

# Catallactics misapplication: It's crucial role in Africa's underdeveloped Economy- Revised Edition Vol. 1

Tweneboah Senzu, Emmanuel

Bastiat Institute Ghana, Cape Coast Technical University Ghana

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## EMMANUEL TWENEBOAH SENZU bastiatghanax@yahoo.co.uk/ Tsenzu@pc.edu.gh

Bastiat Institute Ghana
Cape Coast Technical University Ghana
(Banking & Finance Department)

### CATALLACTICS MISAPPLICATION: It's Crucial Role In Africa's Underdeveloped Economy

Revised Edition Vol. 1

#### **Abstract**

This paper seeks to solve the macroeconomic error. The error has over the years emerged from the dispensing of the monetary policy by African Central Banks. These monetary policies have refused to address the desired economic growth expected by individual developing and underdeveloped countries.

Keywords: Monetary Economics, Monetary Policy, Fiscal Policy, Macroeconomics, Developmental Economics

JEL Class.: E2-E23, E5-E51-E58, O2-O23

#### 1. Introduction

The study and purpose of this paper is to correct the error which emerged from the careless use of imaginary construction in the direct and indirect exchange activities of the market and it methodological application by the Central Banks of Africa to dispense their monetary policy. This result in fallacious economic predictions and policy constructions directed to the future of the market. The latter result is the frustration of the employment of capital and labour for the development of the economy of Africa. Blanchard (2003) posited 'Monetary policy can have large and long lasting effects on the real interest rates and the implication on activities.' She further indicated in her Conference paper presented in honour of James Tobin at MIT School, which state that, "the large empirical literature based on structural VRA, suggests that the effect of an innovation in money on activity peaks after a year or so. 'The large theoretical literature based on an equation for inflation derived from Taylor-Calvo foundation gives roughly the same results, neither literature is totally convincing' (p.1). Finally stated "we need to rethink fiscal policy and redesign automatic stabiliser because fiscal policy suffers from schizophrenia (p.9)". However for this paper to be able to present it argument coherently and deal with the complex variations of definitions governing monetary policy, it has to constructively redefine this concept. The redefinition is for the purpose of setting up clear parameters to guide the ultimate

deduction this paper seeks to achieve, hence resort to the definition of Thomson (2008) he described monetary policy as "all actions of governments, central banks, and other public authorities that influence the quantity of money and bank credit. It therefore embraces policies relating to such things as choice of the nation's monetary standard; determination of the value of the monetary unit in terms of a metal or foreign currencies; determination of the types and amounts of the government's own monetary issues; establishment of a central banking system and determination of its powers and rules for its operation; and policies concerning the establishment, regulation of commercial banks and other related financial institutions". Thomson (2008) further posits under the subject Element of Monetary Policy and it state "Like all economic policies, monetary policy has three interrelated elements: selection of objectives, implementation, and at least an implicit theory of the relationships between actions and effects. All three elements present problems of choice and are continuing subjects of controversy. "To examine the gravity of the error in the current monetary policy dispensation to address the current macroeconomic challenges, Thomson (2008) under the subject Evolution of Monetary Policy Objective states "Monetary policy, in the modern sense is the deliberate and continuous management of the money supply to promote selected social and economic objectives, is largely a product of the twentieth century, especially the decades since World War I. In the earlier period, when most countries were on either gold or a bimetallic standard, the primary and overriding objective of monetary policy was to maintain and redeem the ability of the nation's money in the primary metal, both domestically and internationally. A decline of the nation's metallic reserves to dangerously low levels, or any other threat to redeem ability, became a signal for monetary and credit restriction, whatever might be its other economic effects. When redeem ability seemed secure, monetary policy was used to promote other objectives—to deal with panics, crises, and other credit stringencies and even to expand money somewhat when business was depressed. But such intervention was sporadic rather than continuous and its purposes limited rather than ambitious. The international gold standard of the pre-1914 period was not purely automatic, but it was managed only marginally".

Many forces have contributed to the change and growth of monetary policy since World War I. One set of forces includes the breakdown of the international gold standard and other changes and crises in monetary system's—inflation during and following World War I and the long period of suspension of gold redeem ability in most countries, the changed and insecure nature of

the gold and gold exchange standards re-established in the 1920s, the renewed breakdown of gold standards during the great depression of the 1930s, and world-wide inflation during and following World War II. All these had profound effects on attitudes toward monetary policy. Both countries that had too little gold and those that had too much shifted to the view that the state of their gold reserves was no longer an adequate guide to policy and that new objective and guides should be developed. Monetary actions became increasingly less sporadic and limited and more continuous and ambitious in scope.

Acknowledging the weaknesses of current monetary policy and the real market impact globally, as indicated above, the paper never ignores the current progress in macroeconomic studies and it monetary policy formulation to address some of these fundamental flaws in neo-liberal regime. It rather stresses the extent of standard deviation of the impact of monetary policy on the material market of developing and under-developed economy.

The adoption of monetary policy by the Central Banks was to solve the following in the real market problems through its control on the supply of money, often targeting an inflation rate or interest rate to ensure price stability and general trust in the currency with the major goals as follows:

- 1. Economic growth and stability
- 2. Lower Unemployment
- 3. Maintain predictable exchange rate

Measuring the Economic Outlook of some of the selected developing and under developed countries, based on their gazetted analytical records and published papers of the actual performance of their material economic market, triangulating it with primary data report of field observation and analysis, indicated a contradictory nature of the monetary policy proposals in time series, analysing from such countries from the year 2010- 2015. The whole crises seem to undermine the efficiency of the whole concept of 'Fisher effect' in Africa economic market context

This presents a worrying situation, such that continual undermining of the role of inefficiency of the monetary policy to the material market is the continual cause of poor economic development and growth within developing and undeveloped countries as the studies deduce.

#### 2. Theory & Literature

In theory, the ontology of economics was to address scarcity as problem of a market phenomenon, therefore, if a monetary policy and it school of economics studies, fail to address the market challenges for developmental agenda based on it reason of existence; it raised critical questions for its essence as a faculty of studies and application in Africa economic market context, a means to pave the way of it re-development as a subject of studies and application to address current crises. Monetary theory and it policies under an accurate forecasting is expected to be efficient in addressing unemployment, manage inflation to the large extent of addressing scarcity and drive value in both nominal and fiscal in metrical terms, a means to stimulate economic growth.

#### 2.1 Market Phenomenon

"There have never been any doubts and uncertainties about the scope of economic science. Ever since people have been eager for a systematic study of economic or political economy, all have agreed that it is the task of this branch of knowledge to investigate the market phenomena" Mises (1973).

To define the market phenomena, simple equations below could be derived, which is expected to guide the realistic application of monetary policy to it targeted market to achieve the intended result set up as a bases of it market intervention.

1st

2nd

Catallactics = Money Price 
$$(Px)$$
 + Economic Calculation  $(EC)$ 

First derivation

Market Phenomena= Market Exchange + Money Price + Economic Calculation .....Eq.1

The following are critical questions that arise when analysing the above equation as stated below:

- 1. Are the dynamics of market exchange in the context of developing and underdeveloped economy well understood in the sphere of economic science for accuracy in monetary policy application?
- 2. The premise, upon which the economic calculation is derived, in the context of developing and underdeveloped economic market, accurate?
- 3. The structural operating mechanism of the market phenomenon in African context well understood by the Central Banks to guide monetary policy applications?

The three outlined questions above, if not addressed accurately, the default in the understanding of the economic market operational frame work of Africa will continue to play the major role in most of the failures encountered through the economic developmental projects instituted by World Bank and its allies for Africa, as well as other failures in scientific predictions in political economic development in Africa over the past two decades. Experience of today and historic fact vindicate these assertions.

To address such questions, and for the error to be corrected, "value" in the economic context has to be revisited and summed up to capture the cultural factors of a group of people within a defined society, in this instance the African continent, to have a deeper understanding of its market phenomenon.

Mises (1920) "Value is an intrinsic quality inherent in things and not merely the expression of various people's eagerness to acquire them". He emphasizes that an "Action man" is always concerned with both "material" and "ideal" things. Hogan (2006) classifies and defines "Value" as means-value and ends-value. "Means-Value" is object or action and the "Ends-Value" is the feelings associated with the means value. He further classifies "Ends-values" into the categories of "attraction-values" and "avoidance-values". Examples of attraction-values are love, happiness, security, ecstasy, freedom. Examples of avoidance-values are depression, anxiety, fear, boredom, sickness. Anthony (1987) asserted that we want or seek certain things or conditions in life

(means-value) because of the state we think they will give us (ends-value). It is very important to also realize that the value of an action man or a group of people extends to its cultural philosophical roots; hence it plays a cardinal role in what motivates them as people to engage in a market exchange. The concentration of the "exchange mechanism" is driven by the Value-focus of a group of people. For example, if a group of people believes so much in a "Value" of investing in building houses to exercise certain "ends" like prosperity, prestige and many other interrelated web-links of "ends" such will drive the intensity of exchange in architectural constructions to develop private property as Real Estate Ventures to the satisfaction of consumers. Such is the advancement of market phenomenon cum economic development.

Comparative economic development of Africa deduced ontologically; brings to bear the era of BC and AD, justifying with clear evidence through historical records; that the Africa of AD has deteriorated in its true economic advancement despite its exhibition of modern edifice and infrastructural development. The evidence of this analytical study depicts clearly that the continent is operating on a displaced economic and market "value". Since "value" is the cardinal pillar of market phenomena, a technical displacement of it as a result of a missing link to the cultural ontology of the people; causes a very complex problem that disconnect the majority of the labour force to relate meaningfully to the dynamics of the market operations, a means to cause great impact on the exchange market for economic advancement.

Africa's current socio-economic development examination depicts a clear loss of connection of its larger labour force to its economic market. This was supposed to be the power house of efficient production in the market to complete an exchange operating mechanism circle. As if that was not enough, there emerges scarcity as another negative force in the market operating framework. These together cause a special dysfunction to the market. Thus, majority of the supposed market players (grassroots circle) have lost meaning of their existence to the ecosystem to contribute meaningfully to the development of the market structure and its value within this geographical area. In such a socio-economic experimental situation, all government fiscal policies, no matter how scientific they are constructed, will fail to achieve their intended purpose because they misalign with the true market stature of the targeted group of people. It has to be realised, when an imaginary construction of a policy is in error, it loses its meaning of a win-win situation.

A brief historical record of African economy and it scientific established linkage to "value" development in its market system, led to the booming of its economy in the early 5200BC. Archival reports assert that earlier Africans were hunter-gatherers living in small family groups even though there was considerable trade that could cover a long distance. Archaeologists have found evidence of trade in luxury items, like precious metals and shells across the entirety of the continent, which were the main items of trade. Some people, such as the Berber, lived in dry areas and became nomadic herders while in the Savannah grasslands people cultivated crops and thus permanent settlements were possible. Agriculture supported large towns and eventually large trade networks developed between towns as early as 5200BC, In Nubia and Ethiopia, iron trade and agricultural surpluses led to the establishment of *cities* and *civilization*. (Wikipedia, 2016; Economic History of Africa)

This fact stated above establishes the correlation between market-value of the identified group of indigenes, their cultural philosophy leading to the emergence of their civilisation through economic advancement in the era of BC of Ancient Africa.

#### 3.2 Market Phenomena: Scarcity And Value

Acting and thinking man is the product of a universe of scarcity in which, whatever well-being can be attained, is the prize of toil and trouble of conduct, popularly called economics. I seek to differ a bit from the textual construction of this foregoing assertion by Mises (1920) and argue that, the acting and thinking man is a product of a universe of scarcity created, which was caused by its action but could not be easily reversed; however, for his well-being he has to pay the price of toil and trouble of conduct, popularly called economics.

This places economic studies and practice in the correct historical perspective such that economics forms not part of the foundation of creation but emerges as a discipline through certain actions of men that led to scarcity. Hence, scarcity has become a major challenge of man to address. This demands the compulsory knowledge of economics to minimize the effect and impact of scarcity, for man's welfare and development. This does not correlate my ideas in support of the Karl Marx's school of thought which believes that scarcity could forever be eradicated by the abolition of private property. From my perspective such an intellectual opinion is radically ambitious and does not hold the solution to the problem under debate, taking in

context the "Value" of man and attitude to power of control, on the grounds of historical evidence.

Calculating 'value' from a market system using praxeology will require resorting to Mises (1949) theoretical framework for the gradation of ends from means in his publication entitled: *The Human Action*. He believed that "Gradation of the means is, like that of the ends, a process of preferring "a" to "b". A manifestation of judgment that "a" is more intensely desired than is "b" is equal as "b" to "c". This opens a field for application of ordinary numbers but does not open to application of cardinal numbers and arithmetical operations based on them. The immediate goal of acting is frequently the acquisition of countable and measurable supplies of tangible things. Acting man then has to choose between countable quantities; he prefers, for example, "y" to "x"; but if he had to choose between "x" and "z" he might prefer "x". We can express this state of affairs by declaring that he values "z" less than "x" but higher than "y". This is tantamount to the statement that he prefers "a" to "b" and "b" to "c" but the substitution of y=a, x=b, z=c changes neither the meaning of the statement, nor the fact that it describes".

It certainly does not render reckoning with cardinal numbers possible. It does not open a field for economic calculations and the mental operations based upon such calculations. The elaboration of economic theory is heuristically dependent on the logical process of reckoning to the extent in which "Value" is derived from an acting man without undermining the role its culture plays in the context of desire. The economist had failed to realize that such is the fundamental problem involved in the method of economic calculation. They are prone to take economic calculation in market phenomenon as a matter of cause; they do not see that it is not an ultimate given but a derivative, requiring reduction to more elementary phenomena.

They take it for a category of all human action and ignore the fact that it is only a category inherent in acting under special conditions. They have to come to the realization that the interpersonal exchange and consequently market exchange are affected by the intermediary of common medium of exchange; that is money and cultural influence on value, therefore price are special features of a certain state of society's economic organization which did not exist in primitive civilization and could possibly disappear in the further course of historical change.

The argument presented above makes it very clear that monetary price built within a policy will not and could not be the only vehicle of economic calculation. This reveals the fallacies implied in the ideas about economic calculation by many eminent economists. The modern theory of "value" and "prices" shows how the choices of individuals, their preference of some things at the expense of other things, result in the sphere of interpersonal exchange in the emergence of market price.

These masterful expositions are unsatisfactory in some minor points and disfigured by unsuitable expressions but essentially irrefutable. In order to trace back the phenomena of the market to the universal category of preferring "y" to "x", the elementary theory of "Value" and "Price", is bound to use some imaginary constructions to which nothing corresponds in reality, is an indispensable tool of thinking. No other method would have contributed something to the interpretation of reality until the most important challenge to such a science, which is the fallacies in its imaginations employed for such constructions, is avoided. And rather begin to analyse the market in the view point of human action, as well as it cultural influence.

#### 3.3 The Error In Catallactics Application And Corrections

The first imaginary construction is to create a market in which all transactions are performed in direct exchange. Where money is non-existent, goods and services are directly bartered against other goods and services. There is a serious blunder that owes its origin and tenacity to the misinterpretation of this imaginary construction. It was the assumption that the medium of exchange, which in this context was money, is a neutral factor only. It further asserts that the interpolation of money into the market transaction did not affect the main features of the business. May be, they are being too quick to ignore the fact that in the course of history tremendous alterations in the purchasing power of money has occurred and that these fluctuations often convulsed the whole system of exchange. It is easily assumed that changes in purchasing power occur with regard to all goods and services at the same time and to the same extent, the axiom of the theory of catallactics. It therefore, defines the task of economics calculation as the study of direct exchange with the remaining challenge, to address the scrutiny of the problems of "bad" money.

Furthermore the imaginary construction ignores the processes of how value is derived in market system through the understanding of the cultural philosophy of a market, and it impact on catallactics calculations. Complying with this opinion, economists have neglected the huge challenge associated with problems of indirect exchange resulting in the treatment of monetary problems superficially. However, an inveterate fallacy asserted that things and services exchange are of equal value; which "value", as a subject of discourse, is well analysed in earlier pages of this paper for review and emphasis. This is how it was first assumed, leading to the establishment of goods and services by an act of measurement and then proceeded to barter them against quantities of goods and services of the same value. "This fallacy frustrated Aristotle's approach to economic problems. And for almost two thousand years the reasoning of all those for whom Aristotle's opinions were authoritative, it actually vitiated the marvellous achievements of the classical economists and rendered the writings of their epigones, especially those of Marx and the Marxian school, entirely futile" Mises (1973)

The basis of modern economics is the cognition that, there is a disparity in the "value" attached to the objects exchanged, which the "value" has to be ontologically understood from individual or group perspective to result in successful exchange that could advance the development of a society. People buy and sell only because they appraise the things given up less than those received which is built deep down in their cultural philosophy.

Thus the notion of a measurement of "value" is vain. An act of exchange is neither preceded nor accompanied by any process which could be called a measuring of "value". An individual may attach the same value to two things; but then no exchange can result. But if there is a diversity in valuation, all that can be asserted with regard to it is "a" is valued higher than "b" – implying it is preferred more. "Values" and "Valuations" are intensive quantities and extensive quantities. They are not susceptible to mental grasp by the application of cardinal numbers.

There was a spurious idea that "value" is measurable and could really be measured in the conduct of economic transactions. It is one of the greatest fallacies which lesser economists carry it as a notion, which Prof. Mises simply puts it; they maintained that money serves "as a measuring of value".

We have arrived at a realization that valuing means to prefer "y" to "x". In its studies – through logic, epistemology, psychology and praxeology – only one pattern is derived: "preferring". Preferring always means to desire or love "y" more than "x", just as there is no standard and no measurement of the value of commodities. So if a man exchanges 10kg of Baked Cake for 5kg of sachet of milo all that we can assert with regard to this transaction is that he, at the instant of the transaction and under the conditions which this instant offers to him, prefers 5kg of sachet of milo to 10kg of baked cake. It is certain that every act of preferring is characterized by a definite psychic intensity of the feelings it implies; which is ontologically derived from it cultural philosophy to a large extent. There are grades in the intensity of the desire to attain a definite goal and this intensity determines the psychic profit which the successful action brings to the acting individual. Psychic quantities can only be felt. They are entirely personal and there is no semantic means to express their intensity and to convey information about them to other people easily without a guideline of their cultural context.

However, in the market society there are money prices. Economic calculation is a theoretical calculation built on money prices (nominal value). The various quantities of goods and services enter into calculation with the amount of money for which they are bought and sold in the market or for which they could prospectively be bought and sold. This indicates that it will be a fictitious assumption that an isolated self-sufficient individual or general manager of a socialist system could conduct a successful economic calculation. It is impossible because there is no way which could lead one from the money computation of a market economy to any kind of computation in a non-market system. Economic calculation is essentially the applied art of quantitative prediction of the outcome of planned actions; and one calculates with a reasonable degree of precision in the outcome of a planned actions in such a way that a definite result emerges. However, the mere information conveyed by quantitative prediction would suffice for performance of calculation only, if all means of production, both material and human, could be perfectly substituted for one another according to definite ratios or if they all were absolutely specific. Such conditions are never present in the universe in which man acts because there are more or less specific means for the attainment of various ends. On the other end, most means are not absolutely specific; most of them fit for various purposes. This sets man the tasks of allocating them to those employments in which they can render the best services which makes computation impossible. Modern technology in economics operates with countable and

measurable quantities of external things and effects; it knows causal relations between them but it is foreign to the relevance of human wants and desires. The economic calculation has failed to play its core role expected up to date because what the acting man wants to know, is how he must employ the available means for the best possible result to remove uneasiness as far as possible.

Technology and the considerations derived from it would be of little use for an acting man if it were impossible to introduce into their scheme of money price of goods and services. The lofty theorist in the seclusion of their laboratory does not bother about such trifling things; what he is searching for is the causal relations solely between various elements of the universe. But the practical man, eager to improve human conditions by removing uneasiness as far as possible, must know whether under given conditions, what he is planning is the best method or even a method to put people at ease. He must know whether what he wants to achieve will be an improvement when compared with the present state of affairs and the advantages to be expected from the execution of other technically realizable projects. And other Project which cannot be put into execution or if the project he has in mind will absorb the available means. Such comparison can only be made by the use of money price. This makes money to become a vehicle of economic calculation. This does not define money as a separate function. It has a core role as a universally used medium of exchange, nothing else. Where there are no money prices there are no such things as economic quantities and computations. There are only various quantities relations between various causes and effects in the external world but there is no means for a man to find out what kind of action would best serve his endeavours to remove uneasiness as far as possible. The task which acting man wants to achieve by economic calculation is to establish the outcome of acting by contrasting inputs and outputs. However, economic calculation is either an estimate of the expected outcome of the future actions or the establishment of the outcome of past action under the context of the real world. This further emphasizes that the estimate of the expected future outcome is never based in historical and didactic aims but only act as a guidelines.

Its practical meaning is to show how much an acting man is free to consume without impairing capacity to produce. It is with regard to this problem that the fundamental notions of economic calculation – capital and income, profit and loss, spending and savings, cost and yield –are

developed as a module for quantification purposes. The practical employment of these notions and of all notions derived from them is inseparably linked with the operations of a market in which goods and services of all orders are exchanged against a universally used medium of exchange, money.

I further assert that, for a meaningful operations of the Central Banks in developing and underdeveloped economy; they should begin to construct their monetary policies based on the critical analysis and value derivation of the material market, through the action man or group of people based on their culture context, the only means to relate meaningfully to fiscal policy structure of an economy, which is believed to be the an answer to the current underdeveloped economy, experienced by African nations.

#### 3.4 The Error In Future Market Forecasting

Adaption Expectation theory hypothesized that, people form their expectations about what will happen in the future based on what has happened in the past and computed it into an equation as

$$Pe = Pe_1 + \lambda (P - Pe_1)$$

However the theory chose to blame the error of forecasting on stochastic shocks. This weakness identified and associated with the theory, has contributed to rampant failures, experienced by most of Central Banks forecasting activities, worse among all are the Central Banks operating within the economic climate of developing and underdeveloped countries. Which this paper seek to argue that the error emerge from the careless imaginary construction, ignoring the role of comprehensive study into a market in-build value, which is derived from it cultural philosophy as a premise to drive theorization, that will govern forecasting model used for future market analytics.

This resulted in the development work of Muth (1961) on expectation theory. This theory presented a model for a systematic predictions, also being a victim to simpler fallacy of ignoring the cultural philosophy of a build-up market value of a group of people or a society which forms the axiom for the computation into the equation for predictions, hence was bound to create the

same error as the initial theoretical formula was noted of, hence failing woefully to make a meaningful formula for practical operational market analytics and forecasting into the future market for appropriate policy constructions.

In an attempt to solve macroeconomic developmental problems by resorting to a theory that calculate prices changes, ignoring labour computation into the economic calculation; the axiom, that drive the micro economy (grassroots) of most of the developing and underdeveloped countries; we are bound to arrive to an equation that is fraud to the macroeconomic reality of market phenomenon.

#### 3.5 Technical Error Committed By Labour Economist

The significant error noted from most of the labour economist is their fallacious imaginary construction to establish their theoretical computation. Rationalisation of labour efficiency in the market phenomenon is mostly based on quality formal education without considering the stratification of the market system within a particular geographic area. This has mostly resulted to an error of misalignment of a market value and effective utilisation of labour. Not all labour efficiency depends on formal education, to easily arrive to the kind of arithmetic computations, as the general formulas seek to be deduces. When autocorrelation text was conducted to measure most of the 'causes' exude by the labour economist as the root of labour efficiency and impact to macroeconomic growth, it failed woefully.

An experiment was conducted through a critical observation of identified cause effect on labour performance and efficiency to an economic market, it was realised that, among the various causes, the cultural context of a geographical area is a general variable that has a strong influence in the cause relation analysis. Purposive sampling technique was used to select both developing and underdeveloped countries based on the nature of their economic market stature. It was further realised that effective operational mechanism of micro-economy of a nation, has a lot to do with a country economic developmental agenda. It became evident in the deduction; when a market operations was established to have a gab of misalignments of labour productive input at the micro level to the macro-economy, then the investment of monetary capital is bound to be wasted per the autocorrelation test. This deduce that, any formal education that produces human

capital for a particular market has to take into consideration, the cultural philosophy of that market as the foundation to construct it training materials for the development of it labour force, beyond this conclusions, there is a likelihood of dysfunction of the labour market to be meaningful to it market ecosystem and operate as the engine of industrial growth.

#### 4. Methods and Data Set

This paper adopted series of methods to arrive its final deduction. Praxeology was one of methodical tools used, due to the intent of this paper to derive practical correlation of human labour input in micro level and it correlation effect on macroeconomic aggregation measurement for easy analysis. "Praxeology is a deduction of human action based on notion that human engages in purposeful action behaviour" Mises (1949). It further used the Case study method to analyse the current monetary policy impact on microeconomic activities in developing and underdeveloped countries. "Case study aims to analyse specific market within the boundaries of specific environment, Situations or organization". Dudovskiy (2016).

Correlation Analysis was used as another tool to test the impact of the monetary policy to the actual market performance or real economic outlook of a developing and underdeveloped countries chosen as a sample frame. This was done by relying on credible secondary and primary data report from the past 5 years to the current circumstance using non-probability sampling method; specifically purposive sampling technique to select the following African countries listed as follows; Ghana, Kenya, Nigeria, Benin, Uganda, Zimbabwe and South Africa for the experimental studies. From the statistical examination to their secondary data report of their national statistical service, all failed to pass the test of Pearson Product-Moment correlation. Correlation analysis is used to determine the extent of relationship between two variables (Washington et al, 2010). The paper builds it argument on causal relation design; with the ultimate focus to identify the reason behind the ineffectiveness of monetary policies designed to address contemporarily Africa desired economic growth. 'Causal research design' Zikmunel et.al (2012). The major difficulty encountered was the inability to obtain a primary data across the seven selected countries already mentioned above and possibly to extend the studies to countries out of 54 African states that form the African continent through the measuring of their past events by an observational study in these selected developing and underdeveloped countries. However there were credible secondary source of data report to present the state of economic

outlook in this selected number of years from 2010 - 2015 to justify the inconsistency and contradictory nature of the monetary policies comparative to the real market functioning and economic outlook in the selected developing and underdeveloped economy.

The subscription to all this methodology was to arrive on a theoretical development, with the ultimate aim to correct the current dysfunction of the market phenomenon in the context of developing and underdeveloped countries. The prime objective is to meet the standard of desired economic growth through a macroeconomic management of a sovereign state. This demanded a critical look into the behavioural stature of this labelled market under studies, to achieve accurate response in the predictive model of the economic profession; rejuvenate the confidence and certainty which investors and other players in the market depends on largely to contribute to the development of the economy.

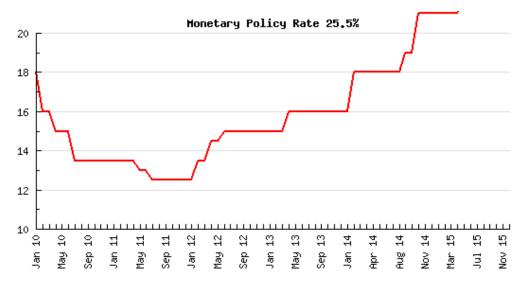
#### 3.1 Correlation Analysis

Upon several experiment and studies on the market dynamics and it corresponding monetary policy across the selected developing and underdeveloped countries, it was easier to deduce their resemblance performance to the market of Ghana and it common characteristic phenomena, hence used the Ghana market as specimen for critical studies, deductions and recommendations on theoretical perspective to represent the marked population.

The Bank of Ghana, Monetary Policy paper published on September 2010, *Vol. 3. No.4* indicated the vital role played by the monetary policy, which state:

"The trust of monetary policy in 2010 has been to engineer further macroeconomic stability while supporting a recovery in growth". Below is the table that indicate how the Bank of Ghana policy rate trend has been from 2010 up to 2016 in Ghana.

Fig. A
Credit to BOG.



Note: The Bank of Ghana Monetary Policy rate Graph from January 2010 to January 2016.

A press release reported by Ghana Vibe on September 11, 2015 Indicated, the reason upon which the Central Bank of Ghana increased its monetary policy rate during the 66<sup>th</sup> Monetary Policy Committee meeting; and it quoted "BoG increased monetary policy rate from 24 to 25%. With their ultimate reason to be the volatility in the financial market, declining commodity price and uncertainty as to the timing and impact of the tightening in Fed's monetary policy informed increase". The italicised statement outlined the major reason the Central Bank increased its monetary policy rate. It however forgot to express, how the increase in the policy rate stands to impact on the actual market, either positively or negatively. Current observation of Central Banks monetary policy publicly released in developing and underdeveloped countries has been noted to tone in this model with its paper content only defining why the policy decision is taken but never define it socio-economic impact and growth as a response to its key mandate of existence.

Per my primary data observation, the somewhat bullish drive of the policy rate of the central bank lacks real market performance impact expectation in the Ghanaian economy. People who have had experience, in the various structures and development of the market in Ghana, based on their categorized position or social class within the social-economic circle; falling within the

number of years this study seeks to historically obtain its information, were consulted to elicit their view on the true state of the economic market performance, as they were directly engaged in that market from 2010-2015. Bretano (1973) posit only what we know from perception can be counted as bases for scientific knowledge. Husserl (1965) "This perceptional approach emphasizing subjectivity and discovery of the essence of experience and providing a systematic and disciplined methodology for knowledge derivation is called phenomenology". Thus the subjectivity experience of people is the most objective means of establishing scientific knowledge (Epistemological Assumption) (Crewell, 2013; Wolcott, 2008; Guba and Lincoln 1998)

Below is the details of data report labelled 'Table '1X' and its graphical exhibit classified as Fig'B'. Non-probability sampling method was adopted using purposive sampling technique to select key informant for the interview. At the end of the studies 10,000 people were interviewed under this exercise. For better understanding on the questionnaire structure and design, refer to the appendix column at page 34.

Table 1X. Summary Data Report

Socio-economic market categorization	Socio-economic life (2010-2015) / population in percentage	Codes	Reasons (2010-2015)/ population in percentage	Codes
Medium Scale Enterprise Owners	28%	4	28%	7
Small/micro scale Enterprise owners	41%	5	41%	7
Government Employees	4%	4	4%	6
Private Employees	7%	4	7%	6
Informal Sector Workers	9%	5	9%	6

Youth (20-35years)	11%	5	11%	8
Total	100%		100%	

**Note:** The table above depict the measurement of the perception report of the true economic market performance by different class category of the people based on their experience, when monetary policy action were effected in every year from 2010-2015 in Ghana

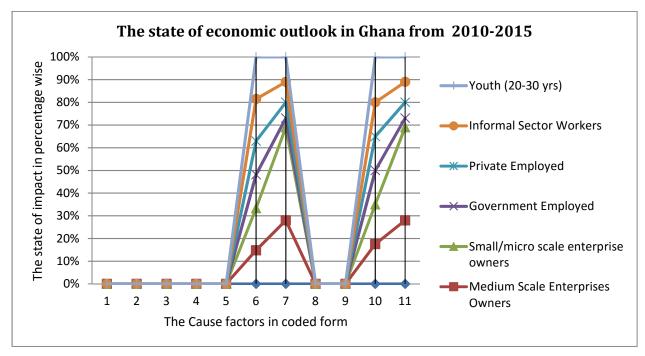
Table 2X.

Definition of the Response Codes

Recorded Responses	Coding
Best	1
Better	2
Good	3
Bad	4
Worst	5
Cost of living very high	6
Business market very bad	7
Unemployment Challenges	8

**Note:** When the quantitative survey was conducted, responses were record in a coded format for easy analysis and the Table 2X is the interpretation version of codes in Table 1X.

Fig. B



Note: This exhibit graph Fig B. represents the state of economic outlook within the marked period of studies to examine the correlation effect when the monetary policy transmission has taken effect.

The further step of these studies was to gather historical information from credible secondary data source of the market on the actual economic outlook for the past 5 to 6 years after monetary policies were implemented to serve as a second source for triangulation of result as (Kant 1985:51) posit "if you have to stake your life on which of these is likely to represent the most accurate complete research information, you would choose the centre of the overlap in which you got the information through interviews, questionnaires, reinforced it by observation and check it through documentary analysis".

GSS (2015) Gross Domestic Growth at the constant 2006 price is captured as 'Table 3X' as below. This data was used as a secondary source for my correlation test on the condition that GDP Growth is used as a macroeconomic indicator that represents the state of economic growth and the status of the economic health of a country.

#### **Macroeconomic Indicator**

Ghana Statistical Data Report (2015)

|--|

Years	2010	2011	2012	2013	2014
Real Gross Domestic Growth in Percentage	7.9	14.0	9.3	7.3	4.0

**Note**: This is a Government of Ghana statistical report in it Real gross domestic growth in percentage wise from 2010-2014, which was then available when this studies was on-going, as the only figures to depend upon within the stipulated period the studies seek to acquired authentic data report.

A critical study to Table 3X, Fig A and Fig B, conclude that, the monetary policy rate implementation within the set period and the real GDP growth do not correlate scientifically to defined a reliable trends that could support a scientific deduction on the state of economic growth and development of a nation by its monetary policy transmission.

Arto Kovaven (2011) observation on macroeconomic performance of Ghana as a research project under IMF, concluded that "monetary policy transmission and interest rate channel never works, indicating that the monetary policy is losing it credibility on the grounds that, it has failed to achieve its intended purpose of existence. He therefore strives further to propose the cause for such dysfunction of the policy, and assert that "the effects of the shocks or deviation of monetary policies may be amplified by illiquid or shallow financial markets" in developing economy like Ghana. When similar test was run across the other thirty three (33) nations that form the continent of Africa, the challenge of Central Banks policy deviation to the proposed expectation was very common in different degrees of impact. This failures led to the theoretical derivation of this paper to respond to such standard deviation; a means to exude a macroeconomic formula and method that will capture a realistic economic development in developing and underdeveloped countries.

### 4.2 Derivation Of Macroeconomic Formula To Determine The True Health Of An Economy

The formula below, was theoretically derived on the same mathematical foundation for the derivation and application of Gross Domestic Production (GDP) and Human Development Index (HDI) as a base to determine the healthy state of an economy; however this current derivation model seek to addresses the error of using those models independently in measurement. But rather establish an equation that fuse both model as a single component for measurement to derive the true state of the economic health status of a developing and underdeveloped economy due to its nature of structural makeup of it market phenomena.

$$MD = ME + C (MV)$$
.....Eq.2

MD- will be represented with the alphabet  $(\theta)$  is Macroeconomic Development Aggregate

ME- will be represented by an Alphabet (β) is Domestic Market Exchange Index

MV- Will be represented by an Alphabet ( $\alpha$ ) Market Value Point Index of a specific geographical area per it cultural context

C- Will be represented by an Alphabet ( $\lambda$ ) mass labour efficient index

The equation (2) above is represented as below under the statistical test of both Pearson correlation Test and Student T-test independently, taking **mass labour efficient index** ( $\lambda$ ) as constant.

$$\theta = \beta + \lambda \alpha$$

(Θ) Is defined by this calculation as the **macroeconomic development aggregate** of a nation, a society or a particular geographical area

 $\Theta$  = Macroeconomic Development aggregate

 $(\beta)$  Is defined by this calculation as the **domestic market exchange Index** of a geographical area derived from my first equation a "Market Exchange": This defines the exact sector of the

economy that performs very high in the Gross Domestic production (GDP) percentage aggregation of a nation.

- (α) Is defined by this calculation as the "market value point index" which measure the exact sector of the economy which forms the backbone or the cable of the economic growth of a particular nation. Market Value Point in this calculation measure the sector of the market that engage more active and efficient labour force easily, which it contribution have a significant effect on the macroeconomic development aggregate
- $(\lambda)$  It defined as 'mass labour efficient Index' which quantify the labourers' accessibility to the 'market value point index'  $(\alpha)$  within a particular period of time, which for simplistic purpose could assume it as constant for calculations but in the material market will vary under time series.  $(\lambda)$  Computation in the material world takes into consideration a labour force development and efficiency, which is highly inspired by the culture context of the society. Critical observation indicate that, the labour market classified as informal is very voluminous in developing and underdeveloped countries, hence their market value and exchange transaction has to directly depend on this labour force per the natural market phenomena, if not any macroeconomic development calculation is bound not to be sustainable. This variable  $(\lambda)$ , may vary with time differences because culture is dynamic hence the equation below is technically derived to measure a practical macroeconomic development of a state or a nation by the computation of the below formula. The equation below will be effectively applied as a model in current neoliberal market phenomena as well as a free market system.

$$\theta = \beta + \lambda^{t2-t1}(\alpha)$$

This indicates that Central Banks of developing and underdeveloped countries need to widen their analysis of variables needed for macroeconomic development computation within their jurisdictional area of operations, and avoid the adoption of simplistic employment of current macroeconomic formulas that never relate to the operating mechanism of the material market. For instance, the solely use of Gross Domestic Production (GDP) as a measuring tool to determine the economic health of a nation is very simplistic to consider all microeconomic factors for analytics in developing and under developed countries, the same apply to the computation of Human Development Index (HDI) which never reflect the actual status of the development of an economy and it health status.

To address this error through the measuring of the true health status of a nation's economy per my equation two; it establishes, the dependency on the "market value" and availability of labour supply to that sector of the economy that generate high GDP classified in this paper as market value point. Hence my current formula above which combine both GDP and HDI as a single computation variable in macroeconomic development aggregation, address this error. The accurate application of catallactics through correct market value derivation is the only economic calculation that will form the foundation of monetary policy direction, to engineer the grassroots who are the majority market players of every economic system to contribute meaningfully to the exchange market which will intend reflect on the true performance and the health status of macroeconomic growth of a nations in Africa.

#### 4.0 Findings, Recommendations & Conclusion

The policy development and applications of the Central Banks in developing and underdeveloped countries have one similar character, which is adoption and application of Eurocentric macroeconomic policy, which to some extent is inapplicable to the economic environment they operate in it. This policies are failing to work based on the below established errors associated with the market phenomenon of the developing and underdeveloped countries. Which has to be further noted that, their macro economy is misaligned with the microeconomic fundamentals;

1. In a situation whereby the ratio of misalignment of labour productivity and it input to an economy is estimated at 70:30 in a correlation test, which literally means 70% unproductive labour force; imply this percentage is unable to relate meaningfully to the market ecosystem and 30% marginally productive, indicating, the measure of the only labour force, that is really contributing to macroeconomic growth within such time frame.

With my computation and analysis of labour output and observable indicators of real economic outlook, it easy to deduce that, such an economy fall into a category, classified today by World Bank as developing economy by different methodology of rating

2. Underdeveloped economy has their percentage level of misalignment rate to be estimated at 85:15 or even higher, with literally implies 85% unproductive labour force and 15% marginally productive to macroeconomic performance aggregate

Therefore if the misalignment gab not corrected, studies indicate that, no matter how accurate and logical the monetary policy will be transmitted; investment in such a market is bound to be ineffective and wastage of monetary investment as earlier argued.

To address such gab, the supposed labour force of 40% and above in any economic market should be naturally gravitating to the **market value point** with a complementary policy regulation, which this **market value point** is argued in this paper to have a direct correlation to the cultural philosophical interest of the society or the economic market in studies, because the real growth and development of any economy operate around this theoretical **market value-point**.

#### 5.0 Reference

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### 6.0 Appendix

Catallactics: Is a theory of the way the free market system reaches exchange ratios and prices. It aims to analyse all actions based on monetary calculations and traces the formation of price back to the point where an agent makes his or her choices.

Praxeology: Is the deductive study of human action based on the notion that humans engage in purposeful behaviour

#### ADMINISTERED QUESTIONAIRES

- Q1. What was your state of socio-economic living as at 2010-2015
  - 1. Best 2. Better 3. Good 4. Bad 5. Worst
  - 1b. You could further express in words per your experience, resulting in the choice of answer above, in A-1.
- Q2. Define the reason behind your choice of respond to Q1.
  - 2. 6. Cost of living very high 7. Business market very bad 8. Employment Challenges 9. None
  - 2b. You could further express in words per your experience, resulting in the choice of answer above, in A-2