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Professor Faboyede, Olusola Samuel  
E-mail: [samuel.faboyede@covenantuniversity.edu.ng](mailto:samuel.faboyede@covenantuniversity.edu.ng)

Mukoro, Oluku Dick, Ph.D  
E-mail: [oluku.mukoro@covenantuniversity.edu.ng](mailto:oluku.mukoro@covenantuniversity.edu.ng)

Iyoha, Francis, Ph.D  
E-mail: [francis.iyoha@covenantuniversity.edu.ng](mailto:francis.iyoha@covenantuniversity.edu.ng)

Odafen, Aiwanose Hannah  
Department of Accounting, School of Business, College of Development Studies  
Covenant University, Ota  
Ogun State, Nigeria  
E-mail: [aiwahannah@yahoo.com](mailto:aiwahannah@yahoo.com)

Dear authors:

Based on positive reviews, I have the pleasure to accept your co-authored paper entitled, ***The impact of extensible business reporting language education and adoption on stock exchange development: A focus on Nigeria*** for presentation at the 2014 international conference of Business and Applied Sciences Academy of North America (BAASANA) scheduled to be held at Ramapo College of New Jersey, USA during June 19-21, 2014. Congratulations! This acceptance is contingent upon your official registration and presentation of the paper at the conference.

In order for your paper to be included in the conference program, please complete the attached registration form and pay the regular registration fee as soon as possible. To include your paper in the official proceedings of the conference, please follow the manuscript guidelines available at [www.baasana.org](http://www.baasana.org) and proofread the paper for possible grammar, composition, typos, and punctuation errors and submit the same by June 1, 2014. Thank you.

I look forward to meeting you at Ramapo College, New Jersey, USA

Sincerely,

*John Okpara*

Dr. John Okpara  
Professor of Management and Chair, Department of Management and Marketing  
Program Chair, 2014 BAASANA International Conference  
Bloomsburg University of Pennsylvania  
Bloomsburg, PA 17815, USA

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# **THE IMPACT OF EXTENSIBLE BUSINESS REPORTING LANGUAGE EDUCATION AND ADOPTION OF STOCK EXCHANGE DEVELOPMENT: A FOCUS ON NIGERIA**

Faboyede, Olusola Samuel,

Department of Accounting, School of Business, College of Development Studies, Covenant University,  
Canaanland, Ota, Ogun state, Nigeria, [samuel.faboyede@covenantuniversity.edu.ng](mailto:samuel.faboyede@covenantuniversity.edu.ng)

Mukoro, Oluku Dick PhD,

Department of Accounting, School of Business, College of Development Studies, Covenant University,  
Canaanland, Ota, Ogun State, Nigeria. [oluku.mukoro@covenantuniversity.edu.ng](mailto:oluku.mukoro@covenantuniversity.edu.ng)

Iyoha, Francis PhD

Department of Accounting, School of Business, Covenant University, Canaanland, Ota, Ogun State, Nigeria,  
[francis.iyoha@covenantuniversity.edu.ng](mailto:francis.iyoha@covenantuniversity.edu.ng)

Odafen, Aiwanose Hannah

Department of Accounting, School of Business, College of Development Studies, Covenant  
University, Ota, Ogun State, Nigeria. [aiwahannah@yahoo.com](mailto:aiwahannah@yahoo.com)

## **Abstract**

The growing need for widely available and easily accessible financial information in the financial markets has prompted the necessity for the knowledge and adoption of Extensible Business Reporting Language (XBRL) as the standard format for presenting financial reports across the globe. The impact of an efficient information distribution system like the Extensible Business Reporting Language (XBRL) could help protect creditors, make cross border relations more secure and support the competitiveness of financial markets This study aims at investigating the impact of the possible learning and adoption of Extensible Business Reporting Language (XBRL) in the Nigerian Stock Exchange. The data used for this study were gathered through the instruments of a questionnaire and secondary sources. One hundred and Fifty (150) copies of a questionnaire were administered, out of which one hundred and thirty-one (131) were collated for analysis. To achieve the objectives of this study, three hypotheses were formulated from the structure of research questions. Kruskal-Wallis and descriptive statistical tools were used in testing these hypotheses. Findings show that environmental factors and problems in the Nigerian Stock exchange will affect the learning and implementation of XBRL in the Stock Exchange as well as the fact that certain infrastructure must be put in place before the implementation of XBRL. Based on these findings, the study recommends that the Federal government should announce and compel the educational awareness and adoption of XBRL as a format for regulatory filing and financial reporting in the Nigerian Stock Exchange.

**Key words:** XBRL, Nigerian Stock Exchange, Education, Information, Development

## **1.0 Introduction**

In recent times, the need for updated, accurate and easily understandable financial information in the financial markets has grown. This is facilitated by the upsurge in international trade and unification of markets and increase in the number and users of accounting information. According to Chandran (2010), cited in Faboyede, Mukoro, and Olowe (2011), investors today are very demanding, and emphasize greatly on authenticity, accuracy, and reliability of financial data as financial reporting reveals the true financial and overall health of an organization. However, the differences in presentation, terminologies, interpretation, and accounting standards in financial reports have frustrated users of accounting reports all around the world.

The answer to this problem, it seems, came in the form of the Extensible Business Reporting Language (XBRL) when Charles Hoffman, a Certified Public Accountant (CPA) from the State of Washington, began experimenting with Extensible Mark-up Language (XML) in April 1998 which eventually led to the development of XBRL. The Extensible Business Reporting Language (XBRL) is defined as —a standard-based method with which users can prepare, publish (in a variety of formats), exchange and analyze financial statements and the information they contain (Malhotra and Garriit, 2004). It is to address business reporting information on the internet and bases on XML, which is a standard for electronic data exchange on the internet. It is a markup language, rather than a programming one. It enables business data and information to be shared and communicated by companies, banks, stock exchanges, accounting institutions, governments and other relating organizations (Faboyede, Mukoro, Olowe, 2011). It is open-standard, free of charge, and developed by an international non-profit consortium known as the XBRL International (Li, 2007). It should be noted that Extensible Business Reporting Language (XBRL) is a significant part of the Accounting Information System process.

China, in 2004, and the United States of America (USA), in April 2009, set the pace for the world when their respective Securities and Exchange Commissions mandated that regulatory filing by companies be done in the XBRL format. Incidentally, financial markets the world over are mandating that companies listed on the stock exchange report their financial data for the

period in Extensible Business Reporting Language (XBRL) including Japan, Brazil, South Africa and many others, with positive results.

In the Nigerian system, little or no strides have been made in the area of XBRL. So far, only the Association of National Accountants of Nigeria (ANAN), has taken steps by joining the XBRL International as a direct member and incorporating XBRL into the ANAN training curriculum for over 10,000 students. The Nigerian Stock Exchange (NSE) has made no move towards the adoption of the Extensible Business Reporting Language (XBRL) in its regulatory filing system which would have made positive impact on users of financial reports. This is a major reason for undertaking this study.

Thus, the main objective of this study is to examine the usefulness and need for the implementation of the Extensible Business Reporting Language (XBRL) based on the review of its implementation in selected international stock exchanges which include the American Stock Exchange, Japanese Stock Exchange, Chinese Stock Exchange, South African Stock Exchange and the Indian Stock Exchange, and the implications of its adoption for financial report users in those countries and Nigeria.

Other specific objectives include: examining the environmental factors that will affect the implementation of the Extensible Business Reporting Language (XBRL) in the Nigerian Stock Exchange; identifying the infrastructure necessary to ensure the implementation of Extensible Business Reporting Language (XBRL) in the Nigerian Stock Exchange; and analyzing the attitude of participants in the Nigerian Stock Exchange and users of financial reports to the possible implementation of the Extensible Business Reporting Language (XBRL) in the Nigerian Stock Exchange. The remaining part of this paper discusses the literature review, methodology, findings, implications, and recommendations.

## **2.0 LITERATURE REVIEW**

Extensible Business Reporting Language (XBRL) is a framework based on XML (Extensible Markup Language) that is freely licensed and facilitates the automatic exchange and reliable

extraction of financial information among various software applications anywhere in the world. This new business reporting language enables companies and individuals to use financial information in a much swifter and more flexible way (Malhotra and Garriit, 2004). In today's financial markets, financial information should be widely available and easily accessible (Wymeersch, 2008). It should also be in the format that encourages easy and accurate business decision making. Financial reporting in recent times has been unsatisfactory due to discrepancies in terminology, presentation, analysis and standardization of financial reports. Financial fraternities have been trying to find a solution to this problem with special attention to that of dissemination and standardization especially the financial markets.

Extensible Business Reporting Language (XBRL) is the most reliable and all-encompassing solution to modern day financial reporting issues. As Malhotra and Garriit (2004) put it, Extensible Business Reporting Language is the missing link; the specification that allows financial and business reporting concepts to be expressed quickly, less expensively, and more efficiently. The widespread use of XML will streamline reporting and transaction tracking in every area of business, from regulatory and tax compliance to internal and performance measurements and international harmonization. Reports that took hours to assemble using any analytical application can now be prepared, distributed and consumed in merely seconds using XBRL tags. Joined in a quiet revolution, many companies around the world are beginning to speak a new but common language known as XBRL (Willis, 2003).

Naseem (2011) explains that XBRL allows companies and individuals to —tag data inside financial reports to facilitate data extraction and manipulation. Its specifications satisfy the major users of the application which include i) business information preparers, ii) intermediaries in the preparation and distribution process, iii) users of this information and iv) the vendors who supply software and services to one or more of these three types of user. UBMatrix (2006) defines XBRL in 3 categories as follows: (a) XBRL is a **global standard** method for the electronic exchange of business information (replacing 100s of proprietary methods). (b) XBRL represents a **global agreement of the semantics** of financial reporting concepts and business rules. ©

XBRL is also an **organization**, comprised of over 400 members from around the world. The organization stands behind and maintains XBRL.

Summarizing the definitions of XBRL is Eckhausen (2004) who states that: XBRL is a freely available electronic language for financial reporting, based on the XML standards in order to:

i) Prepare financial data ii) Extract reliable financial data iii) Exchange financial data on a system to system basis, and iv) Publish company financial data.

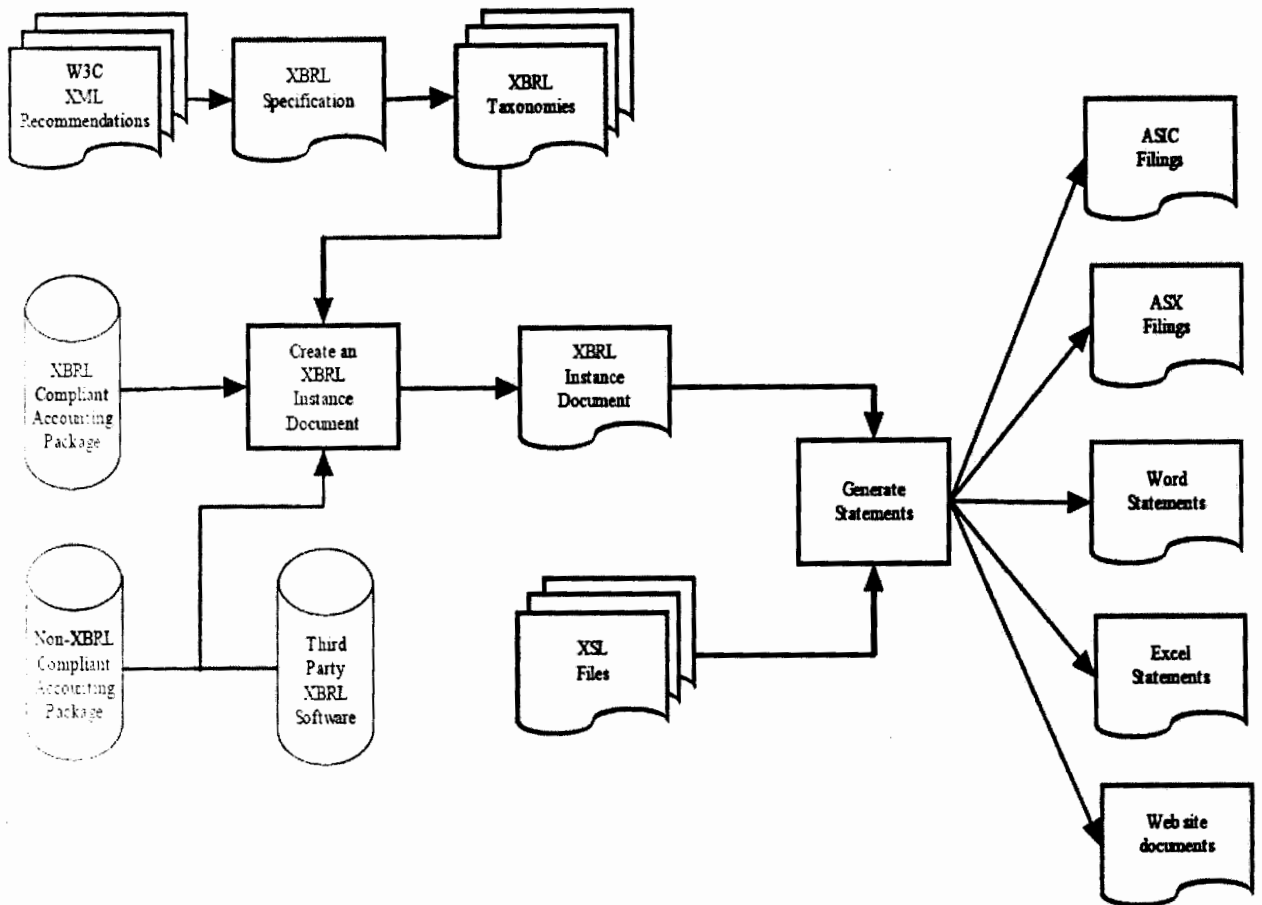
Business organizations are required by regulatory bodies to produce reports periodically for the users of financial statements in different formats as some users require more information than others. With XBRL, all these needs can be met.

### **3.0 The XBRL Process**

Business organizations are required by regulatory bodies to produce reports periodically for the users of financial statements in different formats, since some users require more information than others, but with XBRL, all these needs can be met simultaneously. The diagram below indicates some examples of the need for multiple reports based on the same data. A goal of XBRL is to reduce the manual rework that is usually required to meet the needs/requirements of each of the users. According to Richards and Smith (2004), if all the needs can be met by simply transforming the same data into different formats using XML/XBRL technologies, then many of the repetitive reporting processes can be eliminated.

Shown below is the diagram that shows the different stages which may be involved in a typical XBRL process:

## The XBRL Process



Source: Richards and Smith (2004)

### 4.0 Benefits of XBRL for External Reporting

EDGAR (2007) attests to the benefits of using XBRL for financial external reporting to companies. Such benefits include: quick communication of more accurate data; unprecedented level of transparency for external reporting; reduced costs of automated data gathering and aggregation; efficient data validation; errors are identified/corrected prior to disclosure filings; narrative explanations of valid data discrepancies embedded; faster speed to publishing; expedited reviews from the Securities and Exchange Commission for XBRL filings; leadership and reputation for transparency; improved communications: Companies can ensure that individuals are reviewing their numbers as they were depicted.

#### **4.1 Benefits of XBRL for Internal Accounting**

Although the primary push is for using XBRL in interactive data to prepare financial statements, XBRL also works for internal company information, controls, compliance, and reporting processes. The larger the company, the more benefits there are to using XBRL enterprise-wide to automate business processes (EDGAR, 2011). Other benefits include: (a) Analysis of competitors and benchmark against industry peers (b) Improved audits and analysis of Merger and Acquisition targets (c) Faster integration of new acquisitions (d) Communication between autonomous business units using different accounting and ERP systems (e) Automation of aggregation of data from various software applications and databases.

#### **4.2 Requirements of XBRL**

The requirements of XBRL as stated by UBMatrix (2006) include: (i) Automated, efficient and reliable extraction of information from an XBRL document (ii) Automated comparison of information expressed in XBRL documents such as financial and other business information. These include accounting policies, notes to the financial statements between companies and the supply chain information (iii) Drill down from information to more detailed information such as, authoritative literature, and audit working papers (iv) Support for multiple languages (v) Extensibility in terms of adding concepts and modifying relationships which is the highest priority. XBRL must be flexible to meet its users' needs (vi) Semantic and syntactic validation of information within XBRL instances, particularly numeric information, and textual-type information (vii) Presentation, such as the use of bold, italics, and other stylistic techniques are also a requirement (viii) The data in XBRL documents is commonly numeric and has relationships to other numbers. These relationships need to be accurate.

#### **4.3 Role of XBRL in the Stock Exchange Development**

Stock exchanges that collect standard electronic financials and that have automated the analysis and reporting of this data have a fundamental advantage over other Exchanges. They are much more attractive to investors. With XBRL-compliant data, Stock markets can offer increased value and provide competitive advantages to institutions and private investors. Financial data verified in real-time, converted to XBRL and posted directly to an issuer's website improves worldwide exposure and provides rapid analysis capabilities to the investment and analyst



community (Selim, 2012). There has been a positive increase in XBRL implementation around the world. According to XBRL and the International Accounting Standards Committee Foundation, XBRL in the stock exchange will ensure: (a) Seamless flow of data (b) Filtered data © Validation (d) Creation of enhanced/new revenue opportunities and (e) Saving of time and resources. Also, Selim (2012) noted that the implementation of XBRL in the stock exchange will help market regulators in the following ways:

(i) **Quarterly Analysis of listed companies' filings:** In the past, market regulators had to build company data into analysis database and send to investment houses for use. This process usually took months to carry out thus providing these houses with outdated information. XBRL offers investors and market regulators instant access to company financials

(ii) **Instant Data Collection Solutions: XBRL Forms:**

Products like XBRL forms remove the financial and technological burden from the filers and provide an easy-to-use, web-based front end for users to verify financial information prior to submission. With the taxonomy identified, the XBRL Forms application dynamically renders a set of taxonomy-driven returns for high quality financial data capture.

(iii) **Profit Centre Opportunities:** By adopting an integrated platform to collect, verify, analyze and report XBRL data in near real-time, market regulators can collect higher -quality data and realize drastically improved time to market. This opens the door for new viable profit centre opportunities:

a) **Time** - much more valuable is same-day data versus data received in 30 days, 90 days or more. Would a Portfolio Manager pay a premium for near real time analytics and/or data mining capabilities against the most current reported investment data? With an integrated end-to-end XBRL data collection and analytics platform in place, market regulators could explore providing data services as a viable profit centre.

b) **Subscription** - the standardized Exchange listing fees could be charged to the Issuers for facilitating XBRL filings. Financial data verified in real-time, converted to XBRL and posted directly on issuer's website would improve transparency and worldwide exposure, and provide rapid analytics to the investment and analyst community.

c) **Open market regulator** has implemented an Analytics platform that integrates validated, near real-time XBRL data, they may wish to offer some or all of this data to the community in order to drive new revenue growth for the Exchange. Investors, analysts and journalists would find this data ideal for intra and cross-sector analysis and data mining, such as predictive regression analysis, neural networks, benchmarking, identifying outliers, or peer rankings within an industry category or across market sectors.

d) **Open market models** for investors, analysts and journalists against near real-time Investment data can drive new revenue growth for an Exchange.

(iv) **Real-time Validation:** Since XBRL forms dynamically renders web submission forms from a market regulator's taxonomy, it can also validate each filing in real time before certifying the return and generating the required XBRL instance document.

(v) **Validation:** For market regulators, better risk mitigation involves validating financial returns against their taxonomy prior to submission, dramatically reducing round trip time and errors related to re-keying data into back-end systems. An integrated XBRL-based data collection system enables this type of workflow and introduces cost, labour and time efficiency for the regulator as well as the filer.

(vi) **Data Portability:** Fundamentally, structured data like XBRL has meaning and context attached to it so that it can be exchanged effectively between trading partners, between entities and individuals as well as exchanged internally. Properly structured data is inherently easier to reuse in automated applications; whereas unstructured data is difficult to share without manual intervention.

(vii) **Efficiency Risk Management: XBRL Designer:** One example of these powerful Taxonomy design tools is XBRL Designer: a metadata-driven GUI design tool that streamlines taxonomy design (including data definitions, formula creation and returns definitions) and gives business users complete control over the entire data collection process.

With the help of Designer, Market Regulators can quickly react to changing legislation, standards and codes without IT or 3rd party intervention, effectively insulating the business from the inherent complexities of XBRL.

(vii) **Factor: Your Taxonomy Up to Date:** Taxonomy design has traditionally required skilled XML programmers and/or XBRL specialists to prepare taxonomies by specifying detailed concepts, steps, dimensions, calculations, and validation rules. Manually editing these Taxonomies can be very complex and time consuming, and in the past has required significant shifting of the data collection/validation requirements to highly paid XBRL experts for ongoing management of the Taxonomy. Over the past few years however, powerful business user-friendly Taxonomy design tools have emerged and now policy changes can be implemented faster and more efficiently directly by business users.

#### 4.4 Factors Affecting XBRL Adoption

This section discusses factors that might affect the implementation of XBRL in the stock exchange.

According to Ardery, Fowler and Mustafa (2009), factors that affect XBRL adoption in an organization can be classified into:

i. **Environmental context factors:** Environmental context factors include industry characteristics, support infrastructure and Government. Industry characteristics involve competition, level of competition, influence or pressure from and organization's trading partners, regulatory and government agenda.

ii. **Organizational context factors:** According to Janvrin, Bierstaker and Lowe (2008, as cited by Chikudate (2009), these factors relate to the organization's structure, processes and resources which influence the organization's readiness to adopt technology. These factors include organization's size and resources, top management support and organization champion.

iii. **Technological context factors:** These factors include relative advantage, compatibility, complexity, trialability and observability of an information system technology like XBRL. These factors play a significant role in the decision to adopt it.

## 5.0 Research Hypotheses

The hypotheses of this study include:

H<sub>0</sub> 1:  $\mu_1 = \mu_2 = \mu_3$

H<sub>1</sub> 1: There is no significant difference in the opinion that environmental factors will affect XBRL implementation across the 3 groups of respondents.

H<sub>0</sub> 2:  $\mu_1 = \mu_2 = \mu_3$

H<sub>1</sub> 2: Human infrastructures are not necessary to ensure the implementation of XBRL in the Nigerian Stock Exchange.

H<sub>0</sub> 3:  $\mu_1 = \mu_2 = \mu_3$

H<sub>1</sub> 3: The attitude of users of financial reports will not be positive to the possible implementation of the International Business Reporting Language (XBRL).

## 5.1 Statistical Data Analysis

A self-administered five point likert scale questionnaire was administered to stakeholders in financial reporting in Nigeria, notably, investors, Tax practitioners, auditors, preparers of financial statements and capital market operators. A total number of 150 questionnaires were distributed and 131 of these questionnaires were returned, showing an average return rate of 87%. The study employed the Kruskal-Wallis Test (sometimes referred to as the Kruskal-Wallis H Test) which is a non-parametric alternative to a one-way between-groups analysis of variance, in testing the hypotheses.

## 5.2 Statistical Testing

H<sub>0</sub> 1:  $\mu_1 = \mu_2 = \mu_3$

H<sub>1</sub> 1: There is no significant difference in the opinion that environmental factors will affect XBRL implementation across the 3 groups of respondents.

Ranks

	Respondent Group	N	Mean Rank
Effect of environmental industry factors on XBRL implementation	Investor	46	65.21
	Tax Practitioner	36	64.25
	Auditor	39	53.04
	Total	121	

Test Statistics<sup>a,b</sup>

	Respondent Industry factors effect on XBRL Implementation
Chi-Square	3.416
df	2
Asymptotic Significance	.181

a. Chi-Square Test  
b. Dependent Variable:  
Respondent Group

**Interpretation:**  
The statistical significance of 0.181, which is greater than 0.05, shows that there is no significant difference in the perception of the groups. The three groups agree to equal degree that a major environmental factor (industry factors) will affect the implementation of XBRL. The Investors have a mean rank of 65.21 followed by the Tax Practitioners with 64.25 and the Auditors with 53.04.

**Decision:**  
Level of significance;  $\alpha = 0.05$ . Since  $p \text{ value} = 0.181 \geq 0.05 = \alpha$ , accept the null hypothesis which states that there is no significant difference in the opinion that environmental factors will affect XBRL implementation across the 3 groups of respondents and reject the alternative hypothesis.

**Hypothesis 2:**

H<sub>0</sub>: Certain infrastructures are not necessary to ensure the implementation of XBRL in the Nigerian Stock Exchange.

**Ranks**

	<b>Respondent Group</b>	<b>N</b>	<b>Mean Rank</b>
Investor	<b>Investor</b>	<b>47</b>	<b>73.56</b>
	<b>Tax Practitioner</b>	<b>36</b>	<b>57.25</b>
	<b>Auditor</b>	<b>39</b>	<b>50.99</b>
	<b>Total</b>	<b>122</b>	

**Test Statistics**

	<b>Respondent Company formal policies on electronic matters</b>
<b>Chi-Square</b>	<b>10.633</b>
<b>df</b>	<b>2</b>
<b>Asymptotic Significance</b>	<b>.005</b>

Chi-Square Test  
 Independent Variable:  
 Respondent Group

**Decision**

Since p value = 0.005 < 0.05 =  $\alpha$ , reject the null hypothesis and accept the alternate hypothesis which states that certain infrastructures are necessary to ensure the implementation of XBRL in the Nigerian Stock Exchange.

**Hypothesis**

H<sub>0</sub>: The attitude of users of financial reports will not be positive to the possible implementation of the Extensible Business Reporting Language (XBRL).

**Ranks**

<b>Respondent Group</b>	<b>N</b>	<b>Mean Rank</b>
<b>Respondent XBRL contribution to speeding up reporting and filing cycle</b>		
<b>Investor</b>	<b>46</b>	<b>63.70</b>
<b>Tax Practitioner</b>	<b>36</b>	<b>67.04</b>
<b>Auditor</b>	<b>38</b>	<b>50.43</b>
<b>Total</b>	<b>120</b>	

**Test Statistics**

	<b>Respondent XBRL contribution to speeding up reporting and filing cycle</b>
<b>Chi-Square</b>	<b>6.52</b>
<b>df</b>	<b>2</b>
<b>Asymptotic Significance</b>	<b>.038</b>

a. Based on the Wallis Test  
 b. Reporting Variable.  
 c. Independent Group

**Decision**

Level of significance;  $\alpha = 0.05$ . Since  $p \text{ value} = 0.038 \leq 0.05 = \alpha$ , reject the null hypothesis and accept the alternative hypothesis which states that the attitude of users of financial reports will be positive to the possible implementation of the Extensible Business Reporting Language (XBRL).

Sequel to the closed ended questionnaire administered, we found out that Extensible Business Reporting Language has a very important role to play in the Nigerian Stock Exchange and has positive implications for users of financial reports at large. Other findings include:

1. The study found out that environmental factors are capable of affecting the implementation of Extensible Business Reporting Language in the Nigerian Stock Exchange
2. The research also found out that certain infrastructure such as Company formal policies on electronic matters must be put in place before the implementation of Extensible Business Reporting Language
3. Constraints such as operational, organizational and Nigerian Stock Exchange problems will affect the implementation of XBRL in the Nigerian Stock Exchange.
4. The major stakeholders/users of financial reports (investors, tax practitioners and auditors) have a positive attitude towards the possible implementation of XBRL in the Nigerian Stock Exchange.
5. Based on the opinion of the experts, Extensible Business Reporting Language will improve Accounting Information System and the decision making process.

### 5.3.3 Conclusions

After a critical analysis of the questionnaires recovered from respondents, the following observations were made:

The Nigerian Capital Market has a low awareness of Extensible Business Reporting Language. Industry factors will affect the implementation of Extensible Business Reporting Language in the Nigerian Stock Exchange.



The absence of support infrastructures will affect the implementation of Extensible Business Reporting Language in the Nigerian Stock Exchange.

The Nigerian economic environment is suitable for XBRL implementation.

Stakeholders believe that XBRL can contribute to speeding up the reporting and filing cycle, foster data comparability, reduce processing errors and be a reliable resource for the preparation of financial statements.

Stakeholders believe that XBRL will improve the transparency, comparability, relevance and reliability of financial statements.

## 5. Conclusion

The global adoption of the programming language Extensible Business Reporting Language (XBRL), will improve business data and information sharing among companies, banks, stock exchanges, accounting institutions, governments and other related concerns. Transparency, comparability and reliability of financial statements promise to also improve.

The Extensible Business Reporting Language (XBRL) is needed and should be adopted by the Nigerian Stock Exchange as the standard for financial reporting and regulatory filing. Only then can it gain investors' confidence and make strides towards the global stock exchange it aspires to be.

## 5.5 Recommendations

A successful design of the existence of Extensible Business Reporting Language (XBRL) must be carried out to encourage smooth and easy transition to XBRL-based financial reporting. Also, firm managers and other institutional investors should be made aware of XBRL through their professional bodies.