Informal economy as a cause for understating actual rates of entrepreneurship among blacks in the U.S. and in Africa

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Abstract
The study presents considerations for African countries that build off of Crump, Hill, and Taylor (2017). In that study, Crump et al. (2017) argue and present empirical evidence to support the notion that rates of black entrepreneurship (measured by black business ownership) in the U.S. currently presented in entrepreneurship literature are misleading and understated. Once formal and informal economy are considered together, the authors propose that entrepreneurship rates of blacks drastically increase, and likely surpass many other groups. This exploratory study similarly argues and presents evidence that actual rates of business ownership and entrepreneurship derived from formal economy activities in Africa likewise understate the actual rates of entrepreneurship and business ownership there.

This study also shows that there are many more advantages to operating in the formal economy than there are to operating in the informal economy. A tool is provided that can aid entrepreneurship educators to highlight some hidden advantages and disadvantages to people choosing to operate in either economy.

1. Introduction
1.1 Understated Black Entrepreneurship Rates
Crump, Hill, & Taylor (2017) argue that in the United States the rate of black entrepreneurship, measured by black business ownership, currently presented in the entrepreneurship literature is misleading and understated. The extant findings in the entrepreneurship literature indicate that blacks in the U.S. have the lowest rates of established business ownership at just four percent (Fairlie & Meyer, 1996, 2000; Fairlie & Robb, 2007) while also having the highest rates of entrepreneurial propensity, interest, and nascent entrepreneurship (Köllinger & Minniti, 2006; Walstad & Kourilsky, 1998). This rate is one third that of white established business ownership which is 12 percent, and this one-to-three percentage ratio has remained constant for more than the past 100 years (Bates, 1996; Fairlie, 1999; Fairlie & Meyer, 1996, 2000).

The literature also shows that blacks in the U.S. are unique relative to most other major racial and ethnic groups studied in the literature (Bradford, 2003; Butler, 1991; Hout & Rosen, 2000; Singh, Crump, & Zu, 2009). They are likely to engage in entrepreneurial activities differently than others (Crump 2013; Crump et al., 2017). Most of the findings on them relate to entrepreneurs who operate registered businesses in the formal economy. This led Crump et al. (2017) to question if the
exceptionally low rates of black business ownership in the U.S. relative to non-black population groups there result primarily from a measurement issue.

From the literature, the researchers hypothesized that certain forces act greater on blacks relative to non-blacks leading blacks to operate businesses in the informal economy at a significantly higher rate (see Crump 2013 for a more detailed explanation). Given the challenges of measuring informal economy activity (Macias & Cazzavillan, 2010; Schneider, 2005a, 2005b) among racial and ethnic groups, Crump et al. (2017) analyzed indirect measures and found that as the percentage of black population density increases in areas in the United States, those areas are more likely to contain a higher proportion of entrepreneurs operating in the informal economy. The researchers further established an Informal Economy Index (IEI) that can be used to measure the level of a city's informal economy activity based on its percentage of black population.

Crump et al.'s (2017) IEI supports their proposition that the well-established findings surrounding the underrepresentation of blacks in entrepreneurship compared to other groups diminish when the informal economy is factored into consideration. Once formal and informal economy are considered together, the authors propose that the sum of entrepreneurship rates of blacks drastically increase and likely surpass many other groups who operate in both economies. Similarly, actual rates of business ownership and entrepreneurship derived from formal economy activities in Africa likewise may understate the actual rates of entrepreneurship and business ownership there.

The implications of understated entrepreneurship rates among a population group may carry severe negative consequences. Such consequences may be experienced by the group, or by other affected outside groups and the broader community, society, and economy. Examples include prospective suppliers, partners, and investors who forego opportunities because the opportunities remain hidden. Additional groups include policy-makers, government officials, and grant funding institutions that divert resources elsewhere because of distorted perspectives on the actual entrepreneurial opportunities that exist among these hidden entrepreneurs. If systemic forces act more strongly on any particular ethnic, racial, or national group to understate that group's entrepreneurship rates, then research efforts to reveal these hidden forces should prove a worthwhile undertaking.

1.2 Aims of this Research

One aim of this exploratory study is to investigate whether any adverse impacts stemming from an underestimation of black entrepreneurs in the U.S. likewise relate to entrepreneurs and business owners in Africa whose entrepreneurship rates may also be largely understated. A second aim of this study is to explore any importance to policymakers and educators in both Africa and in the U.S. teaching entrepreneurs and business owners about differences and trade-offs of operating in either the formal or informal economy. Finally, we hope that this study contributes to the growing body of work that aims to increase the rate of entrepreneurship among blacks both in the U.S. and in African nations.

2. Literature Review

2.1 What is the Informal Economy?

The informal economy is difficult to clearly define (Chen, 2012; Macias & Cazzavillan, 2010; Schneider, 2005a). Yet, it is active in all countries around the world (Schneider, 2002 & 2005b), and is increasing (Schneider, 2005b). Chen (2012) shows how four different schools of thought (Dualist, Structuralists, Legalists, and Volunteerists schools) distinctively view and define this economic sector differently than each other. The International Conference of Labour Statisticians (ICLS) defines the informal sector as employment and production that takes place in unincorporated small and/or unregistered enterprises, and includes all types of informal employment both inside and outside informal enterprises (Chen, 2012).
This informal economic sector is comprised of several sub-dimensions that are easier to define. Some researchers partition the informal economy based on illegal versus legal activities, overlaid against illegitimate versus legitimate activities (e.g., Crump et al., 2017; Schneider, 2005a; Williams & Shahid, 2016). For our current discussion, we focus on the dimension that consists of business trade activities that would otherwise be lawful if the activities were taxed, licensed, regulated, and recorded.

2.2 What Causes People to Choose the Informal Economy Option?

Many forces lead people to operate in the informal economy, such as high unemployment, regulation, corruption, taxation, administration, and low salary levels and quality of public goods such as infrastructure (DeSoto, 1989; Dreher & Schneider, 2010; Khavul, Bruton, & Wood, 2009; Maloney, 2004; Schneider, 2005a; Schuck & Litan, 1987). People with high income levels choose the informal economy option out of having the discretion to run a business or not to run a business as a secondary source of income (Williams, 2008; Williams & Round, 2010). High income people also choose this option to increase wealth, business acumen, and access to resources (Webb et al., 2009), to escape corruption and bribes (Williams & Round, 2008), and to exploit opportunities from pre-existing formal employment (Williams, 2008; Williams, 2010; Williams & Nadin, 2010). People with middle income levels choose to operate in the informal economy also out of choice (Williams & Round, 2010, 2007), for hobby/personal interest reasons (Williams, 2008; Williams, 2010; Williams & Nadin, 2010). People with low income have additional reasons to choose the informal economy. These include (1) for survivalists purposes, out of necessity, and as a main source of income (Edgcomb & Thetford, 2004; Williams, 2008; Williams, 2010; Williams & Nadin, 2010; Williams & Round, 2010); (2) because they are undercapitalized, and because they perceive themselves as targets of discriminatory practices in the formal labor market (Webb et al., 2009); (3) to reduce risks associated with formal employment (Williams & Round, 2007) such as demotion or dismissal; (4) to gain dignity and autonomy that they believe cannot easily be attained in formal employment (Maloney, 2004); (5) to favorably transform their work identity (Cross, 2000); and (6) because of hobbies, or personal interest (Edgcomb & Thetford, 2004; Williams & Nadin, 2010).

Some entrepreneurs make the choice to operate in either the formal or informal economy, only (Schneider, 2005a). Others choose to operate in both simultaneously by formalizing their business activities while also keeping some portion of their trade activities hidden. The criteria that guide this choice relates to perceived positive and negative tradeoffs that accompany both choices (Guillermo, 2008). Some of these trade-offs are advantages, and others are disadvantages. A third group of people unwittingly find themselves simply trading in a non-formal way in the informal economy, without really giving any thought to the existence of any official rules and regulations governing their business trade. This highlights that many who operate in the informal economy never make an explicitly conscious choice to do so.

2.3 Trade-offs: Formal Versus Informal Economy

In a nation’s formal economy, primarily all businesses are registered and their income taxed. Most new and existing businesses are required to secure some sort of industry-specific license to ensure safety and harm remain in balance. Businesses must also obtain some type of general license(s) that grants permission to sell to the public and hire employees. These businesses, then, are registered, taxed, licensed, and regulated.

Incentives for accepting these regulations are many. By becoming registered on public registries, the businesses enjoy more visibility to a broader market of potential customers, suppliers, investors, and other types of strategic partners. In contrast, if a business does not register, it typically remains visible only to smaller localized markets of customers at arm’s length of the business owner.
By becoming a legally identifiable business, the owner can convert the business into a separate legal entity such as a corporation or limited liable company. Prior to such a change, that business can be thought of as only being a verb. That is, the business is not a thing or noun. Instead, the business is simply an action (i.e., a verb) that an owner does. When a business remains a verb, it and the owner are one in the same. Thus, no portion of the business can be traded as equity ownership in exchange for needed capital because a business owner cannot sell a portion of his actions. Additionally, the owner is personally and fully liable for all of the business’ actions and liabilities.

When an entrepreneur instead registers his/her new or existing business as a legal entity, the business becomes a noun, and any portion of that business (the legal entity that is separate from the owner) can be sold or traded in exchange for equity. Formalizing one’s business also enhances its legitimacy and brand to most stakeholders including customers, lenders, investors, and key recruits. Additionally, formalizing a business secures the right to use court services to settle disputes, and police and emergency fire services without reparation. Chen (2012) summarizes these benefits as providing: access to finance and market information; access to public infrastructure and services; enforceable commercial contracts; limited liability; clear bankruptcy and default rules; access to government subsidies and incentives including procurement bids and export promotion packages; membership in formal business associations; and access to a formal system of social security.

We ask: Do trade-offs differ among entrepreneurs who operate in the informal economy in the U.S. relative to those who operate in the informal economy in Africa? Africa is an enormous, multifaceted, and highly diverse geographic area that consists of many countries. These countries vary drastically from each other in many ways including climate, religion, culture, political system, language, ethnicity, infrastructure development, and legal/regulatory environment. Research efforts to identify specific barriers and opportunities that relate unilaterally to the region are scant. Thus, literature available on African countries typically focuses on some smaller subset of countries. Nonetheless, some generalizations have been identified in the literature.

2.4 Entrepreneurship Education in Africa

Africa is a very young population with nearly 60 percent of its people estimated at younger than 25 years. Only one in four children receive a secondary education, and less than five percent of these receive any type of vocational training (Kshetri, 2011). Entrepreneurship education could provide a helpful addition. DeJaeghere and Baxter (2014) point out, however, that much of the entrepreneurship education currently in Africa consists of necessity-driven training aimed at creating micro-enterprises and livelihood options aimed at getting out of poverty. In contrast, opportunity entrepreneurship education there would more so be aimed toward broader business and economic development. But such improvements rely on national and local governments cultivating the necessary conditions for youth to succeed in entrepreneurship. Otherwise, necessity entrepreneurs will fail as they transition into competitive and struggling marketplaces (DeJaeghere & Baxter, 2014; Libombo & Dinis, 2015).

2.5 Perceptions of Entrepreneurship in Africa

In general, people in West Africa value being an entrepreneur (Amine & Staub, 2009; Kiggundu, 2002; Rheault & Tortora, 2008). Yet, negative perceptions also exist. Many in Africa including some governments believe that being self-employed in a small enterprise equates to being unemployed (Amine & Staub, 2009). Given that West African countries are primarily collectivist societies (Hofstede, 1983) others believe that entrepreneurial status creates a duty that an entrepreneur share his/her income with extended family members and others when needs arise. This belief and practice is seen as negatively disadvantaging one’s business performance, and for many, it serves as a deterrent to business ownership (Kiggundu, 2002).

Some West African entrepreneurs even relocate their businesses away from their hometown because of fear of the business becoming encumbered with family members (Robinson et al., 2009).
Further, especially in rural areas, there is a strong incidence of belief in witchcraft where sorcerers provide blessings, curses, and protection. Amine and Staub (2009) explain the widespread belief that entrepreneurs who are perceived as shirking their expectations to support extended family members through hard times may risk becoming the object of a curse. This fear likewise discourages some potential entrepreneurs from actually venturing into entrepreneurship.

Loyalty to such strong ties is also causally linked to fewer innovations coming from African businesses than from those in other more developed countries (Robinson et al., 2009). In the case of Ghana, there is a tendency for entrepreneurs to employ family members rather than more qualified applicants which likely result in a workforce that is less creative and lacking independent thinking (Robinson et al., 2009). Additionally, Robinson et al. (2009) show that people in Ghana view and treat older people as wiser and more knowledgeable. These tendencies serve to counter creativity and innovation by younger minds in favor of the more conventional wisdom of older people.

2.6 Women and Entrepreneurship in Africa

While there is a general sense among Africans that entrepreneurship has value and is regarded favorably, there is also a strong negative attitude toward women entrepreneurs at the community level (Amine & Staub, 2009; Rheault & Tortora, 2008). Amine and Staub (2009) provide a detailed explanation on many systemic barriers that women in Africa face in trying to become entrepreneurs. So while many exceptions exist where African women are making huge strides and becoming successful global entrepreneurs, the bulk of women-owned businesses in Africa are informal economy firms, formed out of necessity, and small-scaled enterprises (Amine & Staub, 2009; DeJaeghere & Baxter, 2014).

2.7 Political Environment in Africa

Throughout much of Africa, government and the private sector share the factors of production. Therefore, in these mixed economies the governments are the largest employers since they have nationalized many of the nation’s firms. Governments also control large portions of countries’ national resources (Kshetri, 2011; Mvunganyi, 2010).

African entrepreneurs in Africa compete with many ethnic migrants from outside regions who have moved to Africa in search of entrepreneurial opportunities. These non-African immigrants typically possess more formal education and better business networks, and are therefore able to establish competitive advantages over indigenous black entrepreneurs there. As a result, these non-African immigrant entrepreneurs stake out strongholds in certain markets, and create restricted access to those markets by prospective local African entrepreneurs (Amine & Staub, 2009).

Kshetri (2011) explains that these types of activities in Africa from foreign firms come at the expense of local entrepreneurs. Citing an example from illegal-fishing.info (2007) where thousands of fishermen on Africa’s coast have lost jobs, Kshetri (2011) argues that the political process in a given country has a built-in bias that favors organized groups and industries compared to those that are unorganized (Mitra, 1999, as cited in Kshetri, 2011). Because most African countries do not have large and organized local commercial fishing industries to pressure their governments, outside organized groups and industries out lobby the local African groups to enact laws and policies in the outside groups’ favor, and to the local citizens’ demise (Kshetri, 2011).

2.8 Regulatory Environment in Africa

Africa creates fewer new firms than any other region in the world (Klapper & Love, 2010; Munemo, 2012). Regulation is largely to blame. In Sierra Leone, for example, formal firms often pay as much as three times their profit in taxes. In Angola, the procedures to formalize a business often take 1,000 days or more (The Economist, 2006). These examples illustrate why many entrepreneurs throughout the continent strategically remain small and informal (Fadahunsi & Rosa, 2002). In response, many African countries are attempting substantial business entry reforms (Atchoarena & Delluc, 2001; Kent & Mushi, 1995; Okpara & Wynn, 2007). Some governments have even given small
business owners the option to pay for a license that allows them to do business, while also remaining informal when it comes to paying taxes (Amine, & Staub, 2009). Most African countries also lack strong protection for property rights (Mbaku, 2007) in spite of available knowledge that developing economies cannot reach their economic potential without the ability to ensure impartial enforcement of contracts (Olson, 1996; Sievers, 2001).

2.9 Entrepreneurship and Corruption in Africa

Corruption causes a tremendous and detrimental impact on economic growth (Svensson, 2005). In Africa, corruption is identified as a major impediment to entrepreneurship (Goedhuys et. al., 2016). World Bank enterprise survey data (2015) shows some African countries are ranked 2nd in all categories behind Asia for corruption activity and its impact on factors that influence entrepreneurial growth.

2.10 Digital Divide in Africa

Accessing technology is a critical determinant to entrepreneurial success. Murthy et al. (2015) show that recent internet access by countries in Africa is enormously low, and that the observed digital divide is continually widening. In spite of this divide, however, explosive internet connectivity is occurring in some countries on the continent. Nigeria is leading the charge in millions of new internet users. Kenya, Madagascar, Malawi, Mali, Sudan, and Tanzania are some of the other top ten countries in millions of new internet users on the continent (Muarurua & Jazri, 2014). Sadly though, this sudden increase across the region is also a major cause of an increase in cybercrime there (Krizinger & Solms, 2012). This phenomenon has prompted Oladipo (2015) to explain that cyber-crime is Africa’s next big threat.

2.11 Informal Economy in Africa

The portion of Africa’s economic activity that occurs in the informal economy is listed as 41.3 percent (Schneider, 2005). Although motivations for becoming an entrepreneur is increasingly becoming opportunity-based instead of necessity-based (Kshetri, 2011), a primary reason such a large portion of Africans trade in the informal economy is out of necessity (Schneider, 2005). For many citizens, the informal sector is the only place they can work in order to achieve a minimum standard of living (Schneider, 2005). But as we have presented earlier, excessive regulation is also a primary reason why people trade in the informal economy in Africa. Zimbabwe, Tanzania, and Nigeria contain the largest portion of informal economy activity accounting for 63.2, 60.2 and 59.4 percent respectively of official GDP.

Nigeria contains the largest population size of 182.2 million people out of all African countries, with Tanzania containing 53.5 million residents, and Zimbabwe having 15.6 million (Worldbank, 2015). One study found that 69 percent of potential entrepreneurs in Nigeria would not formally register their businesses, while only 19 percent would (Kshetri, 2011; Rheault & Tortora, 2008).

With a population of 55.0 million, South Africa is considered the largest center of entrepreneurial activities in Africa (Ford, 2009). Along with Mauritius (1.3 million population), Namibia (2.5 million population) and Botswana (2.3 million population), these four countries rank among the world’s top 50 countries in entrepreneurial climate and ease of doing business (Kshetri, 2011; The Economist, 2006a).

1. Findings and Discussion

There are several findings we wish to highlight. First, the findings on corruption in Africa lead us to question whether corruption as language and practice leads to a broadly accepted notion that corruption exists much more so in the region than it actually does. Many practices that are referred to as “corruption” in informal settings are actually similar to actions that are considered license-, permit-, expedite fees-, and other similar collections in formal settings. If any of these practices
are otherwise identical with the exception being the level of formalization among a particular
governing institution or person, then this phenomenon currently conceptualized as corruption
should be shed in a different light.

Consider any country in a least developed nation that has government bodies spread
throughout the country. The degree of formalization and centralization of many of its government
practices and procedures may be far less formal than those same practices and procedures in highly
developed nations. Thus, the only difference between some of that which is considered corruption in
Africa, and which is broadly accepted as legal and legitimate in developed countries, may simply be
a matter of language. If some activities in Africa are no different than a city comptroller or cashier in
a small city in the U.S. performing the same action, except in a formal manner, then the implications
to the broadly accepted notion of Africa being highly corrupt could be substantial.

Second, the findings and statistics presented above on the informal economy in Africa reveal
an interesting story when population sizes are factored into consideration. The combined
populations in 2015 of the previously presented top four countries in Africa based on entrepreneurial
activities, Mauritius, Namibia, Botswana, and South Africa amount to one-third (33.5 percent) of
Nigeria’s total population (Worldbank, 2015). If 69 percent of potential entrepreneurs in Nigeria’s
population go on to operate in the informal economy, then this number of informal economy
entrepreneurs likely far exceeds the total number of entrepreneurs in all four of the top African
entrepreneurial countries. It is also quite conceivable that the number of informal economy
entrepreneurs in Nigeria may also exceed the total combined population in all four countries as well
(See Table 1).

| Top Informal Economy Countries in | Population in 2015 |
|-----------------------------------|--------------------|
| Tanzania                          | 53,470,420.00      |
| Nigeria                           | 182,201,960.00     |
| Zimbabwe                          | 15,602,750.00      |
| Total                             | 251,275,130        |

| In World’s Top 50 Entrepreneurial | Population in 2015 | % of Nigeria’s Population |
|-----------------------------------|--------------------|--------------------------|
| South Africa                      | 55,011,980.00      | 30.2%                    |
| Namibia                           | 2,458,830.00       | 1.3%                     |
| Botswana                          | 2,262,490.00       | 1.2%                     |
| Mauritius                         | 1,262,610.00       | 0.7%                     |
| Total                             | 60,995,910         | 33.5%                    |

Table 1: Population per Top Entrepreneurship Countries in Africa

Nigeria’s population size in 2015 is nearly three-fourths that of the U.S. white population
(73.52 percent), and is four and one-quarter times larger than the U.S. black population (426.2
percent). Nigeria’s population is more than half, 56.7 percent, that of the total U.S. population (U.S.
Census, 2015). Given the enormous size of Nigeria’s informal economy (approximately 60 percent of
official GDP) we can surmise that self-employment and entrepreneurship are tremendously prevalent in that country.

Even after considering the number of micro-enterprises in the country, with such a large population size, the number of entrepreneurial firms larger than micro-enterprises may also be substantial. Certainly, empirical investigations in this area will yield interesting results that are likely hidden among mainstream research. Similar investigations in Tanzania and Zimbabwe may also yield surprising and interesting results relative to other regions around the world, including in \textit{OECD} countries.

These statistics help shed light on a particular angle not well-discussed in the entrepreneurship literature: While the state of African entrepreneurship can benefit from improvement, it may not be as dismal as it currently seems, especially to outsiders. Researchers can likely learn from insiders who are privy to a different and more complete perspective on African entrepreneurship and thereby help to minimize any possible distortions and omissions. Implications of minimizing such distortions are many. Some are discussed later in this paper.

Third, earlier in this paper, we questioned whether any trade-offs between the advantages and disadvantages of operating in either the informal or formal economy differ among entrepreneurs in the U.S. compared to those in Africa. From the findings above on Africa, we now expand our list of trade-offs (See Table 2). We believe Table 2 can serve as a helpful teaching tool to expose entrepreneurs to some of the hidden benefits and costs that accompany their choice of \textit{in which economy to operate}. Table 2 shows that the choice to operate fully in the formal economy carries 15 advantages, compared to only 6 advantages for choosing to operate fully in the informal economy. Note that the opposite form of each advantage serves as a disadvantage for the counter choice. Solely from a quantitative perspective the choice to operate in the formal economy far surpasses the informal economy choice. Though we do acknowledge that this analysis weights all trade-offs equally. Further studies should assess the relative weights that people making such choices assign to each trade-off.

| Advantages of Formal Economy | Advantages of Informal Economy |
|------------------------------|--------------------------------|
| 1 access to finance and market information | 1 legal barriers to entry are sidestepped |
| 2 access to public infrastructure and services | 2 set up, licenses, taxation fees avoided |
| 3 enforceable commercial contracts | 3 quicker time to launch |
| 4 limited liability | 4 regulation avoided |
| 5 clear bankruptcy and default rules | 5 non-exposed …not targeted for non-business-related expenses (e.g., bribery, extortion). |
| 6 access to government subsidies and incentives, including procurement bids and export promotion packages | 6 “unemployed” and “employed” (dual identity) |
| 7 membership in formal business associations | 8 access to a formal system of social security |
| 9 eligibility for external financing | |
| 10 enhanced growth opportunity | |
| 11 property rights protection | |
| 12 ability to establish a \textit{brick-and-mortar} presence | |
| 13 assets need not remain liquid | |
| 14 business can exist on public registries | |
| 15 undisputedly employed | |

Table 2: Trade-offs of Informal vs. Formal Economy in Africa
2. Summary and Conclusions

This study provides two main contributions. First, it argues and introduces evidence to support that, just as the prevalence of black entrepreneurship in the U.S. is likely understated, so too is the prevalence of African entrepreneurship likely understated. Moreover, given Nigeria’s huge and growing population size, our study suggests that the number of entrepreneurs in Nigeria may exceed that of many other countries throughout the world. Kenya, Tanzania, Zimbabwe, Ghana, Sierra Leone, Zambia, and others may be similar.

The second contribution is that this study shows that there are many more advantages to operating in the formal economy than there are to operating in the informal economy. Educators can use our typology in Table 2 to highlight some of these hidden aspects to people who will be confronted with this choice. This study also argues that “corruption” as language and usage may serve as a barrier to connecting entrepreneurs in Africa and outsiders who may be seeking people and places to partner with for entrepreneurship. We believe that if people more critically control for regional behaviors, they will find more grounds of commonality than otherwise obvious. Nonetheless, the need to minimize corruption and regulation for new and existing entrepreneurs to increase formal economy entrepreneurship is supported in also this paper.

3. Policy Implications

Policy-makers should implement strategies to minimize distortions on entrepreneurship across the African region. For Nigeria, these strategies should include articulating, conveying, and leveraging the large competitive advantage that Nigeria offers in terms of entrepreneurship capital. The way Nigeria is captured in the global entrepreneurship and economic literature versus the way it actually is likely differs. Potential outcomes to minimizing such distortions are many. First, a more favorable environment for FDI may be revealed. This change could encourage Africa’s foreign trade partners to participate more strategically in helping to create the types of institutional, legal, and regulatory environments that attract sufficient FDI. Second, a more accurate assessment of entrepreneurial intentions, propensity, and activities may entice investors to look more favorably at social, micro-, and entrepreneurial investment opportunities in the region. Third, given Africa’s enormous entrepreneurship human capital, external private foundations may view the entrepreneurial opportunities in partnering with Africans in an increasingly favorable light. Fourth, entrepreneurial universities may look more favorably at recruiting prospective African entrepreneurs to study in their programs abroad.

Because of bounded rationality, informal economy entrepreneurs are likely to perceive only the positive benefits of trading in the informal economy. When more complete information is considered which includes the costs of forgoing the advantages of the formal economy, the rational choice seems to favor choosing to operate in the formal economy. Quantitatively, there are 12 advantages and 6 disadvantages to operating in the formal economy. In contrast, there are only 6 advantages in addition to 15 disadvantages to operating in the informal economy. Recall that the opposite of each advantage is a disadvantage for the opposite choice. Hence, 15:6 yields a much better ratio than 6:15. We therefore believe that education policies promoting awareness of these differences to current and prospective entrepreneurs will yield tremendously positive results.

Governments, academicians, and researchers should investigate the language of corruption, considering the broader political interpretations and implications of its usage. If an outside group such as investors, co-members in a multi-nation organization with regulatory oversight, or larger trade partners, learns that a nation collects license, permits, expedite fees, and other forms of taxation, but that it does so in an informal manner, the potential for interpretational distortions are substantial.
4. Limitations of Study

One limitation to this study is that there is no such thing as a one-Africa as a research subject. Africa is extremely rich and diverse in social and political culture, geography, religion, and business contexts. Much more in-depth and country-specific research is needed, versus treating Africa as a singular research subject. An additional limitation to our work is that we do not consider qualitative nor weighted values in our analysis of trade-offs.

5. Future Research Recommendations

We have identified several research directions that should help advance knowledge in this very important area of advancing entrepreneurship models in Africa. First, future research studies should survey informal economy entrepreneurs to identify weighted averages that these entrepreneurs assign to each trade-off. Research should also identify if any patterns exist among the weights as people change from one economy to the other, or among people who trade simultaneously in both economies. Second, research should investigate the actual number of micro-enterprises versus non-micro-enterprises in countries such as and similar to Nigeria, Tanzania, and Zimbabwe with high informal economy activity. Third, research should investigate how informalization moderates or mediates corruption. Fourth, research should investigate if additional hidden entrepreneurial competitive advantages exist in other African countries. Fifth, research should investigate best practices for decreasing regulation in a manner that attracts informal economy entrepreneurs in Africa to the formal economy. Sixth, research should investigate if “corruption” is used as a political language tool for Africa. Our seventh and final recommendation is to investigate ways in which entrepreneurial education programs in outside countries can partner with informal economy entrepreneurs, students, and other entrepreneurs to create entrepreneurial solutions to regional, international, and global problems.

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