Software development outsourcing: challenges and opportunities in Nigeria

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ABSTRACT

In recent years, several emergent regions have become software development sourcing countries. This article investigates the possibilities of sub-Saharan Africa as a sourcing destination in the software field. To find out the reasons why sub-Saharan Africa countries in general and Nigeria in particular are not considered a destination for global software development projects, authors interviewed a set of professionals from Europe and Africa. Results indicate that there are many disadvantages and difficulties impeding Nigeria to become a preferred sourcing destination. The main ones are the absence of a strong software industry and the concerns about legislative, fiscal and commercial premises. On the other hand, it is observed that there are also relevant added values and competitive advantages in Nigeria (English speaking country, same time zone and cost) and, therefore, it can become a potential target for software development outsourcing in the medium and long term.

Keywords: Global Software Development; Software Offshoring; Sub-Saharan Africa; Nigeria.

INTRODUCTION

Globalization has transformed information technology industry from its roots. Software development offshoring is one of the results of the phenomenon that has gained momentum in the last several years (Colomo-Palacios et al., 2014). The growth of software development offshoring as a strategic option has transformed what was traditionally an internal firm activity to one driven by external vendors (Carmel & Agarwal, 2002), in which application development services are totally or partially outsourced (Wiener, Vogel & Amberg, 2010). Driven by continuous advances in information technology, the trend towards offshore software outsourcing has been growing steadily since the 1990s and now offshore software outsourcing has become an attractive strategy for companies that want to reduce costs, concentrate on core competencies, access to specialized resources, and increase the overall competitive advantage (Seng et al., 2008). In the early 1990s, offshoring of software work to development centers in low wage countries pertained to large Western companies such as IBM and SAP who systematically attempted to take advantage of wage differences and resources of a global market (Winkler, Dibbern & Heinzl, 2008). Thus Global Software Development (GSD) involves the development of software through interactions of people, organizations, and technology across nations with different backgrounds, languages, and working styles (Herbsleb & Mockus, 2003). This interaction brings diversity and intrinsic difficulty to an already
complex process. GSD has attracted attention from both academics and industry due to the complexity and challenges related to its nature (Smite et al., 2010).

The 1990’s saw the emergence of the three I’s (Ireland, India and Israel) as the principle locations for significant globally distributed software development (Ashish & Gambardella, 2005). More recently, Eastern Europe, Latin America and the Far East have been pointed out as feasible and successful GSD locations (Geer, 2006). In spite of the literature devoted to GSD, Africa, apart from South Africa and North Africa, plays a discrete role in the phenomenon. The aim of this study is to study the opportunities and challenges of Sub-Saharan Africa (SSAfrica) in general and Nigeria in particular as a GSD destination. This analysis is performed from two points of view; the outsourcer placed in the developed world and the African perspective.

Given the importance of the MINT countries (Mexico, Indonesia, Nigeria and Turkey) in today’s economy and given the perspectives of their economies in the forecasts, this article is valuable for IT professionals and managers alike. It is important as in Nigeria, the perspectives of growth can make this economy double in six or seven years. Furthermore, this study provides a better understanding of areas of development in all sectors, including information technology, both from a customer and a provider perspective.

The remainder of this work is structured as follows. The next section provides a literature review in two broad fields. In the first subsection, the main challenges and opportunities in the adoption of GSD are reviewed. The second subsection includes a review on the area of GSD and offshore outsourcing in SSAfrica and, more in depth in Nigeria. In the third section, results and discussion about the opportunities of Sub-Saharan Africa in GSD field are presented. Finally, the fourth presents the main conclusions and recommends future work.

LITERATURE REVIEW

Outsourcing and Offshoring Software: challenges and opportunities

The literature has reported hundreds of articles devoted to analyze GSD as a phenomenon and several broad reviews on offshoring and outsourcing (e.g., ino, 2009; Noll, Beecham & Richardson, 2010; Schneider, Torkar & Gorschek, 2013; Smite et al., 2010; Verner et al., 2014), on specific aspects such as contract management (Khan & Khan, 2013), selection of vendors (Khan, Niazi & Ahmad, 2011), process models (Prikладник & Audy, 2010), knowledge transfer (Nidhra et al., 2013), tools (Portillo-Rodríguez et al., 2012) agile practices (Jalali & Wohlin, 2012), and information systems offshoring (Wiener, Vogel & Amberg, 2010).

Focusing on purely GSD studies, apart from formal literature reviews, some works are also devoted to illustrate cases, best practices and key success factors (e.g., García Guzmán et al., 2011). As a result of the panoply of works already available, instead of performing a new literature review or systematic mapping study, we summarize the main findings with regard to challenges and opportunities in GSD. With regard to GSD challenges, the literature has reported the following:

- Different conceptions on the nature of the software development process (e.g., Noll, Beecham & Richardson, 2010).
- Disparities in team members’ strategies, behavior and assumptions about the work at hand and how to work with others (e.g., García-Crespo et al. (2010).
- Higher conflict and stress (e.g., Colomo-Palacios et al., 2014).
- Intellectual property issues (e.g., Khan, Niazi & Ahmad, 2011).
- Issues in communication, coordination, and control (e.g., Colomo-Palacios et al., 2012a)
• Knowledge transfer issues (e.g., Nidhra et al., 2013).
• Lack of quality (e.g., Cataldo & Nambiar, 2012).
• Lack of trust (e.g., Misra et al., 2013).
• Less efficiency (e.g., Colomo-Palacios et al., 2014).
• Political stability, including aspects like corruption, terrorism threats and uncertainty relating to trade and investment (Niazi et al., 2013).
• Socio-cultural distance (e.g., Casado-Lumbéreras et al., 2011).

With regard to known opportunities, these are as follows:
• Access to a new pool of multi-skilled workforce (e.g., Khan, Niazi & Ahmad, 2011).
• Higher creativity due to the mix of cultural backgrounds (e.g., Kommeren & Parviainen, 2007).
• Higher efficiency and productivity (e.g., Conchuir et al., 2009).
• Lower personnel costs (e.g., Noll, Beecham & Richardson, 2010).
• Shorter time-to-market cycles (e.g., Vizcaíno et al., 2013).
• Strategic regional presence and knowledge of local needs (e.g., Lamersdorf & Münch, 2010).

As can be observed from the list of challenges and opportunities, several items are in some way contradictory (e.g., less efficiency versus higher efficiency and productivity) and this paradox has been reported widely in the literature. In any case, these topics are somehow general and must be considered carefully once the project and set of partners have been established in the context of geographical and political concerns and cultural differences.

Outsourcing and Offshoring Software in Africa. A particularization to SSAfrica

Software development outsourcing is seen as an economic development tool for transition economies (Vrhovec, 2014) and Africa has been part of the phenomenon. In a nutshell, according to Abbott (2013), South Africa remains a dominant player in this industry in the African continent, while the North African countries are struggling to retain their former popularity due to business uncertainty arising from recent political upheaval in the region.

Most of the works have reported interactions in the GSD environment with South Africa (Abbott, 2004; Carmel & Agarwal, 2001; Carmel, 2003; Tanner, 2009); among other reasons is because this country is placed in the same time zone as EU nations. According to the Global Outsourcing Report, the Rainbow Nation lies among the 20 best countries marked as “global opportunity” for IT offshore investment and is predicted to rise to the 15th place by 2015 (Minevich & Richter, 2005).

The second big set of opportunities comes from francophone countries, mainly Morocco, Tunisia and, to a lesser extent Mauritius and Senegal. The common language, similar time zone, and cultural compatibility make Morocco an attractive destination for French organizations (Bruno et al., 2004). According to St. Amant (2007), French companies, for instance, now rely on employees in Senegal and Morocco for help with different outsourcing projects. In a sense, it can be said that is a form of nearshoring for these companies. Morocco, Algeria, Tunisia and Egypt are cited by Carmel and Abbott (2006) as three nearshore nations in the West Europe scope (Spain, France, United Kingdom, etc.).

However, in the case of Morocco, which maybe the best placed, according to Bruno et al. (2004), it is necessary to carry out long term development policies (investments in education, infrastructures, etc.)
together with short term internal-demand initiatives (incentives to small and medium firms for ICT adoption, promotion of the country image abroad, etc.) to compete in the market.

Mauritius is another good example of outsourcing-oriented country in the Southern African region (Tanner, 2009). The small island nation of Mauritius, located in the Indian Ocean approximately 1200 miles off the coast of Africa, has recognized information and communication technologies as the key to its long-term development (Rao, 2004). This country is making a concerted effort to progress in the software development field (Sukhoo et al., 2005) and a result of this is attracting GSD projects (Tanner, 2009).

Apart from South Africa, some sub-Saharan continental countries are building their future economies on IT (Lacity, Willcocks & Rottman, 2008). For instance, Rwanda is investing in infrastructures (Mwangi, 2006). Time will tell if Rwanda could be able to compete in the GSD market. Ghana is included in the Global Outsourcing Report (Minevich & Richter, 2005); this work underlines that Ghana’s low cost of living, stable democratic government, and literate, English-speaking population make it well-suited as an outsourcing location.

Nigeria and Ghana are good examples of countries attractive for offshore outsourcing but not ready (Adelakun, 2008). These locations have relatively cheap workforce and a fair number of trained IT professionals and are also attractive due to their time zone bracket with potential client countries.

Strictly speaking, ‘Sub-Saharan Africa’ refers to all countries in Africa except the five countries of North Africa, which are more socioeconomically similar to the Middle East, and the Republic of South Africa, which, although a part of Sub-Saharan Africa, is very different economically from the rest of SSAfrica (Okoli, Mbarika & McCoy, 2010). Although there are efforts to identify critical success factors for obtaining sourcing projects in sub-Saharan countries (e.g., Van der Linden & Hengeveld, 2009), to the best of authors’ knowledge, there is not a study devoted to find out the main factors to enable GSD in SSAfrica in general or Nigeria in particular.

THE STUDIES

Problem definition and research questions

In the previous section, we argued that Sub-Saharan African countries may be feasible outsourcing options for European countries. In particular, this study considers Nigeria, where the official language is English; the time zone is almost the same as Europe, and most importantly, it is the most populated country in Africa. The country is a rich in terms of its resources and has a huge human capital potential. Nigeria’s higher education system currently has 95 universities - 27 federal universities, 34 state universities and 34 private universities - and about 160 other tertiary institutions - colleges of education, polytechnics, monotechnics. While these factors should be attractive points for outsourcing, but in reality, Nigeria is not part of the outsourcing phenomenon, taking into account that this country is not among the top 50 countries in A.T. Kearney Global Services Location Index 2011, while, for instance, Ghana is number 27. This observation provides the motivation for this study. Thus, the research question is: Why is not Nigeria considered a valid option for GSD projects? This question led us to design of a short interview guide consisting of five generic open questions about motivators and challenges in GSD projects in Nigeria. Through these open-ended questions, the authors expect to obtain broad and valuable information from European and African practitioners about the reasons that lie behind the disregard of Sub-Saharan Africa as an outsourcing destination.

Research Methodology

The overall process consisted of two studies conducted in parallel. The first took place in Africa and the second was conducted in Europe. The final aim is to contrast the conclusions of both studies bringing a
bilateral perspective to the research question. Both studies were performed through a semi-structured interview with a sample of professionals.

The semi-structured interview was developed to systematically explore views on all research questions and sub questions. The interview guide consisted of a series of open questions to collect qualitative data. The authors designed the script carefully to ensure that there was no bias in the formulation and in the identification of risks, challenges and opportunities. The semi-structured interview sought to collect qualitative data about the following factors:

1. Main motivators to contract GSD projects in Nigeria.
2. Main disadvantages or preventing factors to contract GSD projects in Nigeria.
3. Main challenges/risks to contract GSD projects in Nigeria.
4. Main competitive advantages of Nigeria with respect to GSD.
5. Social, job, and cultural characteristics that can influence to contract GSD.

The analysis of the interviews was carried out using commercial software for qualitative data analysis (NVIVO 9.0, International QSR Pty Ltd). This tool is used to organize, classify and analyze information, but also to explore and review trends in both studies. Besides, it permits to establish connections among content as well to extract conclusions from data.

Study 1: African perspective

PLANNING, SAMPLE & DATA COLLECTION

The authors selected two Nigerian-based companies as a sample for the prospective study. Both have branches in different states in Nigeria. They conducted interviews with several stakeholders. The interviews were face-to-face, with one-on-one meetings where the questions were asked by the authors to get information from the stakeholders.

Subjects were selected from those who answered positively to a personal invitation sent by the authors. The interviewees are selected based on their responsibilities in gathering requirements from clients, who were engaged in interviewing users, and who were observing users’ activities, and gathering documents to construct requirements for development of the system. The main method for collecting data was by taped in-depth interviews. Open-ended questions were used and members of the team had freedom to describe at length their experiences and problems.

The sample consisted of 25 subjects, with an average age of 34.8 and an average working experience of 8.2 years. Twenty percent of the respondents held a professional certificate, while 40% had a bachelor’s degree and 20% has an MBA or a master’s degree. All respondents had experience in outsourced projects in Nigeria of at least one project. Sixty percent had experience in more than 10 projects, and 40% had experience in one to ten projects.

RESULTS

Table 1 shows the arguments provided by the African experts regarding the main factors analyzed. Percentages reflect the number of respondents that mentioned the factor during the interviews.

<table>
<thead>
<tr>
<th>Main motivators to contract GSD projects in Nigeria.</th>
<th>▪ Language (88%).</th>
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<tr>
<td></td>
<td>▪ Time zone (50%).</td>
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<td></td>
<td>▪ Human Capital (increase of young students trained in IT)</td>
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</tbody>
</table>
**Main disadvantages to contract GSD projects in Nigeria.**
- Lack of confidence in administrative and bureaucratic systems (88%).
- Low overall technological development (72%).
- Lack of IT project management experience (72%).

**Main challenges/risks to contract GSD projects in Nigeria.**
- Lack of knowledge on culture and customs (92%).

**Main competitive advantages of Nigeria with respect to GSD.**
- Political stability in recent years (Nigeria is a democracy since 1999) (88%).
- Stronger economy (less reliance on commodities like oil and gas) (84%).
- Increase in young people trained in IT disciplines (80%).
- Young population (workforce of over 48 millions) (72%).
- Positive predictions about the economic future of the country (some forecasts estimate that the Nigerian economy could stay ahead of South Africa in the next 15 years) (72%).
- Commitment to technological development by government (64%).
- Intellectual property rights and information security (36%).

**Social, job, and cultural characteristics that can influence to contract GSD.**
- Administrative and social corruption (92%).
- Poor image of the country due to frauds (80%).
- Violence or terrorism (68%).

**DISCUSSION OF THE AFRICAN STUDY**

According to Nigerian respondents, the main attractor of Nigeria is the English language: English is the official language of the country, which facilitates business contacts and thus alleviating to some extent language problems widely detected in the literature (e.g., Colomo-Palacios et al., 2012a; Misra et al, 2013). The second main motivator is the workforce available in the country (76%) that is still growing and will be helpful to countries in which labor force is shrinking (Khan, Niazi and Ahmad 2011). Cost is seen as an important factor too (60%), consistent with classic GSD arguments of cost savings. Finally, time zone is an important factor in reducing overall cultural distance, in this case the temporal one. Nigeria is placed in the same time zone as Western Europe, which would favor real-time communications.
With respect to the main disadvantages, African professionals reveal that the most important factor is distrust in the administrative and bureaucratic system (88%). The functioning of the administration is slow and not very transparent, which does not facilitate the administrative procedures for establishing companies or outsourcing services. This aspect has been traditionally covered in the literature as political instability and includes facets like corruption, terrorism threats and uncertainty relating to trade and investment (Niazi et al., 2013). One facet that is somewhat new is the low overall technological development of the country, mentioned by 72% of the subjects. For example, the country still suffers several power supply crises. Furthermore, the respondents underscore the lack of IT project management experience as one of the most important disadvantages.

In regard to the main challenges and risks, African professionals pointed out just one main factor: the lack of knowledge of the social and cultural issues in the country. This is clearly one of the soft factors that are normally affecting GSD in a multicultural setting (Casado-Lumbreras et al., 2011).

Among factors that are competitive advantages, subjects highlight the political stability achieved in recent years (88%) and the interest of the authorities to make a stronger economy, less dependent on oil and gas, and the policy of investing in other sectors, such as technology (84%). Also, the respondents reported as strength the large numbers of young people and workers. Finally, for intellectual property rights (IPR) and Information Security IPR protection, Nigeria’s recent progress indicates its commitment to international IPR treaties and its obligations, and protection against this kind of theft is as much a part of the due-diligence process and helps in selecting an outsourcing partner.

With regard to the social, job, and cultural characteristics that can influence to outsource software development projects to Nigeria, the practitioners mentioned social and administrative corruption (92%) as the main influential factor, aligned with one of the disadvantages presented earlier in the study as well as the literature (Verner et al., 2014). Respondents also indicate that Nigeria has achieved notoriety due to fraud (80%) and this is a circumstance that can be negative on the overall perception of the country. Finally, subjects mention social instability due to violence and terrorism (68%) as factors that may hinder the decision to outsource in Nigeria.

**Study 2: European perspective**

**PLANNING, SAMPLE & DATA COLLECTION**

The objective of this Study 2 was to obtain a set of answers to the research questions from a European perspective. To achieve this objective, a group of 13 software practitioners and managers were interviewed using a semi-structured interview. All subjects were professionals with experience in GSD and in performing projects in SSAfrica (Nigeria), and an average of 1.6 years of experience in Africa. The sample consisted of 3 women and 10 men, with an average age of 42.3 and an average working experience of 18.6 years. The subjects were selected from those who answered positively to a personal invitation sent by the authors among Spaniard and French IT companies.

The semi-structured interview was assisted by at least one researcher. The average interview lasted approximately 84 minutes and was performed either in the respondent’s workplace or research centers. The room guaranteed that no one at work could overhear the responses. Each interview was tape-recorded using a speakerphone. During the interview, the authors took extensive notes, which were compared to interviews recordings in order to avoid mistakes during transcription.

**RESULTS**

Table 1 shows the arguments provided by the European experts regarding the main factors analyzed.

Table 2. Main factors affecting sourcing decisions in Nigeria according to European respondents.
| Main motivators to contract GSD projects in Nigeria. | ▪ Cost cutting (100%).  
▪ Language (92%).  
▪ Time zone proximity (to Europe) (85%).  
▪ Human capital availability (62%). |
|-------------------------------------------------|---------------------------------------------------------------------|
| Main disadvantages to contract GSD projects in Nigeria. | ▪ Weak software industry (92%):  
  ○ Need to organize development teams directly due to the scarcity of local suppliers.  
  ○ Costs of management and organizational procedures mentioned above (e.g. costs of expatriation, recruitment of local mediators, etc)  
▪ Lack and / or concerns about the legislative, local tax and business (78%):  
  ○ Poor transparency of the courts.  
  ○ High taxes.  
  ○ High risk of capital loss. |
| Main challenges/risks to contract GSD projects in Nigeria. | ▪ Identify the appropriate contacts and partners (100%).  
▪ Adaptability and flexibility in contacts and negotiations (92%).  
▪ Shortage of companies providing software services (85%).  
▪ Differences in professional practice (69%):  
  ○ Distance in the conception of:  
    ▪ Hierarchy.  
    ▪ Competitiveness.  
    ▪ Team.  
    ▪ Time.  
    ▪ Norms.  
▪ Cultural distance that leads to team management issues in terms of (85%):  
  ○ Talent management.  
  ○ Leadership.  
▪ Investment in training and human resource development (85%).  
▪ Traditional social and political instability (38%). |
### Main competitive advantages of Nigeria with respect to GSD

- Alternative to Asia (92%).
- Willingness to learn and adopt technology (85%).
- Economic development (69%).
- Employability (62%).
- Youth (46%).

### Social, job, and cultural characteristics that can influence to contract GSD.

- Corruption (“dash” culture) (100%).
- Sociable, friendly and warm people (100%).
- Frauds or extortions (78%).
- Lack of work discipline (54%).
- Low initiative (38%).
- Violence or terrorism (31%).

**DISCUSSION ON EUROPEAN STUDY**

With respect to main motivators for sourcing projects in Nigeria, the second most important factor is the command of English Language by native workers; in this case, the percentage of respondents reached 92% compared to the previous 88%. However all respondents expressed cost reduction as the main motivator while Nigerians mentioned that only in 60% of the cases. Thus, for foreigners, this classic GSD accelerator is the most important factor above all. As in the previous study, some other factors like time zone proximity (85%) and human capital (62%) are still important but slightly different from the perspective of Europeans. Thus, while time zone is seen an important factor for 85% of the respondents, it is only so for 50% of the Nigerians. Regarding the availability of human capital, this factor is more important for Nigerians (76%) than for Europeans (62%).

Among the main disadvantages of Nigeria as a sourcing destination, experts highlight the concern and uncertainty with respect to legislative, fiscal and trade systems; in many African countries, high taxes and a hypothetical capital loss may dismiss them as sourcing decisions. In addition, the practitioners consider that while many nations like Nigeria and Ghana, have experienced a remarkable development and modernization in recent years, their tax systems do not favor the decision to outsource or establish business alliances. In any case, the main factor is the insufficiency of a local software industry. Therefore it is difficult to obtain the cooperation of local partners or suppliers that provide human capital and technical resources. As a result, the outsourcer is sometimes forced to establish a direct process of recruiting human and technological resources, which is a complex task and leads to an increase in both direct and indirect costs.

With respect to the main challenges and risks to contract GSD projects, respondents indicated several reasons related to cultural differences in regard to relationship building and management activities. In this sense, as in other collectivist cultures (see Hofsted, e.g., 1984, 1991) and particularistic (e.g. Trompenaars & Hampden-Turner, 1997), Nigerians value human relations more than rules or laws. As a result, relations and contacts are essential for any kind of business in Nigeria. Sometimes, as indicated by the informants, the real challenge for a European is to find the right partner (Aramo-Himmonen et al., 2011). Also, over 90% of the respondents mentioned that business in Nigeria requires much adaptation and flexibility. The European must be willing to renegotiate and accept the terms of an agreement that
may change the next day. This is an important challenge due to cultural differences and people management becomes a complex task due to differences in the concept of time, teamwork and compliance (García-Crespo et al. 2010). Therefore, unique leadership and talent management are needed: the one that achieves goals without sacrificing the cultural idiosyncrasies. Furthermore, the scarcity of local suppliers (85%) is mentioned as a challenge, similar to findings shown presented earlier. Finally, although to a lesser extent, participants mentioned (38%) the traditional social and political instability as a risk.

Among the main competitive advantages, subjects underlined the need and desire of African societies to learn and acquire technology (85%). The experts believe that African leaders are encouraging the acquisition of technology or business activities that promote human capital formation. These policies will facilitate the training of professionals in technology related areas so as to enable the future development of these nations. In recent years, the economic environment has attracted investment in infrastructure and in the expansion of fiscal policies, although taxation is still a risk factor (United Nations, 2013). The respondents believe that in the future, Africa may become an alternative to the Asian providers. Lastly, the needs for jobs and the abundant young workforce are other competitive factors for Nigeria.

Subjects reported about social, job, and cultural characteristics that can influence sourcing. All European informants agree that corruption or the so called dash culture is a key factor that can affect the decisions of foreigners. Dash practice is to provide a gratuity or money that these people expect to receive for a service, but the peculiarity is that the "service" can be almost anything. It is considered an entitlement. It is culturally offensive when a foreigner does not make a small donation to these people when they really think they have earned it. It is illegal, but it is a very common practice that the foreign employer has to take into account. Respondents also mentioned about the bad image of Nigeria as a result of famous frauds and scams through the internet.

Additionally, experts agree that situations of conflict, violence and terrorism create a climate not conducive to any kind of business. But probably the perception of the lack of work discipline is the most controversial factor. According to the respondents, African workers show less discipline, commitment and responsibility than Europeans. Other attitudinal aspects of African workers are also mentioned, for instance, lack of initiative and violence. In Africa, status differences are more pronounced than in Western countries, and as a result, workers feel less willing to show initiative and independence.

However, there are also positive aspects in regard to cultural and social characteristics of Nigeria. All respondents mentioned without exception the sociable nature, friendliness and warmth of the Nigerian citizens. Despite the obstacles related to the dash culture and the fear of fraud or embezzlement, the possibility of establishing friendly personal relationships, and even to build strong friendships with the Nigerians, favors trade and business relations.

Finally, a paradox. Low overall technological development is seen as a disadvantage whereas the commitment to technological development by government is seen as an advantage. The explanation lies in the fact that there is low technological development at present; however, the government is adopting policies to change this situation.

HIGHLIGHTS OF BOTH STUDIES

In order to provide an integration of the above results, what follows are a set of illustrations to underline the most important aspects of both studies. Figure 1 shows the main motivators to contract GSD in Nigeria.
In a nutshell, it can be said that the command of English language is an important aspect for all subjects while classic aspects in GSD like low cost or time zone are far more important for Europeans than for Africans.

With regard to Figure 2, protection of business and bureaucracy aspects are of vital importance for both collectives, while it is a bigger concern for the Nigerians perhaps due to a greater knowledge of their own country. On the other hand, lack of competence or even the weak presence in the economy are more important concerns for Europeans. Surprisingly, technological development was mentioned only by the natives and not by the Europeans, perhaps due to their lack of knowledge of the topic.
As per Figure 3, cultural distance is a significant and the only issue stated by all participants; however, there is a significant difference in all other issues between the two groups. Europeans present a wider range of risks than perceived by the locals. These include instability, lack of competence in personnel and scarcity of partners.

Figure 4 illustrates the main advantages of Nigeria as stated by the Nigerians and the Europeans. Stability is the most important factor for Nigerians while in Figure 3 it appeared as a major risk. This is one of the paradoxes that this study reports: Europeans and Nigerians view this factor in opposite directions. Participants in both groups agreed that the economy in Nigeria, as part of the MINT region, is one of the positives. Commitment of the government and people in information technology are also listed by both groups, while other factors like alternative to Asia and employability are only mentioned by the
Europeans. On the other hand, intellectual property rights is only mentioned by Nigerians, which is quite surprising factor given the fraudulent activities reported in Figure 5.

![Figure 5](image_url)

**Figure 5.** Social, job and cultural characteristics in Nigeria that influence GSD.

Finally, Figure 5 presents the last set of factors regarding social, job and cultural characteristics in Nigeria that influence GSD. Six factors are listed, five of them negative and one positive. Regarding the latter, Europeans recognize that Nigerians are warm, and this can attract companies to outsource to the country. On the opposite end, concerns regarding corruption, fraud and violence appear in both samples while the lack of work discipline and low initiative are only listed by the Europeans.

**CONCLUSIONS AND FUTURE WORK**

This study presents a qualitative exploratory study that analyzes the reasons for considering an African country like Nigeria as a sourcing country for GSD projects. In order to investigate the reasons behind these sourcing decisions, two samples of European and African practitioners were interviewed using a semi-structured approach. As a result, extensive and valuable information was gained about African realities, difficulties and advantages.

Among the “main motivators”, there were many similarities between the two samples. For Africans, the English language and the training in technological disciplines are the main reasons for attracting GSD projects. Europeans agree on the importance of language, but also mentioned cost as the main factor. Also, the fact that Nigeria is in the same time zone is an important factor for most Europeans.

Regarding disadvantages, Europeans point to two main factors: the absence of a strong software industry and concerns about the legislative, fiscal and commercial practices. While the Africans agree with these factors, they also directly mentioned distrust of administrative and bureaucratic system, the lack of transparency, and corruption. Similarly, Africans cited limited technological development and the scarce experience in managing technology projects in their country.

There was a marked difference between the two samples in the risk factors. While Africans believe cultural differences are a major challenge for foreign organizations and workers, European informants mentioned several risk factors that are mainly related to interpersonal and organizational relationships. Among these are the difficulty of identifying appropriate partners, the differences in professional values, cultural differences regarding prioritization, time management and norms. Therefore, while the Africans mentioned the lack of understanding from abroad as the main challenge, Europeans underscored cultural differences as a major challenge. Some subjects indicated that power distance in West Africa is higher than in the European countries. As a result, workers do not feel free to communicate with their supervisors. This situation does not encourage employees to demonstrate individual initiative, for instance. It also translates into difficulties in managing teams, talent management and leadership.
Regarding main competitive advantages, there is a considerable overlap between the two samples. For instance, both samples mention that Africa and Nigeria are committed to technological development, and they emphasize the large number of youth in the population and in the workforce. Nigerians also mentioned greater political stability in recent years and greater financial strength, and even made positive predictions about the economic future of the country.

With respect to work characteristics, and social and cultural factors that may influence sourcing decisions, Africans mentioned three main points: corruption, fraud and violence. These three are also mentioned by Europeans. But the Europeans also listed other factors related to professional practices, e.g., “lack of work discipline” was mentioned by more than half of the sample. According to the Europeans, this mode of working results in disarray and is not always efficient.

In general, it can be deduced from this analysis is that the factors that affect sourcing decisions in Nigeria and other African regions are significant enough to reduce the probability of competing with Asian countries. However, there are many positive factors to be optimistic about the future of a country like Nigeria. Its relative political stability, economic strength achieved in recent years and increased development of its workforce, make Nigeria a nation to watch in the medium and long term.

One interesting finding of this study is Europeans do not have sufficient knowledge and understanding of the peculiarities of Africans, and this is even so among those who have professional experience in Africa. Understanding the behaviors, attitudes and values of other cultures is not an easy task. Informed GSD workers and partners are needed who understand these differences and show resilience as employees or contractors. Literature shows that, in general, African societies are quite hierarchical, collectivist and short-term oriented and this cultural background leads to the need for a proper and tailored personnel management approach.

What is perhaps most revealing is that even the Africans themselves are negative about the social and cultural factors potentially influential in sourcing decisions. These may be of interest for future research because it is likely that the stereotype about Africa is so ingrained that it determines a pessimistic description.

This study is likely the first approach to African reality from an intercultural perspective. This qualitative approach has provided interesting and useful information on the advantages and difficulties that West Africa presents for Europeans and Africans themselves. However, this first approach would require more advanced work in larger samples participating from both cultures, the application of a more comprehensive questionnaire and in addition, the use of quantitative research methods. Also, cross-cultural understanding will be enhanced by a culture-dimensional analysis (e.g., power distance, uncertainty avoidance, masculinity and individualism) that would help us better understand the differences between Africans and Europeans. Furthermore, in a practical sense, the study can be used to promote the effect of the motivating factors and mitigate the effect of the risk factors in GSD projects in SSAfrica.

REFERENCES


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