‘I Don’t Trust the Phone; It Always Lies’

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Abstract

Despite its importance in African enterprise, the issue of “trust” is absent in information and communication technology for development scholarship. This paper takes a look at three case study subsectors of the Tanzanian economy to shed light on some of the complexities surrounding the sudden interface between traditional, established communication and the increasing use of new information and communication technologies (ICTs). It seems from the case studies that while mobile phones are indeed creating new forms of network in the twenty-first century, they are still far from being Africa’s dominant form of network as Støvring (2004, p. 22) contends. The case studies reveal the overlap between social interaction and business in an African economy. Trust emerges as a common theme, and I discuss how important an issue it is in relation to the new form of communication that ICT provides for entrepreneurs in Africa. I suggest that, in relation to ICT in developing countries, trust might at this stage be separated from the more slippery concept of social capital that it is frequently associated with elsewhere. I then reflect on the implications of this for future research into ICT and its business and non-business applications in developing countries. I conclude by suggesting that the need for direct,
personal interaction through face-to-face contact – a traditional pre-ICT aspect of African business culture – is unlikely to change for some time.
Introduction

The uptake in Africa of new information and communication technologies (ICTs) in the form of the internet and, especially, mobile phones, has been tremendous. Few technologies have been so widely embraced by Africans over such a short period of time; this, in turn, has spurred much interest in the potential of mobile phones as a driver for development (DOI, 2001; UNDP, 2001; World Bank, 1998), primarily in terms of aiding enterprise. Unfortunately, much research looking at the use of these technologies focuses on the supply side and is either based on anecdotal evidence (that is of little analytical value) or centres on reports of often unsustainable donor projects that fail to represent typical situations for many ICT users. While the Commonwealth Telecommunications Organisation has recently completed a thorough study looking at the economic impact of telecommunications and poverty reduction across three developing countries (Souter et al., 2005), its findings are largely based on quantitative data and serve to feed what James (2005) regards as a voluminous yet fragmented ICT for development literature. The literature lacks qualitative research that looks in detail at different subsectors of the economy and assesses how individuals are managing to interact with other entrepreneurs now that new methods are available for obtaining information, and communicating. In particular, there has been little work done on the shape of interpersonal networks and the resilience of face-to-face communication in the light of these new technologies (Adeya, 2005, p. 10).

This paper presents qualitative results from 15 months of fieldwork, during which I sought to trace how ICT is being integrated into Tanzania’s existing business culture. In so doing I consider the changes this had brought to the ways in which individual
entrepreneurs are making money, and I consider a basic but important question relating to trust: how important an issue is trust in relation to the new form of communication that ICT enables? I then reflect on the implications of this for future research into ICT and its business and non-business applications in developing countries. I begin by outlining the growth in access to ICT across developing countries, and accounting for the importance of trust in networks of knowledge-sharing among micro- and small enterprises.

**Growth in access to ICT across developing countries**

Gloomy predictions of the impending Fourth World of structurally irrelevant ‘black holes of informational capitalism’ (Castells, 1998) did not anticipate the privatisation of the telecommunications industry (Nielinger, 2004) across much of the African continent. Nor did they anticipate the subsequent large-scale investment in ICT infrastructure in developing countries by domestic entrepreneurs who are working with international companies to serve an untapped market hungry for mobile phones and internet access. Africa’s mobile market, for example, has grown on average by 60% over the past 5 years. Dubbed “the least wired region in the world”, the continent now has the highest ratio of mobile to total telephone subscribers on the planet (ITU, 2005). Telephony is now available for the first time to hundreds of millions of people in developing countries; even in the lowest income areas people now own handsets, and can privately subscribe to receive services from mobile phone operators. Many others use public access points such as phone kiosks that frequently crop up wherever coverage is available. Growth in telecommunications connectivity has allowed for wider access to the internet in Africa although, in general, those who take advantage
of these services still tend to be the urban, educated elite (Mercer, 2006; Molony, 2005; Mwesige, 2004; Souter et al., 2005).

While Africa will probably still remain largely irrelevant to the global economy for some time, the recent boom of a reliable ICT infrastructure in many African countries marks a massive improvement in the transformative potential of these information and communications technologies (Molony, 2006). In much of the literature emanating from multilateral agencies that emphasise ‘knowledge societies’ (e.g., UNDP, 2001; World Bank, 1998, 2000), this increase in uptake does indeed provide the opportunity to access international markets. At the domestic level ICT allows for micro- and small enterprise (MSE) operators to have more reliable communication and access broader sources of information than ever before. There is a growing body of literature (e.g., Donner, J., 2004; Jagun, Whalley, & Ackermann, 2005a; Molony, 2005) that shows how MSEs, a hugely important source of income and labour for many Africans (Biggs & Srivastava, 1996; Commission for Africa, 2005, p. 239; Rogerson, 2001, p. 115; World Bank, 2004, p. 39), have taken up mobile phones with vigour.

**Networks for knowledge-sharing and trust**

To MSE operators who have access to it, the massive growth in information that ICTs are making available in Africa and other developing regions calls for caution over the challenge of accessing and understanding the codified knowledge of others (Stiglitz, 1999). A central tenet of post-Fordist discourse holds that rapid technological change requires lifelong learning – it entails the need for workers to regularly ‘retool’ their minds (Reich, 1991). This ties in with flexible specialisation theory, which is characterised by an emphasis on networking and enterprise relationships (King &

“Network” in relation to MSEs in developing countries is a term that is widely used but rarely defined. In the diverse literature that this paper draws upon, the use of the term can be relatively straightforward, such as a “local”, “national” or “international” network, referring to the geographical reach of the people who interact with each other. Even this example is problematic. If a woman in a rural Gambian village has a businessman acquaintance in Australia who she occasionally trades with, it is questionable whether her more local business contacts in the same Gambian village are part of an international network by association.

Of course both the Australian and the Gambian will be in multiple networks, and networks can therefore overlap in terms of membership with some contacts being in the more than one network. Their interaction may be as part of an “interpersonal” (sometimes taken to mean “face-to-face”) network, and/or can be “online”. (This nearly always refers to the internet and rarely the telephone, despite widespread recognition that the mobile phone is a far more commonly used ICT in developing countries.) The network can then be “formal” or “informal”, depending on whether it is recognised by the authorities (be they local, national or international), and may variously be “organisation”, “enterprise”, or “work”-related.

In relation to MSEs in Africa, the “entrepreneurial network” is perhaps the most unclear of the typologies given that there is often a crossover between the “work” and
“social” networks. Even though social networks may not always lead to sustainable economic growth [Meagher, 2006], it is recognised that they can play a role in businesses where states and markets are weak [Nadvi, 1991; Pedersen, 1996; Stiglitz, 2000]. In geographical proximity to the research on East Africa presented here for example, King [1996] has documented the collective efficiency of Kenyan informal sector manufacturers in Nairobi. Tripp’s [1997] exploration of petty trade and informal businesses in Dar es Salaam demonstrates the economic (and political) importance and influence of “co-operative” networks for MSEs.

These studies are typical of many others that frequently refer to “networks” but do not put their finger on exactly what they mean by the term. In general network is applied in studies of socio-economic interaction to mean just that: socio-economic interaction. For the purposes of this paper it is helpful to offer a concrete working definition. Drawing on the influence of work discussed later by the likes of Granovetter [1985], McCormick [1996] and Lyon [2000], my working definition of a network is: ‘a face-to-face or distance relationship based on a mutually beneficial association between three or more individuals’. It may therefore be applied to both business and social interaction.

When compared with the great advantages that some enterprises have derived from networks in other parts of the world (Liedholm & Mead, 1999), the evidence that such networks have been beneficial to Africa is weak. A lack of trust between collaborating enterprises – a ‘neglected resource’ in enhancing the competitive advantage of clusters or networks (Humphrey & Schmitz, 1998, p. 57) and a critical aspect of network relations [Malecki, 1991] – is largely to blame. In contrast to the enterprises
covered by international literature, African MSEs are considered to be incapable of reaping the benefits of joint action, because they are distracted by issues of establishing and maintaining trust (Barr, 1999; Fafchamps, 2004; Ishihara, 2003; McCormick, 1999b; Parker, 1994; Pedersen, 1999), particularly trust over money and cash (Lyons & Snoxell, 2005).

Trust refers to ‘expectations about the actions of other people that have a bearing on one’s own choice of action when that action must be chosen before one can monitor the actions of those others’ [Dasgupta, 1998: 51]. It can operate at the minimal (or ‘institution-based’) and extended (or ‘long-term co-operative’) levels (Humphrey & Schmitz, 1998). Minimal trust is concerned with the fulfilment of explicit promises required for basic market transactions, and must be in place for extended trust to develop. Extended trust is created when relationships require more complex interactions and inter-dependencies such as those found in supply chains and clusters. It is hampered when the institutional foundation for minimal trust is not in place. The difference between the two is one of degree. Minimal trust is a necessary but not sufficient condition for the formation of long-term (hence ‘extended’) commitment to a relationship.

Much of the lack of trust among African MSEs has been attributed to the uncertainties created by an economic environment in which poorly functioning legal and judicial apparatuses regularly fail to sanction contracts (Murphy, 2002). This can be because institutional practices are so complex that respective legal frameworks cannot cover all contingencies; no formal system of contracts exists in the first place; or, when they

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1 Recent findings from Lyons and Snoxell’s (2005) research of informal traders in Nairobi do show the need and ability for trust in other areas.
have been exploited or maltreated people lack the contacts and know-how needed to transform theoretical laws into practical, protective measures. Since ‘organisational networks’ (Karlsson & Westin, 1994) are defined by contractual relationships (usually characterised by forward, backward and horizontal linkages) that require an accessible legal system, entrepreneurs therefore tend to shun the shifting alliances that ‘weak ties’ demand and that involve thin impersonal trust with strangers. They rely, instead, on what Granovetter (1985) calls ‘strong ties’ based on ascribed or earned trust developed over long periods of time. This type of trust is located in more personalised relationships embedded in ‘entrepreneurial networks’ (McCormick, 1996) that are social in nature (Lyon, 2000, p. 664), and which facilitate more than the informal enforcement of contracts (De Haan & Quarles van Ufford, 2002). These relationships also allow for the sharing of information regarding prices, market conditions, and contacts, thereby leading to new business opportunities (Barr, 1998; Duncombe & Heeks, 2001, p. section 4; Fafchamps, 1999, 2001; Fafchamps & Minten, 1999; Murphy, 2002).

**Social capital**

Taken together, trust and networks create social capital (Barr, 2000, p. 539) – those social aspects of economic activities that essentially boil down to ‘who you know’ or, ‘what ordinary language calls “connections”’ [Bourdieu, 1993: 32]. Some believe that these connections comprise a resource that can be mobilised when required. James Coleman (1988), for example, has argued that social capital is consciously developed and used to establish a framework to be drawn upon when the need arises. Both Pierre Bourdieu and James Coleman emphasise the importance of ‘the potential benefits accruing to actors because of their insertion into networks or broader social structures’
By contrast, Robert Putnam, another of the concept’s leading exponents, regards social capital as social networks and their associated reciprocity (1995; 2000), implying that it is both the network and its by-product. Overall, social capital can be seen as the glue holding together co-operative economic relationships; it is the social interaction that underlies all such activity and, simultaneously, serves economic, social and political functions (Szreter, 1999).

Social capital can also serve a geographical function (Mohan & Mohan, 2002). For example, Fergus Lyon’s (2000) study of networks in Ghanaian agriculture highlights the extra-economic, cultural expectations that underlie trusting relationships. These include ‘community’ conceptions of reciprocity and obligation. In their study of gender and ethnicity in Trinidad, Lloyd-Evans and Potter [2002: 8] emphasise the role that community loyalty, along with trust and patronage, play in supporting local salient networks that parts of the informal sector are built on in developing countries. Here, they note, informal entrepreneurship provides a salient starting point from which to study how social capital underpins the living standards of the poor.

Some posit that the rise of the social capitalist paradigm has actually turned social networks into a concept that conceals more than it reveals. In an article that explores the role of social networks in businesses across Africa, Kate Meagher [2005; 2006] argues that the essentialism and cultural determinism of social capitalist perspectives have distorted our understanding of the continent’s informal economies by conceptualising networks as ‘social capital’, to the extent that they tend to portray them as ‘social liabilities’ if they fail to promote economic efficiency and accumulation. Not only does Meagher direct attention to what she persuasively argues
are the more institutionally-sensitive network perspectives of ‘legacies, linkages and localities’, she also offers a welcome break from the ‘sack of analytical potatoes’ (Fine, 2001, p. 191) that those interested in social capital are forced to peel through in order to make sense of the literature.

To be fair, social capital is still in the early stages of serious empirical investigation and we have yet to form a sense of its boundaries (Field, 2003, p. 137), especially given that researchers from disparate disciplines add to and increase the confusion of what has been described as the ‘chaotic conception’ (Warde & Tampubolon, 2002, p. 177). Yet the risk is that if researchers continue as Ben Fine (2001, p. 192) puts it, ‘adding one more damned variable’ without acknowledging that as a result the other elements to which the contextual is added ought to be critically rejected or reconstructed, we are left with much rich data that is useful for a particular locale, but cannot be generalised. Given the multiple interpretations surrounding the concept of social capital, I suggest that at this stage it is more helpful to concentrate on one of its less problematic, but certainly important, associates in African entrepreneurship: trust.

Social capital in developing country telecommunications

Social capital, let alone trust, is largely missing from telecommunications and development studies scholarship (Jagun, Whalley, & Ackermann, 2005b, p. 22). Contributions in this area are heavily biased towards the internet (e.g., Norris, 2003) and its use among development practitioners (e.g., Rohde, 2004). They call for a degree of “analytical scepticism” towards assertions advocating the deployment of ICT for creating social capital (Pigg & Crank, 2004), and suggest that whatever the relationship between online networks and social capital, studies of these phenomena
are still too much in their infancy to reach any useful conclusions. Less research has been done on economic actors operating outside the aid industry. No work appears to have been published specifically on trust and ICT in developing country enterprises. Some work on the use of mobile phones and social capital in sub-Saharan Africa has been conducted by James Goodman. His most recent work for Vodafone concludes that in South Africa and Tanzania mobile phones are used mostly in strong links (family and friends), but also in weak links with others outside the community, including businessmen (Goodman, 2005, p. 59, 63). Recent much larger multi-country studies (Miller et al., 2005; Souter et al., 2005) also show that the telephone is used extensively to maintain social networks [Molony, (forthcoming September 2007)]. Souter et al’s research suggests that telecommunications can help in enabling producers, intermediaries and consumers to increase information about the availability and price of goods, thus enhancing market performance. Crucially, the study recognises that “the ways in which it does are much more complex than the rather naïve suggestions which are sometimes made that it enables producers to ‘bypass intermediaries’” (Souter et al., 2005, p. 115). Unfortunately, these studies provide little analysis of the relationships between those entrepreneurs who are using ICT to share this information.

The following discussion takes Tanzania (one of the countries surveyed by Souter et al) as an example of an African country in which ICT are increasingly being used in business. Using the data from a series of in-depth, semi-structured interviews I briefly show how entrepreneurs use mobile phones and the internet to facilitate their day-to-day business pursuits. In doing so I shed light on some of the complexities surrounding the sudden interface between established “social integration” and the
newer “system integration” (Giddens, 1990, p. 18) – between traditional face-to-face contact and the contact at a distance that ICT now enables. I consider a basic but important question: how important an issue is trust in relation to the new form of communication that ICT enables? I then suggest what implications of this are for future research into ICT and its business and non-business applications in developing countries.

Methodology

The analysis is based on fieldwork undertaken over a total of 15 months in 2002 and 2003. I followed entrepreneurs and their contacts, operating in different locations throughout the country, in order to trace out their business networks. The study covers three sub-sectors of the Tanzanian economy: domestic perishable foodstuffs marketing; the urban informal construction industry; and the domestic trading and export of African blackwood carvings. A subsector approach was used to ensure that I was exposed to a spread of the enterprises linked to the product and services within these case studies, from supply to production to distribution. The subsector approach is concerned with following networks (Buckley, 1998; Kantor, 2000), and so offers the opportunity to examine entrepreneurs’ communication channels and their use (or non-use) of ICT in their business interactions. The decision to use multiple case studies in different geographical areas was taken with a view to further the generalisability of my findings and so to gain a better representation of the national, macro picture of the use of ICT in MSEs. My sample of entrepreneurs show MSEs to be a differentiated category by taking into account business that is: itinerant and sedentary, urban and rural, niche and market-saturated, and domestic and export, along with differing degrees of business formality.
Entry to the case study was gained through a gatekeeper in each subsector, who then introduced me to other traders who had links to their suppliers throughout the county. I started semi-structured interviews with the Dar es Salaam-based traders. A small number of pilot interviews were performed, first with friends and then with key informants. These proved useful in calling to mind new questions and in getting an idea of which questions were unclear and required re-wording. Pilots interviews gave a good indication of how long future interviews would take, and provided a good setting to work on Chambers’ [1998, p. 202] advice that sitting, asking, and listening are as much an attitude as a method. They also allowed me to try to learn my questions by heart and to practice what Trulsson [1997, p. 51] has described as a ‘funnel technique’, which begins with wider issues and then hones in on more detail.

After refining this process I then radiated outwards along the marketing chain, physically tracing my primary informants’ contacts throughout the networks of the subsector. In this respect my sample was essentially developed through “snowballing” because it relied on some regular contact (through repeat interviews) in informal settings, and built up bonds of trust and friendship to make possible access to new contacts. These contacts who were selected by the last informant were not always individuals who use ICT (even where coverage is available), which made contacting them more difficult. Nevertheless, it did ensure that my sample was more representative of those who for whatever reason have not adopted these technologies. I also avoided sticking rigidly to only the contacts I was to meet at a particular location in the supply chain, and at times I would diverge from the networks to talk with those I met in various other situations who worked within the subsector. After a
while, therefore, the recommended contacts spread beyond the initial networks of my primary informants in Dar es Salaam, thus countering any risk of only meeting those individuals my primary informants at the point of entry wanted me to meet.

Once I had located the informants whom I had been recommended by previous contacts along the supply chain, I conducted initial, introductory interviews. For the first few months my knowledge of Swahili – though sufficient to ask the questions – prohibited me from understanding much of the replies, and I employed a research assistant to help me with the discussion.2 I was later able to conduct interviews without an assistant. I attempted to take an informal stance by chatting with the farmers, carvers and traders and observing their businesses to get a feel of the environment within which they operate, and an overview of what methods of communication were being applied at their end of the marketing process. With this background I could then build on the ‘obvious questions’ and the trust that these sessions created, to then return once I had created a lengthier, more detailed series of questions to form the basis of a more comprehensive interview. This process was aided by creating subsector diagrams to help visualise the networks I was tracing, to which I added communication channels and methods to map the flows of ICT usage. In subsequent interviews entrepreneurs along the supply chains were then asked to draw their own comparisons between the traditional pre-ICT situation (which they tended to report as much travelling to meet business contacts in person) and the improved ICT access of today.

Perishable foodstuffs

2 See Molony & Hammett [2007] for an exploration of the ethics of financial transactions in researcher-assistant relationships and the ways in which wealth asymmetry can affect the working relationship.
The case study of domestic perishable foodstuffs marketing traces the supply chain of tomatoes and potatoes from the rural farms of Iringa and Mbeya regions in the Southern Highlands to the wholesale market in Kariakoo, Dar es Salaam, Tanzania’s commercial capital. Interviews for the case study mostly took place in March, April and September 2003. I was able to penetrate the network of a small number of wholesalers (*madalali*; sing., *dalali*, literally ‘auctioneers’) with the help of Eliab Chijoriga, a director and foodstuffs marketing specialist at COSTECH who introduced me to Bartholomeo Sanga, Festo Mkilama and Kamwene Sanga. Chijoriga urged these *madalali* to give me the contacts of the farmers who supply to them, and they did so once I had gained their friendship and trust during our preliminary meetings. I then visited these farmers for initial meetings, thereby achieving a complete marketing chain of suppliers and traders whose business dealings I could physically follow in order to track their use of ICT. Much like other studies of traders in Tanzania (e.g., Bryceson, 1993, p. 120), all the farmers and traders covered in this sample turned out to be male. The evidence is based on discussions with 15 tomato and potato farmers, 4 intermediary traders, 5 Dar es Salaam-based *madalali* and various other key informants involved in the trade between the Southern Highlands and the commercial capital.

The working relationship between farmer and *dalali* reveals how important the *dalali* is to the farmer: not only does the *dalali* buy the farmer’s crops but, crucially, he can supply credit to the farmer should he have financial difficulties arising because of poor rains, poor market prices, or the like. From the beginning of their relationship, and while it proceeds, the role that the mobile phone plays is fairly insignificant. When he begins farming and seeks a *dalali* to whom he can supply his crops, the
farmer uses local networks to consult other farmers to find out who they recommend as a *dalali*. This consultation is always face-to-face, as is the first meeting when farmer and *dalali* negotiate terms and agree to do business together. Subsequent meetings occur between the two (usually in Dar es Salaam) to re-new ties, share advice on farming, and in cases when the farmer wants to approach the *dalali* for credit. All this must be conducted face-to-face because, as one large tomato farmer explains, irrespective of location, physically meeting businesspeople is still important:

> For us Africans often an explanation over the phone is not enough even when you've greeted one another. When you see each other again you start afresh, greeting each other again. Likewise in business even if you've talked on the phone a businessman feels like he's not satisfied so he likes to meet face-to-face so you talk and this satisfies him. That's a way to build faith in business. You know nowadays there's so much competition in this business, so we get customers through information. It's imperative to see each other (Berod Mhanga, Ilula Mazomba, 04/09/03).

In using the mobile phone, it is the exchange of supply and demand information that helps the farmer to know whether to divert his produce for minimum profit more locally or risk maximum loss in Dar es Salaam. Because the *dalali* is a creditor he is already in a position of power over the farmer and can use this information to persuade a farmer to supply only him, and to trust him regarding the price he says that he sells the crop for. In such a situation the farmer’s exposure to prices being offered by other buyers can effectively be blinkered, which is the kind of sticky aspect of a real-world business relationship that those promoting ICT to link the farmer and market buyer directly (e.g., England, 2004) would do well to observe. Even when ICT is employed to relay information, and especially information on prices, the reliability
of that information relies on trust. Trust usually requires a face-to-face relationship to develop, as can be seen with the experience of retailers in the next case study.

**African blackwood carvings**

The domestic trading and export of African blackwood carvings case study follows the entire market chain of Makonde carvings (*vinyago*; sing., *kinyago*) from the source of the African blackwood tree (*Dalbergia melanoxylon*) in the rural south-east Mtwara region, to Dar es Salaam, to buyers worldwide. Interviews mostly took place during the months of January-February and July-August 2003 and were conducted with 11 different carvers or carving groups, nine collectors (who supply retailers), and 17 Tanzanian-based retailers.

The idea of studying *vinyago* trade emerged during the first phase of the research after a particularly helpful interview with Hamisi Geddy and Dickson Wiva at the urban retail and export end of the *vinyago* trade, who later introduced me to Mary Shirima in Mwenge crafts village. It was Mary’s suppliers in the township and villages surrounding Dar es Salaam and Mtwara where I then travelled to, and it was Mtwara where I met Philipo Luvale, a former carver who directed me to some of his carving contacts I traced throughout the region. Together these individuals and groups constitute a spread of points along the marketing chain of producers, suppliers and retailers of African blackwood carvings who I could then physically follow in order to investigate their use of ICT.

Many of the rural villages where the carving takes place do not receive mobile phone coverage. The collectors insist that even where coverage does exist (and if the carvers
were inclined to use mobile phones or could afford to), dealing with the carvers
cannot be done over the telephone. The collectors say that they must visit the carvers
personally and spend time with them to ensure that their work is ready at the agreed
time and to the exact specifications of the retailers whom they supply. As one
collector put it, ‘You must see the kinyago – you can't hear it over the telephone’
(Alex Milanzi, Mbawala Juu, 18/07/03). Retailers further down the supply chain also
place much value on face-to-face communication with customers in their shops. As
well as helping to sell items, face-to-face interaction provides them with a chance to
learn about demand. Retailers that I interviewed believe that in Tanzania this cannot
be done effectively by means other than personal interaction.

Where ICT do appear to facilitate relationships in the vinyago case study is with
foreign buyers via a combination of e-mail and SMS (short message service; text).
The case study concentrates on three female retailers who export vinyago and
explores how they have used their local networks to gain exposure to international
vinyago buyers, apparently without the use of ICT since neither technology was easily
available in Dar es Salaam when they were developing these links. These women’s
networks linked them to a friend working at Tanzania’s Board of External Trade, who
put them in touch with donors, who then sponsored them to travel to expositions
abroad where they then accessed buyers in the international market. The women
regard as their best customers these repeat bulk buyers who they meet at expositions
or who visit their craft village on a number of occasions. It is in communication with
these customers that ICT prove to be most useful, not in finding customers (since this
is done face-to-face in Mwenge crafts village or at expositions), but in keeping
customers. For example, Mary Shirima, a retailer who exports, sees e-mail and SMS as,

like being face-to-face with an mzungu [European] in their country, but I am here in Tanzania, ready to find any vinyago the customer needs because e-mail or text is fast. And so [the customers] come to me every time, I am their person in Tanzania and because I have e-mail and it is fast, the customer always uses me and so I can keep my customers (Mary Shirima, Mwenge, 13/01/03).

ICT helps to keep international customers because e-mail and SMS technology helps users receive messages (about obtaining the vinyago for an order, for example) and react swiftly using the same medium. In this respect the ICT is a technology that both customer and retailer employ to ensure that a message is communicated in the most efficient way possible so that both parties can make a profit. It is a cheaper, and usually a more reliable method, of conducting business that was first established when both parties met face-to-face.

Nothing here is particularly novel about the way that these technologies are applied in business dealings throughout Tanzania, between Tanzania and other countries, or between businesses in developed countries. What is new to the use of the ICT by these retailers when compared with their other means of communication is that e-mail and SMS are being used to convey the typically Tanzanian gesture of frequent greetings, allowing them to strengthen their relationship with their customers. Because a text or e-mail is comparatively cheaper, more reliable, and far less hassle than direct calls, fax, or the postal service, retailers can send brief greetings to their
customers in the same way that they visit a colleague or customer in Dar es Salaam.

As one male retailer explains:

I use text or e-mail to greet my customers, maybe every few months, to say “How are you? How is your family? How is business? I hope that you and your family are well.”, these greetings that we have here in Tanzania. And customers like this, I think it makes them remember…how we are friendly and [that Tanzanians] will ask these greetings…and the customers will reply and sometimes they make an order. It reminds them of our friendship (Frank Morenje, Mwenge, 01/08/03).

Justina Matondane, another retailer who exports, also uses the term ‘friend’ when referring to business customers to whom she sends Easter and Christmas greetings by e-mail or text. She refers to these recipients abroad as her ‘customer-friends’, contacts who appear to be international customers that she is friendly with, but who she first met through business. However, she appears to have little social contact with these ‘friends’ other than as buyers that she sends goods to and, occasionally, who she will sometimes meet again at expositions. Justina’s motivation for these greetings is so that the customers will remember her name. In couching the communication in social terms by referring to ‘friendship’ in greeting business customers, it is clear that ICT is being used as a tool for maintaining contact when frequent face-to-face interaction of either a business or social nature is not possible because of the large distances between those using the technologies. The use of ICT among individuals who are in closer proximity and who have more opportunity for interpersonal communication is now considered in this final case study.
Informal construction sector

The construction sector case study analyses the everyday business communication of informal construction workers as they find, secure, and complete their work. The analysis is based on semi-structured interviews conducted mostly from late June to mid-August 2003 with 19 leaders of groups of workers (and one labourer) who comprise groups operating in the informal construction sector of Dar es Salaam, one of Africa’s fastest growing cities (UN-Habitat, 2004). The informants are broadly representative of informal construction workers in the region, their names having been obtained from a sample population of 26,323 workers identified by the ‘Support for Informal Construction Workers in Dar es Salaam’ (‘STICW-Dar’) project with the United Nations Development Programme, the International Labour Organisation and the University of Dar es Salaam.

The 20 informal sector construction workers who were interviewed were chosen from the STICW-Dar project’s sample of ‘leading beneficiaries’. The contacts list gave the group name and in most cases a contact mobile phone number, but no further details. Phone numbers were not provided for 11 (although one was obtained later), two did not answer the phone after repeated attempts, for 9 groups the number was not in operation (possibly because it had expired). One ICW was not interested in being interviewed, citing dissatisfaction with the STICW-Dar project. The leaders described their own primary skill as: carpenter (3); concreter; electrician; engineer; general builder (6); glazier; labour; materials supplier (2); painter; plumber; and welder.

During the semi-structured interview, group leaders were asked to draw their own comparisons between the traditional pre-ICT situation and the improved ICT access of today. These replies, and observation through physically tracing the marketing of
construction services, were then used as empirical evidence with which to assess how work-group leaders communicate with each other in business, and the role that new ICT plays in these interactions.

Within the groups it is often only the leader who possesses a mobile phone that is used for work. This serves as a significant cost-saving device in day-to-day business communication. Of the 19 gang-leaders, 14 pointed out that a significant advantage of mobile phones is that they help cut travelling costs. This was expressed by Imani Sunga, a general builder:

If I travel to the guy who is selling pallets and he’s not got any I can waste money and not make a profit. But if I text him and he doesn’t have any pallets I don’t lose much money, only a few shillings. It’s cheap to text on the phone; it’s cheaper than using a commuter bus. (Imani Sunga, ‘Veterinary’ [sic] area, 06/08/03).

Nevertheless, while it is usually the leader who seeks new contracts for the group, and his mobile phone helps in cutting travel costs, interpersonal communication is crucial. As Strøm (2002, p. 280) suggests in the Philippine context, one reason for this is a matter of supply and demand: there is little incentive for employers to handle requests by phone when there is a surplus of qualified persons willing to physically turn up and offer their services. Another reason (which holds across various sectors in the economy), is that people tend to go to offices in person rather than call them. Many offices are often paper and not computer based, and even if assistance is given immediately it can still require having to wait for relevant paperwork to be found, or for a missing staff member to be located when they have failed to answer their phone.
Although not enough is known about on-site networks, this research (and the work of Mitullah and Wachira (2003)) shows that, off-site, the gang-leader spends time in his informal networks of knowledge. These are similar to the attributes that Granovetter (1973; 1974) identifies in successful job seekers who have widespread but weak relationships, and are associated with his notion of ‘weak ties’ and thin impersonal trust with strangers. These ‘bridging’ forms of social capital (Putnam, 2000) link people to distant acquaintances who move in different circles from their own and fill ‘structural holes’ (Burt, 2001) between discrete groups of people operating in separate social worlds. Leaders’ networks are composed of friends and relatives (not exclusively those in the construction industry) who may have some ideas on where their gangs’ services are needed. The networks are open, with the gang-leader constantly relying on his ‘eyes and ears’ as he listens to conversations in social settings (particularly bars) in order to follow-up on opportunities should they arise, and through much physical searching for emerging work sites. The process of actually winning the contract involves negotiation, during which time the gang-leader’s mobile phone takes a minor role to face-to-face contact. And when a contract is won and the leader needs to discuss pay with his fellow group members, this must be conducted personally. As one group leader clearly puts it:

[The other group members] don’t have phones, and if they did it would be bad to talk money over phone with people I work with.

Why is that?

It’s bad manners (Peter Makoye, Mjimwema, 08/07/03).
Overlap between social interaction and business: the importance of face-to-face communication

This brief analysis of the three case studies reveals the overlap between social interaction and business, otherwise known as social capital – the social aspects of economic activities (Fine, 2001, p. 198). The two are sometimes held distinct in the literature, but this runs the risk of ignoring much business communication that is occurring between ‘friends’. I have shown with Justina, for example, that although she is clearly in a business relationship with her vinyago buyers abroad, she refers to them as ‘friends’. Friendships, whether social or business, are made by face-to-face contact, but are vulnerable to changes in the life-course and strategies of the participants and so require continual reworking (Rose, 1998, p. 3; Seierup, 1994, p. 12).

We have seen the importance of renewing ties in the relationship between farmer and dalali, but even in this relationship ICT is not crucial. The case of Kamwene Sanga, a Kariakoo-based dalali who trades potatoes, shows that it is still possible to operate successfully without using any ICT at all and to rely exclusively on personal interaction. By adopting the ‘outwardly-directed social lifestyle’ (Bryceson, 1993, p. 141) of the mobile intermediary trader, Kamwene has managed to build relationships with farmers and buyers so that they only consider supplying to and buying from him. His success, he believes, is not because farmers are heavily indebted to him or they know of no alternative buyer or seller. Rather, it is because he takes the time to do business with them face-to-face, even when they are unable to come to him. He will not use a telephone because, as he puts it,
I don’t trust the telephone; it always lies. I can tell a farmer to bring potatoes because the price is high, but then when the potatoes are delivered to me [the farmer] complains that the price has dropped. I receive calls at my office but I never call the farmers back…. They ask if they should pack, but when I answer and say ‘Yes, send me potatoes’, then many of farmers send me them, which lowers the price and the farmers then complain to me (Kamwene Sanga, 17/04/03).

Kamwene’s complete rejection of the technology is quite unusual for Tanzanian entrepreneurs of his means in areas where mobile phone coverage exists, and his comment does reflect an issue more with the time delay between communication and delivery of his suppliers’ goods than with the use of the telephone itself. Nevertheless, his overall preference for personal communication does seem to be closer to the way much business is conducted by the majority of ICT-using (largely mobile phone-using) entrepreneurs across the three case studies. These case studies suggest that mobile phones are fast becoming a new form of network in twenty-first century Africa, but they are still far from being the continent's dominant form of network as Stovring (2004, p. 22) contends. This runs counter to evidence that in a variety of developed nations users are shifting their communicative habits to accommodate mobile phones, and in the process undermining long-standing routines and rituals in communication (Katz & Aakhus, 2002, p. 308). In each case study we see evidence that during the course of a business relationship interpersonal communication is often favoured over using ICT, especially where building on the business relationship and where making a deal is involved. (The two main exceptions where ICT is used extensively relate to cost and time saving: either where the information that is being communicated does not warrant being physically present and can save on a local bus fare and time away from the business; or where travel involves prohibitively
expensive trips over a very long distance.) The internet, access to which is growing in
Tanzania, but at a far slower rate than mobile phones, is even further from this
position of dominance over more traditional forms of communication. This may
explain why Mercer (2004, p. 9) has found that the idea of meeting strangers in
cyberspace (a popular motif in much of the literature on cyberspace in developed
countries) holds little appeal in Tanzania.

What appears to make informal networks personal is direct, face-to-face contact.
Face-to-face communication engages all the senses and for this reason has been
described as ‘the richest multi-channel medium’ (Urry, 2004, p. 120) helping to
establish and reproduce trust (Slater & Kwami, 2005, p. 3; Urry, 2002, p. 259). Its
importance in enterprise has been observed elsewhere on the continent and further
afIELD, from *ad hoc* discussions between white Zimbabweans at sports events and
business conferences (Fafchamps, 2001, p. 208) and Kenyan Asians having a casual
conversation at the club, mosque or family gathering (McCormick, 1997, p. 122), to
workers in Singapore’s financial sector who make ‘sites of pleasure in the city come
alive as business institutions’ (Amin & Thrift, 2002, p. 75). Face-to-face
communication is a particularly pervasive feature of African MSE economies
(Dahms, 2001b, p. 9-10; Egbert, 2004; McCormick, 1999a, p. 1532; Mungunasi,
2000, p. 4.1; Trulsson, 1997, p. 132-133). Indeed, it is suggested that personal
interaction cultivated through extensive face-to-face interaction is so highly valued as
the most effective method of business communication in Africa (McCormick, 1998;
Pigato, 2001) that poor enterprise owners will only act upon, and trust, information
delivered on a personal level (Duncombe & Heeks, 2001, p. section 4).
ICT and trust: a changing business culture?

A persistent issue throughout the case studies concerns the trade-off between these new technologies and the challenge of trust. In the entrepreneurs’ eyes, this dilemma might seem to involve a constant decision between the advantage of being mobile with a cellular phone (or with access to e-mail through internet cafés), and so away from aspects of business, and having to trust and rely upon the integrity of others in an environment where being wary of transaction failure is often the most sensible approach. On prices in particular, reliable information relies on trust and this usually requires a face-to-face relationship, even when ICT is employed to relay the information. I have suggested that mobile phones can help farmers with supply and demand information, but noted that this is only so long as there is trust between the two – trust that the dalali is truthful in the price he tells the farmer that he has sold his crops for.

In this respect, mobile phones can be seen as a facilitating technology for existing, trust-based relationships. A possible reason for this is that it may be easier for new telephone users to infer the physical nuances of face-to-face communication from voice communication within more familiar and more trusted relationships (Souter et al., 2005, p. 114). Yet, for many farmers dealing with Kariakoo the reality is that the mobile phone does not alter this trust. There is nothing conclusive from the perishable foodstuffs case study to suggest that the mobile phone itself can actually facilitate the trust relationship between a farmer and his dalali. In the absence of large corporate and governmental institutions capable of dealing fairly with contract enforcement, ICT can count for little minimal trust, let alone extended trust.
Personal exchange based on long-term relationships can help entrepreneurs to use local social networks to enter foreign markets where they have gained the trust of buyers by supplying them reliably over time. I have shown in the case of Justina and Mary. These women now use ICT as a tool to preserve that trust by staying in touch by maintaining contact at a friendly, social level – albeit it at a distance. With the help of ICT, these women are managing to do what Fafchamps (2004, p. 483) argues institutions have failed to do: to move from the personal to the impersonal exchange. This transition remains to be made by formal and informal institutions such as those that ensure credit contract enforcement. In the face of competition from non-African, foreign-based vinyago retailers, these women now have the challenge of dealing with a new wave of foreign customers online who they cannot easily meet personally. This is the challenge many other African businesses will also have to come to terms with as the internet becomes an ever more important global trading tool.

**Conclusion**

I have attempted to tackle the question, ‘how important is trust in relation to the new form of communication that ICT enables?’. The analysis highlights at least three properties of social relationships which impact trust, possibly in cumulative or complementary ways: face-to-face, context rich interactions; multiplex, multi-content, dyadic relationships, which mix business and friendship/kinship functions; and ‘embedded’ or ‘strong’ relationships, where the interaction between the two potential business partners is interwoven into a set of other relationships between third-party friends and kinship members. The evidence suggests that trust, a variable associated
with social capital, is a hugely important issue in the use of ICT among African micro- and small enterprises. However, at this stage I am wary of adding to the confusion of the ‘sack of analytical potatoes’ that combine to form social capital. It is for this reason, and also because the empirical analysis of some of the much-quoted studies of social capital have been called into question (e.g., Durlauf, 2002, on Narayan and Pritchett, 1997) that, as a concept of analysis, I would argue that at times it is useful to completely disassociate trust from the murky waters of social capital. This approach is supported by Lyon’s Ghanaian study (2000, p. 677) which found that while there are difficulties in trying to examine or measure the stock of social capital, much can still be gained from trying to understand how trust is produced. Even if it can be extracted from its relationship with other factors, trust can be regarded as a product of social capital and not as a constitute of it (Field, 2003, p. 137). As with reciprocity, trust does not exist independently of social relationships (Woolcock, 1998, p. 185). There is no harm, empirically, in dealing with trust as an independent factor and leaving out questions of the cause and effect relationship with social capital.

**Research Implications and Implications for Practice**

What are the implications of this for future research into ICT and its business and non-business applications in developing countries? In answering this it is worth noting that there are still aspects of the social capital literature, such as ‘bridging’, ‘bonding’ and ‘linking’ social capital, which may be helpful for future research into the influence of ICT in business interactions, or what has been termed ‘sociotechnical capital’: productive resources which inhere in patterns of social relations that are maintained with the support of information and communication technologies.
Molony, T. 2007. 'I Don't Trust the Phone; It Always Lies: Social capital and information and communication technologies in Tanzanian micro and small enterprises'. *Information Technology and International Development*, (MIT Press) 3 (4), pp.67-83. [Post-print]

(Resnick, 2004, p. 401). As yet social capital – let alone trust – is largely missing from the ICT for development scholarship, so it sometimes seems as though, for all the interest in social *capital* and the potential for developmental impact of ICT, mobile phones seem to be more often put to *social* use than they are explicitly used for the generation of *capital*. In particular, there is a need to better know whether mobile phones play a role in creating and maintaining trust in business outside the family where ‘networks of working relationships’ (Lyon, 2000, p. 671) do not already exist, and where face-to-face relationships are not possible.

Methodologically, a more accurate means of assessing the reported subject matter of communication between individuals could also help in this respect. Although some quantitative surveys do give the chance for interviewees to disclose their various information needs and sources of information, these should be complemented by a series of in-depth interviews in which researchers are at liberty to ask more detailed questions. Such qualitative methods allow a smaller sample of interviewees to be probed but can better capture, as this study has attempted to show, some of the reasons why certain sources of information are favoured over others. Only with multiple, in-depth and semi-structured interviews, for example, did it become clear that some Tanzanian farmers are in a relationship with a *dalali* who is also their creditor and, as such, the *dalali* should not be constantly burdened by the farmer with questions about how much his crops are being sold for; the farmer should just trust his *dalali’s word*. In another situation, only because the interviewer had the flexibility to move away from a pre-set line of inquiry, did it emerge that in certain business dealings it is bad manners to discuss the payment of money over the phone. This, in effect, makes face-to-face communication essential.
A long-term study would be essential here to capture both the continuity of information and communication flows and the changes of entrepreneurs’ networks over an extended period. Call log analysis (as used by Donner (2005)) may be useful in further revealing networks, although future study would also benefit from survey work in communities that do not yet have mobile coverage to see how networks change when mobile phones are adopted for the first time in business. This would help give some pointers as to how the internet could be promoted more widely as a trading tool. Together, such moves would help answer the call (Souter et al., 2005, p. 27) for a strong evidence base to inform policy development if infrastructure and ICT for development applications are to be effective in achieving MDG and other goals. In particular, it would further strengthen our knowledge of the preferred, trusted methods of information and communication flows within communities, and aid dissemination in areas such as agricultural extension and health promotion.
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