horizon of technological development and accelerates the growth of the use of modern techniques through the innovation of the digital economy in our daily lives. In addition, the modernization of companies in the field of electronic marketing and electronic commerce has a direct impact on the strategic relationship between internet users, information, technology and business. In this sense, my theoretical study determines methods and mechanisms of promotion through electronic commerce and electronic marketing during the revolution of the digital economy and the technologies of modern and social communication.

Keywords: the digital economy; the communication technologies; electronic marketing; electronic commerce; methods and mechanisms.

GJMBR-B Classification: JEL Code: L81

Strictly as per the compliance and regulations of:
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M. Foued Sabbagh

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Keywords: the digital economy; the communication technologies; electronic marketing; electronic commerce; methods and mechanisms.

I. Introduction

The term of digital economy or even the economy of the internet refers to all economic and social activities that are allowed by the Internet and the other information and communication technologies (Georgiadis C. K, Stiakakis E et Ravindron A. R (2013)). Plus tard, la question des techniques de communication modernes est déployée avec des applications de commerce électronique et précisément au début des années quatre-vingt-dix du siècle dernier. La diffusion et la croissance de ce commerce parmi des milliers d’êtres humains utilisant ces moyens modernes ont contribué positivement à la levée des profits et de l’enrichissement rapide des commerçants électroniques. Ce qui indéniable a renforcé l’importance des échanges commerciaux à travers le marketing en ligne, il est met l’investissement de ces moyens dans l’application des principes du marché à travers les produits et les services d’approvisionnement et leur distribution et mise à niveau. L’apparition des techniques de communication moderne est déployée avec des applications de commerce électronique et précisément au début des années quatre-vingt-dix du siècle passé. La propagation et la croissance de ce commerce entre des millions d’êtres humains utilisateurs de ces moyens modernes a été contribuée de manière positive dans la levée des bénéfices et de l’enrichissement rapide des commerçants électroniques. Ce qui indéniable a renforcé l’importance des échanges commerciaux à travers le marketing en ligne en raison de l’utilisation croissante de ce réseau, il est met l’investissement de ces moyens dans l’application des principes du marché grâce à l’offre des produits et des services et de leur distribution et de promouvoir. D’où, lancé la révolution du commerce moderne, lesquelles peuvent être de facilitation du processus de vente et d’achat pour des...
millions de personnes avec diligence et l’efficacité de qualité et la promotion de tous les produits du même processus de commercialisation sur le web. L’étude de Brynjolfsson E et Hitt L.M (2000) explique quand les entreprises qui utilisent la technologie de l’information pour changer leur façon de faire des affaires disent souvent que leur investissement complète les changements dans d’autres aspects de l’organisation. De plus, les innovations technologiques liées à la commercialisation d’internet ont considérablement réduit le coût de la mise en place de liens électroniques pour la chaîne d’approvisionnement. L’élaboration de techniques modernes de communication sur Internet a permis de marketing électronique du département des relations commerciales entre les consommateurs et les sociétés électroniques mondiales de façon la cour et hautement organisés. Le marketing est un moyen des sociétés rentables de vous les dividendes et bénéfices plus vivre une vie meilleure. L’Internet est devenu aujourd’hui un espace commercial important où les produits proposés à la vente et sont témoins d’une demande croissante pour l’achat de ces produits par d’innombrables et ne pas être pris en considération. Les sociétés de promouvoir leurs produits électroniquement ont augmenté les sites de vente et d’achat et de plus en plus avec nombre des clients promoteurs avec commission les marchandises de ces sociétés. Beaucoup des gens considèrent que le commerce électronique était un des sites infructueux aucune approbation, et nul n’achète ou de confiance et les considère comme les fraudes et dressées électroniques, mais bien plus que cela. Ba S, Whinston A.B et Zhong H (2002) disent que des millions de dollars changent de mains tous les jours grâce aux marchés aux enchères en ligne. Cependant, la fraude a augmenté sur ces marchés. En utilisant une approche de théorie des jeux, nous proposons une conception d’un mécanisme d’incitation économique, le tiers de confiance (TTP), pour servir les communautés d’enchères en ligne. Le commerce électronique a de nombreuses sections en fonction de la compétence de chaque entreprise électronique dont marketing commercial par la société au consommateur (C2B), les sociétés aux sociétés (B2B), les consommateurs aux consommateurs (C2C), des consommateurs aux sociétés (B2C), commerce électronique à but non lucratif (Non-business EC), le commerce électronique entre entreprises, le commerce d’une société à une société au consommateur (C2B2B), dans la section à l’intérieur de la société (intra business), de l’entreprise à ses employés (E2B), le commerce coopératif (C-commerce) et du gouvernement à ses nationaux ou à des entreprises (E-Government). On peut, la répartition des rôles de marketing électronique via le marketing mix en vigueur sur les marchés internationaux du commerce électronique par exemple recherche du marché des produits et des services, de prix, de lieu et de distribution et également de l’annonce et de promotion et de publicité. Après l’établissement du système de commerce électronique via le marketing mix procédé pour déterminer les méthodes et les mécanismes de marketing électronique des produits par Internet pour transformer ce dernier en des énormes espaces commerciaux importants contenant tous les produits des pays du monde entier. Tout d’abord, les moyens de promouvoir la division du marché et cibler les marchés, de positionnement sur le marché, la stratégie du marché et les types de marketing. Deuxièmement comprennent des mécanismes de promotion des produits à de nombreuses branches commerciales des entreprises de commerce électronique et de marché électronique et de marketing en réseau, commerce électronique partiel, des systèmes d’information entre les institutions et les marchés électroniques, des systèmes d’information entre les institutions et les modèles de revenus partagés.

Certains donnent le marketing électronique un changement radical dans le concept de commerce d’étroits du marché intérieur fermé à un grand marché extérieur ouvert à l’univers, y compris un grand mouvement de l’offre et de la demande. L’évolution du système de marketing électronique pour inclure les changements modernes dans le monde de la technologie numérique et le commerce électronique est devenu une grande préoccupation par les fonctionnaires déclare comme un facteur positif en limitant le chômage et offre des possibilités d’occuper de nombreux cadres et diplômé des universités, en particulier dans le domaine du commerce international, comme ainsi que fournit un état des recettes importantes de devises. L’essai de Zhou L, Zhang P et Zimmermann H.D (2013) commence par donner un bref aperçu de la recherche et de la pratique du commerce social à la lumière de la grande attention qu’il a portée dans l’industrie. Ensuite, nous proposons un cadre de recherche avec une vision intégrée du commerce social à la lumière de la grande attention qu’il a portée dans l’industrie. Ensuite, nous proposons un cadre de recherche avec une vision intégrée du commerce social qui se compose de quatre éléments clés tels que les affaires, la technologie, les personnes et l’information. Dans cet article sur l’e-commerce et l’e-marketing, je me concentrerai sur les méthodes et les mécanismes de marketing et les bases et les entreprises électroniques internationales dans cette économie critique et numérique, également la règle importante de la technologie de communication de l’information. Donc, quel est le concept de l’e-commerce et de l’e-marketing sur les marchés mondiaux? Et quelles sont les méthodes et les mécanismes de l’e-marketing?

II. Commerce Électronique

Le commerce électronique est une notion nouvelle a émergé avec l’évolution récente dans le domaine de la mondialisation numériques et des techniques modernes de communication. Le monde des communications par les réseaux Internet a défini le
commerce électronique comme moyen ouvre la voie à la vente et l’achat ou l’échange de produits, de services et d’informations. En outre, les applications de commerce électronique sont divisées en trois parties, comme suit l’achat et la vente de produits et services dits du marché électronique, à la facilitation et la conduite de la circulation de l’information et de la communication et la coopération entre les entreprises et entre les différentes parties d’une seule société est enfin de fournir un service à la clientèle. L’application des technologies internet pour intercaler les transactions a conduit à la croissance incroyable des marchés électroniques interentreprises (B2B) basés sur internet et des ventes interentreprises en ligne (Dai Q et Kauffman R.J (2002)). La recherche sur les technologies de l’information et leurs impacts fournit une riche ressource pour étudier les différents modèles d’affaires des marchés électroniques B2B et la dynamique de l’adoption organisationnelle des marchés électroniques. Il peut classer le commerce électronique par la nature des transactions commerciales des sociétés électroniques internationales. Je peux classer le commerce électronique par le biais de la nature des opérations commerciales des sociétés internationales électronique. Fig.1. Cette classification représente le vaste domaine aux opérations de vente ou l’achat ou l’échange de produits, de services et d’informations via l’Internet et les clients ou des agents intermédiaires internes ou externe. Cette relation constitue le lien entre les entreprises et le consommateur ou la relation directe entre l’un d’eux et une autre partie.

- Marketing commercial de la société au consommateur (C2B)

Cette opération représente le processus de vendre des produits, des services et des échanges commerciaux entre les entreprises et le consommateur, comme la société Dell et Amazon. Ce traitement est classé dans les ventes directes au consommateur par la vente de détail sans présence d’un intermédiaire commercial.

- Marketing commercial des sociétés aux sociétés (B2B)


- Marketing commercial du consommateur au consommateur (C2C)

Le marketing représente l’échange commercial du consommateur au consommateur directement. L’étude de Ba S, Whinston A.B et Zhang H (2002) confirme la création de la tierce partie de confiance (TTP) parce que cela pourrait être une excellente opportunité commerciale. Tout comme truste (http://www.truste.com) et Biz Rate (http://www.bizrate.com) jouent actuellement un rôle important dans la construction de la confiance dans les marchés électroniques, le modèle TTP proposé met en lumière un nouveau type de TTP, ce qui peut promouvoir de manière significative la confiance dans les marchés d’enchères en ligne de consommateur à consommateur (C2C). Alors que relève l’opération de vente d’un produit entre consommateur et un autre consommateur directement. D’où, le consommateur a mis des annonces sur le site web pour la vente des fins personnelles ou des expériences. Il existe aussi des enchères sur l’Internet comme le site eBay.

- Marketing commercial des consommateurs aux sociétés (B2C)

L’opération commerciale des consommateurs individuels aux sociétés qui vendent des produits ou services aux sociétés comme la vente de produits d’artisanat ou traditionnelles à des sociétés relevant de la protection du patrimoine. Fig. 5. Illustre quatre éléments essentiels du commerce social, leurs relations d’alignement et d’intégration et d’adéquation stratégique entre la stratégie et les niveaux d’infrastructure dans chaque élément. L’ajustement stratégique est intrinsèquement (Zhou L, Zhang P et Zimmermann H. D (2013)). En effet, les choix faits par une entreprise ou une entreprise évoqueront des actions d’imitation au fil du temps, ce qui nécessitera des réponses d’autres concurrents (Henderson J. C et Venkatraman N (1993)). Cet argument explique le commerce social avec l’alignement stratégique sur les affaires, la technologie, les personnes et l’information.

- Commerce électronique à but non lucratif (Non business EC)

Cette opération représente de l’utilisation de différents types de commerce électronique pour réduire les coûts et d’améliorer le fonctionnement de l’administration et des institutions à but non lucratif. Nous rappelons ici les institutions religieuses et sociales.

- Commerce électronique entre les sociétés (Interbusiness)

Cette opération représente l’échange commercial sur le réseau interne de la société, qui
comprend l’échange des produits, des services ou de l’information. Le but de cette opération est de réduction des coûts de gestion de l’institution et de formation les travailleurs sur le réseau d’Internet.

- **Marketing commercial d’une société à la société au consommateur (C2B2B)**

Cette opération représente de l’échange commercial d’une société à une autre société et ensuite aux consommateurs individuels. Là, la société achète le produit et ensuite le vendre au vendeur en détail, et puis, ils les vendent directement aux consommateurs.

- **Marketing commercial de section à l’intérieur de la société (intrasbusiness)**

L’opération commerciale représente toutes les activités et les informations internes de la société impliquant des échanges de biens et de services ou de l’information entre les différentes sections et des individus au sein de la société sans intermédiaire commercial. Ce type dépend de plusieurs unités différentes, chaque unité a spécialisé la fabrication des pièces spécifiques et vendu à une autre unité au sein de la société.

- **Marketing commercial de la société à ses employés (E2B)**

L’échange commercial représente de biens ou de services ou d’information de la société à ses personnels individuels. Ici, la société fournit aux employés de certains produits à un prix et des rendements préférentiels reviennent la société directement.

- **Commerce de coopération (C-commerce)**

Cette opération commerciale coopérative a pour objectif essentiel la coopération sous forme électronique entre les personnes ou les groupes à distance pour faire l’opération commerciale électronique telle que la conception et la production d’un produit.

- **Commerce électronique du gouvernement à ses citoyens à des sociétés (E-Government)**

L’opération représente le processus de coordination gouvernemental de l’exécution et de la simplification des procédures de gestion grâce à l’achat ou la fourniture de produits ou de les informations ou à ses citoyens particuliers ou des sociétés par le site Web électronique du ministère. Le gouvernement électronique ou on dit également l’administration publique électronique prendre trois formes principales sont:

  - Relation entre le Gouvernement avec ses Citoyens (C2G).
  - Relation entre le Gouvernement avec le Gouvernement (G2G)
  - Relation entre le Gouvernement avec les affaires (B2G).

Le travail du gouvernement électronique représente la face officielle de la société du savoir et de l’économie numérique dans le cadre de la mondialisation économique et commerciale internationale afin de simplifier les relations avec les structures administratives et les citoyens et toutes les affaires à distance.

## III. Marketing Électronique

L’idée de marketing électronique via le marketing mix a débuté de l’année 1964, et cela par la théorie de professeur de l’Université de Harvard de business Neil Borden. Fig.2. Cette méthode comprend, un mélange lui appelé marketing mix contient 12 éléments de marketing. Cependant, Jérôme McCarthy et Four Buze sont ce qui a précédé à jeter les bases de cette combinaison composée de quatre lettres majuscules commençant par la lettre « P ». Il y a aussi un débat continu dans des universités américaines de savoir s’il convient de modifier les éléments de marketing mix pour gérer les affaires de marketing électronique. D’où, toutes les parties commerciales sont travaillées à acquérir une plus grande part du marché visé pour s’efforcer de contrôler et d’influer sur le comportement d’achat des consommateurs par les stratégies de marketing adoptées. Les sociétés électroniques mondiales ont adopté un ensemble des influences extérieures dans le but d’influencer le comportement d’achat des consommateurs pour les amener à se précipiter à leur produit et de contrôler le marché par des intermédiaires, des agents de la promotion et de la vente directe. Le marketing commercial par la méthode de marketing mix est composé de sP4 ainsi que le principal élément, c’est compter sur la recherche du marché qui regroupe des communications et de la société, et ainsi que le processus de commercialisation électronique sur Internet combine des éléments de marketing électronique mix comme suit:

  - **Recherche sur le marché (Market Research)**

Le marketing d’un produit particulier procède d’abord par identifier les besoins et les désirs et les préférences, et le comportement et les réactions des consommateurs prospectives, et le meilleur moyen d’atteindre le consommateur est les enquêtes directes à travers des contacts ou par avis de sondage. Aussi, la collecte des informations sur le marché et de déterminer la demande croissante sur la qualité de ce produit. En outre, de concentrer la recherche sur l’étude des concurrents et les variables du marché et la qualité des produits.

  - **Produit (Product)**

Les technologies modernes ont contribué de l’affectation des services supplémentaires pour un client donné. Alors que le client est devenu un consommateur...
demande un produit donné en ligne de certains pays du monde et de toute boutique commerciale choisie rapidement et facilement. En outre, le consommateur peut avoir accès à tous les types de produits électriquement dans quelques minutes. Il pourrait également pour le consommateur à demander des modifications spécialement adaptées à ses besoins et ses désirs. Ici se fait l’opération de la fabrication, de la production des produits demandés par le consommateur. D'où, l’opération de fabrication de produits se fait via le site web spécial sur lesventes comme suit, la demande des consommateurs qui souhaitent par la sélection de conception, peinture, couleurs, taille, mesure et autres, puis le client faire l’achat de produits et le site faire de fabriquer des produits requis et d’emballage et d’expédition.

- **Prix (Pricing)**

Le prix a constitué les principales substances du marketing pour commercialiser de tout produit par l’Internet, le consommateur est devenu influencé dans une large mesure au prix de ce produit avant de l’acheter. Le prix de ce produit est fait du calcul des taux de frais et des impôts et d’assurance. Ces facteurs ont une influence considérable sur le consommateur, ou ce dernier en comparant les prix d’une meilleure et plus facile entre un grand nombre d’entreprises électriques concurrentes sur le marché mondial sur l’Internet. L’évolution du marketing commercial sur Internet a ouvert un champ plus large pour le consommateur de choisir le juste prix pour leurs besoins et leurs désirs. Par conséquent ici, l’opération de fourniture qui souhaite se fait par le prix approprié et accessibles en revanche financière de consommateur capable de payer l’achat d’un produit donné.

- **Promotion et Publicité (Promotion and Publicity)**

Le recours à des moyens techniques modernes sur l’Internet a permis aux entreprises d’adopter des méthodes de promotion et de propagande et de la déclaration de coût et de haute qualité pour attirer des consommateurs pour acheter un produit donné. Cette méthode a facilité les travaux publicitaires d’informer le client requis pour la qualité et le prix de ce produit. Elle a également contribué aux désirs du consommateur de manière électronique modernes de haute qualité. Cette activité de promotion est connue qu’une activité de communication direct du marketing avec le client requis de lui dire, ou de le persuader ou lui rappeler d’accepter ou à la restitution d’achat grâce à un ensemble de directives et de conseils. Les éléments de marketing mix peuvent être énumérés dans l’annonce, la promotion des produits selon les désirs du consommateur et les changements du marché.

- **Distribution et vente (Placement and Sell)**

La méthode de distribution suivie par la société conformément aux désirs des consommateurs et à travers le transporteur des produits de l’usine et jusqu’au client ou consommateur. La distribution comprend l’identification des zones géographiques ciblées et la place celui qui veut le consommateur ainsi qu’à la distribution physique, de stockage et de transport direct. L’évolution de systèmes électroniques modernes Internet est devenu un espace commercial mondial, de façon que le consommateur n’ait plus besoin d’aller au marché, ou la recherche d’un produit ne peut pas obtenir facilement, ou de payer l’argent. La distribution et la vente sur l’Internet avec des cartes de crédit facilite l’opération de la vente directe à distance rapidement et de qualité et de haute technologie. Dans cette raison, l’asymétrie de l’information peut conduire à l’inefficacité du marché, on peut concevoir et créer des tiers de confiance pour réduire les informations asymétriques et ainsi prévenir les défaillances potentielles du marché (Ba S, Whinston A.B et Zhang H (2002)).

**IV. Les Méthodes Et Les Mécanismes De Promotion**

L’opération de promotion du commerce par Internet en se fondant principalement sur les méthodes et les mécanismes de promotion électronique modernes sur les marchés mondiaux. La méthode de promotion comprend la division du marché, de cibler les marchés, positionnement sur le marché, la stratégie de marketing et les types de marketing approuvés. Les mécanismes de promotion électronique des produits peuvent être classés e-business, de marché électronique et de marketing en réseau, commerce électronique partiel, des systèmes d’information entre les institutions et marchés électroniques, des systèmes d’information entre les institutions et les modèles de recettes partagés. Le marketing commercial des produits sur Internet commence grâce à l’élaboration d’un concept global de toute evidence à l’objectif de la société et de l’objet de sa création. Cette voie de marketing vise à élaborer des cadres juridiques et des bases de travail des sociétés et leurs relations avec leurs clients et leurs intermédiaires promoteurs des produits. Dans chaque histoire de succès de promotionnel commercial se trouve le marketing électronique en une main de lui. La connaissance de marketing est devenue aujourd’hui la façon de devenir riche rapidement dans une société du savoir et de l’économie numérique. L’objectif du tiers de confiance (TTP) est de faciliter la création de la confiance dans l’environnement en ligne et de contribuer à réduire la fraude en ligne grâce à l’utilisation de la réputation (Ba S, Whinston A.B et Zhang H (2002)). Le mécanisme combine les aspects de l’économie numérique et de la technologie de la communication de l’information des transactions en ligne. La maîtrise de vente par commission ou la vente directe représentent pour certain commerçant
électronique une façon de tirer des bénéfices considérables de façon légitime et juridique.

a) Les méthodes de promotion électronique

Le métier de marketing est la conduite de toutes les formes d’activités d’une société électronique qui regroupe toutes les parties des commerçants, les promoteurs, les intermédiaires et les clients jusqu’à la fin de la procédure de vente de produits. En ce sens, la classification des recherches sur le commerce électronique par thèmes communs tels que les applications, les questions technologiques, le soutien et la mise en œuvre et d’autres méthodes augmentant le volume de la recherche sur le commerce électronique a été mené dans plusieurs domaines (Ngai E.W.T et Wat F.K.T (2001)). Le marketing définit pour l’entreprise le marché de son intervention et de toute marchandise à vendre et la planification de promotion grâce à l’élaboration des méthodes de vente électronique. Fig.3. Le génie du marketing Philip Kotler rappelle par l’application de son analyse marketing dont l’activité saine de la société réside dans un endroit approprié d’une place dans le marché. Cette théorie peut se résumer en trois mots (STP) Segmentation, Targeting, Positioning. En outre, on peut augmenter les deux éléments importants des méthodes de promotion sont la stratégie de marketing par une analyse de la situation de la promotion et puis de définir les différents types de marketing.

- **La division du marché (Segmentation)**

L’objectif de ce processus est la segmentation du marché en plusieurs sections et des groupes afin de trouver des vastes domaines peuvent apporter des bénéfices substantiels en faveur de l’entreprise. On peut diviser le très grand marché sur la base de trois façons différentes:

- **La Première Méthode**: il est essentiellement que le facteur démographique mention ici le facteur d’âge, de revenus, de l’éducation et de l’emploi. Un exemple de la société L’Oréal des produits cosmétiques éliminés les rides de peau dit qu’il est destiné aux femmes selon le facteur de l’âge de 35 à 50 ans.

- **La Deuxième Méthode**: ici on peut diviser le marché selon les besoins, car il y a ceux qui voudraient d’apporter au moment de sortir des achats par une demande d’un produit donné à distance. Cette tranche de population préfère les achats par téléphone ou par Internet et du raccordement à domicile ou du lieu de travail. Cette méthode comprend essentiellement, une catégorie donnée au revenu individuel est élevée ou d’un niveau d’éducation élevé, avec une expérience de l’utilisation des applications de téléphone portable ou de l’Internet.

- **La Troisième Méthode**: dépend de la qualité de la proportion des personnes qui préféraient le choix du site promoteur suivant le mode de comportement, et non par l’intermédiaire de leurs besoins individuels. Exemple une catégorie des personnes qui demandent la nourriture sur le site électronique particulière.

- **Cibler les marchés (Targeting)**

Les annonces publicitaires ont contribué de manière décisive à l’activité du marché de commerce électronique et donc à déterminer les caractéristiques de l’activité de la société et leur viabilité. La prise pour cibler le marché consiste à choisir une fraction de leurs clients en rapport avec les produits qui incitent à l’Internet. Par conséquent, ce ciblage permet de réaliser des bénéfices et le manque de concurrence avec d’autres parties de la société électronique mondiale qui promeut un produit particulier.

- **Le positionnement sur le marché (Positionning)**

Ce terme scientifique est marqué en matière de marketing des produits électroniques avec les auteurs d’Al Ries et Jack Trout en 1982 dans leur livre « Le conflit de s’emparer de l’esprit ». C’est là se fait l’identification du produit de la mettre devant aux yeux des clients d’élaboration au sein de l’esprit des clients. Les qualités des produits varient et prennent diverses formes, dont il était préférable et plus rapide et la plus sûre et la moins chère et le plus beau, mais le marketing vous fait devant un seul choix et celui d’identifier une seule qualité d’un produit veut d’acheter. Le marketing vous assure une qualité donnée d’une société donnée pour une tranche donnée. Le choix d’un site au sein d’un marché a identifié la qualité de produit, est vendu pour une tranche, des clients ont été convaincus de la qualité de ce produit.

- **Stratégie de Marketing (Marketing Strategy)**

Chaque élaboration d’un plan de marketing doit contenir des éléments essentiels et des facteurs sont identifiés avant le début de la promotion du commerce. La stratégie de marketing consiste à fixer des objectifs sont définis en temps voulu et approprié et d’étudier toutes les possibilités. Fig.3. Le plan de stratégie de marketing s’articule dans cinq choses qu’ils appellent les lettres de C Cinq (5C’s) et sont les clients (Customers), la société (Company), les concurrents (Competitors), les collaborateurs (Collaborators), le contenu (Context). Ces facteurs ont considéré la plus importante partie de marketing pour vous et pour votre activité et pour votre société et vous avez réalisé des bénéfices considérables.

- **Analyse Des Clients (Customers Analysis)**: La promotion d’un produit particulier exige une analyse des caractéristiques des clients virtuels grâce à une sélection appropriée du produit à leurs désirs. À cet
égard, les chercheurs ont trouvé dans le domaine du marketing de l'existence de cinq rôles joués quelqu'un à l'achèvement d’une opération d’achat. Par conséquent, ces rôles distincts sont distribués en fonction de besoins et de désirs ainsi que le promoteur fait le suivi et l’analyse.

**Initiateur:** Recherche sur Internet du produit désiré.

**Rapporteur:** De prendre la décision qui convient à ses besoins et ses désirs.

**Influenceurs:** Affectée par les opérations de promotion et de ne pas prendre la décision finale des achats.

**Acheteur:** Le client est mis en œuvre avec succès le processus d’achat d’un produit.

**Utilisateur:** Celui qui faisait l'utilisation d’un produit qui a acheté.

✓ **Analyse de la Société (Company Analysis):** L’opération est faite en analysant les capacités et les points de faiblesse de la société et d’un produit offre de la promotion. En plus l’analyse des capacités financières et la productivité d’une part et leurs capacités de recherche et de développement de l’autre part. Il faut identifier tous les actifs de la société productive du produit considéré.

✓ **Analyse des Concurrents (Competitive Analysis):** Dans ce domaine d’analyse pour les concurrents sur le marché électronique doit d’abord déterminer les concurrents actuels et potentiels. En plus de comprendre les points de leur force et de leur faiblesse de façon bien. Donc de mettre des méthodes et des moyens spéciaux pour le marcheur commercial du produit différent et se distinguent des autres. Il faut en outre évaluer les objectifs et les stratégies des concurrents pour anticiper les réactions des concurrents sur le marché électronique.

✓ **Analyse des Collaborateurs (Collaborator Analysis):** Les entreprises électroniques mondiales ne peuvent pas tout faire elles mêmes pour cela, vous avez besoin de ces sociétés à des nombreux promoteurs et des intermédiaires de la société et de produits destinés à la vente. Ces partenaires sont considérés la société des collaborateurs, telles que les distributeurs et les fournisseurs. Il convient à cet égard d’analyser la qualité des promoteurs grâce à la compréhension et un bon potentiel d’appréciation de chaque partenaire de la société, vous pouvez compter sur le promoteur dans le temps et les lieux de vente à droite.

✓ **Analyse du Contenu (Context Analysis):** La politique de marketing commercial électronique des produits sur l'Internet ou le marketing à travers la vente directe non fixe et son contenu toujours en changement. Les événements du monde ont connu dans le domaine de la technologie numérique en une relation directe avec la culture des clients et qui peuvent produire des surprises inattendues pour le marcheur. La valeur des produits et des services détermine les besoins et les désirs des acheteurs et les changements de la culture de la société, tels que Pepsi, McDonalds et Adidas. Ces évolutions sont appelées dans le marketing commercial par la mode, le chic et la dernière marque. Alors que la valeur des produits proposés dont la vente a affecté et a changé la culture des acheteurs. Ces résultats doivent être identifiés et analysés et pris en considération. Ainsi, Jack Welch le directeur de l’administration électronique le plus connu au cours des vingt ans a montré que le marketing n’est pas la tâche des travailleurs, et que la tâche de tous les employés de l'entreprise.

- **Types de Marketing électronique (e-Marketing Types)**

L’évolution qui a connu les sciences technologiques modernes et de l’espace numérique dans la société du savoir et de l’économie numérique font le réseau d’internet un espace commercial considérable partager à toutes les parties concernées par les autorités locales ou nationales aux commerçants électroniques et aux distributeurs. Ainsi, le commerce électronique est également devenu une culture scientifique et professionnelle et enseigné leurs programmes dans les grandes universités des affaires et du commerce dans le monde. Le marketing électronique est devenu une importante nécessité de la vie des institutions et les usines et les sociétés commerciales locales et internationales. Des certaines de millions de personnes qui connectent sur le réseau d'Internet chaque jour dans tout le monde entier, en particulier par des moyens de communication sociale et de courrier électronique. Il est aussi devenu l’Internet une chaîne de marketing mondial à grande échelle et un marché ouvert au plan international pour la promotion des produits et des services et devenu aussi un espace des affaires pour obtenir des rendements financiers élevés de bénéfice. Fig. 6. Zhong Y (2012) explore les concepts de commerce social, le comportement des consommateurs dans le commerce social, les modèles d’affaires et les modèles de revenus du commerce social. Dans notre monde 350 millions d’utilisateurs s’engagent avec Facebook sur les téléphones mobiles, d’autres utilisent plus de plate-forme des médias sociaux ou se connecter avec Email. Les technologies de l’information et de la communication (TIC) adoptant un modèle peuvent être un outil très utile pour explorer la motivation des consommateurs dans le commerce social. En outre, l’Internet est devenu le domaine commercial des entrepreneurs sans capital ou un coût simple a réalisé des bénéfices considérables. Toutes les études gouvernementales du monde ont montré que le commerce électronique constitue une nouvelle génération des commerces modernes et que le
commerce traditionnel est devenu du temps passé. Aussi tous les rapports confirment que les nouveaux riches dans le monde sont celles qui peuvent créer des sites du commerce sur l'Internet ou à promouvoir les produits grâce à la vente directe. Ce qui est sans aucun doute que le travail à distance sur l'Internet a ajouté des moyens de promotion sont les types suivants peuvent être cités:

- Sites d’annonces gratuites sur Internet.
- Les Forums publics et spécialisés.
- Annuaires et index des sites web.
- Pages des sites Web.
- Sites des médias sociaux.
- Sites des vidéos.
- L’annonce en des clics sur les moteurs de recherche.
- L’annonce en des clics sur les sites sociaux.
- Courrier électronique d’annonce et des campagnes de promotion.
- Sites des annonces payantes.
- Blogs de l’entreprise à travers la communication directe avec les clients et expliquer les produits.
- Les magazines et les journaux électroniques.
- L’annonce par les moteurs de recherche.
- Le web design pour faire connaître les produits et les services.
- La création des boutiques commerciales électroniques.
- Publicité des sites de propagande.
- Le marketing à travers les recommandations.

Parmi les plus importants points qui sont ajoutés par le site internet pour comprendre les besoins et les désirs et les actions des clients sur les sites web électroniques et commerciaux et de comprendre ce qu’ils aiment et ce qu’ils ne veulent pas. Aussi une évaluation scientifique et professionnelle de l’exécution et l’efficacité des campagnes publicitaires de marketing électronique.

b) Les Mécanismes de Promotion Électronique

L’opération de vente ou l’achat ou l’échange des produits et des services et des informations sur l’Internet dépend de nombreux mécanismes de promotion en fonction de la compétence de chaque société électronique dans un domaine donné de marketing et de vente. Les preuves sur la manière dont les investissements dans les technologies de l’information sont liées à une productivité et à une transformation organisationnelle accrues, en mettant l’accent sur les études menées au niveau des entreprises (Brynjolfsson E et Hitt L.M (2000)). Les stratégies de promotion depuis lors ont considérablement amélioré la compréhension de la relation entre les technologies de l’information, la transformation organisationnelle et la performance de l’entreprise. Fig. 4. Des multiples expressions du commerce électronique prendre des formes multiples et diverses parmi eux on note le commerce électronique (e-business), le marché électronique (e-Marketplace), le marketing de réseau web (Network Marketing), le commerce électronique partiel (Click-and-mortar), les systèmes d’information entre les institutions et les marchés électroniques (Inter-organization Information Systems), les systèmes d’information entre les institutions (Intra-organization Information Systems) et les modèles de recettes communs (Marketing Models).

- Les affaires électroniques (e-business)

On peut définir les affaires électroniques selon la notion de l’utilisation des techniques modernes et les réseaux électroniques pour le développement et la distribution des affaires commerciales ou la création des nouvelles affaires virtuelles. Cette définition à élaborer des cadres de base du commerce électronique et la distribution des rôles et l’identification les relations entre les clients, les intermédiaires, les promoteurs et les partenaires commerciaux. En plus de ça de faire les opérations commerciales électroniques et les échanges commerciaux grâce à la vente ou l’achat de produits et de services et d’informations.

- Le marché électronique (e-Marketplace)

La révolution des technologies de communication numérique a mis au point un nouveau concept de l’économie connaît par l’économie numérique et également appelée l’économie de l’Internet, la nouvelle économie, ou de l’économie du web. Cette définition est l’expression d’un marché commercial représente l’échange des produits électroniquement et un forum entre le vendeur, l’acheteur et le promoteur des différents produits. En plus les opérations financières et les échanges d’informations électroniques par l’Internet.

- Le marketing de réseau web (Network Marketing)

C’est l’expression de marketing commercial des produits grâce à des applications d’Internet qui aideront de continuer à des amis ou des partenaires des affaires ou des personnes partageant les préoccupations particulières par la recherche des besoins et des désirs des produits donnés. Ainsi, grâce à la vente directe entre les individus et par définition de produit et de le promouvoir par commission grâce à un réseau social regroupant tous les distributeurs et les bénéficiaires. Le marketing du réseau web est nommé de la société, des personnes signifie que toute personne peut relais se commerce et devient la directrice d’une société internationale comme un distributeur local ou international afin de lui fournir un service d’un réseau des clients et des commissions. Le marketing de réseau représente l’abandon de la société mère producteurs des produits de supporter la charge de l’administration et de la vente en faveur des agents promoteurs leur produit en échange de matériel à déterminer en fonction.
du nombre des clients polariseurs et la commission obtenue par le distributeur.

- Marketing électronique partiel (Click-and-mortar)

Tables. 1. L’économie numérique est une série d’activités économiques, sociales et culturelles qui sont effectuées en ligne et qui sont liées à l’utilisation de la technologie de l’information et de la communication (TIC). Grâce à ces tables statistiques, nous observons une tendance à la hausse dans l’utilisation des technologies de l’information et de la communication (TIC), ainsi que des investissements dans ce domaine, en particulier dans les pays développés tels que la France et le Japon. L’économie numérique est la convergence de l’économie, de l’informatique, des (télés) communications, de l’informatique et de la numérisation. Il est basé sur des ressources intangibles telles que l’information, l’innovation, la créativité, etc. (Zupan G (2016)). Les principaux éléments de l’économie numérique sont la numérisation et l’utilisation des TIC, la conversion de l’information en valeur marchande et de nouvelles façons d’organiser l’économie, les processus d’affaires, le travail et la production. La croissance de l’économie numérique a un impact sur l’ensemble de l’économie. L’utilisation plus intensive des TIC et l’évolution des habitudes de consommation, exigent que les entreprises et les organisations s’adaptent aux nouvelles conditions et exploitent les avantages du monde numérique. Le marketing électronique partiel représente la combinaison commune du commerce traditionnel et du commerce électronique, d’où l’opération du commerce électronique est divisée en deux parties la première partie électronique et la deuxième concrète. Alors que le produit que le promoteur combine entre deux types de commerce.

- Les systèmes d’information entre les institutions et les marchés électroniques (Interorganization Information Systems)

Ces systèmes représentent l’échange des informations et de contrôler par le lien électronique entre les entreprises ou les organisations. Le but fondamental de cette transaction électronique à distance est d’effectuer des opérations de façon efficaces comme l’envoi des mandats financiers, les paiements des factures, les lettres de change et les chèques bancaires à travers des réseaux externes. Les relations entre les parties concernées par l’Internet pour un but essentiel de simplifier les opérations financières sur le plan local ou international. Le marketing électronique rassemblant des vendeurs et des acheteurs afin d’appel d’offres et de monter de prix et de rendre opérationnel le système de paiement électronique à distance. La différence entre les systèmes entre les institutions et les marchés électroniques représente que la première utilise des applications des sociétés aux sociétés et la deuxième utilise des applications des sociétés aux sociétés et des applications des sociétés aux consommateurs.

- Systèmes des informations entre les institutions (Intraorganization Information Systems)

Nous pouvons voir à partir des tables statistiques 2. L’accès aux abonnements large bande haut débit dans le système de télécommunication sans fil ou fixe, ainsi que l’utilisation de ces moyens pour les entreprises et le commerce, ainsi que le nombre croissant de ménages disposant des moyens de communication étendus en France, Japon et Allemagne. Les nouvelles technologies de communication ont fournies au marché électronique et au système de paiement à distance entre plusieurs entités commerciales et comprennent souvent une société donnée et leur fournisseur et leur consommateur. Grâce à ces systèmes des informations entre les institutions à travers des réseaux de communication spéciaux et commerciaux peuvent les vendeurs et les acheteurs organisent des relations commerciales quotidiennes. On peut diviser les types des systèmes des informations entre les institutions à:

- Données des inter-échanges électroniques (Electronic Data Interchange EDI).
- Le réseau supplémentaire (Extranet).
- Transfert électronique de fonds (Electronic Funds Transfer).
- Formulaires électroniques (e-application).
- Intégré de communication (Télécopie, Email).
- Bases de données partagées (Basic Informations decomposed).
- La gestion de la chaîne d’approvisionnement (Supply Chain Management).

Ces systèmes électroniques des derniers services qui fournissent par les technologies de communication numérique sont considérés pour simplifier les transactions des sociétés aux sociétés ou des organisations aux sociétés ou des sociétés aux organisations ou des sociétés aux consommateurs. En plus les échanges commerciaux grâce à la réception et le stockage et la transmission des données communes, entre les sociétés et leurs consommateurs et leurs fournisseurs à travers la promotion et les demandes de commerce électronique.

- Les modèles de recettes communs (Marketing Models)

Le modèle de travail d’application de commerce électronique est centré sur les services d’appui au marché électronique et d’organiser des échanges commerciaux et les relations entre les vendeurs, les acheteurs, les relations administratives publiques, l’annonce et la promotion. Les infrastructures des sociétés de télécommunications et des technologies de l’information ont constitué un modèle de travail commun. Par conséquent, on peut déterminer
la structure et les caractéristiques d’un modèle de ce travail, et ce par des modèles de recettes communs. Ces modèles sont subdivisés en :

- Un modèle de frais de transaction (Transaction fees Model).
- Un modèle d’abonnement (Subscription Model).
- Un modèle d’annonce (Advertisement Model).
- Un modèle d’affiliation (Affiliate Model).
- Un modèle des ventes (Sales Model).

Ces modèles représentent une stratégie de marketing par des moyens techniques modernes de communications commerciaux régissant les opérations financières à distance, les abonnements et les annonces payées, la promotion et la vente des produits et des services. Les modèles de recettes en commun représentent le modèle des sociétés électroniques mondiales et ce pour réaliser des bénéfices et des recettes pour assurer la survie du marché électronique.

V. Conclusion

L’économie numérique n’est pas une économie totalement nouvelle, mais plutôt l’ensemble des nouvelles façons d’accomplir les activités économiques et sociales habituelles grâce à l’utilisation des technologies de l’information et de la communication (Georgiadis C. K, Stiakakis E et Ravindron A. R (2013)). Le marketing commercial ou, plutôt, dites-le marketing électronique est considéré comme le commerce du XXIème siècle. Comme il a expliqué le génie de marketing électronique Kotler dans son livre l’importance de ce marketing à acquérir clients et des intermédiaires ou des promoteurs par commission chargée l’opération de la vente et du marketing. L’utilisation d’internet ne se limite pas seulement à la maison, au lieu de travail, à l’école, etc., ou à l’accès via des connexions internet fixes. Les personnes accèdent à internet avec des appareils mobiles (ordinateurs portables ou tablettes, téléphones mobiles ou intelligents, lecteurs électroniques, montres intelligentes) via des connexions internet mobiles à tout moment et en tout lieu (Zupan G (2016)). Les connexions internet mobiles permettent la connectivité n’importe où. Les connexions internet mobiles de plus en plus rapides permettent le développement de nouveaux services et modifient la vie quotidienne et le fonctionnement des entreprises. Le marketing a aidé par le réseau d’internet, les sociétés électroniques mondiales de cibler un marché plus vaste et plus grand et d’accéder à ses produits et à ses services à la plus grande base des clients directement ou par l’intermédiaire des promoteurs par commission et ce de manière plus simple et moins coûteuse. Les nouvelles technologies de communication entre les millions de vies quotidiennes sur l’internet ont contribués au développement du système le marketing commercial des produits des sociétés électroniques mondiales. Le commerce électronique est devenu la culture de la société numérique qui est devenue achète et vend à travers les plus grands sites mondial, ainsi ce commerce a développé à travers les relations entre les sociétés, les consommateurs et le gouvernement. Le commerce électronique dépend essentiellement des transactions commerciales par la vente et l’achat direct ou par un intermédiaire, ainsi qu’à la demande croissante des produits modernes répondant aux besoins et désirs des consommateurs. Si tu voulais faire un projet sans capital ou à un coût modeste, alors vous devez d’apprendre à créer des sites et des boutiques électroniques et être qualifié d’une expérience du commerce du XXIème siècle. Si votre site et votre boutique attrayante est organisé et propre et donc tu reçois des bénéfices financiers considérables de façon légitime et juridique. En plus de se concentrer sur les campagnes de marketing qui constituent d’importants facteurs d’attirer les clients et de la vente directe ou électronique. L’évolution de marketing électronique via le marketing mix à donner des réelles possibilités aux commerçants électroniques et des sociétés mondiales de diversifier les produits et les services, fixation de prix et de localisation et facilité la distribution, de l’annonce et de la promotion et de la publicité et de développer les recherches sur le marché. Ce domaine a permis d’atteindre le plus grand nombre possible des clients à moindre coût et de communiquer directement avec eux. Le marketing commercial grâce à des méthodes et des mécanismes de promotion et de définir un concept global de toute évidence à l’objectif de la société et de ses relations avec toutes les parties au marché électronique. Ces objectifs comprennent une division du marché, de cibler les marchés, du positionnement sur le marché et de l’analyse des stratégies de marketing et de maîtriser les types de marketing. Ces méthodes et ces mécanismes représentent l’objectif fondamental grâce celles-ci peuvent les sociétés électroniques mondiales répondre aux besoins et aux désirs des clients de façon à apporter des bénéfices considérables. En plus, les mécanismes de promotion représentent la source de développement le système des affaires électronique, le marché électronique ouvert et le marketing en web réseau, le commerce en détail, les systèmes d’information et de modèles de recettes communs. Si l’on a gagné le pari de marché, vous gagnerez des bénéfices grâce à une augmentation des clients et de l’obtenir une commission en échange. Tous les rapports mondiaux montrent que le commerce électronique est devenu en échange par des milliards, en plus les grandes opérations financières électroniques entre les commerçants et les acheteurs. L’échange commercial électronique ouvre la voie à la mondialisation électronique et le développement des nouvelles technologies de communication et de l’économie numérique à tous les pays du monde. Par conséquent pour être en succès dans ce domaine, vous
ne devrez pas d’être seul où isolé la source de la richesse est de vos clients et votre langue et votre relation avec les acheteurs et les persuader par votre produit de promotion et destinée à la vente. Il faut devrait friction les détenteurs d’expertise et d’expérience professionnelles dans ce domaine et de l’apprendre d’entre eux, et de bénéficier de leur expérience. Les riches nouveaux du monde sont les commerçants électroniques parce qu’ils disposent de toutes les sociétés et tous les produits qui innombrables et sans capital de manière ils peuvent la vente des milliers de produits par jour. Le commerce traditionnel a besoin de capital en transaction pour acheter des produits, un local commercial, les clients et une administration de distribution et de comptabilité et, par conséquent, ce commerce est considéré limité et coûteux et non rentable par rapport au commerce électronique mondial.

Références Bibliographiques


ANNEXES

Figure 1: Commerce électronique

<table>
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<td></td>
<td>De gouvernement à ses nationaux ou à des Sociétés (E-Government)</td>
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Source: Foued Sabbagh (2017)

Figure 2: Marketing électronique (Marketing Mix)

La composante moderne en matière de développement de la recherche marketing

Jérôme McCarthy et Four Buze (4Ps) (Marketing Mix)

Source: Foued Sabbagh (2017)

Figure 3: Méthodes de promotion

Philip Kotler (STP)

<table>
<thead>
<tr>
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Stratégie du Marketing (5C’s)

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<td>L’analyse du contenu</td>
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Types de Marketing

Source: Foued Sabbagh (2017)

Figure 4: Mécanismes de promotion

Les affaires électroniques (E-business)

Marché électronique (E-Marketplace)

Marketing de réseau (Network Marketing)

Commerce électronique partiel (Click-and-mortar)

Les systèmes d’information entre les institutions et les marchés électroniques (Inter-organisation Information Systems)

Les systèmes d’information entre les institutions (Intraorganization Information Systems)

Modèles revenus partagés (Marketing Models)

Source: Foued Sabbagh (2017)
Figure 5: Une vision intégrée de la recherche sur le commerce social

Source : Lina Zhon, Ping Zhang and Hans-Dieter Zimmermann (2013)

Figure 6: Le concept de modèle de commerce social

- Graphique social
- Graphique d’intérêt
- Transactions
- Partager et échanger

Source : Yao Zhong (2012)
### Table 1: Technologies de l’information et de la communication (TIC)

#### TIC valeur ajoutée

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Source: OCDE

### Table 2: TIC emplois

| Country/Year | AUT | BEL | CAN | CZE | DK | FIN | FRA | DEU | GR | HUN | IRL | ITA | JPN | KOR | LUX | NLD | NOR | POL | PRT | SVK | ESP | SWE | CHE | GBR | USA | EST | SVN | OECD |
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Source: OCDE

### Table 3: TIC investissements

| Country/Year | AUT | BEL | CAN | CZE | DK | FIN | FRA | DEU | GR | HUN | IRL | ITA | JPN | KOR | LUX | NLD | NOR | POL | PRT | SVK | ESP | SWE | CHE | GBR | USA | EST | SVN | OECD |
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Source: OCDE
### Table 1.4: TIC exportsation de biens

| Pays / Année | ANS | AUT | BEL | CAN | CHL | CHN | CHE | CZE | DNK | ESP | FIN | FRA | GER | HUN | ISL | IRL | ITA | JPN | KOR | LUX | MEX | NLD | NZL | NOR | POL | POR | SVN | SVK | SWE | TCH | TUR | UEA | USA |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2000         | 472 | 40  | 3299 | 2096 | 1727 | 1589 | 1769 | 1374 | 1082 | 1439 | 1024 | 871  | 794  | 781  | 634  | 637  | 590  | 581  | 589  | 599  | 469  | 467  | 465  | 464  | 462  | 460  | 458  | 456  | 454  | 452  | 450  | 448  |
| 2003         | 711 | 590 | 1286 | 1154 | 862  | 873  | 888  | 898  | 910  | 922  | 951  | 971  | 997  | 1020 | 1041 | 1067 | 1093 | 1120 | 1146 | 1172 | 1198 | 1224 | 1250 | 1276 | 1302 | 1328 | 1354 | 1380 | 1406 | 1432 | 1458 |
| 2006         | 2241 | 590 | 1286 | 1154 | 862  | 873  | 888  | 898  | 910  | 922  | 951  | 971  | 997  | 1020 | 1041 | 1067 | 1093 | 1120 | 1146 | 1172 | 1198 | 1224 | 1250 | 1276 | 1302 | 1328 | 1354 | 1380 | 1406 | 1432 | 1458 |

Source : OCDE

### Table 1.5: Accès aux ordinateurs à la maison

| Année | ANS | AUT | BEL | CAN | CHL | CHN | CHE | CZE | DNK | ESP | FIN | FRA | GER | HUN | ISL | IRL | ITA | JPN | KOR | LUX | MEX | NZL | NOR | POL | POR | SVN | SVK | SWE | TCH | TUR | UEA | USA |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2000  | 94,974 | 84,974 | 86,855 | 86,928 | 87,854 | 89,645 | 91,385 | 93,827 | 96,308 | 92,847 | 90,399 | 89,043 | 87,680 | 86,317 | 84,954 | 83,591 | 82,228 | 80,865 | 80,039 | 79,003 | 78,067 | 77,131 | 76,194 | 75,257 | 74,320 | 73,383 | 72,446 | 71,509 | 70,572 | 69,635 | 68,702 | 67,765 | 66,828 |
| 2003  | 84,974 | 84,974 | 86,855 | 86,928 | 87,854 | 89,645 | 91,385 | 93,827 | 96,308 | 92,847 | 90,399 | 89,043 | 87,680 | 86,317 | 84,954 | 83,591 | 82,228 | 80,865 | 80,039 | 79,003 | 78,067 | 77,131 | 76,194 | 75,257 | 74,320 | 73,383 | 72,446 | 71,509 | 70,572 | 69,635 | 68,702 | 67,765 | 66,828 |

Source : OCDE
### Table 1.6: Accès Internet

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Source: OCDE

### Table 2: L'accès à large bande

### Table 2.1: Abonnements haut débit mobile sans fil

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Source: OCDE
Table 2.3: L'utilisation professionnelle de l'accès à large bande

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Source : OCDE

Table 2.4: Les ménages avec accès à large bande

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Source : OCDE
Topical Review of Hidden Hunger and Poverty Profile in Nigeria: Case Study of Kwara State (Province) and Suggested Agricultural and Economic Solutions

By Uche C. & Familusi L. C

University of Port Harcourt

Abstract- Hidden hunger is the inadequate access to micronutrients that are necessary for a healthy and functional body. This is a form of hunger that is not very visible and much more than an empty stomach. Micronutrients are essential vitamins and minerals that we need in small quantities for effective growth and development of the body. Micronutrient deficiencies are caused by poor diet and inadequate micronutrient supply during certain stages in life. The study considered the micronutrient status of a province of Nigerian, the effects of its deficiency and the agricultural and economic solutions. Being a review research, secondary data were used where necessary. The study showed that Nigerians and the province in particular are very hungry with significant evidences of hidden hunger. Agricultural solutions were recommended through biofortification of crops and external economic interventions to assist the people produce their own foods and access them where necessary.

Keywords: hidden hunger, agriculture, economic, solution.

GJMBR-B Classification: JEL Code: P46

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Topical Review of Hidden Hunger and Poverty Profile in Nigeria: Case Study of Kwara State (Province) and Suggested Agricultural and Economic Solutions

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Abstract- Hidden hunger is the inadequate access to micronutrients that are necessary for a healthy and functional body. This is a form of hunger that is not very visible and much more than an empty stomach. Micronutrients are essential vitamins and minerals that we need in small quantities for effective growth and development of the body. Micronutrient deficiencies are caused by poor diet and inadequate micronutrient supply during certain stages in life. The study considered the micronutrient status of a province of Nigerian, the effects of its deficiency and the agricultural and economic solutions. Being a review research, secondary data were used where necessary. The study showed that Nigerians and the province in particular are very hungry with significant evidences of hidden hunger. Agricultural solutions were recommended through biofortification of crops and external economic interventions to assist the people produce their own foods and access them where necessary.

Keywords: hidden hunger, agriculture, economic, solution.

I. Introduction

Hidden hunger, as defined by Ogundipe et al (2016) is food deprivation. Nutrient deficiency in the food is called hidden hunger. Somebody may have his or her belly full and yet suffer food deprivation because of nutrient deficiency. Hidden hunger is undernutrition that occurs when the intake and absorption of vitamins and minerals are very low to maintain good health and development. Micronutrient deficiencies are caused by poor diet, inadequate micronutrient supply during certain stages in life, such as pregnancy and lactation etc (Gautam, 2016). Inadequate micronutrient intake, a form of hunger that is not very visible is affecting many people. Hunger is much more than an empty stomach. The Nation (2015) citing Essiet (a blogger) described Hidden hunger as the lack of access to micronutrients that are critical for proper physical and cognitive development.

Micronutrients are essential vitamins and minerals that we need in small quantities for effective growth and development of the body (UNICEF, 2003). Deficiency of micronutrient (hidden hunger) results when essential vitamins and/or minerals are inadequate in the diet. If not checked, micronutrient deficiencies can cause irreversible damages. (Kuku-Shittu et al, 2016). Inadequate intake of vitamins and minerals like vitamin A, iodine and iron are the main causes of hidden hunger and malnutrition in the world today (UNICEF, 2003). Eliminating vitamin and mineral deficiency in our diets will enhancement for Africa’s health and help in the quest to achieve the Millennium Development Goal of eliminating, hunger, improving on maternal health, and reducing child deaths by two-thirds(Thomas et al, 2004).

Hidden hunger does not produce the pangs of hunger as we know it. You may not feel it in your belly; however it strikes the very core of your health and poses a widespread and devastating threat to wellness and human dignity especially in developing countries (Gautam, 2016). According to Pinstrup-Anderson (2007) in Gautam (2016), the malnutrition burden facing the world is rising and becoming complex. This is because developing countries are embracing highly processed, energy-dense, micronutrient-poor foods and drinks instead of maintaining their traditional diets that are based on minimal processing. This has resulted to obesity and diet-related chronic diseases. In consequence, many developing countries now face malnutrition (undernourishment, micronutrient deficiencies). Even an obese child can suffer from hidden hunger.

According to Mason & Beda-Andourou et al. (2005) in Kuku-Shittu et al, (2016), being vital components of good food, the deficiency of micronutrients in human diet is responsible for several health problems. A significant number of human population suffers from micronutrient deficiency and a threat in many African countries afflicting one-third of the population south of the Sahara and about 20 percent of children under five years of age suffer vitamin A deficiency in many countries in the region. The report indicated that micronutrient deficiency indices in Nigeria show that 28 percent of children under five suffer from iron deficiency anemia (IDA), 29.5 percent from vitamin A deficiency (VAD), and 29.6 percent from iodine deficiency (Maziya-Dixon et al. 2004 in Kuku-Shittu et al, 2016).

Author a a: University of Port Harcourt, Rivers State, Nigeria.
e-mail: chimauche77790@yahoo.com
According to Ogundipe et al (2016) the Global Hunger Index showed that Nigeria was seriously hungry in 2015. This implies serious undernourishment which led to child stunting, child wasting, and child mortality and; the Report of the International Food Policy Research Institute (IFPRI) in 2015 showed that 7 per cent of the Nigerian population is undernourished and wasting and stunting in children below five years of age was 18 per cent and 36.4 per cent respectively. Nigeria has made efforts towards easing hidden hunger especially in children and women, nevertheless millions still are on the brink of survival. Kuku-Shittu et al, (2014) in a study in Kwara State alone produced the values in the tables below: 77.8% of children were diagnosed to be stunting, 25.4% wasting and 55.6% under weight. Little wonder Nigerians were described as been seriously hungry with the attendant nutritional deficiency. However, the report noted that reasonable variations exist in the rate of child malnutrition across the geopolitical zones, and agro-ecological bands in Nigeria. Malnutrition rates (consequently micronutrient deficiency) are higher in rural households than in urban ones. The team conducted the study to prove that malnutrition (and consequently micronutrient deficiency) in Nigeria is a significant health challenge among the population.

II. THE IMPACT OF HIDDEN HUNGER IN KWARA STATE (PROVINCE), NIGERIA

Micronutrient deficiency is one of the prominent hindrances to human development and survival as noted by the West African Health Organization (WAHO) (Thomas et al, 2004). The Nation (2015) observed that among the many required micronutrients, the human body needs iron to build blood cells; vitamin A to aid body immunity and vision; iodine for thyroid gland function and cognitive development. These micronutrients that the body needs to survive and function optimally are of much significance.

Black et al. (2013) and Black et al (2008) in Gautam (2016) noted that micronutrient deficiency causes an estimate of 1.1 million of 3.1 million child deaths each year as a result of undernutrition. Vitamin A and zinc deficiencies seriously affect the health of children and their survival by weakening the body immunity. Zinc deficiency will impair growth in children. Iodine and iron deficiencies can induce mental developmental retardation in children (Allen, 2001 in Gautam, 2016). Hidden hunger will hinder children from the optimum development of full physical, mental and social abilities. Kuku-Shittu et al (2016) citing FAO (2013) stated that over 14 percent of developing countries were undernourished between 2011 and 2013. This will result in many physical limitations, morbidity, and mortality. Deficiencies in nutrition is sometimes linked to poverty, low levels of educational attainment and limited access to health services and these are associated with developing countries like Nigeria according to the reported.

Kuku-Shittu et al (2014) in a study in Kwara State alone produced the values in the tables below: 77.8% of children were diagnosed to be stunting, 25.4% wasting and 55.6% under weight. Little wonder Nigerians were described as been seriously hungry with the attendant nutritional deficiency. However, the report noted that reasonable variations exist in the rate of child malnutrition across the geopolitical zones, and agro-ecological bands in Nigeria. Malnutrition rates (consequently micronutrient deficiency) are higher in rural households than in urban ones. The team conducted the study to prove that malnutrition (and consequently micronutrient deficiency) in Nigeria is a significant health challenge among the population.

Table 1: Anthropometric Status of Children Aged 0 to 59 months, by Age Groups (by Kuku-Shittu et al, 2016)

<table>
<thead>
<tr>
<th>Variables</th>
<th>0-11 months n (percent)</th>
<th>12-23 months n (percent)</th>
<th>24-35 months n (percent)</th>
<th>36-47 months n (percent)</th>
<th>48-59 months n (percent)</th>
<th>Total n (percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHZ (Wasting)</td>
<td>72 (72.0)</td>
<td>102 (77.3)</td>
<td>79 (73.8)</td>
<td>62 (83.8)</td>
<td>46 (90.2)</td>
<td>361 (77.8)</td>
</tr>
<tr>
<td>Mild</td>
<td>9 (9.0)</td>
<td>13 (9.8)</td>
<td>17 (15.9)</td>
<td>9 (12.2)</td>
<td>2 (3.9)</td>
<td>50 (10.8)</td>
</tr>
<tr>
<td>Moderate</td>
<td>6 (6.0)</td>
<td>10 (7.6)</td>
<td>3 (2.8)</td>
<td>3 (4.0)</td>
<td>3 (5.9)</td>
<td>25 (5.4)</td>
</tr>
<tr>
<td>Severe</td>
<td>13 (13.0)</td>
<td>7 (5.3)</td>
<td>8 (7.5)</td>
<td>0 (0.0)</td>
<td>0 (0.0)</td>
<td>28 (6.0)</td>
</tr>
<tr>
<td>Total</td>
<td>100 (100.0)</td>
<td>132 (100.0)</td>
<td>107 (100.0)</td>
<td>74 (100.0)</td>
<td>51 (100.0)</td>
<td>464 (100.0)</td>
</tr>
</tbody>
</table>

Source: Kuku-Shittu et al (2016)

Table 2: Anthropometric Status of Children Aged 0 to 59 months, by Age Groups (by Kuku-Shittu et al, 2016)

<table>
<thead>
<tr>
<th>Variables</th>
<th>0-11 months n (percent)</th>
<th>12-23 months n (percent)</th>
<th>24-35 months n (percent)</th>
<th>36-47 months n (percent)</th>
<th>48-59 months n (percent)</th>
<th>Total n (percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAZ (Stunting)</td>
<td>37 (35.6)</td>
<td>36 (27.3)</td>
<td>25 (22.1)</td>
<td>13 (17.1)</td>
<td>10 (19.6)</td>
<td>121 (25.4)</td>
</tr>
<tr>
<td>Mild</td>
<td>14 (13.5)</td>
<td>25 (18.9)</td>
<td>21 (18.6)</td>
<td>16 (21.0)</td>
<td>10 (19.6)</td>
<td>86 (16.1)</td>
</tr>
<tr>
<td>Moderate</td>
<td>17 (16.3)</td>
<td>23 (17.4)</td>
<td>31 (27.4)</td>
<td>13 (17.1)</td>
<td>11 (21.6)</td>
<td>95 (20.0)</td>
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<tr>
<td>Severe</td>
<td>36 (34.6)</td>
<td>48 (36.4)</td>
<td>36 (31.9)</td>
<td>34 (44.7)</td>
<td>20 (39.2)</td>
<td>174 (36.5)</td>
</tr>
<tr>
<td>Total</td>
<td>104 (100.0)</td>
<td>132 (100.0)</td>
<td>113 (100.0)</td>
<td>76 (100.0)</td>
<td>51 (100.0)</td>
<td>476 (100.0)</td>
</tr>
</tbody>
</table>

Source: Kuku-Shittu et al (2016)
Kuku-Shittu et al (2016) making reference to Maziya-Dixon et al. (2004) noted that available data from 2001-2003 Food Consumption and Nutrition study showed that 42 percent of Nigerian children under five years had stunted growth, 25 percent were underweight, and 9 percent wasted. The data suggests inadequate micronutrient intake: contemporary realities suggest the figures have not changed, may even be worse. The same study also reported that data from the 2013 Nigeria Demographic Health Survey (NDHS) supported the previous findings of the Nigeria Food Consumption and Nutrition Survey (NFCNS) of 2001-2003, but however noted that no change occurred in the anthropometric measures of children under 5 years over a period of ten years. This statistics has not significantly changed even today.

III. The Agricultural Solution to Hidden Hunger

While the farmers are addressing hunger in terms of quantity of food, nutritionists and the farmers have noted that not much have been done in using agriculture as a means to address micronutrient deficiency in food quality (The nation, 2015). Food fortification may be seen as an option especially for urban dwellers that may be privileged to buy many commercially fortified foods, such a consideration may not be very feasible for rural dwellers who may not have adequate access to commercially fortified foods (Saltzman and Birol, 2014).

Gautam (2016), citing Bouis (2000) and Kennedy and Bouis (1993) stated that researches over the years focused on increasing the productivity of crops to reduce malnutrition. However, the study posited that the production of high yielding crops may have otherwise impacted nutrition. The increase in the output of high carbohydrate crops reduced the prices of these less nutritious foods relative to the prices of more micronutrient-dense ones like the vegetables and pulses. While high carbohydrate foods became cheap, the prices of non-starchy nutrient rich ones rose. This made micronutrient rich foods less appealing to the poor. Diets that are not rich in nutrients were in their study reported to be a common source of hidden hunger. Diets that are based on crops like maize, wheat, rice, and cassava that provide a significant share of energy are low in essential vitamins and minerals; this frequently results in hidden hunger.

To benefit urban and rural dwellers alike, biofortification of all food crops seems to be a good option. According to Qaim (2007), Bouis et al. (2011) and Saltzman et al. (2013) in Kuku-Shittu et al (2016), a veritable solution to micronutrient deficiency in foods is biofortification. This is the breeding of staple food crops that contain high amounts of micronutrient. The researchers opined that it is a cost-effective and sustainable strategy in the quest to reducing micronutrient deficiency in developing countries where a majority of the diets of many low income earners consist of staple (carbohydrate) foods and who cannot access food supplements and marketed fortified foods. Biofortification uses the crops to deliver more micronutrients into foods. This is accomplished through plant breeders. More than one million farmers presently are growing biofortified crops such as vitamin A orange, sweet potato, vitamin A maize, vitamin A cassava, iron beans, iron pearl millet, zinc rice, and zinc wheat in many developing countries of Africa, Asia, Latin America and, the Caribbeans (Saltzman and Birol, 2014), Though biofortified foods may not contain a high level of minerals and vitamins when compared to fortified foods, they are important in efforts to close the gap of micronutrient deficiencies in the food menu. Gautam (2016) agrees with this opinion and states that it is the best response to clinical deficiencies.

IV. The Economic Effects and Solutions to Hidden Hunger

Micronutrient deficiency is a health problem in many developing countries which has negative impacts on income growth, however, the economic cost varies (Stein and Qaim, 2007). What people eat depends on the economy, the relative prices of food, cultural preferences, peer pressure, geographical, environmental, and seasonal factors among others. Those under the pangs of hidden hunger in developing countries may not be able to afford or access the various varieties of nutrient dense foods such as animal-source foods, fruits, or vegetables for economic reasons (Gautam, 2016). Sadly then, economic factors are to blame to some extent in issues of hidden hunger and perhaps the most offensive in third world nations. Now

<table>
<thead>
<tr>
<th>Variables</th>
<th>0–11 months n (percent)</th>
<th>12–23 months n (percent)</th>
<th>24–35 months n (percent)</th>
<th>36–47 months n (percent)</th>
<th>48–59 months n (percent)</th>
<th>Total n (percent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAZ (Underweight)</td>
<td>58 (54.7)</td>
<td>75 (56.8)</td>
<td>61 (54.0)</td>
<td>40 (52.6)</td>
<td>32 (62.7)</td>
<td>266 (55.6)</td>
</tr>
<tr>
<td>Mild</td>
<td>24 (22.6)</td>
<td>30 (22.7)</td>
<td>26 (23.0)</td>
<td>17 (22.4)</td>
<td>14 (27.4)</td>
<td>111 (23.2)</td>
</tr>
<tr>
<td>Moderate</td>
<td>10 (9.4)</td>
<td>6 (4.5)</td>
<td>15 (13.3)</td>
<td>14 (18.4)</td>
<td>3 (5.9)</td>
<td>48 (10.0)</td>
</tr>
<tr>
<td>Severe</td>
<td>14 (13.2)</td>
<td>21 (15.9)</td>
<td>11 (9.7)</td>
<td>5 (6.6)</td>
<td>2 (3.9)</td>
<td>53 (11.1)</td>
</tr>
<tr>
<td>Total</td>
<td>106 (100.0)</td>
<td>132 (100.0)</td>
<td>113 (100.0)</td>
<td>76 (100.0)</td>
<td>51 (100.0)</td>
<td>478 (100.0)</td>
</tr>
</tbody>
</table>

Source: Kuku-Shittu et al (2016)
that Nigeria is experiencing economic recession, something urgent must be done to save Nigerians from exacerbated micronutrient deficiency and its consequences.

When there are inadequacies in nutritional needs, the effects can be remarkable on the development of a child, the health and learning abilities. Improving on the nutritional status of adults on the other hand also has some benefits. Studies have shown a connection between productivity and earnings of adult workers and nutritional status. Sick or weakened workers are less likely to be employed than healthy ones. Good nutrition also has significant effect on labour productivity than the level of formal education. Good nutrition and basic education jointly are important for labour productivity. Improved productivity expands the economy, increases incomes and raises consumption, positively impacting the economy (Morris, 2004). Thomas et al (2004) also viewed nutrient inadequacies as a major cause of child and infant mortality in Africa while older children struggle with minds that are weakened by inadequacies in these vital essential nutrients thus, limiting productivity and economic development.

Stein and Quaim (2007) reported that attempts have been made in the past to value the human and economic costs of hidden hunger and, by World Bank estimate, the combined economic costs of deficiencies in iron, iodine and vitamin A in developing countries could amount to as much as 5% of gross domestic product (GDP). They posited that the global burden of disease caused by Iron, iodine and vitamin A deficiencies amounted to about 2.4% of the disease burden of developing countries. Sadly, the same study informed that the estimate of World Health Organization (WHO) was even four times higher (9% to 10%) and informed that the Micronutrient Initiative on National Development (2005) in Gautam (2016) panoramically captured the grim effects of micronutrient deficiencies. The study/research reported that vitamin and mineral deficiencies inflict significantly a heavy burden on the affected individuals or society both in health costs, losses in human capital and reduction in economic productivity, stating that hidden hunger limits physical growth, learning, productivity and perpetuates poverty and the affected individuals or society may never realize their economic potential because of constrained socioeconomic development. From the poverty profile of Nigeria in the table below as relayed by the Central bank of Nigeria and released by the National bureau of Statistics covering 2004, 2010 and 2011 absolute poverty of 61.9% in 2011 is worrisome. The picture may not have improved in this recession. This poverty status may not guarantee easy access to good nutrition by the concerned individuals.

<table>
<thead>
<tr>
<th>Variables</th>
<th>2004</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated Population (Million)</td>
<td>126.3</td>
<td>163</td>
<td>168</td>
</tr>
<tr>
<td>Relative Poverty (%)</td>
<td>54.4</td>
<td>69</td>
<td>71.5</td>
</tr>
<tr>
<td>Absolute Poverty (%)</td>
<td>54.7</td>
<td>60.9</td>
<td>61.9</td>
</tr>
<tr>
<td>Dollar Per Day (%)</td>
<td>62.8</td>
<td>61.2</td>
<td>62.8</td>
</tr>
</tbody>
</table>

Source: NBS Nigeria Poverty Profile 2010 Report; 2011 figures are estimates (as reported by CBN, 2011)

Hidden hunger also has many other hidden economic effects that may not be very apparent at a glance. It saps the energy of the labour force with billions of dollars as losses in productivity in developing countries (Thomas et al, 2004). There are however viable economic solutions to this scenario. Cunningham (2016) stated that the developing countries where food insecurity and nutritional inadequacies are prevalent can be assisted with incentives by wealthy ones or organizations to raise food production themselves. This she opined the World Bank can do by providing grants to poor countries to upgrade their agriculture and food supplies, a gesture wealthy countries have also keyed into by providing food and monetary aids to poor ones through debt relief and other measures so that they can produce their own food. Poverty is an inhibitor to social and economic progress. Its reduction coupled with viable government policies will boost agriculture especially in developing countries.

In different parts of the country enough food to go round and mitigate nutritional deficiencies seems to be produced. However, poor distribution network have
hindered progress. All the geopolitical zones of Nigeria have at least a major crop (cereals, pulses, fruits and vegetables) it produces with a comparative advantage. According to Olaniyi (2011) there is enough food for everybody, the problem is distribution. He noted that if food is distributed according to human nutritional needs, food supply could support up to 120 per cent of the world’s present population. In the third world countries, massive infrastructural development is a must in this perspective to ease the challenges caused by poor infrastructure.

Uche (2016) citing EARRNET (2006), stated that rural infrastructure such as roads, markets, water supply, health and other ancillary facilities are basic to quality life and also critical in agricultural development strategy. Rural roads are fundamental for agricultural development. El-Wahab (2005) reporting on the state of some rural roads in Nigeria stated that distribution of agricultural produce is disadvantaged by rudimentary rural roads system that are mostly unpaved, making access to the farms difficult for time sensitive products that are perishable. The transport system in most rural areas is inadequate and existing road networks are in poor state of repairs requiring substantial rehabilitation. These distribution inadequacies must be resolved.

Inadequate living wage must be addressed as the need arises. The amount a household earns will affect its food security and intake of micronutrients since it is a determinant of the amount of food accessed by reason of its effects on purchases. The poorer a family is, the more difficult it is to access nutritive foods as they comparatively are costlier for them to purchase.

V. Conclusion

It may not be easy eliminating hidden hunger, serious challenges lie ahead. All that may be needed is the injection of enough resources into the production of nutrient dense foods and the right government policies to support it. Also, the economic features of Nigerians need to be upgraded through viable government policies to help them access the nutrient-rich foods they need to combat poor health and reach their development potentials. Finally, the agricultural sector needs to embrace biofortification to make nutrient dense foods available and accessible to both the rich and the poor equally.

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By Zouaoui Marwa & Bellouma Meryem

The Higher Institute of Management of Tunis

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Through a questionnaire, the results indicate that 35% of the managers of UCITS in Tunisia are not rational. Their decision-making is often influenced by the following biases: herding, fear, heuristics and anchoring. The results also indicate that this irrational behavior did not significantly change after the Tunisian revolution. Accordingly, in order to measure the effect of these biases on performance, we developed a composite model that groups together the studied psychological biases. We found that despite the moderate presence of these psychological biases, they tend to explain the performance of Tunisian UCITS, only before the revolution. Some of these biases, like regret aversion, positively affect performance. Other biases, like herding, anchoring, disposition effect and loss aversion, negatively affect UCITS performance.

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GJMBR-B Classification: JEL Code: G410, G120, D720, C830
Impact of Psychological Biases on the Performance of UCITS before and after the Tunisian Revolution

Zouaoui Marwa & Bellouma Meryem

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1. Introduction

Behavioral finance is the study of how psychology affects the behavior of financial agents and markets. It assumes that investors are often irrational and that their demand for risky financial assets is affected by their feelings, beliefs or emotions. Such a behavior is subject to error of judgment, known as heuristics (anchoring, overconfidence), herding behavior and loss and regret aversion. These latter tend to compromise their decision-making.

In recent years, we have documented a significant shift to this new form of finance and an enthusiasm for the inefficient markets hypothesis. This latter is a response to two main factors; the increasing observance of anomalies in financial markets and the birth of perspective theory, developed by Kahneman and Tversky (1979).

Indeed, since the 1980s, anomalies have been observed in markets, undermining thus the efficient markets hypothesis. With the 2000s crisis and more recently the Subprime crisis, research in finance began to look deeper into this issue. The psychology of market agents in particular has become an exciting topic in the literature because these crises have intensified volatility, destabilized financial markets and increased the fragility of the financial system.

Research in behavioral finance has therefore questioned the assumption of investor rationality and that of market informational efficiency. These latter are considered to be the fundamentals of behavioral finance. Psychological bias may explain these market anomalies.

Accordingly, in this paper we focus first on determining the psychological biases of institutional investors, like herding, overconfidence, anchoring, loss and regret aversion and in particular their effect on UCITS in Tunisia. The purpose of this paper is to determine whether or not managers of UCITS act rationally.

Previously, several studies focused on psychological biases to examine different market scenarios like financial or political crises (Bilson et al., 2002, Dimic et al., 2015). In Tunisia, most studies focused on the effect of socio-political crises on stock market behavior (such as volatility: Mnif, 2017), and on investors’ psychological biases (Ben Mrad and Chaouachi, 2013). Then, our second aim is to study persistence of different behavioral biases in time, i.e. before and after the Tunisian revolution. In other words, we try to determine whether political instability has had an effect on the psychological behavior of UCITS’ managers. We believe that this study adds to the relevant literature. First, it aims at concluding to market management efficiency in Tunisia, as these biases are considered by some authors to be one of the causes of financial markets inefficiency (Kremer and Nautz, 2013). Second, it aims to shed more light on the relationship between political instability and behavior of stock market agents.

This paper is then structured as follows. Section 2 reviews the theoretical and empirical foundations of psychological biases of UCITS, as well as the sources and reasons behind these psychological biases. Section
3 describes the data and methodology. Section 4 presents the results. Finally, section 5 concludes about psychological behavior of UCITS in the Tunis financial market before and after the 2011 Tunisian revolution.

II. PREVIOUS STUDIES ON PSYCHOLOGICAL BIASES

Professional fund managers base their investment decisions on information to select higher stocks, yet sometimes they may be psychologically biased. Such a bias leads them to make cognitive errors. Investors may make predictable and suboptimal choices when faced with difficult and uncertain decisions due to heuristic simplification.

Behavioral finance bears on psychology, which suggests that human decision processes are subject to several cognitive biases. These biases are divided into two groups: biases caused by a heuristic decision process and biases rooted in mental states proposed by perspective theory. In this study, we will only focus on biases of herding, overconfidence, anchoring, and perspective-related biases such as regret and loss aversion.

a) Herding Behavior

In its simplest version, herding is the attitude of a particular individual to imitate the behavior of another individual. According to the literature, we distinguish two currents of research that defined herding behavior. Under the first current: herding is rational (Bikhchandani et al., 1992; Mensah and Yang, 2008). Under the second current, herding is irrational (Kahneman and Tversky and (1979), Delong et al., 1991, and Shleifer and Vishny, 1997).

According to Mensah and Yang (2008), herding is the most rational behavior. The authors believe that, regardless of the perceived private information, it is more interesting to follow the choice of predecessors since this behavior is less risky than making an uncertain new decision. If the decision proves to be defective, it will be considered as a bad signal received by all operators. However, Kahneman and Tversky and (1979) show that individuals adopt reasoning shortcuts, leading them to imitate others and trick them into a biased decision-making process that generates assets valuation errors. Accordingly, their choices are not consistent with the perfect rationality hypothesis.

The main factor behind herding behavior is often lack of accurate information and uncertainty of the obtained information. These reasons lead investors to imitate the market trend in order to improve the information at their disposal.

Previous studies, including those of Jiang et al. (2005), assumed that informational uncertainty affects investor behavior. When uncertainty prevails, investors are led to copy the behavior of other agents whom they consider better informed. Such an attitude allows them to improve their previsions and increase their performance. For Devenow and Welch (1996), the desire to be certain and secure may explain herding behavior.

More recently, other psychological dimensions explaining this behavior have been examined. Regret aversion and a moderate self-confidence may trigger herding behavior (Shiller, 2002). Two other endogenous factors that play an important role in triggering herding can be signaled: investor reputation and remuneration. According to Scharfstein and Stein (1990), investment funds managers seek compliance with established conventions, because compliance encourages them to imitate others for two reasons: first, to protect their reputation, and second, because their remuneration depends on other agents’ performances. Because of these, investors seek to minimize the risk of being isolated, sanctioned and the fear of losing money. Then, they should keep an eye on others’.

Indeed, several studies have focused on the link between investor behavior and market characteristics. Wermers (1999) found that herding mutual funds tends to stabilize prices. Indeed, since stock prices correlate with herding investment funds, then herding behavior significantly affects price effectiveness.

Chen et al. (2012) studied the impact of herding on stock market returns during financial crises. These authors found that herding behavior has a positive effect on future returns during times of market stress. On the other hand, Scharfstein and Stein (1990) and Hwang and Salmon (2004) believe that intentional herding can destabilize stock prices and thus hinder the smooth functioning of financial markets. However, Walter and Weber (2006) found that herding behavior in the German market has no effect on equities returns.

b) Loss aversion, regret aversion and disposition effect

According to perspective theory, the likelihood that an investor will incur losses by placing their savings in stocks encourages them to invest in bonds that yield less but are more secure. In other words, losses seem more offensive for investors than equivalent gains. According to Shiller (2002), investors are very sensitive to losses, which leads them to take more risks to prevent them. This bias is eschewed by the field of psychology. This latter assumes that a decrease in utility, mainly because of deficits, leads investors to retain losing stocks than winning stocks. This assumption has been developed by perspective theory and has been empirically tested by several authors, like Shefrin and Statman (1985) and De Bondt and Thaler (1985). According to these researchers, this behavior is none other than the disposition effect.

Mangot (2004) confirms these findings and in addition shows that risk-averse investors generally hold securities in their portfolio, that no longer follow the news and market trends, no longer yield returns, and in
particular lose much of their value. This author explains that loss aversion has two main consequences. First, the investor prefers to retain losing stocks, yet he does not believe in the quick turnaround potential. Second, if there is a small chance of losing then the investor avoids investing in these securities, although the future outlook of returns is clearly positive. Both of these consequences support the close relationship between loss aversion and disposition effect.

Brown et al. (2006) explain in a different way disposition effect. According to these researchers, investment fund managers who keep losing stocks for too long and sell winning stocks too early, follow a rational decision rather than a biased decision. These findings are drawn from behavioral theory which stresses that investors who perceive today's winners to be losers tomorrow then sell these winning stocks and buy shares that have depreciated thinking that these shares will see in the future a surplus value. It should be noted that the reasons behind disposition effect and loss aversion biases are more or less the same. First, with an unfounded belief in average price returns, investors will then sell a winning stock because they anticipate that its price will decrease while they keep a losing stock because they expect its price to go up again. Then, their preferences are consistent with perspective theory, which suggests that an investor is risk-averse when it comes to returns and risk-taker when it comes to losses. For this reason, investors will sell a winning stock to secure its added value, while they are ready to keep a losing stock hoping for future positive returns despite uncertainty.

Finally, the last reason that motivates this bias is commitment intensity. Indeed investors find difficulty closing a trade at a loss given the time and money invested in the initial stock purchase and prefer to hope for future positive returns. This means that they do not disengage themselves from a project in which loss is certain. They continue to pour more resources, buying losers. This is known as commitment intensification (Lin and Huang, 2015).

Goetzmann and Massa (2008) found that the disposition effect negatively correlates with stock returns, volume and volatility. In addition, Svedsater et al. (2009) state that the relationship between disposition effect and returns depends on the investment horizon. In the short-term, past returns positively correlate with the disposition effect, while in the long-run, past returns negatively correlate with this bias. Leal et al. (2010) suggest that the relationship between returns and this bias depends on market conditions. In a bull market, investors are more likely to be influenced by this effect than in a bear market.

Bodnaruk and Simonov (2016) develop the causal relationship between loss aversion of mutual funds and their performance. They found direct evidence on the effect of this bias on investment decisions and returns.

Aziz and Abdullah Khan (2016) studied the behavioral factors of individual investors and their role in investment decision and performance in the Pakistani market. Their results indicate that there is a significant relationship between behavioral factors and investment performance. Indeed, representativeness, confidence, anchoring and availability biases positively correlate with investment returns. Whereas mental accounting, loss aversion and regret aversion negatively correlate with investment performance.

Garvey and Murphy (2004) found that regret aversion negatively correlates with professional performance. Moreover, Kahneman and Tversky (1979) define regret as a frustration feeling that prevails because of a wrong decision. Investors tend to value capital gains because they make them feel proud while they tend to avoid losses because they would make them feel uncomfortable, hence a feeling of regret emerges which investors try to avoid.

Chandra (2008) examines the relationship between regret aversion and portfolio structure. The author lists the reasons behind regret and they all relate to performance. Hence, investors will feel regretful when selling a stock too early and the price of the stock increases after the sale. The same feeling of regret persists when they buy a stock too late and the value of the stock remains stable after the purchase. Finally, the same is true when the value of previously held stocks increases. The author argues that it is the volatility of stock returns which affects investors' aversion to regret.

Behavioral Heuristics

Kahneman and Tversky (1979) are the first to study heuristics biases, notably representativeness, availability and anchoring. Then, Waweru et al. (2008) list other factors known as Gambler’s error and overconfidence. In our study, we will focus on the following heuristics: anchoring and overconfidence, which we present in what follows. Indeed, anchoring is when individuals refer to past reference values (Kahneman and Tversky, 1974). The authors show that when making judgments and setting expectations, agents memorize reference points and adjust their reasoning and forecasts accordingly. This tends to limit their attention to assess the consequence of new events.

These assumptions have been confirmed by Chandra (2008) who show that investors are not doing enough research on stocks because there is just too much data. As a result, they make decisions based on a single factor that should have little or no impact on their decisions, while they ignore more relevant information.

As for the overconfidence bias, it takes place when investors tend to overestimate the probabilities of occurrence of events and the information received.
Moreover, they tend to overestimate their ability to understand and the accuracy of their knowledge. Investors trust information, regardless of its source and regardless of its reliability. According to Hirshleifer (2001), the origin of this bias stems from the fact that investors believe that the chances of success result from their own talents. Investors are victims of great illusions about their own power and their ability to overcome chance.

Investors’ overconfidence feeds on a biased account of their successes and failures. Investors tend to remember their earnings and willingly forget their losses. Similarly, according to Mangot (2004), investors equate their success to their abilities and reject their failures on the ground of market conditions or bad luck.

Overconfidence has its origins in the study of subjective adjustment probabilities, the feeling of being better than others, excessive optimism and the illusion of control (Hilton, et al., 2011). Adjustment bias reflects a person’s tendency to overestimate the accuracy of the information at their disposal. Another source of overconfidence is the better-than-average effect. Indeed, individuals overestimate the accuracy of their own information. They overestimate their skills and investment abilities and feel that their choice is better than the average, which increases their self-confidence.

Finally, the last source of overconfidence is the illusion of control and excessive optimism. Indeed, illusion of control is defined as the feeling of being able to control events or results on which, in reality, there is no influence. This bias pushes investors to risky behaviors and overestimation of capacities in relation to reality, hence the birth of the overconfidence bias. According to Odean (1998), over-confident investors exchange more securities than others, they have lower expected utility and make less profits than if they were completely rational. They then spend too much money on information, hold riskier portfolios, increase market volatility, and do not perform better.

Some authors, like Barber and Odean (2001), explain the relationship between overconfidence and performance from another perspective. In fact, confident investors are more likely to make investment mistakes, resulting in less conservative investment decisions and lower returns. According to these researchers, individuals who have recorded past earnings tend strongly to give credits for themselves personally. As a result, self-confidence is overfed. This pushes them to take more risks, forget the long-term investment objectives and the diversification principle. In the end, after such an irrational behavior, overconfident investors record unsatisfactory and below-average returns.

For the impact of anchoring bias on performance, this topic has not been thoroughly investigated in the previous literature. Some researchers studying anchoring have confirmed its influence on returns. For example, Kaustia et al. (2008) focused on the impact of historical facts on the stock market, to see investors’ anchoring degree and its influence on the market. They found that anchoring has important effects on estimating mid and long-term returns.

According to Cen et al. (2013), market participants are affected by anchoring when they estimate firm profitability. As a result, this behavior affects market performance in an indirect way.

Although the above reviewed literature anchors the effect of biases like herding, overconfidence and disposition effect on stock returns as significant, the empirical results found in several markets show mixed results as to the existence or absence of these biases, as well as to their impact on performance.

Such state of affairs led us to examine first the psychological behavior of Tunisian investment funds managers, before and after the social-political crisis of 2011. Then to determine the impact of these biases on the performance of these funds. For this reason, we propose to study the behavior of Tunisian UCITS between 2006 and 2015.

III. Sample and Methodology

a) Sample

The sample that we propose to study consists of mixed and bond UCITS operating in the Tunisian financial market.

Taking into account the survival bias, the sample we wish to study will consist of 22 mixed UCITS and 18 bond UCITS that have been operating from February 2005 until December 2015. We thus examine a total of 40 UCITS.

b) Methodology

This study uses mixed methods, but focuses more on the quantitative type of research by using a questionnaire. Indeed, quantification is generally associated with the study of behavior rather than meanings, which is the focus of behavioral finance.

The main objective of this study is to examine and diagnose the possible impact of the psychological biases of Tunisian UCITS managers on investment funds performance. This aim can only be reached effectively by opting for a quantitative type of research, since quantitative research is designed to identify and describe variables in order to establish relationships between them.

Subsequently, in order to measure the effect of biases on investment decisions, we use a qualitative method through a simple regression.

i. Questionnaire Design

Of the 40 UCITS surveyed, only 34 UCITS agreed to answer the questionnaire. Data collection lasted eight weeks: from March 14 to May 16, 2016. The percentage of acceptable answers is 85%. This percentage is considered acceptable to process our data and test our research hypotheses. Indeed, the
The questionnaire probed UCITS managers on the Tunisian market through so-called “closed” questions. The questionnaire is divided into three sections. The first part of the questionnaire collects bio data (personal information like gender, age and educational level).

The second section targets biases and psychological behavior of UCITS managers. Indeed, each bias is represented by a set of items. For each question, we propose a number of answers. The third section determines the impact of the revolution on these psychological biases. In this section, our aim to find out if the biases existed or not before the revolution. After having collected 34 questionnaires from the respondents, we used the SPSS software (Statistical Package for Social Science) 13.0 to process our data. In order to test reliability and internal consistency of our measurement scale (1 for ever, 2 for rarely and 3 for yes), we used Cronbach’s alpha.

i. The Variables of the Study

To answer our research questions, we used a single return from each fund. The approximate return we used is the amount of monthly returns for the last month of each studied period. We took December 2010 for the pre-revolution period and December 2015 for the post-revolution period as references for each UCITS.

The independent variables of our study are as follows:

- SC_MIM: herding bias.
- SC_EXCF: overconfidence bias.
- SC_ANC: anchoring bias.
- SC_DISP: disposition effect.
- SC_REG: regret aversion.
- SC_AVRP: aversion.
- Cat: binary variable that takes 1 if the funds are investment companies with a variable capital, or 0 if the funds are mutual funds.

To ensure the reliability of our results, and avoid measurement bias, we included a control variable in our model. This control variable is binary and represents the category of each fund (Cat). It takes 1 if the funds are investment companies with a variable capital, or 0 if the funds are mutual funds.

ii. The Variables of the Study

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iii. Model Retained: Principal Component Analysis

To process our data, we will use a principal component analysis (PCA). Our choice is motivated by the nature of the objective we have set, which consists mainly in building scores for previously supported behavioral biases. This method mainly consists in grouping items of a variable into smaller sets called factors, which would reduce the number of variables in order to eliminate the multi-collinearity problems between them.

To determine the impact of behavioral variables on UCITS performance, we use the following regression:

\[ R_i = \alpha + \beta_1 \text{SC}_\text{MIM} + \beta_2 \text{SC}_\text{EXCF} + \beta_3 \text{SC}_\text{ANC} + \beta_4 \text{SC}_\text{DISP} + \beta_5 \text{SC}_\text{REG} + \beta_6 \text{SC}_\text{AVRP} + \beta_7 \text{Cat} + \epsilon_i \]

where \( R_i \) is a constant; \( \beta \) is the coefficient respectively representing the impact of psychological biases: herding, overconfidence, anchoring, disposition effect, regret aversion, loss aversion and fund category. \( \epsilon_i \) is a random term.

The variable (SC_REG) represents regret aversion. We believe that regret-depleted managers have a negative effect on UCITS performance (Garvey and Murphy (2004)).

Finally, disposition effect is represented by the variable (SC_DISP). We assume that this bias negatively influences stock returns (Goetzmann and Massa (2008)).

To ensure the reliability of our results, and avoid measurement bias, we included a control variable in our model. This control variable is binary and represents the category of each fund (Cat). It takes 1 if the funds are investment companies with a variable capital, or 0 if the funds are mutual funds.
IV. Results

a) Content Analysis
As mentioned above, psychological biases are represented by items, each is represented by three answers (Yes, rarely and never). One answer is symptomatic of the bias object of the study.

Table 1 presents the profiles of the 34 UCITS managers. First, it presents the frequency of symptomatic responses as a percentage of biases: mimicry, overconfidence, anchoring, disposition effect, regret aversion and loss aversion after the Tunisian revolution. In this table, managers of Tunisian UCITS have all the biases included in our research model, but with different degrees not exceeding 40%.

We found out that the major bias that affects UCITS managers is the anchoring bias with an average of 36.75%. We also note that the least represented biases are regret and loss aversion with averages of 17.6% and 20.6% respectively. Decision-making of Tunisian UCITS managers is not affected by loss and regret aversion. This shows that Tunisian managers prefer to invest and take risks, rather than not investing in order to preserve gained profits.

The same results indicate that 30% of UCITS managers in the Tunisian market are subject to the overconfidence bias. Indeed, these managers trust their intuition. They consider themselves lucky and tend to overestimate the quality of the information they have.

Table 2: Profiles of Respondents

<table>
<thead>
<tr>
<th>Biases</th>
<th>Items</th>
<th>Frequency</th>
<th>Percent %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herding</td>
<td>MIM1</td>
<td>23,5</td>
<td>29,425</td>
</tr>
<tr>
<td></td>
<td>MIM2</td>
<td>29,4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MIM3</td>
<td>32,4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MIM4</td>
<td>32,4</td>
<td></td>
</tr>
<tr>
<td>Overconfidence</td>
<td>EXCF1</td>
<td>26,5</td>
<td>29,4</td>
</tr>
<tr>
<td></td>
<td>EXCF2</td>
<td>23,5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EXCF3</td>
<td>38,2</td>
<td></td>
</tr>
<tr>
<td>Anchoring</td>
<td>ANC1</td>
<td>29,4</td>
<td>36,75</td>
</tr>
<tr>
<td></td>
<td>ANC2</td>
<td>44,1</td>
<td></td>
</tr>
<tr>
<td>Disposition</td>
<td>DISP1</td>
<td>26,5</td>
<td>26,5</td>
</tr>
<tr>
<td>Aversion</td>
<td>REG</td>
<td>17,6</td>
<td>17,6</td>
</tr>
<tr>
<td>Loss Aversion</td>
<td>AVR P1</td>
<td>29,4</td>
<td>20,6</td>
</tr>
<tr>
<td></td>
<td>AVR P2</td>
<td>11,8</td>
<td></td>
</tr>
</tbody>
</table>

In order to determine the biases before and after the revolution, we asked a question for each category of bias. For each question, UCITS managers should say whether the relevant bias is: (a) Greater before the revolution; (b) The same before and after the revolution; (c) Greater after the revolution.

The results of these questions are shown in Table 2.

As 71% of managers believe that the effect of other competitors on their investment decisions is the same before and after the revolution, we conclude that herding did not change significantly after the revolution.

Table 2: Variability of psychological biases before and after the revolution

<table>
<thead>
<tr>
<th>Bias</th>
<th>Item</th>
<th>a</th>
<th>b</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herding</td>
<td>Q14</td>
<td>0,21</td>
<td>0,71</td>
<td>0,09</td>
</tr>
<tr>
<td>Heuristics</td>
<td>Q15</td>
<td>0,24</td>
<td>0,47</td>
<td>0,29</td>
</tr>
<tr>
<td>Perspectives</td>
<td>Q16</td>
<td>0,44</td>
<td>0,5</td>
<td>0,06</td>
</tr>
</tbody>
</table>

Responding to question (Q15), most managers (47%) testify that heuristics in their behavior remain stable after the revolution. Finally, Table 2 shows that 50% of Tunisian managers maintain the same level of loss and regret aversion after the Tunisian revolution.

The results on the herding bias contradict those of Boubaker and Bouattour (2008) on the Tunisian stock market. The authors found a complete absence of herding behavior among Tunisian investors. We also note that the herding bias is one of the biases that was not affected by the revolution. It should be mentioned that our results contradict those of Dimic et al. (2015) as well, which indicate that herding behavior of investors and investment fund managers tends to increase during high volatility and uncertainty periods.

b) Score Construction
In order to build the six scores, we adopted the same approach. We run a factor analysis on the items of each variable. In order to validate the questionnaire and...
assess its reliability, we run the Keyser-Meyer-Olkin (KMO) and Bartlett’s sphericity tests, reported in Table 3. These two coefficients provide information about item factorization and the fit degree between the theoretical and the statistical models.

In Table 3, all KMO coefficients are greater than 0.5. We therefore accept these coefficients as all the variables had a KMO greater than or equal to 0.5 before the revolution. We also note that all of our variables have a Bartlett’s sphericity coefficient equal to 10%, and in most cases these variables are less than 10%, which leads us to accept these estimates. Then, to test score reliability, we used ANOVA test which is found to be significant. Finally, in order to measure internal consistency of our questionnaire, we calculate Cronbach’s Alpha coefficient. We found that Cronbach’s alpha of all variables varies between 0 and 1, which reflects reliability and internal coherence of our measurement scale. After checking consistency and scores significance, we study the impact of behavioral variables on performance using a linear regression.

c) Impact of psychological biases before and after the revolution

In order to determine the impact of psychological biases on performance, we run a linear regression that includes all the psychological biases and the control variable. The regression results are reported in Table 4 below.

In this table 4, we found different results before and after the revolution. We note that before the revolution all the tested variables have a significant effect on return variability, except for overconfidence. Therefore, overconfidence does not affect performance of Tunisian UCITSs.

Since the results for the post-revolution period are insignificant, we conclude that all the psychological biases have no effect on UCITS performance during this period. Accordingly, all our hypotheses are significant only for pre-revolution period.

With these findings, we can conclude that the absence of the impact of psychological biases on Tunisian UCITS performance after the revolution may have resulted from managers’ disorientation and destabilization, who might have reacted randomly and
on a case-by-case basis. Therefore, these biases were found to be no longer significant.

Before the revolution, herding has a negative impact on performance. In other words, if managers’ herding behavior increases, their returns decrease significantly. This relationship implies that herding may destabilize stock prices before the revolution and thus hinder the smooth operation of UCITS.

In Table 3, the results indicate that herding is stable over the entire period, whereas in Table 4, the results of a more in-depth statistical analysis show that this bias has an impact on performance only before the revolution, and becomes insignificant after the revolution.

In our opinion, this may have resulted from either the unexpected variation of returns, or, the change in herding behavior after the revolution as managers do not follow each other like they used to. In this case, managers lost faith in each other and in UCITS because many have been taken over by the State, while others closed or in the process of privatization.

The post-revolution results confirm those of Walter and Weber (2006) who found that herding behavior has no effect on stock performance. In table 4, the only variable that has an insignificant impact before and after the revolution is overconfidence. These results are consistent with those of Odean (1998) and contradict those of Belanes and Hachana (2010), who indicate that investment decisions and investor performance are affected by overconfidence.

Then, it should be pointed out that another heuristics-related bias like overconfidence, but which negatively affects performance, is anchoring. In our opinion, this impact can be interpreted by the fact that managers of Tunisian UCITS do not do enough research on stocks. These managers make decisions based on a single factor or use benchmarks, without seeing their relevance. As a result, they ignore the most important information, which necessarily affects their returns. For the pre-revolution period, our results are similar to those of Chandran (2008).

Similarly, for the disposition effect bias and loss aversion, they negatively affected performance before the revolution. It seems that managers of Tunisian UCITS keep stocks too long, because they are afraid of losses, and continue to buy new stocks in the hope of gaining profits. However, these new stocks may introduce a new risk which negatively affects portfolio performance. These results confirm those of Goetzmann and Massa (2008), who found that the disposition effect negatively correlates with performance. Similarly, they confirm those of Bodnaruk and Simonov (2016) and Aziz and Abdullah Khan (2016) who claim that loss aversion negatively affects performance.

Finally, we found that the effect of regret aversion of Tunisian managers on performance is positively significant. In our opinion, when Tunisian investors fear regret, they tend to review their choices and change their preferences so as not to regret later a wrong decision. This then positively affects performance. Our results are at odds with those of Garvey and Murphy (2004).

A last variable that also has an impact on UCITS performance is the control variable, i.e. fund category. This variable negatively affects performance.

V. Conclusion

Behavioral Finance Theory is a new approach to finance that examines how the behavior of agents in the financial market is affected by psychological factors which in turn influence decision-making and stock performance.

This behavioral theory takes into account many cognitive and emotional biases that influence economic agents when facing risky choices. In fact, agents facing complex choices often resort to reasoning shortcuts.

In this paper, our first objective was to determine the psychological biases that affect the returns of Tunisian investment funds, before and after the revolution in view of understanding the psychology of fund managers.

Our second objective was to determine the impact of these psychological biases on the performance of Tunisian UCITS, in order to identify the variables that may explain variability of performances. To achieve our objectives, we used, on the one hand, a questionnaire on the presence of psychological biases, and on the other hand a linear regression that measures the effect of these psychological biases on the returns of Tunisian UCITS.

The results of the questionnaire show that of the Tunisian UCITS managers, only a small portion of them adopt a herding behavior. They are overconfident in their knowledge and have a low regret, risk and loss aversion. By studying the effect of the revolution on these biases, we conclude that these biases remain the same after 2011 revolution. Subsequently, using a qualitative measure, we studied the effect of these psychological biases on the returns of Tunisian UCITS.

We conclude that these endogenous factors fail to explain the variability of mutual funds returns over the period. In fact, the psychological biases we measured are significant only before the revolution. Some of these biases, such as regret aversion, have a positive effect on performance and others, like herding, anchoring, disposition effect and loss aversion, negatively affect performance.

This study is not without limitations. First, the bias measurement estimation, which is a simple regression in the form of a composite index, is above all subjective and cannot be exhaustive. Second, it would be interesting to shed more light on the relationship between fund characteristics and behavioral biases. In particular, this study can be broadened by measuring.
the effect of other variables that may affect the long-term performance of UCITS, such as macroeconomic news.

References Références Referencias


Determinants of Loan Repayment of Micro and Small Enterprises in Jimma Town, Ethiopia

By Ofgaha Alemu Dire

Bule Hora University

Abstract- The main objective of this study was to examine the determinants of loan repayment of Micro and Small Enterprises (MSEs) in Jimma town, Ethiopia. This study examined the effect of Individual characteristics, loan characteristics and firm characteristics on loan repayment of micro and small enterprises in Jimma town only. The study used descriptive research design. Primary data was collected through self administered questionnaire and it was collected from random samples of 341 Micro and Small Enterprises (MSEs) by stratifying into Five group. Once the relevant data was gathered, the collected data was analyzed through descriptive and econometric model known as binary logistic regression model was used in order to examine determinants that impeding Micro and small enterprise’s loan repayment by distinguishing characteristics of MSEs. The descriptive result of analyzed data revealed that individual characteristics, loan characteristics and firm characteristics influenced loan repayment of enterprises in the study area. In addition, the result of binary logistic regression model indicated that Sex of respondents and Experience positively and significantly affect loan repayment. The inconvenience of loan payback period, Lack of financial skill and planning negatively and significantly affected loan repayment of enterprises. Lack of Marketing Skills, Follow up and supervision positively and significantly influenced loan repayment of micro and small enterprises.

Keywords: micro and small enterprises, lack of loan repayment, individual characteristics, loan characteristics, firm characteristics, jimma town.

GJMBR-B Classification: FOR Code: 149999
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Keywords: micro and small enterprises, lack of loan repayment, individual characteristics, loan characteristics, firm characteristics, jimma town.

I. Introduction

Micro and small scale enterprises are one of the priority areas of action among the Programs addressing African development, and it can be seen as a means of achieving smooth transition from traditional to modern industrial sector; and has a huge contribution to the growth and development of the country in terms of employment generation with a relative low capital cost (Drieben & Kassahun, 2013). MSEs are primary sources of employment creation not only in developing countries but also in developed countries. In developing countries, MSEs have a crucial role because of their potential contributions to improvement of income distribution, employment creation, poverty reduction, industrial development, rural development, and export growth. In this case, governments have been supporting their MSEs extensively through many different programs, with subsidized credit schemes as the most important component. International institutes such as the World Bank, the Asian Development Bank (ADB) and the United Nation Industry and Development Organization (UNIDO) and many donor countries through bilateral co-operations have also played a crucial role in empowering MSEs in developing countries (Zemenu & Mohammed, 2014). Even if the role of micro and small sized Enterprises (MSEs) is pillar in poverty reduction, job creation, and sustainable economic growth of developing nation like Ethiopia, it is undeniable facts that they cannot exist without various challenges.

According to Shide (2012), the Creation, survival and growth of small and medium enterprises in most African countries is not out of challenges. Among the most significant impediments that face Micro and Small enterprises in Africa, He has taken example as: inadequate accesses to financing, weak technical capacities, poor market access, lack of favorable policy environment is the most significant impediments that face MSEs, and he has also stated that the graduation of MSEs enterprises to a more growth oriented middle and large industries are minimal.

In relation to this, inadequate supply of public goods such as legal and physical infrastructures, coupled with high transaction costs and information asymmetry would negatively influence the likelihood of those established MSEs graduating into larger enterprises. This problem is further compounded by the fact that technical and managerial knowledge that are important for efficiently managing MSEs are in limited supply, and as the result of market failures, they would be highly under-produced in these economies. This is partly because adequate resources are not available for the private sector to invest in the acquisition of this knowledge, and partly because the value of investments in knowledge cannot be fully appropriated by
businesses that commit resources to acquire the knowledge. In addition, the study arises due to positive externalities whereby knowledge of production technologies, products design and management systems could easily spread from people who invested in the acquisition of such knowledge towards those who did not, as it is difficult to codify and lock up knowledge (MUDC, 2013).

There are multi dimensional problems like extreme poverty, unemployment, low per Capita income, and unequal income distribution facing in many developing countries. As a result, different governments are framing different strategies and policies to create job opportunities and to pull these countries out of such problems. In Ethiopia there is also suffering from severe poverty, unemployment, income inequality and lower per capita income. In response to the mentioned problem, the Ethiopian government issued the National Micro and Small Enterprises Strategy in 1997 and established the Federal Micro and Small Enterprises Development Agency in 1998. The country’s industrial policy in 2003 and the poverty reduction strategy program of 2006 had single out MSEs as major instruments to create a productive and vibrant private sector and reduce poverty among urban dwellers (Siyum, 2015).

According to Yednekachew (2016), the MSEs were affected by environmental and internal factors. Environmental factor includes social, economic, cultural, political, legal and technological factors, and internal factors also affect the performance of MSEs, which are related to the person’s individual attitude, training and technical know-how. He identified many problems that confronted MSEs in Ethiopia similar with other developing countries like unfavorable legal and regulatory environment, discriminatory regulatory practices; lack of access to markets, business information; lack of business premises at affordable rent; low ability to acquire skills and managerial expertise; low access to appropriate technology, poor access to quality business infrastructure, financial problems, lack of qualified employees, lack of proper financial records, inadequate management and business skill, marketing problems, lack of work premises, low level of provision and interest for trainings and workshops. The study suggests constraints confirm with other developing countries’ especially experiences of Sub-Saharan countries in which the major common constraints of MSEs are lack of financial support, poor management, corruption, lack of training and experience, poor infrastructural availability, insufficient profits and low demand for product and service. The researcher also highlight that in the past decades the focus of Ethiopian government was mainly on large organizations, but the recent are towards wave of private sector development initiatives, and it is shifted the policy efforts to MSEs.

Despite the contribution of MSEs is the pillar in poverty reduction, job creation, and sustainable economic growth of both in developed and developing nation, there are numerous challenges face in their activities. As mentioned in above paragraphs by different study such problem open door for failure of the business, and which are input factor for lack of successful loan repayment since this unfavorable business environment creates instability of MSE’s business activities. According to Million (2012), the loan repayment is influenced both directly and indirectly by various factors such as Government Policy, institutional and environmental factors and demography.

As indicated in the above paragraphs, there are different factors which influence MSEs for successful loan repayment either internal or external, but this study was provided insight for among factors that confronting MSEs such as individual characteristics, loan characteristics and firm characteristics that impeding the successful loan repayment of MSEs in Jimma town, Ethiopia. Among this inconvenience loan payback period, lack of financial skills and planning, lack of marketing skills, lack of performance monitoring (Follow up and supervision) was focuses of the study because majority of banks and financial intermediaries are providing loan based on the creditworthiness and performance of MSEs in loan repayment, however, it is necessary to know basic factor that impeding loan repayment of MSEs. This study recommends remedial actions to be taken in order to tackle the identified hindering factors.

II. Statement of the Problem

The role of Micro and Small Enterprises in Ethiopia is indispensable in poverty reduction through employment generation since national MSEs Development Strategy was formulated in 1997, and government strongly believes that MSEs are the right solution to reduce urban unemployment and poverty. However, there are many critical challenges that hamper the growth and development of MSEs in Ethiopia. According to Assefa, Zerfu, & Tekle (2014), key constraints to MSE growth in Ethiopia were access to finance, collateral challenges, marketing challenges, working and sales space, capital goods and machinery challenges, licensing and registration challenges, attitudinal challenges, institutional coordination problem.

Among listed challenges in the above paragraph, accesses to finance are the chief factor affecting MSEs. According to EEA (2015), initial capital for MSEs emanated from diverse sources, the major one being loans. Since most MSEs have lack of the initial start-up capital, facilitating access to loan would definitely help to establish new MSEs and address working capital problems of existing ones. All those
MSEs which have accessed loans for their businesses might not repay their debts as scheduled.

Several factors have been identified as reason for lack of loan repayment such as individual characteristics, loan characteristics, and firm characteristics. As indicated by Mukono (2015), individual characteristics include the age of borrower, gender, level of education, business experience, household size, credit use experience, household income, non-business income, type of business activity, and amount of business investment. Loan characteristics include the loan size, repayment period, collateral value, number of installments, and application costs, previous loan experience, and purpose of loan. Firm characteristics include the time lag between loan application and disbursement, interest rate, access to business information, access to training on loan use, cooperative membership and penalty for lateness to group meetings.

Therefore, the purpose of this study was to examine the major determinant behind the loan default problem such as individual characteristics include sex, loan characteristics such as inconvenience of loan payback period, followed up and supervision, and firm characteristics specifically Lack of financial skills and planning and lack of marketing skills. From firstly mentioned variable Individual characteristics was classified as background data of the respondents like sex affected loan repayment because personal data is indicating the characters of loan payers. Secondly, inconvenience of loan payback period or Loan delinquency which means the shortage of time to repay loan successfully on maturity date. Thirdly, Lack of financial skills and planning this also indicated the skill of financial recording, reporting and planning of loan payers. Fourthly, lack of marketing skills this is related with place, sales, promotion, price and other marketing skill that affect the successful loan repayment of borrowers. Finally, lack of followed up and supervision means after provision of loan by banks and other financial intermediaries, whether they are followed up or not because lack of followed up and supervision was affected loan repayment of borrowers (MSEs).

All five determinants personal data, inconvenience of loan payback period, Lack of financial skills and planning, lack of marketing skills and lack of followed up and supervision were included under Individual characteristics, loan characteristics and firm characteristics in general, but specifically these determinants were impeding loan repayment of MSEs in Jimma town, Ethiopia. Hence, most of the studies in Ethiopia such as (Salem, 2016), (Kebede, Tegegn, & Tafese, 2016),(Kibrom, 2010), &(Tadele, 2014)were mainly focused on performance and non-performance of borrowers of banks and micro finance institution. However, this study was focused on micro and small enterprises sector by examining determinants of loan repayment of micro and small enterprises in Jimma town, Ethiopia.

a) Research Question
The research was addressing the following question;
What are the determinants of loan repayment by MSEs’ in Jimma Town, Ethiopia?

b) Objective of the Study
The general objective of this study was to examine determinants of Loan repayment of Micro and Small enterprises in Jimma Town, Ethiopia. The specific objective of this study includes:
1. To examine the effects of borrower characteristics on loan repayment by MSEs in Jimma town, Ethiopia
2. To examine the effects of loan characteristics on loan repayment by MSEs in Jimma town, Ethiopia
3. To examine the effects of firm characteristics on loan repayment by MSEs in Jimma town, Ethiopia.

III. Literature Review

a) Theoretical Literatures
i. Definition of Micro and Small Enterprise
Micro and small enterprises have different meaning from country to country, or there is no commonly accepted definition. As cited in article of Shantanu, & Londhe (2014) “Microenterprises can be defined differently, depending on country’s stage of development, policy objectives, and administration.”

In the majority of countries, Micro and Small-sized enterprises (MSEs) are defined as firms employing between 10 and 250 people. Firms with up to 10 employees are usually referred to as micro firms. There is, however, no commonly agreed definition of what micro firms and SMEs are. They are mixed by nature, ranging from producers of non-tradable services to “born global” suppliers of digital products, high quality artisanal goods or sophisticated instruments. Also, world trade organization describes SME acronym as – “small and medium-sized enterprise” – is used in most contexts as the generic term to qualify all enterprises that are not large. In most instances, the term is not defined precisely in the sense that no upper or lower size thresholds are indicated. In addition, the acronym MSME – “micro, small and medium enterprise” – is used to emphasize the inclusion of the smallest firms. This report follows the customary approach of using the acronym “SME” as the generic term. A distinction between SMEs and MSMEs, where the former concept excludes micro firms and the latter includes them, will only be made where precise definitions are necessary, that is when statistics are used or when the distinction is explicitly made by source (WTO, 2016).

According to Tadesse (2010), the universal definition of micro and small enterprise does not exist given the multitude of different economic, social and
geographic differences with the international context of micro and small enterprise. In some countries, micro and small enterprises are categorized based on the capital that is invested and in some countries based on the employment opportunity they provide.

MSEs are businesses that are basically privately owned and operated, with a small number of personnel, and a relatively low volume of sales. Small businesses are normally privately owned corporations, partnerships, or sole proprietorships. There is no universally accepted definition of a small and medium-sized business. The legal definition of a “small sized enterprise” depends on each country (Joseph, John, & Kala, 2013). And; Small businesses are the business that employs a small number of employees as well as microenterprise will usually operate with fewer than 10 people and is started with a small amount of capital. Most microenterprises specialize in providing goods or services for their local areas (investopedia, 2016).

MSE has no standard definition. MSEs have been identified differently by various individuals and organizations, such that an enterprise that is considered small and medium in one country is viewed differently in another country. Some common indicators employed in the various definitions include total assets, size of the labor force employed, and annual turnover and capital investments (Asma, 2015).

In context of Ethiopia, according to council of minister Regulation No. 201/2011 micro and small enterprise are defined as follow:

“Micro enterprise” means an enterprise having a total capital, excluding building, not exceeding birr 50,000 in the case of service sector or not exceeding birr 100,000 in the case of industrial sector and engages five workers including the owner, his family members and other employees. “Small enterprise” means an enterprise having a total capital, excluding building, from birr 100, 001 to birr 1,500,000 in the case of industrial sector and engages from 6 to 30 workers including the owner, his family members and other employees.

According to Assefa, Zerfu, & Tekle (2014), the definition of MSEs are in form of the following Tables: Definition of MSEs in Ethiopia

<table>
<thead>
<tr>
<th>Level of the enterprise Asset</th>
<th>Sector</th>
<th>Human power Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro enterprise</td>
<td>Industry 4500</td>
<td>≤5≤100,000 ($6000 or E 4500)</td>
</tr>
<tr>
<td></td>
<td>Service 22000</td>
<td>≤5≤50,000 ($3000 or E 22000)</td>
</tr>
<tr>
<td>Small enterprise</td>
<td>Industry ($ 9000 or E 70000)</td>
<td>6-30≤Birr 1.5 million</td>
</tr>
<tr>
<td></td>
<td>Service E 23000</td>
<td>6-30≤Birr 500,000($ 30000 or E 23000)</td>
</tr>
</tbody>
</table>

Source: FeMSEDA, 2011

ii. What is Credit Default?

According to Wilson (2007), the term “credit default” defined as the late payment of a debt obligation, so a bank can apply a penalty “default” interest rate between the due date and the actual payment date. It can also mean something as serious as a bankruptcy or insolvency where the lender initiates a recovery process to limit loss from a collateralized loan. The researcher also remark two concepts of delinquency and insolvency which underlie mostly the definitions of credit default; Delinquency is defined as a failure to meet a loan payment by a due date, whereas insolvency is defined as a situation where assets are less than liabilities. This study points out a delinquency is not only factor for lack of loan repayment; also there may be a situation that assets are less than liability.

Default occurs when a debtor has not met his or her legal obligations according to the debt contract. For example a debtor has not made a scheduled payment, or has violated a loan covenant (condition) of the debt contract (Alex, 2014).

According to Mukono (2015), a delayed installment is said to be delinquent and a repayment that has not been made is said to be in default. Default on borrowed funds could arise from unfavorable circumstances that may affect the ability of the borrower to repay (Mukono, 2015). Delays of repayment lead to two ominous effects for financial institutions, which include non-refinancing of a large number of safe borrowers and the collection of late installments by the loan officer driving to an increase of its loads without compensations in resources. In addition, because of the delay of a member, other members will be incited then to delay their repayment and even to negotiate with the institution the possibility to abandon the last part of the loan (Mukono, 2015).

In general, Mukono (2015) distinguish the term of insolvency and bankruptcy and explain types of default as follow:

- "Default" essentially means a debtor has not paid a debt which he or she is required to have paid.
- "Insolvency" is a legal term meaning that a debtor is unable to pay his or her debts.
- "Bankruptcy" is a legal finding that imposes court supervision over the financial affairs of those who are insolvent or in default.
- Default can be of two types: debt services default and technical default. Debt service default occurs when the borrower has not made a scheduled payment of interest or principal. Technical default occurs when an affirmative or a negative covenant is violated.

iii. Definition of Determinants of Loan Repayments

Some of the major operational definitions of basic concepts are given below.
a. **Personal data**

   This is to know the demographic characteristics of the respondent’s background data which include sex and experience. It affected dependent variable of loan repayment of MSEs in the study area.

b. **Inadequate loan payback period**

   Inconvenience of loan payback period or Loan delinquency which means the shortage of time to repay loan successfully on maturity date because of different reasons of loan payers.

c. **Marketing Skills**

   According to Asma (2015), the important factor contributing to success or failure of SMEs is marketing skills. There is extensive evidence to prove that marketing plays a significant role in the success of MSEs. Marketing is also one of the biggest challenges MSEs face in their business operations. MSEs in Algeria are weak in terms of market research and have inadequate marketing skills because most Algerian MSEs are owned and managed by one person. Such entrepreneurs take care of all the managerial functions of the enterprise and lack the time and funds to invest in research to establish their target market or identify customer trends.

   The constraint micro-small business face is inadequate markets access due to unstable market value chains and over reliance on saturated and localized markets. Purchasing power is low; transport infrastructure is poor, and most micro-small business has no knowledge of markets beyond their immediate locality (Anthony, 2015).

   According to Kefale & Chinnan (2012), the most prevalent areas in which MSE have problems are sales or marketing, human resource management, and general management; they specifically reported promotion, marketing research and training as the most frequently encountered problems. Marketing problem has been widely acknowledged as being the most important of all activities and critical for the survival and growth of MSEs.

   Many studies found owner/managers of MSEs as having a very limited understanding of the marketing concept generally to be little more than advertising and public relations and lacking adequate marketing skills. Specifically, problems in promotion and marketing research were frequently encountered by MSEs. These problems include the selection of promotional media (local newspaper or radio, direct mails, outdoors, etc), difficulty in getting customers to pay, low purchasing power of customers, advertising, content design and format of the promotional materials, market size, location and addresses of potential customers(Kefale & Chinnan, 2012).

   Micro and small enterprises in Ethiopia faced various marketing problems. There is lack of product diversity and as a result similar products are overcrowding the market. In addition to this certain micro and small enterprises lack of skill to modify their products and they have lack of sufficient range of product designs (Mezgebe, 2012).

   From above different studies marketing is the big problem area for small entrepreneurs. The survival of small entrepreneurs very much depends on sound marketing techniques. One of the most important tools in the hands of small entrepreneurs for promoting their sales is low prices coupled with credit to buyers, which give rise to number of problems at a later stage. The contact with markets and the awareness of market opportunities are very important links in the craft creative system chain.

d. **Lack of financial skill and planning**

   Financial capability is a broad concept, encompassing people’s knowledge and skills to understand their own financial circumstances, along with the motivation to take action. Financially capable consumers plan ahead, find and use information, know when to seek advice and can understand and act on this advice, leading to greater participation in the financial services market (Sherrard, 2010).

   MSEs Lack of access to capital and high interest rates charges are partially the result of incomplete (or no) accounting records, and the inefficient use of accounting information.

   Poor record keeping and accounting information make it difficult for financial institutions to evaluate potential risks and returns, making them unwilling to lend to SMEs. And, SMEs pay high interest rates or fall back on the middlemen or moneylenders, whose loans are costly and often restrictive. The misuse and inaccurate of accounting information causes SMEs to inaccurately assess their financial situation, and make poor financial decisions, as well as leads them to face with the high failure rate (Mosisa, 2011).

   The idea financial skill and planning is specifically related with financial capability, financial literacy, financial education of individuals and firms. In case of this study, the capability of MSEs in keeping, recording and reporting of their financial data were low because the lack of loan repayment was a result of lack of financial skill and planning in the study area.

e. **Lack of performance monitoring (follow up or supervision)**

   According to Ameyaw-Amankwah (2011), Loan repayments should be monitored and whenever a customer defaults action should be taken. Thus, banks should avoid loans to risky customers, monitor loan repayments and renegotiate loans when customers get into difficulties. Inversely, in this study researcher overlooks good governance is vital for the development of a healthy and competitive environment of MSEs with established rules and procedures to manage and run the enterprise. In addition to this, the delay of decision-
making process, poor organization, poor staffing, weak controlling, and directing. This may also have roles resulting in credibility problems.

iv. Importance of Micro and Small Enterprises

Micro enterprise has major role in economic growth of both developed and developing countries critically by helping poor people with creation of job, and changing their worst standard of living in their day to day economic activities. Moreover, the cumulative of these economic activities in different sector such as industry, service and agriculture has high contribution for GNP and GDP of the country. Similarly, in Ethiopia micro enterprises play a key role in poverty alleviation, economic growth, and job creation.

They are vital in dispersing new industries to the countryside and stimulating gainful employment. SMEs are more likely to be labor-intensive. Thus, they generate jobs in the locality where they are situated. In this sense, they bring about a more balanced economic growth and equity in income distribution. In addition, SME play an important part in the provision of services in the community. They can make an important contribution to regional development programs (Million, 2014).

Socio-economic development of any country designates both qualitative and quantitative changes which contribute grossly to the improvement of people’s life. This requires industrialization where micro and small enterprise comes into the centerpiece as one of the packages and instruments to help accelerate economic growth and then the overall socio economic development of the nation. The socio-economic progress of a neo independent developing country rests on the pillars of income from a large number of people. In this respect, the small-scale sectors, especially the MSEs have a vital role to play (Shiferaw, 2013). The study conducted by Kefale, & Chinnan (2012) confirm that the Micro and Small enterprises (MSEs) have a tremendous potential to generate employment for the majority of the urban labor force. They are also important sources of income not only for those people who could not find employment in other sectors but also provide cushion to falling incomes of low wage earners.

According to Gashu & Borji (2015), all economies of the world especially in developing countries of Africa like Ethiopia, micro and small enterprises are key factors for sustained growth and development. Also, they are concluded that the healthy MSE sector contributes prominently to the economy through creating more employment opportunities, generating higher production volumes, increasing exports and introducing innovation and entrepreneurship skills.

v. Challenges of Micro and Small Enterprises

The major constraints of MSEs are finance for initial capital and working capital, Line of credit from the suppliers, new technology to produce quality products/ give service, ability to hire qualified and professional staff for production, service and marketing (Ramakrishnan, 2013).

In Kenya three out of five micro and small businesses failed within the first few months of operation due to competition, managerial inefficiency, insecurity, debt collection, lack of working capital and power interruptions, political uncertainty, cost of materials, sellers, low demand and restrictive by-laws (Deribie, 2014). Similarly, in Ethiopia there are many internal and external challenges such as lack of finance, lack of working premise, lack of access to land affect MSE’s in their operations and hinder their growth (MUDC, 2013).

According to research report conducted by Assefa, Zerlu, & Tekle (2014), the key constraints to MSE growth are access to finance, collateral challenges, Marketing Challenges, Working and Sales Space Constraints, Capital goods and Machinery challenges, Licensing and registration challenges, Attitudinal Challenges, and Institutional Coordination Problem in Ethiopia. Moreover, Drbie, & Kassahun (2013) studied revealed that Lack of Adequate Finance, Lack of Working Premises, Lack of Managerial and Technical Skills, Lack of Adequate Market, Inadequacy of Infrastructure Facilities, Erratic Supply of Raw Materials; Regulatory Constraints are Deterrents to the Success of Micro and Small Enterprises.

b) Empirical Studies on Loan Repayment

Nancy & Mohamed (2014) in their study on Determinants of Loan Repayment in Small Scale Enterprises in Developing Countries analyzed and identified the determinants that influence the loan repayment in developing country. They found out that personal characteristics such as education level, family size, amount of loan applied and business experience of the respondents have a positive relationship to loan repayment. Age, interest rate and change in gender had an inverse relationship to loan repayment.

The research conducted by Salem (2016) was estimated econometric model known as two limit tobit regression model of the maximum likelihood and the marginal effects was used for Determinants of Loan Repayment Performance of the Case of Micro and Small Enterprises in Dire Dawa Administration. She selected explanatory variables by broadly categorizing under Individual entrepreneur characteristics, loan specific characteristics and business related factors. A total of 12 explanatory variables were considered in the econometric model out of which five variables were found to significantly influence the loan repayment performance of MSE borrowers. These were repayment period (RP), efficient loan size (ELS), follow up and supervision (FS), business sector (SEC), and business experience (EXP). Of which, repayment period (RP) and efficient loan size (ELS) influence loan repayment performance at 10% significant level while follow up and
supervision (FS), business sector (SEC), and business experience (EXP) influence repayment performance at 1% significant level. The remaining variables such as sex of borrowers (SEX), age (AGE), education level (EDUC), saving habit (SAV), training (TRA), other source of income (OI) and Revenue from the Business (RB) were found to have no significant effect on the loan repayment performance of Dire Dawa MSE borrowers. In this case, she employed information related to individual, loan and business characteristics, but she did not incorporate determinants confronting MSEs such as lack of marketing skill, lack of financial skill and planning and lack of performance monitoring in MSEs sector. Moreover, variables like lack of marketing skill, lack of financial skill and planning and lack of performance monitoring were included in this study area and analysis.

Kebede, Tegegn, & Tafese (2016) studied on the Factors Affecting Loan Repayment Performance of Small Scale Enterprises Financed by Micro Finance Institutions: Study on Private Borrowers around Wolaita and Dawuro Zone included a total of 15 explanatory variables were considered in their econometric model of two limit Tobit model. The independent variable includes Sex of household, Educational status of Household, Marital status of Household, Age of household, farming experience, household Size, dependency ratio, Tropical livestock unit, Off Farm income, Value of equipment, receiving training, Lend in group, Repayment suitability, Loan amount and Loan frequency. In the analysis of their study, six explanatory variables were found to be significant. These were sex of household revealed that from their respective sex composition, males’ respondents were found having more repayment performance than female respondents, Education level was found to be positively and significantly influencing loan repayment. Number of dependents within and out house hold this variable was found to be determine negatively and significantly, Tropical livestock unit total livestock ownership is positively related to the dependent Variable, Value of equipment, repayment suitability strong and significant association between repayment period and dependent variable. In their study the remaining independent variable were insignificantly related to dependent variable of loan repayment. They were mainly depending on individual and loan characteristics, but they did not include firm characteristics. Among individual and loan characteristics Sex of household, Educational status of Household, Marital status of Household, Age of household, farming experience, household Size, dependency ratio, Tropical livestock unit, Off Farm income, Value of equipment, receiving training, lend in group, Repayment suitability, Loan amount and Loan frequency were their main focus of study.

A study conducted by Kibrom(2010) estimated Econometric Analysis Probit Model on the Determinants of Successful Loan Repayment Performance of Private Borrowers in Development Bank of Ethiopia, North Region. The independent Variable he was used were education, repayment period, other source of income, sector, purpose of the loan, type of labour, gender, household size, age, experience and loan diversion. In his result of study the Variable education has a positive sign as he was expected and statistically highly significant at 1%.The result of his study indicates that as the borrower reaches in tertiary level of education, his/her capacity to repay his/her loan successfully will increase, repayment period has a positive sign as he was expected and statistically highly significant at 1%.In his study, the result of repayment period indicates that as the borrower takes a loan that will be repaid within the medium term of repayment, his/her capacity to repay his/her loan successfully will increase, other source of income has a positive sign as he was expected and statistically highly significant at 1%.The result of his study shows that the probability of repaying their loan successfully relative to borrowers who engage in the service-giving sector have high probability of repaying their loan successfully relative to borrowers who engage in industry, agriculture and agro processing sectors, purpose of the loan has a positive sign as he expected and statistically significant at 1%. The result of his study shows that the probability of repaying loans successfully is higher for borrowers who use the loan for fixed investment rather than for borrowers who use the loan for working capital and for both fixed investment and working capital; type of labour has a positive sign as expected and significant at 1%. The result of his study indicates that as the borrower hires a labour his/her probability to repay his/her loan successfully is high, relative to borrowers who use family labour and the combination of family labour and hired labour. Other variables such as gender and household size have positive sign, but are not statistically significant. Moreover, variables such as age, loan diversion, other source of credit show negative sign but not statistically significant. The variable experience also statistically significant but show negative sign. In general, the study he was conducted was focused on performance and non-performance of private borrowers in Development Bank of Ethiopia in North Region of Ethiopia, but there is no indication for factors or variables that were included in this study and MSE sector.

Tadele(2014) estimated an econometric model known as binary logistic model analysis on Determinants of Microfinance Loan Repayment Performance: Case of Omo Microfinance (OMFI) in Kaffa Zone. In his model analysis, he emphasized considering the combined effect of variables between defaulters and non-defaulters’ borrowers from Omo
microfinance in Kaffa Zone, Ethiopia. A p-value of less than 5% was declared as significant statistical relationship between dependent (loan repayment) and independent variables. He includes a total of 12 explanatory variables considered in the economic model. Out of these eight of the variables were found to be significant at 5% significant level, while the remaining four were not significant in explaining the variations in the dependent variable. Age, sex, educational level, method of lending, other source of income before loan, suitability of installments period, loan size and timeliness of loan release included in the model were found to be have positive and statistically significant. However, the remaining four explanatory variables namely, family size, residence of borrower, distance from institution and frequency of collection had no significant effect on the probability of being defaulter. Hence, the study conducted by Tadele (2014) indicated either performance or non-performance of borrowers from Omo microfinance in Kaffa zone, and he was not included the variable that related with this study and MSE’s sector as determinants of loan repayment.

In the above paragraph of the empirical study conducted in Ethiopia, there was a little study conducted in the sector of micro and small enterprise’s loan repayment.

c) Knowledge Gap

As mentioned above, various researches has done on Individual/borrower’s characteristics, lender/ Institutional characteristics and firm characteristics of loan repayment such as (Salem, 2016), (Kebede, Tegegn, & Tafese, 2016), (Kibrom, 2010), and (Tadele, 2014). However, the Studies done were focused more on nonperforming loans in relation to various aspects such as credit risk, causes of non-performing loans and performance of the banking and micro finance institution, but in the literature review there is little coverage of determinants of loan repayment in the micro and small enterprises Sector in Ethiopia in relation to operational definition of this study. This study was also focused on addressing this research gap and analyzes the significant relationship between challenges confronting MSEs or firm characteristics such as Sex, Experience of respondents, lack of marketing skill, lack of performance monitoring, financial skill and planning and borrower characteristics and lack of loan repayment with ongoing practice in the study area. Therefore, having identified the research gap, this study addresses two upheaval issues to fill the gap that has not been incorporated in the past studies in Ethiopia and assess the Present Scenario of MSEs in Jimma town, Ethiopia.

d) Conceptual Frame Work

According to Jonker & Pennink (2010), conceptual model can be helpful in structuring the problem, identifying relevant factors and then providing the connections that make it easier to map and frame the problem.

The conceptual model of this study was to examine the determinants of loan repayments of MSEs in Jimma town, Ethiopia. From literature review, various empirical studies reviewed by the authors cite probable factors that influence loan repayments. This study was focused on Individual characteristics, Firm characteristics and Loan characteristics which were causes for lack of loan repayment. The following model was estimated to depict the relationship between dependent and independent variable to solve the problem of lack of loan repayment.

![Fig.1: Conceptual Frame Work](image-url)
IV. Methodology

a) Research Design

Based on the purpose, environment and the time required accomplishing research; this study employed descriptive study design aimed to examine determinants of loan repayment of micro and small enterprises in particular study area of Jimma town, Ethiopia. According to Kothari (2004), descriptive research studies are those studies which are concerned with describing the characteristics of a particular individual, or of a group.

b) Target Population and Study Area

The study was carried out in Jimma town, Ethiopia. The target population is finite in number those includes all MSEs in the town. The total population of MSEs in the town is 2275 and they are engaged on activities of manufacturing, construction, urban agriculture, service and Trade. All enterprises in the town are active during beginning of 2017. This population are classified into the sectors in which they are involved and the total numbers of each sectors are: manufacturing (347), construction (631), urban agriculture (187), service (578), and Trade are 532 (Jimma town MSEs Bureau, 2017).

c) Description of Sample and Sampling Procedures

i. Sample Size Determination

There are several approaches to determine the sample size. These include using a census for small populations, imitating a sample size of similar studies, using published tables, and applying formulas to calculate a sample size (Salem, 2016).

To determine the appropriate sample size, the basic factors to be considered are the level of precision required by users, the confidence level desired and degree of variability. The ‘degree of precision’ is the margin of permissible error between the estimated value and the population value. In other words, it is the measure of how close an estimate is to the actual characteristic in the population. The level of precision may be termed as sampling error. The confidence or risk level is ascertained through the well-established probability model called the normal distribution and an associated theorem called the Central Limit theorem. Normal curve results whenever there are a large number of independent small factors influencing the final outcome. The degree of variability in the attributes being measured refers to the distribution of attributes in the population. The more heterogeneous a population, the larger the sample size required to be, to obtain a given level of precision (GUMA, 2012).

In this study, Yamane (1967) formula was used so as to determine representative sample size of target population as follow:

\[
 n = \frac{N}{1 + N(e)^2}
\]

Where, 
- \( n \) = is sample size
- \( N \) = is the population size
- \( e \) = is desired level of precision

According to above formula this study was carried out on 341 respondents with proportional allocation of sample size to each sector, which includes manufacturing, construction, urban agriculture, service and Trade. The confidence level applied to the study is 95%, \( N \) (population size) = 2275, \( e \) (level of precision) = 5% and \( n \) = 341.

After the determination of sample size, the allocation of these sample size to each sectors of MSEs in the study area was carried out through proportional allocation method of stratified random sampling.

The proportional allocation method was originally proposed by (Bowley, 1926). In this method, the sampling fraction, \( n/N \) is same in all strata. This allocation was used to obtain a sample that can estimate size of the sample with greater speed and a higher degree of precision. The allocation of a given sample size \( n \) to different stratum was done in proportion to their sizes. i.e. in the \( i \)th stratum (GUMA, 2012).

\[
 n_i = \frac{n N_i}{N} i = 1, 2, 3
\]

Where, \( n \) = represents sample size, \( N_i \) represents population size of the \( i \)th strata, \( N \) represents the population size. Hence, \( N = 2275 \), \( N_i \) = manufacturing (347), construction (631), urban agriculture (187), service (578), and Trade (532) and \( n \) = 341. Sample sizes of \( n_i \) as under for each strata:

<table>
<thead>
<tr>
<th>Strata</th>
<th>( N_i )</th>
<th>Formula for ( n_i )</th>
<th>Sample size for each strata</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturing</td>
<td>199</td>
<td>( =341(347/2275) )</td>
<td>52</td>
</tr>
<tr>
<td>Construction</td>
<td>631</td>
<td>( =341(631/2275) )</td>
<td>94</td>
</tr>
<tr>
<td>Urban Agriculture</td>
<td>187</td>
<td>( =341(187/2275) )</td>
<td>29</td>
</tr>
<tr>
<td>Service</td>
<td>578</td>
<td>( =341(578/2275) )</td>
<td>87</td>
</tr>
<tr>
<td>Trade</td>
<td>532</td>
<td>( =341(532/2275) )</td>
<td>79</td>
</tr>
<tr>
<td>Total</td>
<td>2275</td>
<td>341</td>
<td>341</td>
</tr>
</tbody>
</table>

ii. Sampling Frame

Sampling frame is the list from which a sample is drawn (Kumar, 2011). According to Kothari (2004), the elementary units or the group or cluster of such units may form the basis of sampling process in which case
they are called as sampling units. In this study sampling frame was organized into homogeneous characteristics of strata before selecting elements for the sample depend on sample size as follow:

### Table 2

<table>
<thead>
<tr>
<th>Sectors</th>
<th>Population(N)</th>
<th>Sample(n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturing</td>
<td>347</td>
<td>52</td>
</tr>
<tr>
<td>Construction</td>
<td>631</td>
<td>94</td>
</tr>
<tr>
<td>Urban Agriculture</td>
<td>187</td>
<td>29</td>
</tr>
<tr>
<td>Service</td>
<td>578</td>
<td>87</td>
</tr>
<tr>
<td>Trade</td>
<td>532</td>
<td>79</td>
</tr>
<tr>
<td>Total</td>
<td>2275</td>
<td>341</td>
</tr>
</tbody>
</table>

### iii. Sampling Technique

The population of this study have heterogeneous characteristics among the group (strata), but homogenous within the group. In this case, from probability sampling the stratified sampling technique was applied so as to obtain a representative of the entire population. In this technique, the population was stratified into five strata and sample items were selected from each stratum, and the items selected from each stratum was based on simple random sampling or stratified random sampling with proportionate stratified sampling.

### iv. Description of the Research Instruments

To get a well-defined and required data self-administered questionnaire was used so as to collect primary data such as Individual characteristics, loan characteristics, and Firm characteristics. The self-administered questionnaire has both open-ended and close-ended questions. The questionnaire was expected to help researcher in order to achieve the set objectives with necessary data. The designed self-administered questionnaire has three parts. The first part is close ended format and consists of the demographic profile of the respondents. The second part consists of loan characteristics of the enterprises which contain open ended and close ended. In addition, the third part contains firm characteristics with both close ended and open ended questions which help respondents to provide additional information about hindering factors of loan repayment in the study area. In general, the self-administered questionnaire was prepared in English and Afaan Oromoo to elicit the desired response and 341 questionnaires were administered and distributed to the selected respondents.

### d) Description of Data Collection Procedures

This study used both quantitative and qualitative methods of data collection from primary data. The primary data was collected from owners/managers of MSEs who were included in the sample of the study. Before the questionnaires were filled by owners/managers, the enumerators were trained on technique of filling the questionnaire under close supervision of the researcher.

e) Data Analysis Techniques

### i. Descriptive Analysis

Both qualitative and quantitative approach of data analyses were employed to examine determinants of loan repayment of MSEs by distinguish characteristics of MSEs in the study area. The study used qualitative and quantitative methods to report the findings. The quantitative analysis helped the researcher to generate descriptive statistics necessary to make deductions on characteristics of respondents, loan characteristics and firm characteristics. After a careful review of the collected data, the close ended questions was coded and entered into a computer using statistical Package for Social Science (SPSS) and analysis was carried out by SPSS software. Functions used for analysis in this study were frequency tables which incorporate the percentages used for descriptive statistics.

### ii. Econometric Model

To examine determinants of loan repayment of MSEs, the binary logistic regression model was used to examine the relation of each factor such as Individual characteristics, loan characteristics and firm characteristics with loan repayment in the study area. This model is selected due to the nature of dependent variable of loan repayment which is dichotomous taking on two values, zero if the borrower is a defaulter and one otherwise, the dependent variable is categorical variable with only two categories 0 and 1 respectively. According to (Solomon, 2013), the estimation dichotomous values require the use of qualitative response models and the non-linear probability models, logit and probit models are the possible alternatives. However, several estimation problems arise particularly when Ordinary Least Squares (OLS) regression and linear probability models are employed (Aldrich & Nelson, 1984). The OLS regression technique, when the dependent variable is binary, produces parameter estimates that are inefficient and a heteroscedastic error results in the structure. Consequently, hypothesis testing and construction of confidence interval become inaccurate and misleading. Likewise, a linear probability model may generate predicted values outside the 0-1 interval, which violates one of the basic tenets of probability. To alleviate these problems and produce relevant empirical outcomes, the most widely used qualitative response models are the logit and probit models (Amemiya, 1981).

Regression models in which the regress and evoke a yes or no or present or absent response are known as dichotomous, or dummy, dependent variable regression models. They are applicable in a wide variety of fields and are used extensively in survey or census-type data (Gujurati, 1995). The dependent variable in this study was also a dummy variable, which takes a value of zero or one depending...
on whether or not the MSEs Default, but the independent variables were also categorical.

iii. Model Specification

As already noted, the dependent variable is a dummy variable, which took a value of zero or one depending on whether or not a borrower defaulted. However, the independent variables were also categorical in this study.

Probit and logit models are similar and yield essentially identical results. Aldrich & Nelson(1984) indicated that in practice these models yield estimated choice probabilities that differ by less than 0.02 and which can be distinguished, in the sense of statistical significance, only with very large samples. The choice between them therefore, revolves around practical concerns such as the availability and flexibility of computer programs, personal preference, experience and other facilities (Solomon, 2013).

The probit and the logit models are commonly used in studies involving qualitative choices. The probit probability model is associated with the cumulative normal probability function, whereas, the logit model assumes cumulative logistic probability distribution. The advantage of these models over the Linear Probability Model is that the probabilities are bound between 0 and 1. Moreover, they fit best the non-linear relationship between the probabilities of the dependent variable and the explanatory variables, that is one which approaches zero at slower and slower rates as an explanatory variable (Xi) gets smaller and smaller and approaches one at slower and slower rates as Xi gets larger and larger. (Gujarati, 1988);(Feder, Just, & Zilberman, 1985) , (Aldrich & Nelson, (1984)and (Maddala, 1983) have recommended probit model for functional forms with limited dependent variables that are continuous between 0 and 1, and logit models for discrete dependent variables (Solomon, 2013).Then, the binary logistic model is appropriate for this study and cumulative logistic probability model is econometrically specified as follows:

\[ P_i = \frac{1}{1 + e^{-Z_i}} \]  

Where, \( P_i \) is the probability that an individual will make a certain choice (default or does not default) given \( X_i \) denotes the base of natural logarithms, which is approximately equal to 2.0718;

\( X_i \) represents the \( i^{th} \) explanatory variables; and \( \alpha \) and \( \beta \) are parameters to be estimated

According to Hosmer & Lemeshew (1989), the binary logistic model could be written in terms of the odds and log of odds, which enables one to understand the interpretation of the coefficients. The odds ratio implies the ratio of the probability (\( P_i \)) that an individual would choose an alternative to the probability (1-\( P_i \)) that he/she would not choose it.

\[ \frac{1}{1+e^{-Z_i}} \]

Therefore,

\[ \frac{P_i}{1-P_i} = e^Z_i \]

Or,

\[ \frac{P_i}{1-P_i} = \frac{1}{1+e^{-Z_i}} \]

Taking the natural logarithm of the equation(4)

\[ Z_i = \ln\left(\frac{P_i}{1-P_i}\right) = \alpha + \beta_1X_1 + \beta_2X_2 + \ldots + \beta_mX_m \]

Description of the Dependent variables together with their expected models was given below:

Dependent variable (LR): is defined as the loan repayment of MSEs, which is a dummy variable taking a value Zero if the MSEs is defaulter and one otherwise.

\[ LR = \text{loan repayment (LR) } = (0=\text{yes if defaulter, } 1 \text{ otherwise}) \]

\[ LR = f (Sex, Experien, ILPP, LMS, LFSP, FS) \]  

Where,

\[ Sex = \text{Sex of respondents} \]
\[ 0 \text{ if sex of respondents are Male } 1 = \text{ otherwise} \]
\[ Experien = \text{Experience} \]
\[ 0 \text{ if respondents are experienced } 1 = \text{ otherwise} \]
\[ ILPP = \text{Inconvenience of loan payback period} \]
\[ 0 \text{ if suitable repayment period } 1 = \text{ otherwise} \]
\[ LMS = \text{Lack of Marketing Skills} \]
\[ 0 \text{ if manager/owner have Marketing Skills } 1 = \text{ otherwise} \]
\[ LFSP = \text{Lack of financial skill and planning} \]
\[ 0 \text{ if borrower keeps financial records } 1 = \text{ otherwise} \]
\[ FS = \text{Follow up and supervision} \]
\[ 0 \text{ if adequate supervision visits made to a borrower } 1 = \text{ otherwise} \]
V. Result and Discussion

The study examined the effect of the Individual characteristics, Loan characteristics and Firm characteristics on Loan repayment of Micro and Small Enterprises in Jimma town, Ethiopia. To processing and analyzing the data which were collected in previous chapter, both descriptive and logistic regression analysis was used. This study also discusses and analyzes effect of dependent variable on independent variable to examine whether one or more independent variables influence the dependent variable by using the statistical package for social sciences (SPSS) version 20 in order to obtain valid and reliable data.

a) Descriptive Results

i. Individual Characteristics

a. Sex of Respondents

The following Figure shows gender categories of the respondents from total 341 samples taken. This is important to know sex category of the respondents along with their involvement, management and participation of owners/managers of Micro and Small Enterprises.

As shown in Figure 4-1 above, from total of 341 sample participants 59.2% (202) are males, and 40.8% (139) are females. This indicated that there are more males than females’ participants in involvement and management of enterprises.

b. Age of Respondents

The Age of respondents determines ability of respondents that they have towards subject of the study, or to understand in detail about their business activity.

As shown in Table 4-1 above, the age of respondents are divided into four parts, the participants below age of 30 are 114 in number (33.4%), within 31-40 are 129 in number (37.8%), within 41-50 are 88 in number (25.8%), and within 51-60 are 10 in number (2.9%). This shows that the large number of owners or managers of micro enterprises are within age of 31-40 years, the second largest group of age are below 30 years, the third are within 41-50, and the small number of age group are within 51-60 years.

c. Educational Status of Respondents

Educational status of respondents needed to know the educational qualifications of the respondents because education level is a predictor of the ability to understand well the questions rose in the study.
Figure 4 above shows that the educational status of micro and Small enterprise’s owners and managers. From 341 owners and managers, 44 of them were below grade 9(12.9%), 180(52.8%) were Grade 10-12, 88(25.8%) were Diploma holders, and 29(8.5%) of them were Degree holders respectively. This reveals that most of owners or managers of enterprises have completed Grade 10 and 12, and also the Figure indicated that all participants of the study were literate respondents.

d. Marital Status of Respondents

The following Figure 4-3 helps to identify married respondents from unmarried respondents because the time of planning and controlling business activities by married was not suitable than unmarried. As indicated in the following figure out of 341(100%) respondents, 197(57.8%) are married and 144(42.2%) are unmarried.

The result of analysis from Figure 4-3 shows that out of 341(100%) of respondents 197(57.8%) are married and 144(42.2%) are unmarried. This indicated that the MSEs Managers or owners were shared their full ideas or thought’s to home. In other words, the time of planning and controlling business activities by married respondents are not suitable than unmarried. This indicated that the experienced respondents had more capability for loan repayment than inexperienced respondents.

e. Experience of Respondents

The respondents who have more experience before join micro and Small enterprise in their business activities are more effective and profitable than inexperienced respondents as shown in the following table. This indicated that the experienced respondents had more capability for loan repayment than inexperienced respondents.
Table 4: Experience of respondents

<table>
<thead>
<tr>
<th></th>
<th>Frequency</th>
<th>Percent</th>
<th>Valid Percent</th>
<th>Cumulative Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valid Yes</td>
<td>239</td>
<td>70.1</td>
<td>70.1</td>
<td>70.1</td>
</tr>
<tr>
<td>Valid No</td>
<td>102</td>
<td>29.9</td>
<td>29.9</td>
<td>100.0</td>
</tr>
<tr>
<td>Total</td>
<td>341</td>
<td>100.0</td>
<td></td>
<td>100.0</td>
</tr>
</tbody>
</table>

Source: Survey result, 2017

Table 4-3 result shows the business experience of respondents. Out of 341 samples taken 239 in number (70.1%) have experience while 102 in number (29.9%) have not experience before joining current business enterprises. This shows that most of the owners or managers of enterprises were experienced, and it indicated that the enterprises in the town were running by well experienced owners or managers. It had value for effectiveness of business activities.

b) Results of Econometric Model

In this section of study the econometric model known as binary Logistic regression was employed in order to analyzing determinants which impeding loan repayment of micro and small enterprises in Jimma town, Ethiopia. Binary logistic regression model was used to analysis the effect of the explanatory variable on dependent variable, variation, relationships and strengths between the dependent and independent variables. Among the variables sex, experience, Inconvenience of loan payback period (ILPP), Lack of Marketing Skills (LMS), Lack of financial skill and planning(LFSP)and also Follow up and supervision (FS) were independent variable whereas loan repayment was dependent variable.

Table 5: Classification Table Classification Table

<table>
<thead>
<tr>
<th></th>
<th>Observed</th>
<th>Predicted</th>
<th>Percentage Correct</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Have you ever failed to repay according to the schedule?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Step 0</td>
<td>Yes 296</td>
<td>296</td>
<td>100.0</td>
</tr>
<tr>
<td></td>
<td>No 45</td>
<td>45</td>
<td>0</td>
</tr>
<tr>
<td>Overall Percentage</td>
<td></td>
<td></td>
<td>86.8</td>
</tr>
</tbody>
</table>

a. Constantis included in the model. b. The cut value is .500

Table 4-23 above shows that the percentage accuracy in classification (PAC) is 86.8%, which reflects the percentage of cases that can be correctly classified as "Yes" credit default with the independent variables added, and the remaining 13.2% were non-default classification. The estimated probability of the event occurring is greater than cut value of 0.5 or 50%. The result from above table indicated that credit default was occurring by greater than 50% out of 100%.

Table 6: Omnibus Tests of Model Coefficients

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Chi-square</th>
<th>Df</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step</td>
<td>152.041</td>
<td>6</td>
<td>.000</td>
</tr>
<tr>
<td>Block</td>
<td>152.041</td>
<td>6</td>
<td>.000</td>
</tr>
<tr>
<td>Model</td>
<td>152.041</td>
<td>6</td>
<td>.000</td>
</tr>
</tbody>
</table>

The Omnibus Tests of Model Coefficients is used to check that the new model (with explanatory variables included) is an improvement over the baseline model. It uses chi-square tests to see if there is a significant difference between the Log-likelihoods (specifically the -2LLs) of the baseline model and the new model. If the new model has a significantly reduced -2LL compared to the baseline then it suggests that the new model is explaining more of the variance in the outcome (Laerd, 2017). The logistic regression model was statistically significant, $\chi^2 (6, N=341) = 152.041, p <0.001$, indicating that the model was able to identify determinants for credit default.

c) Estimation terminated at iteration number 9 because parameter estimates changed by less than .001.

The Model Summary of Table 4-25 provides the -2LL and pseudo-$R^2$ values for the full model. The -2LL value for this model (114.011) is what was compared to the -2LL for the previous null model in the 'omnibus test of model coefficients’ which told us there was a significant decrease in the -2LL, i.e. that our new model (with explanatory variables) is significantly better fit than the null model. The $R^2$ values tell us approximately how much variation in the outcome is explained by the model. The model explains between 36% and 66.4% of the variance in dependent variable is explained by independent variable.

Table 7: Hosmer and Lemeshow Test

<table>
<thead>
<tr>
<th>Step</th>
<th>Chi-square</th>
<th>Df</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.075</td>
<td>8</td>
<td>.979</td>
</tr>
</tbody>
</table>
As shown on the Hosmer & Lemeshow test, the goodness of fit suggests the model is a good fit to the data as \( p = 0.979 \) (> .05).

Table 4-2: Variables in the Equation

<table>
<thead>
<tr>
<th>Step 1a</th>
<th>B</th>
<th>S.E.</th>
<th>Wald</th>
<th>Df</th>
<th>Sig.</th>
<th>Exp(B)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex1</td>
<td>3.669</td>
<td>1.080</td>
<td>11.548</td>
<td>1</td>
<td>.001</td>
<td>39.201</td>
</tr>
<tr>
<td>Expe6</td>
<td>3.662</td>
<td>.685</td>
<td>28.535</td>
<td>1</td>
<td>.000</td>
<td>38.926</td>
</tr>
<tr>
<td>ILRP1011</td>
<td>-4.399</td>
<td>1.097</td>
<td>16.074</td>
<td>1</td>
<td>.000</td>
<td>.012</td>
</tr>
<tr>
<td>LMSK1032</td>
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<td>.800</td>
<td>10.531</td>
<td>1</td>
<td>.001</td>
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</tr>
<tr>
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<td>17.153</td>
<td>1</td>
<td>.000</td>
<td>.044</td>
</tr>
<tr>
<td>FS2020</td>
<td>2.165</td>
<td>.666</td>
<td>10.583</td>
<td>1</td>
<td>.001</td>
<td>8.715</td>
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<td>-5.687</td>
<td>1.143</td>
<td>24.754</td>
<td>1</td>
<td>.000</td>
<td>.003</td>
</tr>
</tbody>
</table>

i. Variable(s) entered on step 1: Sex1, Expe6, ILRP1011, LMSK1032, LFSP1036, and FS2020.

A variable in the following Equation shows the regression function of logistic regression model and the ‘B’ values are the logistic coefficients that can be used to create a predictive equation.

\[
\text{Logit (Pi)} = -5.687 + 3.669 \times x1 + 3.662 \times x2 - 4.399 \times x3 + 2.595 \times x4 - 3.132 \times x5 + 2.165 \times x6
\]

As shown in Table 4-27, all independent variable Sex, Experience, inconvenience of loan payback period (ILPP), Lack of Marketing Skills (LMS), Lack of financial skill and planning(LFSP) and Follow up and supervision (FS) made a statistically significant category since \( p \) value (Sig.) is less than 0.05, for each of the coefficients in the logistic regression model.

The Exp (B) column in the table presents the extent to which raising the corresponding measure by one unit influences the odds ratio and can be interpreted in terms of the change in odds. If the value exceeds 1 then the odds of an outcome occurring increase; if the figure is less than 1, any increase in the predictor leads to a drop in the odds of the outcome occurring (Robert & Richard, 2017).

In the above table, Exp (B) value associated with Sex is 39.201, indicating when Sex of respondents is raised by one unit (percent) the odds ratio is 39.201 more times likely to be “Male” category. The study revealed that the coefficient of sex of respondents is positive hence an indication that sex of Male respondents negatively affects loan repayment by Micro and small enterprises and which indicates that the log odds that a ratio of male to female is more times higher for loan repayment as compared to females owners or managers.

The odds ratio of 38.926 was greater than 1 for Experience of respondents, indicating when experience of respondents is raised by one unit, the odds ratio is 38.926 more times likely to be “Yes” category. Coefficient with loan repayment which is an indication that Experience positively influences loan repayment by micro and small enterprises.

Inconvenience of loan payback period (ILPP) is .012. The odds ratio of .012 was less than 1, indicating when inconvenience of loan payback period is raised by one unit (one person) the odds ratio is .012 times less likely found to be “No” category. The result indicated that inconvenience of loan payback period (ILPP) inversely influence loan repayment of borrower hence as major determinants of loan repayment by Micro and small enterprises.

The odds ratio of 13.397 was greater than 1 for lack of marketing skills (LMS), indicating when lack of marketing skills is raised by one unit (percent) the odds ratio is 13.397 more times likely to be “Yes” category. Lack of Marketing Skills (LMS) has a positive coefficient with loan repayment which is an indication that Lack of Marketing Skills (LMS) positively influences loan repayment by micro and small enterprises.

The odds ratio .044 was less than 1 for Lack of financial skill and planning(LFSP), indicating that for every additional 1 unit the odd ratio is .044 times less likely found to be “No” category. Coefficient of Lack of financial skill and planning(LFSP) is negative hence an indication that Lack of financial skill and planning(LFSP) negatively effects loan repayment by Micro and small enterprises. Thus, the study concludes that Lack of financial skill and planning (LFSP) inversely affect loan repayment by Micro and small enterprises.

The odds ratio of 8.715 for Follow up and supervision (FS) is greater than 1, which indicated for one unit raise person odds ratio, is 8.715 more times likely to be “Yes” category. Follow up and supervision (FS) is also among the factors that was, as expected, positively and significantly affected loan repayment of MSEs. As the result indicated follow up and supervision given by MSE borrowers increases the probability of loan default by 8.715.
VI. Summary, Conclusion and Recommendation

This chapter reports the summary, conclusions and recommendations that resulted from preceding chapter of study section.

a) Summary of Finding

The overall purpose of this study was to examine the determinants of loan repayment of micro and small enterprises in Jimma town, Ethiopia. Based on purpose of study the dependent variable was loan repayment whereas independent variable such as Individual characteristic, loan characteristics and Firm characteristics were included in the study. Descriptive statistics and binary logistics model were used to analyze the data collected from 341 sample respondents, and analyzed data has identified the following finding.

- Majority 202 (59.2%) of MSE’s owners/Managers and the business activities in Jimma town are run by men; and 129 in number (37.8%) of the study samples fall within the age’s category of 31-40 years.
- Around 180 (52.8%) of the participants have completed Grade 10-12; and large numbers 147 (43.1%) of owners/managers live in Jimma town within range between 4-6 years and 197 (57.8%) were married whereas 144 (42.2%) were unmarried.
- Majority of 239 (70.1%) owners/managers have experience before joining current business enterprises, and 225 (67.6%) of respondents were borrowed Money from Micro finance institution, however, 65 respondents (22.4%) were borrowed from bank as well as 160 (46.9%) used the loan provided by bank or microfinance institution for intended purpose while 181 respondents (53.1%) did not used for intended purpose.
- Majority 229 (67.2%) of loan borrowed from micro finance institution repaid within the specified time period, however, the rest 112 (32.8%) did not repay within time period, and 38.2% respondents preferred semiannually were suitable time period for repayment of loan.
- Majority 296 (86.8%) of them were failed to repay the borrowed amount of money from either banks or microfinance institutions, and the rest 45 (13.2%) did not fail according to the scheduled time period, and 91 respondents (30.7%) failed once to repay loans borrowed from start up of their business activities, and the rest 205 (69.3%) were failed two and more than twice. Around 66 (22.3%) respondents taken market problem for lack of loan repayment, 126 respondents (42.6%) taken a technical problem for reason of failure, 99 respondents (33.4%) taken working capital shortage, and others 5 respondents (1.7%) were not interested to explain reason of failure.
- Majority 143 (41.9%) were repay their loan by diversion of short term loan into long term loan balance, 86 respondents (25.2%) repay their overdue loan balance by sell of property and the remain 7 respondents (2.1%) were not interested to respond the mechanism to repay overdue balance. Out of 341 (100%) participants, most of 158 (46.3%) respondents were visited by credit officers while the rest 183 respondents (53.7%) were not visited by credit officer for their business activities, and most of 292 (85.6%) respondents were supervised, followed and evaluated by responsible body who lends money for borrowers, however, the rest of 49 respondents (14.4%) were not supervised, followed and evaluated by responsible body (either banks or micro finance institution), and also 195 respondents (57.2%) were satisfied by service provided from banks and micro finance institution. Hence, the remaining 146 respondents (42.8%) were not satisfied by service provided from banks and micro finance institution.
- Majority 201 (58.9%) respondents answered that their enterprises were employed less or equal to 5 employees, and the rest 140 respondents (41.1%) were stated that their enterprises employed greater than 5 employees, and most of 164 (48.1%) managers have from 2-5 years experience. In addition, those managers 135 (39.6%) were largely employed hired labour.
- According to output of SPSS from 341 (100%) selected sample enterprises, majority of 94 respondents (27.6%) were engaged in the construction sector and 87 respondents (25.5%) were engaged in the service sector, 79 respondents (23.2%) were engaged in the trade sector, 52 respondents (15.2%) were engaged in the manufacturing sector and 29 respondents (8.5%) were engaged in the urban agriculture respectively. Moreover, 276 respondents (80.9%) have marketing skills while the rest of 65 respondents (19.1%) have not marketing skill in promoting and other marketing variable such as place, sales, prices and product.
- Majority 177 (51.9%) of respondents were attended in different financial literacy training whereas 164 (48.1%) were not attended in financial literacy among members enterprises.
- The binary logistic coefficient is expressed in the exponentiation of the B coefficient (Exp (B)), which is an odds ratio. This value is given by default because odds ratios can be easier to interpret than the coefficient, which is in log-odds units. In this case, Exp (B) value associated with Sex is 39.201, indicating when Sex is raised by one unit (percent) the odds ratio is 39.201 more times likely to be “Yes” category. The odds ratio of 38.926 was greater than 1 for Experience of respondents, indicating when
experience of respondents is raised by one unit, the odds ratio is 38.926 more times likely to be “Yes” category. Inconvenience of loan payback period (ILPP) is .012. The odds ratio of .012 was less than 1, indicating when inconvenience of loan payback period is raised by one unit (one person) the odds ratio is .012 times less likely found to be “No” category. The odds ratio of 13.397 was greater than 1 for lack of marketing skills (LMS), indicating when lack of marketing skills is raised by one unit (percent) the odds ratio is 13.397 more times likely to be “Yes” category. The odds ratio .044 was less than 1 for Lack of financial skill and planning (LFSP), indicating that for every additional 1 unit the odds ratio is .044 times less likely found to be “No” category. The odds ratio of 8.715 for Follow up and supervision (FS) is greater than 1, which indicated for one unit raise person odds ratio is 8.715 more times likely to be “Yes” category.

VII. Conclusion

This study was trying to cover the Demographics characteristics, loan characteristics and Firm characteristics which affecting loan repayment of Micro and small enterprises in Jimma town, Ethiopia. Specifically, the variable such as Sex, Experience, inconvenience of loan payback period (ILPP), Lack of Marketing Skills (LMS), Lack of financial skill and planning (LFSP), and Follow up and supervision (FS).

A result from sample taken revealed that the involvement of women in ownership and management of MSE’S is less than men in the study area. Hence, by reduce such gap the empowerment of their participation in business activities has great role for productivity and stronger economic growth of the country. Majority of respondents were youths who have considerable contribution for growth of each sector and to reduce urban unemployment. Most of owners/managers of enterprises completed grade ten and twelve which helps and allowing them to running their business in well-organized manner such as look competitors, Customer wants and needs, cash flow management and preparation of business plan. The majorities of owners/managers selected for this study were married which indicated the probability of devoting full work time for married respondents were less than unmarried because they share their time to home and other food stuff.

The main sources of initial capital for MSE’s happened to be microfinance institution followed by bank and own capital. This study reveal that majority of MSE’s repay loan within the specified time period because of obligation, however, the time period given was not enough to repay loan within time period, and most of them preferred semiannual time period for loan repayment rather than weekly, monthly and quarterly. Thus, majority of respondents were failed to repay loan because of market problem, technical problem and working capital shortage. In contrast, to repay such loan majority used mechanism of loan diversion from short-term loan into long-term loan balance, change of the site of enterprise and sell of property respectively. Most of enterprises visited by credit officer, and also supervised, followed and evaluated by responsible body that lends money for borrowers. Moreover, they were satisfied by service provided from banks and microfinance institution. Inversely, some remaining enterprises were not visited by credit officer, and supervised, followed and evaluated by responsible body and also unsatisfied by service provided from banks and microfinance institution.

The study revealed that the coefficient of sex of respondents is positive hence an indication that sex of respondents negatively affects loan repayment by Micro and small enterprises in Jimma town, Ethiopia. Therefore, the study concludes that sex of respondents positively influence loan repayment hence a major determinants of loan repayment by Micro and small enterprises in Jimma town, Ethiopia.

The study result established that Experience of respondents have a positive coefficient with loan repayment which is an indication that Experience positively influence loan repayment by micro and small enterprises in Jimma town, Ethiopia. Therefore, this study concludes that Experience of respondents affect loan repayment hence determinant that impeding loan repayment by Micro and small enterprises in Jimma town, Ethiopia.

The study revealed that the coefficient of inconvenience of loan payback period (ILPP) is negative hence an indication that inconvenience of loan payback period (ILPP) negatively affects loan repayment by Micro and small enterprises in Jimma town, Ethiopia. Thus, the study concludes that inconvenience of loan payback period (ILPP) inversely influence loan repayment hence a major determinants of loan repayment by Micro and small enterprises in Jimma town, Ethiopia.

The study findings established that Lack of Marketing Skills (LMS) have a positive coefficient with loan repayment which is an indication that Lack of Marketing Skills (LMS) positively influence loan repayment by Micro and small enterprises in Jimma town, Ethiopia. Therefore, this study concludes that Lack of Marketing Skills (LMS) affect loan repayment hence determinants that impeding loan repayment by Micro and small enterprises in Jimma town, Ethiopia.

The study established that the coefficient of Lack of financial skill and planning (LFSP) is negative hence an indication that Lack of financial skill and planning (LFSP) negatively effects loan repayment by Micro and small enterprises in Jimma town, Ethiopia. Thus, the study concludes that Lack of financial skill and
planning (LFSP) inversely affect loan repayment by Micro and small enterprises in Jimma town, Ethiopia.

The study findings established that Follow up and supervision (FS) have a positive coefficient with loan repayment which is an indication that Follow up and supervision (FS) positively influence loan repayment by micro and small enterprises in Jimma town, Ethiopia. Therefore, this study concludes that Follow up and supervision (FS) affect loan repayment hence determinant that impeding loan repayment by Micro and small enterprises in Jimma town, Ethiopia.

VIII. Recommendation

Based on summary and conclusion elicited from samples selected, the following recommendations are forwarded.

- The involvement of women in ownership and management of MSE’s is less than men in the town. In this case, the equality between women and men should be improved because employment of women in leading positions have great role to create strong base industrial development, reducing poverty, promoting sustainable development and have better performance for business activities with higher profitability. The government and other concerned body should encourages the women participation in different socio-economic activities by providing access to modern technology, gender equality policy in the work place, supply chain and the community guidance for society are cure for sustainable development of Economy.

- Most of participants in this study were adult and youth. Both adult and youth are leaders of tomorrow, social actors of change and progress. However, the widespread of unemployment influences those adults and youth to achieve the indicated mission. Hence, to alleviate unemployment problem Micro and small enterprises have identified by the government as main source of employment and job creation. Even if Micro and small enterprises taken as alternatives by government for employment and job creation, there are many bottlenecks which challenge the growth of enterprises such as Lack of the necessary support institutions, Lack of access to finance, Lack of access to market, Lack of the necessary managerial knowledge and skills, Poor infrastructural facilities, Shortage of raw materials, Regulatory problems and lack of loan repayment. Among determinants impeding loan repayment such as Sex, Experience, Inconvenience of loan payback period, Lack of Marketing Skills, Lack of financial skill and planning and Follow up and supervision were identified in the study.

As a result, in order to solve such problem the following measure should be taken by government and other concerned body.

i. The Town of MSEs bureau should be communicate and integrate with the federal government to create linkages between the banks (micro finance institution) and MSE’s because for setting suitable payback periods.

ii. Experience sharing activities on Marketing Skills should be set by bureau of MSEs to support institutions with the integration of MSE’s operators; and this helps how to acquire better knowledge and experiences from each other.

iii. Financial skill and planning should be improved. The MSEs owners/managers and members of enterprises should be trained, traditional work routine should be eliminated, and hire qualified personnel. Develop transparency, responsibility among official and workers.

iv. The Town of MSEs bureau, banks and micro finance institutions should develop means of support and take close control, continuous follow up and supervision. To solve the problem of loan repayment by MSEs. Otherwise, their growth and loan repayment prolonged for longer time.

v. Finally to promote the MSEs activities and their loan repayment in the town, the town administration should provide incentive like tax free for some limited time, excess land for working area, promote market system and investment opportunity within the city by developing website, by using international channel.

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Acknowledgments

Contributors to the research other than authors credited should be mentioned in Acknowledgments. The source of funding for the research can be included. Suppliers of resources may be mentioned along with their addresses.

Declaration of funding sources

Global Journals is in partnership with various universities, laboratories, and other institutions worldwide in the research domain. Authors are requested to disclose their source of funding during every stage of their research, such as making analysis, performing laboratory operations, computing data, and using institutional resources, from writing an article to its submission. This will also help authors to get reimbursements by requesting an open access publication letter from Global Journals and submitting to the respective funding source.

Preparing your Manuscript

Authors can submit papers and articles in an acceptable file format: MS Word (doc, docx), LaTeX (.tex, .zip or .rar including all of your files), Adobe PDF (.pdf), rich text format (.rtf), simple text document (.txt), Open Document Text (.odt), and Apple Pages (.pages). Our professional layout editors will format the entire paper according to our official guidelines. This is one of the highlights of publishing with Global Journals—authors should not be concerned about the formatting of their paper. Global Journals accepts articles and manuscripts in every major language, be it Spanish, Chinese, Japanese, Portuguese, Russian, French, German, Dutch, Italian, Greek, or any other national language, but the title, subtitle, and abstract should be in English. This will facilitate indexing and the pre-peer review process.

The following is the official style and template developed for publication of a research paper. Authors are not required to follow this style during the submission of the paper. It is just for reference purposes.
Manuscript Style Instruction (Optional)

• Microsoft Word Document Setting Instructions.
• Font type of all text should be Swis721 Lt BT.
• Page size: 8.27” x 11”, left margin: 0.65, right margin: 0.65, bottom margin: 0.75.
• Paper title should be in one column of font size 24.
• Author name in font size of 11 in one column.
• Abstract: font size 9 with the word “Abstract” in bold italics.
• Main text: font size 10 with two justified columns.
• Two columns with equal column width of 3.38 and spacing of 0.2.
• First character must be three lines drop-capped.
• The paragraph before spacing of 1 pt and after of 0 pt.
• Line spacing of 1 pt.
• Large images must be in one column.
• The names of first main headings (Heading 1) must be in Roman font, capital letters, and font size of 10.
• The names of second main headings (Heading 2) must not include numbers and must be in italics with a font size of 10.

Structure and Format of Manuscript

The recommended size of an original research paper is under 15,000 words and review papers under 7,000 words. Research articles should be less than 10,000 words. Research papers are usually longer than review papers. Review papers are reports of significant research (typically less than 7,000 words, including tables, figures, and references)

A research paper must include:

a) A title which should be relevant to the theme of the paper.
b) A summary, known as an abstract (less than 150 words), containing the major results and conclusions.
c) Up to 10 keywords that precisely identify the paper’s subject, purpose, and focus.
d) An introduction, giving fundamental background objectives.
e) Resources and techniques with sufficient complete experimental details (wherever possible by reference) to permit repetition, sources of information must be given, and numerical methods must be specified by reference.
f) Results which should be presented concisely by well-designed tables and figures.
g) Suitable statistical data should also be given.
h) All data must have been gathered with attention to numerical detail in the planning stage.

Design has been recognized to be essential to experiments for a considerable time, and the editor has decided that any paper that appears not to have adequate numerical treatments of the data will be returned unrefereed.

i) Discussion should cover implications and consequences and not just recapitulate the results; conclusions should also be summarized.
j) There should be brief acknowledgments.
k) There ought to be references in the conventional format. Global Journals recommends APA format.

Authors should carefully consider the preparation of papers to ensure that they communicate effectively. Papers are much more likely to be accepted if they are carefully designed and laid out, contain few or no errors, are summarizing, and follow instructions. They will also be published with much fewer delays than those that require much technical and editorial correction.

The Editorial Board reserves the right to make literary corrections and suggestions to improve brevity.
Format Structure

It is necessary that authors take care in submitting a manuscript that is written in simple language and adheres to published guidelines.

All manuscripts submitted to Global Journals should include:

Title
The title page must carry an informative title that reflects the content, a running title (less than 45 characters together with spaces), names of the authors and co-authors, and the place(s) where the work was carried out.

Author details
The full postal address of any related author(s) must be specified.

Abstract
The abstract is the foundation of the research paper. It should be clear and concise and must contain the objective of the paper and inferences drawn. It is advised to not include big mathematical equations or complicated jargon.

Many researchers searching for information online will use search engines such as Google, Yahoo or others. By optimizing your paper for search engines, you will amplify the chance of someone finding it. In turn, this will make it more likely to be viewed and cited in further works. Global Journals has compiled these guidelines to facilitate you to maximize the web-friendliness of the most public part of your paper.

Keywords
A major lynchpin of research work for the writing of research papers is the keyword search, which one will employ to find both library and internet resources. Up to eleven keywords or very brief phrases have to be given to help data retrieval, mining, and indexing.

One must be persistent and creative in using keywords. An effective keyword search requires a strategy: planning of a list of possible keywords and phrases to try.

Choice of the main keywords is the first tool of writing a research paper. Research paper writing is an art. Keyword search should be as strategic as possible.

One should start brainstorming lists of potential keywords before even beginning searching. Think about the most important concepts related to research work. Ask, “What words would a source have to include to be truly valuable in a research paper?” Then consider synonyms for the important words.

It may take the discovery of only one important paper to steer in the right keyword direction because, in most databases, the keywords under which a research paper is abstracted are listed with the paper.

Numerical Methods
Numerical methods used should be transparent and, where appropriate, supported by references.

Abbreviations
Authors must list all the abbreviations used in the paper at the end of the paper or in a separate table before using them.

Formulas and equations
Authors are advised to submit any mathematical equation using either MathJax, KaTeX, or LaTeX, or in a very high-quality image.

Tables, Figures, and Figure Legends
Tables: Tables should be cautiously designed, uncrowned, and include only essential data. Each must have an Arabic number, e.g., Table 4, a self-explanatory caption, and be on a separate sheet. Authors must submit tables in an editable format and not as images. References to these tables (if any) must be mentioned accurately.
Figures

Figures are supposed to be submitted as separate files. Always include a citation in the text for each figure using Arabic numbers, e.g., Fig. 4. Artwork must be submitted online in vector electronic form or by emailing it.

Preparation of Electronic Figures for Publication

Although low-quality images are sufficient for review purposes, print publication requires high-quality images to prevent the final product being blurred or fuzzy. Submit (possibly by e-mail) EPS (line art) or TIFF (halftone/photographs) files only. MS PowerPoint and Word Graphics are unsuitable for printed pictures. Avoid using pixel-oriented software. Scans (TIFF only) should have a resolution of at least 350 dpi (halftone) or 700 to 1100 dpi (line drawings). Please give the data for figures in black and white or submit a Color Work Agreement form. EPS files must be saved with fonts embedded (and with a TIFF preview, if possible).

For scanned images, the scanning resolution at final image size ought to be as follows to ensure good reproduction: line art: >650 dpi; halftones (including gel photographs): >350 dpi; figures containing both halftone and line images: >650 dpi.

Color charges: Authors are advised to pay the full cost for the reproduction of their color artwork. Hence, please note that if there is color artwork in your manuscript when it is accepted for publication, we would require you to complete and return a Color Work Agreement form before your paper can be published. Also, you can email your editor to remove the color fee after acceptance of the paper.

Tips for Writing a Good Quality Management Research Paper

Techniques for writing a good quality management and business research paper:

1. Choosing the topic: In most cases, the topic is selected by the interests of the author, but it can also be suggested by the guides. You can have several topics, and then judge which you are most comfortable with. This may be done by asking several questions of yourself, like “Will I be able to carry out a search in this area? Will I find all necessary resources to accomplish the search? Will I be able to find all information in this field area?” If the answer to this type of question is “yes,” then you ought to choose that topic. In most cases, you may have to conduct surveys and visit several places. Also, you might have to do a lot of work to find all the rises and falls of the various data on that subject. Sometimes, detailed information plays a vital role, instead of short information. Evaluators are human: The first thing to remember is that evaluators are also human beings. They are not only meant for rejecting a paper. They are here to evaluate your paper. So present your best aspect.

2. Think like evaluators: If you are in confusion or getting demotivated because your paper may not be accepted by the evaluators, then think, and try to evaluate your paper like an evaluator. Try to understand what an evaluator wants in your research paper, and you will automatically have your answer. Make blueprints of paper: The outline is the plan or framework that will help you to arrange your thoughts. It will make your paper logical. But remember that all points of your outline must be related to the topic you have chosen.

3. Ask your guides: If you are having any difficulty with your research, then do not hesitate to share your difficulty with your guide (if you have one). They will surely help you out and resolve your doubts. If you can’t clarify what exactly you require for your work, then ask your supervisor to help you with an alternative. He or she might also provide you with a list of essential readings.

4. Use of computer is recommended: As you are doing research in the field of management and business then this point is quite obvious. Use right software: Always use good quality software packages. If you are not capable of judging good software, then you can lose the quality of your paper unknowingly. There are various programs available to help you which you can get through the internet.

5. Use the internet for help: An excellent start for your paper is using Google. It is a wondrous search engine, where you can have your doubts resolved. You may also read some answers for the frequent question of how to write your research paper or find a model research paper. You can download books from the internet. If you have all the required books, place importance on reading, selecting, and analyzing the specified information. Then sketch out your research paper. Use big pictures: You may use encyclopedias like Wikipedia to get pictures with the best resolution. At Global Journals, you should strictly follow here.
6. **Bookmarks are useful:** When you read any book or magazine, you generally use bookmarks, right? It is a good habit which helps to not lose your continuity. You should always use bookmarks while searching on the internet also, which will make your search easier.

7. **Revise what you wrote:** When you write anything, always read it, summarize it, and then finalize it.

8. **Make every effort:** Make every effort to mention what you are going to write in your paper. That means always have a good start. Try to mention everything in the introduction—what is the need for a particular research paper. Polish your work with good writing skills and always give an evaluator what he wants. Make backups: When you are going to do any important thing like making a research paper, you should always have backup copies of it either on your computer or on paper. This protects you from losing any portion of your important data.

9. **Produce good diagrams of your own:** Always try to include good charts or diagrams in your paper to improve quality. Using several unnecessary diagrams will degrade the quality of your paper by creating a hodgepodge. So always try to include diagrams which were made by you to improve the readability of your paper. Use of direct quotes: When you do research relevant to literature, history, or current affairs, then use of quotes becomes essential, but if the study is relevant to science, use of quotes is not preferable.

10. **Use proper verb tense:** Use proper verb tenses in your paper. Use past tense to present those events that have happened. Use present tense to indicate events that are going on. Use future tense to indicate events that will happen in the future. Use of wrong tenses will confuse the evaluator. Avoid sentences that are incomplete.

11. **Pick a good study spot:** Always try to pick a spot for your research which is quiet. Not every spot is good for studying.

12. **Know what you know:** Always try to know what you know by making objectives, otherwise you will be confused and unable to achieve your target.

13. **Use good grammar:** Always use good grammar and words that will have a positive impact on the evaluator; use of good vocabulary does not mean using tough words which the evaluator has to find in a dictionary. Do not fragment sentences. Eliminate one-word sentences. Do not ever use a big word when a smaller one would suffice. Verbs have to be in agreement with their subjects. In a research paper, do not start sentences with conjunctions or finish them with prepositions. When writing formally, it is advisable to never split an infinitive because someone will (wrongly) complain. Avoid clichés like a disease. Always shun irritating alliteration. Use language which is simple and straightforward. Put together a neat summary.

14. **Arrangement of information:** Each section of the main body should start with an opening sentence, and there should be a changeover at the end of the section. Give only valid and powerful arguments for your topic. You may also maintain your arguments with records.

15. **Never start at the last minute:** Always allow enough time for research work. Leaving everything to the last minute will degrade your paper and spoil your work.

16. **Multitasking in research is not good:** Doing several things at the same time is a bad habit in the case of research activity. Research is an area where everything has a particular time slot. Divide your research work into parts, and do a particular part in a particular time slot.

17. **Never copy others’ work:** Never copy others’ work and give it your name because if the evaluator has seen it anywhere, you will be in trouble. Take proper rest and food: No matter how many hours you spend on your research activity, if you are not taking care of your health, then all your efforts will have been in vain. For quality research, take proper rest and food.

18. **Go to seminars:** Attend seminars if the topic is relevant to your research area. Utilize all your resources.

19. **Refresh your mind after intervals:** Try to give your mind a rest by listening to soft music or sleeping in intervals. This will also improve your memory. Acquire colleagues: Always try to acquire colleagues. No matter how sharp you are, if you acquire colleagues, they can give you ideas which will be helpful to your research.

20. **Think technically:** Always think technically. If anything happens, search for its reasons, benefits, and demerits. Think and then print: When you go to print your paper, check that tables are not split, headings are not detached from their descriptions, and page sequence is maintained.
21. **Adding unnecessary information:** Do not add unnecessary information like "I have used MS Excel to draw graphs." Irrelevant and inappropriate material is superfluous. Foreign terminology and phrases are not apropos. One should never take a broad view. Analogy is like feathers on a snake. Use words properly, regardless of how others use them. Remove quotations. Puns are for kids, not grunt readers. Never oversimplify: When adding material to your research paper, never go for oversimplification; this will definitely irritate the evaluator. Be specific. Never use rhythmic redundancies. Contractions shouldn't be used in a research paper. Comparisons are as terrible as clichés. Give up ampersands, abbreviations, and so on. Remove commas that are not necessary. Parenthetical words should be between brackets or commas. Understatement is always the best way to put forward earth-shaking thoughts. Give a detailed literary review.

22. **Report concluded results:** Use concluded results. From raw data, filter the results, and then conclude your studies based on measurements and observations taken. An appropriate number of decimal places should be used. Parenthetical remarks are prohibited here. Proofread carefully at the final stage. At the end, give an outline to your arguments. Spot perspectives of further study of the subject. Justify your conclusion at the bottom sufficiently, which will probably include examples.

23. **Upon conclusion:** Once you have concluded your research, the next most important step is to present your findings. Presentation is extremely important as it is the definite medium through which your research is going to be in print for the rest of the crowd. Care should be taken to categorize your thoughts well and present them in a logical and neat manner. A good quality research paper format is essential because it serves to highlight your research paper and bring to light all necessary aspects of your research.

**Informal Guidelines of Research Paper Writing**

**Key points to remember:**
- Submit all work in its final form.
- Write your paper in the form which is presented in the guidelines using the template.
- Please note the criteria peer reviewers will use for grading the final paper.

**Final points:**

One purpose of organizing a research paper is to let people interpret your efforts selectively. The journal requires the following sections, submitted in the order listed, with each section starting on a new page:

*The introduction:* This will be compiled from reference matter and reflect the design processes or outline of basis that directed you to make a study. As you carry out the process of study, the method and process section will be constructed like that. The results segment will show related statistics in nearly sequential order and direct reviewers to similar intellectual paths throughout the data that you gathered to carry out your study.

*The discussion section:*

This will provide understanding of the data and projections as to the implications of the results. The use of good quality references throughout the paper will give the effort trustworthiness by representing an alertness to prior workings.

Writing a research paper is not an easy job, no matter how trouble-free the actual research or concept. Practice, excellent preparation, and controlled record-keeping are the only means to make straightforward progression.

**General style:**

Specific editorial column necessities for compliance of a manuscript will always take over from directions in these general guidelines.

*To make a paper clear:* Adhere to recommended page limits.

*Mistakes to avoid:*
- Insertion of a title at the foot of a page with subsequent text on the next page.
- Separating a table, chart, or figure—confine each to a single page.
- Submitting a manuscript with pages out of sequence.
- In every section of your document, use standard writing style, including articles ("a" and "the").
- Keep paying attention to the topic of the paper.
• Use paragraphs to split each significant point (excluding the abstract).
• Align the primary line of each section.
• Present your points in sound order.
• Use present tense to report well-accepted matters.
• Use past tense to describe specific results.
• Do not use familiar wording; don't address the reviewer directly. Don't use slang or superlatives.
• Avoid use of extra pictures—include only those figures essential to presenting results.

Title page:
Choose a revealing title. It should be short and include the name(s) and address(es) of all authors. It should not have acronyms or abbreviations or exceed two printed lines.

Abstract: This summary should be two hundred words or less. It should clearly and briefly explain the key findings reported in the manuscript and must have precise statistics. It should not have acronyms or abbreviations. It should be logical in itself. Do not cite references at this point.

An abstract is a brief, distinct paragraph summary of finished work or work in development. In a minute or less, a reviewer can be taught the foundation behind the study, common approaches to the problem, relevant results, and significant conclusions or new questions.

Write your summary when your paper is completed because how can you write the summary of anything which is not yet written? Wealth of terminology is very essential in abstract. Use comprehensive sentences, and do not sacrifice readability for brevity; you can maintain it succinctly by phrasing sentences so that they provide more than a lone rationale. The author can at this moment go straight to shortening the outcome. Sum up the study with the subsequent elements in any summary. Try to limit the initial two items to no more than one line each.

Reason for writing the article—theory, overall issue, purpose.
• Fundamental goal.
• To-the-point depiction of the research.
• Consequences, including definite statistics—if the consequences are quantitative in nature, account for this; results of any numerical analysis should be reported. Significant conclusions or questions that emerge from the research.

Approach:
• Single section and succinct.
• An outline of the job done is always written in past tense.
• Concentrate on shortening results—limit background information to a verdict or two.
• Exact spelling, clarity of sentences and phrases, and appropriate reporting of quantities (proper units, important statistics) are just as significant in an abstract as they are anywhere else.

Introduction:
The introduction should "introduce" the manuscript. The reviewer should be presented with sufficient background information to be capable of comprehending and calculating the purpose of your study without having to refer to other works. The basis for the study should be offered. Give the most important references, but avoid making a comprehensive appraisal of the topic. Describe the problem visibly. If the problem is not acknowledged in a logical, reasonable way, the reviewer will give no attention to your results. Speak in common terms about techniques used to explain the problem, if needed, but do not present any particulars about the protocols here.

The following approach can create a valuable beginning:
• Explain the value (significance) of the study.
• Defend the model—why did you employ this particular system or method? What is its compensation? Remark upon its appropriateness from an abstract point of view as well as pointing out sensible reasons for using it.
• Present a justification. State your particular theory(-ies) or aim(s), and describe the logic that led you to choose them.
• Briefly explain the study's tentative purpose and how it meets the declared objectives.
Approach:
Use past tense except for when referring to recognized facts. After all, the manuscript will be submitted after the entire job is done. Sort out your thoughts; manufacture one key point for every section. If you make the four points listed above, you will need at least four paragraphs. Present surrounding information only when it is necessary to support a situation. The reviewer does not desire to read everything you know about a topic. Shape the theory specifically—do not take a broad view.

As always, give awareness to spelling, simplicity, and correctness of sentences and phrases.

Procedures (methods and materials):
This part is supposed to be the easiest to carve if you have good skills. A soundly written procedures segment allows a capable scientist to replicate your results. Present precise information about your supplies. The suppliers and clarity of reagents can be helpful bits of information. Present methods in sequential order, but linked methodologies can be grouped as a segment. Be concise when relating the protocols. Attempt to give the least amount of information that would permit another capable scientist to replicate your outcome, but be cautious that vital information is integrated. The use of subheadings is suggested and ought to be synchronized with the results section.

When a technique is used that has been well-described in another section, mention the specific item describing the way, but draw the basic principle while stating the situation. The purpose is to show all particular resources and broad procedures so that another person may use some or all of the methods in one more study or referee the scientific value of your work. It is not to be a step-by-step report of the whole thing you did, nor is a methods section a set of orders.

Materials:
Materials may be reported in part of a section or else they may be recognized along with your measures.

Methods:
- Report the method and not the particulars of each process that engaged the same methodology.
- Describe the method entirely.
- To be succinct, present methods under headings dedicated to specific dealings or groups of measures.
- Simplify—detail how procedures were completed, not how they were performed on a particular day.
- If well-known procedures were used, account for the procedure by name, possibly with a reference, and that’s all.

Approach:
It is embarrassing to use vigorous voice when documenting methods without using first person, which would focus the reviewer’s interest on the researcher rather than the job. As a result, when writing up the methods, most authors use third person passive voice.

Use standard style in this and every other part of the paper—avoid familiar lists, and use full sentences.

What to keep away from:
- Resources and methods are not a set of information.
- Skip all descriptive information and surroundings—save it for the argument.
- Leave out information that is immaterial to a third party.

Results:
The principle of a results segment is to present and demonstrate your conclusion. Create this part as entirely objective details of the outcome, and save all understanding for the discussion.

The page length of this segment is set by the sum and types of data to be reported. Use statistics and tables, if suitable, to present consequences most efficiently.

You must clearly differentiate material which would usually be incorporated in a study editorial from any unprocessed data or additional appendix matter that would not be available. In fact, such matters should not be submitted at all except if requested by the instructor.

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Content:
  o Sum up your conclusions in text and demonstrate them, if suitable, with figures and tables.
  o In the manuscript, explain each of your consequences, and point the reader to remarks that are most appropriate.
  o Present a background, such as by describing the question that was addressed by creation of an exacting study.
  o Explain results of control experiments and give remarks that are not accessible in a prescribed figure or table, if appropriate.
  o Examine your data, then prepare the analyzed (transformed) data in the form of a figure (graph), table, or manuscript.

What to stay away from:
  o Do not discuss or infer your outcome, report surrounding information, or try to explain anything.
  o Do not include raw data or intermediate calculations in a research manuscript.
  o Do not present similar data more than once.
  o A manuscript should complement any figures or tables, not duplicate information.
  o Never confuse figures with tables—there is a difference.

Approach:
As always, use past tense when you submit your results, and put the whole thing in a reasonable order.

Put figures and tables, appropriately numbered, in order at the end of the report.

If you desire, you may place your figures and tables properly within the text of your results section.

Figures and tables:
If you put figures and tables at the end of some details, make certain that they are visibly distinguished from any attached appendix materials, such as raw facts. Whatever the position, each table must be titled, numbered one after the other, and include a heading. All figures and tables must be divided from the text.

Discussion:
The discussion is expected to be the trickiest segment to write. A lot of papers submitted to the journal are discarded based on problems with the discussion. There is no rule for how long an argument should be.

Position your understanding of the outcome visibly to lead the reviewer through your conclusions, and then finish the paper with a summing up of the implications of the study. The purpose here is to offer an understanding of your results and support all of your conclusions, using facts from your research and generally accepted information, if suitable. The implication of results should be fully described.

Infer your data in the conversation in suitable depth. This means that when you clarify an observable fact, you must explain mechanisms that may account for the observation. If your results vary from your prospect, make clear why that may have happened. If your results agree, then explain the theory that the proof supported. It is never suitable to just state that the data approved the prospect, and let it drop at that. Make a decision as to whether each premise is supported or discarded or if you cannot make a conclusion with assurance. Do not just dismiss a study or part of a study as "uncertain."

Research papers are not acknowledged if the work is imperfect. Draw what conclusions you can based upon the results that you have, and take care of the study as a finished work.
  o You may propose future guidelines, such as how an experiment might be personalized to accomplish a new idea.
  o Give details of all of your remarks as much as possible, focusing on mechanisms.
  o Make a decision as to whether the tentative design sufficiently addressed the theory and whether or not it was correctly restricted. Try to present substitute explanations if they are sensible alternatives.
  o One piece of research will not counter an overall question, so maintain the large picture in mind. Where do you go next? The best studies unlock new avenues of study. What questions remain?
  o Recommendations for detailed papers will offer supplementary suggestions.
Approach:
When you refer to information, differentiate data generated by your own studies from other available information. Present work done by specific persons (including you) in past tense.
Describe generally acknowledged facts and main beliefs in present tense.

THE ADMINISTRATION RULES

Administration Rules to Be Strictly Followed before Submitting Your Research Paper to Global Journals Inc.

Please read the following rules and regulations carefully before submitting your research paper to Global Journals Inc. to avoid rejection.

Segment draft and final research paper: You have to strictly follow the template of a research paper, failing which your paper may get rejected. You are expected to write each part of the paper wholly on your own. The peer reviewers need to identify your own perspective of the concepts in your own terms. Please do not extract straight from any other source, and do not rephrase someone else's analysis. Do not allow anyone else to proofread your manuscript.

Written material: You may discuss this with your guides and key sources. Do not copy anyone else's paper, even if this is only imitation, otherwise it will be rejected on the grounds of plagiarism, which is illegal. Various methods to avoid plagiarism are strictly applied by us to every paper, and, if found guilty, you may be blacklisted, which could affect your career adversely. To guard yourself and others from possible illegal use, please do not permit anyone to use or even read your paper and file.
Please note that following table is only a Grading of "Paper Compilation" and not on "Performed/Stated Research" whose grading solely depends on Individual Assigned Peer Reviewer and Editorial Board Member. These can be available only on request and after decision of Paper. This report will be the property of Global Journals.

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