



Intercontinental Exchanges Before “Globalization”: The Economy of Pre-Colonial Zimbabwe*

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Globalization and capitalism, which structures current modes of relationships are often traced to the European conquest and colonization of the global south. But long-distance trade, industrialization, and mass consumption have their roots in early interactions. These interactions were often local and regional in scope which however increased in complexity and scale. A focus on long-distance exchange as a prime factor in the rise of socially complex chiefdoms and states has often obfuscated regional economic networks upon which later economic and cultural interactions interlocked (C. Kusimba, Kim, and S. Kusimba, 2017). Based on the review of literature available on trade, this paper argues that regional and interregional trade involving pre-colonial Zimbabwe were forms of globalization which predate international contacts. This paper evaluates the impact of regional and interregional trade to the economies of pre-colonial Zimbabwean societies particularly Great Zimbabwe, Mutapa, and the Rozvi states. A discussion of the contribution of this branch of the economy (regional and interregional trade) to international trade is also presented. Given the nature of the available literature on regional and interregional trade involving pre-colonial Zimbabwe, the paper finally proposes a multi-disciplinary approach to the understanding of this system of trade.

“The role of regional and intercontinental exchange remains very difficult to ignore in southern African antiquity.” Pikirayi, 2017:6

Introduction

Globalization is a process of integration and interconnectedness of trans-regional contacts. Often, these contacts results in an exchange of items, information, and ideas. But when and with what degree do these contacts become a process called globalization? Our contemporary conception of globalization regards this process to be a recent one which began in the 19th century CE. Nonetheless, the approach

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that this paper takes regards contacts, trade, and exchange between different people as globalization. As such, it would be misleading to treat pre-colonial regions of Africa as comprised of the same people. Thus, regional and interregional trade, involving pre-colonial African societies was a form of globalization predating the contemporary emergence of globalization of the 19th century CE.

Despite the above extract from (Pikirayi, 2017) which alludes to both international and interregional trade of Africa, this paper focuses on regional and interregional trade. This paper discusses pre-colonial trade and commerce in the Zimbabwe plateau as proxy for understanding and placing in context the still poorly understood organization of regional and interregional trade. Unlike in contemporary times, political and economic boundaries in pre-colonial Africa were fluid and shifted from time to time. This paper focuses on three main clusters of pre-colonial Zimbabwe namely: the southern, centered around Great Zimbabwe, the western, also known as the Mutapa state, and the northern, which is in the Rozvi state (Pikirayi, 1993; fig. 1). These clusters were political and economic successors to Mapungubwe (Huffman, 2000; Huffman, 2009; Huffman, 2015; Pikirayi, 1993; Pikirayi, 2001; Pwiti, 2005).

This paper deals with the period between 800 and 1700 CE, when socially complex societies were supported by an economy reliant upon agrarian and pastoral practices, from which urbanism, regional, and interregional trade emerged (Huffman, 1986; Pwiti, 2005; Mitchell, 2002). This period coincided with the Zimbabwe Culture, which is characterized by an investment in monumentality and the standardization of craft production (Pikirayi, 2001; Pikirayi, 2013b; Huffman, 1996; Kim and C. Kusimba, 2008). Three distinct phases of Zimbabwe Culture have been identified.

The first phase of the Zimbabwe Culture, and earliest manifestation of socially complex societies in southern Africa, originates at Mapungubwe, which is dated to 1200-1290 CE (Pwiti, 2005; Pikirayi, 2006; Kim and C. Kusimba, 2008; Chirikure, Manyanga, Pollard, Bandama, et al., 2014; Huffman, 2015). By 1200 CE, Mapungubwe had developed into a regional state with its citizens engaged in regional trade networks. However, recent research at Mapela, south-western Zimbabwe, has revealed an older chronology of two hundred years earlier suggesting that Mapungubwe is likely younger (Chirikure, Manyanga, Pollard, and Pikirayi, 2013; Chirikure, Manyanga, Pollard, Bandama, et al., 2014). Nonetheless, the evidence from both sites suggest regional transformations of small scale non-state societies into chiefly and state societies.

The second phase of the Zimbabwe Culture is Great Zimbabwe from 1250-1550 CE (Pikirayi, 2006; Kim and C. Kusimba, 2008). With regards to dry stone walling, the Zimbabwe Culture has mainly two types: terraced walls for platforms and freestanding walls for enclosures (Chirikure, Manyanga, Pollard, and Pikirayi, 2013). The freestanding walls, decorated with a chevron pattern, housed the elite and characterize the Great Zimbabwe phase of the Zimbabwe Culture.

The third phase of the Zimbabwe Culture is Khami, which spans from 1450 to 1820 CE (Manyanga, 2006; Chirikure, Manyanga, Pollard, Bandama, et al., 2014). Khami was part of the Torwa polity. In terms of pottery designs, Khami phase is characterized by bands and panels of black and red motifs (Huffman and Piesanie, 2011; Chirikure, Manyanga,

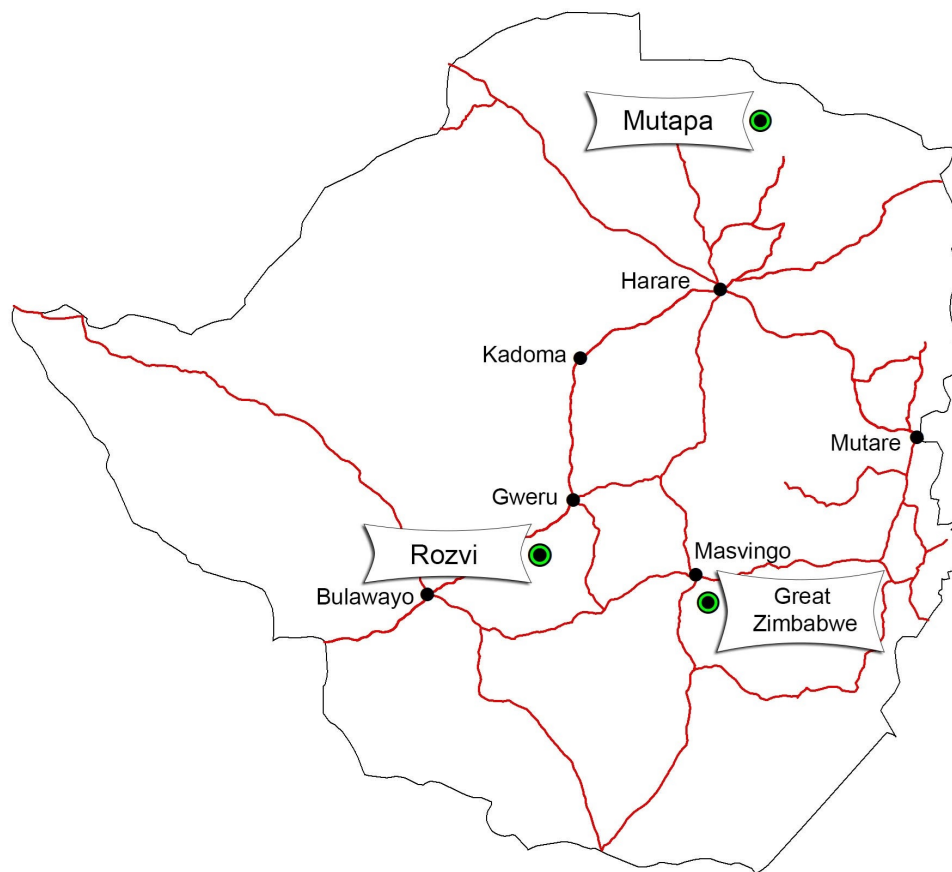


Figure 1: Map showing Great Zimbabwe, Mutapa and Rozvi states

Pollard, and Pikirayi, 2013). In the Khami phase, freestanding walls are rare as the phase is dominated by terraced platforms decorated by a check pattern (Huffman and Piesanie, 2011; Huffman, 2012; Chirikure, Manyanga, Pollard, and Pikirayi, 2013). This herringbone pattern represents chiefs residences (Pikirayi, 2007; Huffman and Piesanie, 2011).

Since regional and interregional trade networks are visible in the Zimbabwe Culture from Mapungubwe phase, the Farming Communities (formerly referred to as The Iron Age) experience was profoundly transformative in the social, economic and political spheres of southern Zambezia (Pikirayi, 2007). This is because as early as 700 CE local networks of trade and exchange appear to be common, intensifying by 800 CE at Great Zimbabwe, and reached their peak by 1200 CE (C. Kusimba, 1999; Kim and C. Kusimba, 2008). Zambezia refers to the regions drained by the Zambezi River and the Zimbabwe plateau (Pikirayi, 2001:3). It covers five countries namely Zambia, Zimbabwe, Botswana, South Africa, and Mozambique (Kim and C. Kusimba, 2008).

The impact of both international and regional trade to past societies is crucial in the understanding of the organization of these societies. The investigation of the importance

of trade to pre-colonial Zimbabwe and beyond illuminates aspects of economic, political, and social organization. Trade relations and exchange between the coast and pre-colonial Zimbabwe is traceable from 700 CE to 1700 CE (Pwiti, 2005). The scale of regional trade is not fully known and estimates suggest it was relatively small scale in the early phases; but by the 1200 CE, long-distance exchange between the coast and inland southern Africa was well established (Pwiti, 1991; Pwiti, 2005; Chiripanhura, 2017). In most works, the effects of regional trade to past societies is undermined and overlooked, while that of international trade attracts more emphasis. Trade whether regional or international, had profound effects to communities of Zimbabwe prior to its colonization.

The aim of this paper is two fold. First, it seeks to understand the role and effects of regional and interregional trade which involved pre-colonial Zimbabwean societies. Secondly, it is geared towards initiating research on regional trade in southern Africa and interregional trade with other regions of the continent. In this paper, regional trade implies the contact of societies of the same region, in this case, societies of southern Africa. Interregional trade, on the other hand, implies contact of societies of different regions but of the same continent, for example trade between southern Africa and central Africa.

Great Zimbabwe

Following the demise of Mapungubwe in 1290 CE, dominance of trade routes shifted to Great Zimbabwe, which became a political, economic, and cultural successor to Mapungubwe (Pikirayi, 1993; Pwiti, 2005; Manyanga, 2006). Great Zimbabwe covered an area of 700 ha making it one of the largest states in Sub-Saharan Africa, built over centuries beginning 900 CE (Sinclair et al., 1993; Ndoro, 1997; Ndoro, 2001). The impressive architecture is estimated to have had a population of around 20 000 (Garlake, 1973; Hall, 1990; Kim and C. Kusimba, 2008). However, recent research on the population of Great Zimbabwe estimates 5000 inhabitants (Chirikure, Moultrie, et al., 2017). Great Zimbabwe has been a subject of debate for centuries with regards to its origins, known as the “Zimbabwe Controversy” (Tangri, 1990), but this debate has long been resolved to be “essentially African” in origin and character (Randall-MacIver, 1906; Ndoro, 1997). Current debates on Great Zimbabwe revolve upon the use and interpretation of space (see Huffman, 1984a; Huffman, 1984b; Huffman, 1996; Huffman, 2010; Huffman, 2014 on the other hand, Beach, 1998; Chirikure and Pikirayi, 2008; Pikirayi and Chirikure, 2011; Chirikure, Manyanga, Pollard, and Pikirayi, 2013).

Regional trade played a crucial role to the economy and social organization of pre-colonial societies within the Zimbabwe plateau. At Great Zimbabwe, iron gongs identical to those found in Zambia at Ingombe Ilede provide evidence of regional trade (Garlake, 1973). However, the small quantities of these items at Great Zimbabwe might suggest that these were gifts presented to the royalty rather than a trade item. Copper crosses and barbed spearheads were imports found at Great Zimbabwe from central Africa (Pikirayi, 2006; Pikirayi, 2017). Local products from Great Zimbabwe for regional and interregional trade included soapstone, gold wire, and perforated gold sheets (Garlake, 1973; Pikirayi, 2006; Pikirayi, 2017).

Great Zimbabwe's regional trade links, led to the development of monumental architecture in Makgadikgadi Pans in Botswana (Pikirayi, 2017), such that local and interregional trade thrived and these iron-using farming communities prospered. From the 14th century to the 15th century CE, metal and copper working was intensively and extensively traded by people from Great Zimbabwe (Garlake, 1973) though it was mainly for regional and interregional trade. Hence, the importance of this branch of economy is not to be underestimated as the participation in international trade serves as a metaphor of the efficiency of local economies through regional and interregional trade (Pwiti, 1991; Pwiti, 2005; Manyanga, 2006; Pikirayi, 2006).

The appearance of these trade goods in the interior of southern Africa particularly at Great Zimbabwe is explained by the trade role of communities settled along the East African coast. Communities along the East African coast had established trade networks with traders from other continents prior to the 13th century CE, a period in which Great Zimbabwe became a major trading centre in southern Africa. When Great Zimbabwe emerged as a major trading centre, the communities along the east African coast still arbitrated the transoceanic trade. Goods were exchanged through intermediaries at Kilwa, Mafia, or Mogadishu but Arabs and Asians did not penetrate the interior of Africa (al-Radi, 1990). Consequently, east African coastal centres became affluent from the taxes levied on goods leaving the coast (al-Radi, 1990) and for Kilwa, this is supported by the impressive monumental architecture like the Grand Palace of Husuni Kubwa (Pikirayi, 2006). At Great Zimbabwe, a coin minted by al-Hasan ibn Sulaiman (1230-1233 CE), ruler from Kilwa was recovered showing the eminence of the east African coast centres in this viable trade interaction (Pikirayi, 2006). By the 12th century CE, Great Zimbabwe had extended its trade networks to the coast and to international trade, which became its major trading partner (Pwiti, 2005; C. Kusimba, 2007; Kim and C. Kusimba, 2008). This development was an important aspect of the economy of Great Zimbabwe, which however interlaced an already complex economy.

Great Zimbabwe prospered and reached its peak in the 13th century CE, which is demonstrated by its unparalleled architecture within the region. Wealth from regional and interregional trade could finance the massive investment of dry stone architecture at Great Zimbabwe (Kim and C. Kusimba, 2008). Great Zimbabwe was also involved in international trade which however, began to decline in the 15th century CE. This is indicated by the rare appearance of Chinese porcelain at Great Zimbabwe as the porcelain was now traded elsewhere in the Zimbabwe plateau (Pikirayi, 2006). Despite the strengthened links between Great Zimbabwe and the coast, in the post 15th century CE period, "Great Zimbabwe was no longer trading" internationally (Garlake, 1973:135). Thus, in southern Africa particularly at Great Zimbabwe, international trade was so short-lived compared to regional and interregional trade.

Little is known archaeologically about this state and much of the literature available is historical, thus, attracting more historians than any other kind of researchers (Pikirayi, 1993). The Mutapa state was confined to the north of the Zimbabwean plateau occupying areas between Zambezi river to the north, Hunyani river to the southwest, and Mazoe river to the southeast (Beach, 1976:1). The rise and development of the Mutapa state is linked to the demise of Great Zimbabwe, after people migrated from the southern part

Mutapa state

of the Zimbabwean plateau to the northern part, where developments took place from 1450-1900 CE (Pikirayi, 2006).

There are suggestions that these migrations were caused by the deterioration of the environment leading to the demise of Great Zimbabwe (Huffman, 1972). However, recent research has established that Great Zimbabwe declined at a time when environmental conditions were favourable (Pikirayi, 2001; Pikirayi, 2006; Pikirayi, 2017; Chirikure, Moultrie, et al., 2017). The development of these historical states, such as Mutapa, rose as populations considered other areas to settle including the availability of resources for exploitation. Traditions on the establishment of the Mutapa state centres on the myth that the inhabitants of Great Zimbabwe left the southern part of the Zimbabwean plateau to the north in search of salt (Abraham, 1961). This implies two critical observations to this discussion of trade, shifting trade routes and the impact of trade to pre-colonial Zimbabwean societies: the Mutapa state is a successor of Great Zimbabwe and there is an indication of diminution of resources at Great Zimbabwe causing a shift in dominance of trade.

Trade, both regional and international, was essential to the economy of the Mutapa state. As a means of consolidating their power and authority, the leaders of the Mutapa state controlled economic activities but did not monopolize it (Mudenge, 1974; Mudenge, 1988). With local trade, the leaders of the Mutapa state depended on the alacrity of their subjects (Chanaiwa, 1972). On international trade, the leaders of the Mutapa state relied on tax levied on exports and imports. The northern part of Zimbabwe (where the Mutapa state was located) was rich in gold, silver, ivory, and copper which was destined for regional and international markets (Chanaiwa, 1972). The Mutapa state exported these natural resources in exchange for manufactured products, such as cloth and beads. The exploitation of these natural resources was permitted only by the Mwene Mutapa, who was the king of the Mutapa state. The Mwene Mutapa owned royal mines that locals, fellow inhabitants of the Mutapa state worked in and were rewarded by cattle (Chanaiwa, 1972). Once the natural resources were obtained, the locals would trade with the Portuguese. It is key to note that the Mutapa state was one of the main contributors of interregional trade through gold, copper, ivory, and cattle (C. Kusimba, 1999:126).

However, from the 17th century CE, civil wars and local rivalries were exacerbated by Portuguese intervention which destabilized African societies (Chanaiwa, 1972; al-Radi, 1990; Kinahan, 2000). The Portuguese affected not only the economy of the Mutapa state but the politics of this state, as the Portuguese were agents of disintegration of the complex Mutapa state (Chanaiwa, 1972:435). In the 17th century CE, the Mwene Mutapa became very unpopular and his power dwindled drastically. Consequently, he was incapable of consolidating the peace and order necessary for the success and flourishing of trade; hence, trade was interrupted (Chanaiwa, 1972). In summary, as stated by Chanaiwa (1972:435), “the economy was gone.”

Rozvi state

The Rozvi state emerged after the decline of Great Zimbabwe, this is likely due to shifting trade routes in mid 15th century CE. The Rozvi state is dated between 1450 and 1830 CE (Pikirayi, 2006). This historic state has not attracted much archaeological attention, but rather historical like the Mutapa state. The Rozvi state was a political successor of the

Torwa state which had its capital at Khami (Pikirayi, 2006; Pikirayi, 2013a; Manyanga, Pikirayi, and Chirikure, 2010). The Rozvi state was founded by a Changamire, the Rozvi king, who in 1670 CE stormed and captured the Torwa. This led to the formation of the Rozvi state, with its capital at Danamombe in south-western Zimbabwe (Mudenge, 1988; Beach, 1980; Huffman, 1996:17). The Rozvi state mainly traded with the Portuguese.

From the archaeological record and historical accounts, the Rozvi craftsmen worked iron, copper, bronze, and gold, produced carved objects from ivory and soapstone, and made beads from ostrich egg shells (Mudenge, 1974). From soft metals, the Rozvi made bangles, chains, earrings, and bracelets. These products ensured that the economy of the Rozvi state flourished through interregional trade. Since agriculture and pastoralism were the basis of the economy of the Rozvi state (Mudenge, 1974), cattle was the main export destined for regional trade. However, this trade item (cattle) is very problematic to prove from the archaeological record. For Mudenge (1974), cattle was the economic prop of the Rozvi state.

After discussing the economic organization of the main clusters of pre-colonial Zimbabwe, I look at international trade involving these societies. Furthermore, the implication of regional and interregional trade to international trade will also be discussed.

Discussion

Global trade from around 1200 CE diversified the economy and society of Great Zimbabwe. Among the principal exports from the region were gold and ivory (Mudenge, 1988; Pwiti, 2005; Pikirayi, 2006). The imports included cowrie shells, porcelain, celadon, Far and Near Eastern stoneware (Garlake, 1973; Garlake, 1982; Pikirayi, 2006), glazed Persian bowls with inscription of Naskhi characters dated to the 13th or 14th century CE (Garlake, 1973). Among the imports were glass beads of various colours of an Indian and Persian origin (fig 2) and Islamic wares (Huffman, 1972; Huffman, 2000; Kim and C. Kusimba, 2008; Chirikure and Pikirayi, 2008). The imported glass beads recovered from Great Zimbabwe (fig 2) are identical to those found at centres of the East African coast (Chirikure and Pikirayi, 2008; C. Kusimba, Kim, and S. Kusimba, 2017). It is probable that the appearance of exotic goods in the interior of southern Africa was the work of Arab and later Swahili traders (C. Kusimba, 1999; Ndoro, 2001:22). Therefore, the earliest international contact with pre-colonial Zimbabwe societies was with the Eastern world. As a result of the colonial contact, European goods found their way into southern Africa during the 15th century CE.

During the Mutapa phase the Portuguese, centered in coastal Mozambique, became the main trading partners. The Portuguese were more interested in monopolizing extractive economies, especially gold from the Mutapa state. The Portuguese aggressively sought to overthrow Swahili and Arab traders of the east African coast, who had pioneered these networks of exchange (Sinclair, 1987; C. Kusimba, 1999; Pwiti, 2005).

The Rozvi mambo, (King of the Rozvi state) by allowing individual participation in long-distance trade avoided rousing undue resentment, but his wealth from external trade was through tribute. Tribute was paid in form of gold, ivory, beads, and cloth, which were the main returns of external trade (Mudenge, 1974). It is in this regard that tribute was important to the leaders of the Rozvi state as it served dual purpose: economic and political. From the Portuguese, the Rozvi received luxury goods like



Figure 2: *Example of imported glass beads found at Great Zimbabwe*

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beads, seashells, brass bells, and cloth (Mudenge, 1974). Imports from other continents beyond Africa were important even to the consolidation of power and authority in the Rozvi state. One example is of imported cloth which played an important role in the politics of the Rozvi state. At the investiture of a new chief, the Rozvi mambo would send black and white calico as the official regalia of the new chief (Mudenge, 1974; Bvocho, 2005). Giving the new chief black and white calico might imply the rarity of the cloth. If, however, the cloth was abundant, possibly there was no need to send it to the new chief as the chief could easily acquire the regalia. Or, it may also imply that the cloth was in abundance, but as a sign of the mambo's recognition of the new chief, he would send the imported cloth (Bvocho, 2005). It seems more likely that the latter was the situation since long-distance trade in the Rozvi state was open to individual participation. Nonetheless, the imports within the Rozvi state were luxury goods, which had other internal valuable alternatives (Mudenge, 1974).

The evidence of international trade involving pre-colonial Zimbabwe attests to the presence of regional and interregional trade. From the interior of southern Africa, trade items for international trade had to pass through the east African coast (Pwiti, 2005). The towns of Zuama and Angoche on the Zambezi Delta, for example, were centres where gold and ivory from the Mutapa state was exchanged for cotton, silk, and beads (Barbosa, 1917:15 as cited in C. Kusimba, 1999:130). During international trade, east African coastal centres played an intermediary role linking southern Africa and regions beyond. Trade goods from the interior of Africa were transported to coastal centres like Sofala and Kilwa which was the primary beneficiary of the gold trade from Zimbabwe (Miller, Desai, and Lee-Thorp, 2000; Pwiti, 2005; Pikirayi, 2006; Huffman, 2009). As a result of the prosperity of this gold trade in the 13th century CE mirrored also at Kilwa, the Grand Palace of Husuni Kubwa reflects the wealth of this state system (Pikirayi, 2006; Pikirayi, 2017). As noted by Pwiti (2005:387) and Pikirayi (2017), communities at Kilwa and in pre-colonial Zimbabwe benefited from each other.

Once these goods reached these trading centres, traders from other continents were not allowed into the interior of Africa (al-Radi, 1990). In light of the above, C. Kusimba (1999) and Manyanga (2006) note that the implication of regional and interregional trade to international trade is that the former required great planning and organization without

which the latter could not be established. Hence, from the nature of the organization of international trade, it seems most probable that regions in Africa were involved in trade with each other. In support of this, Pwiti (2005) notes that the decline of Great Zimbabwe in the last half of the 15th century CE is associated with the same development at Kilwa. Thus, the emerging economic picture between these states is that of a symbiotic relationship.

After discussing the evidence of regional and interregional trade, I will now discuss possible methods that researchers can employ in order to address pre-colonial regional and interregional trade. The application of the methods discussed was drawn from regions where they have been used elsewhere but are still lagging behind in Zimbabwean archaeology. The few methods given here are, however, for purpose of illustration. From the available literature, there is overwhelming evidence of international trade involving southern African societies. This might be a result of the role of international trade, which early researchers assumed was the prime mover in the development of socially complex societies (Huffman, 1972; Huffman, 1982; Huffman, 1986; Huffman, 2009). However, very little is known about regional and interregional trade. Thus, the methods discussed here, if employed, are aimed at increasing our knowledge of pre-colonial regional and interregional trade, which involved pre-colonial Zimbabwe.

The ubiquity of glass beads recovered in southern Zambezia beginning from the Mapungubwe phase have provided the finest example of interregional networks. Due to their portability, affordability, and durability, glass beads were consumed over much of the region and provide the finest signature for evaluating the nature, scale, and distribution of interregional trade (Dussubieux et al., 2008). Advances in geochemistry have made it possible to carry out relatively cheap composition analyses of glass beads. For example, X-Ray Fluorescence (Wavelength Dispersive XRF and portable XRF) is a non-destructive technique that is used to characterise major and minor elements of glass to enable the determination of the overall mineralogical and elemental signature of the samples (Pernicka, 2014:245). These techniques have been used to source the origins of this trade item, as their sources can be established (Wood, 2000). In a recent study of glass beads produced between 800 and 1600 CE, Robertshaw and colleagues established that Zhizo beads dating between the 8th and 10th century CE were made from plant-ash, which is specific to the Middle East, probably Iran and not from South Asia as had been previously assumed (Robertshaw et al., 2010).

Important evidence on the investigation of this topic on pre-colonial Zimbabwean societies is metals, which were exchanged for livestock and grain. Some iron products were hoes, axes, and spear heads. While gold, ivory, and other valuables were destined for international consumption, iron and copper provide evidence for regional trading networks (Pikirayi, 2017:13). Metals in southern Africa were influential in determining regional trade as metallurgy led to opportunities for trade and exchange at local, regional, and international scales (Chirikure, 2007; Chirikure, Thondhlana, and Bandama, 2013). On archaeometallurgical research in Zimbabwe, the work of Chirikure (2005, 2006, 2007, 2010, 2015) has been exceptional in the last decade or so. Nonetheless, Chirikure, Thondhlana, and Bandama (2013:152) acknowledge that archaeometallurgy in Zimbabwe

Regional and interregional trade involving Zimbabwe: Future prospects

is still in its infancy. This has been a major setback to the overall appreciation of ancient metals.

Similarly, archaeometallurgical studies based on chemical elemental and lead isotopic composition have been instrumental in the analysis of ancient metal working. Lead has four isotopes that are stable, these are ^{206}Pb , ^{207}Pb , ^{208}Pb and ^{204}Pb . The first three are time dependent and are produced by the radioactive decay of parent isotopes ^{238}U , ^{235}U and ^{232}Th , respectively. ^{204}Pb is stable but time independent as its abundance has not changed from the formation of the earth (Molofsky, 2009; Baron, Tamas, and Carlier, 2014; Pernicka, 2014). The application of lead isotopic analyses in archaeology is based on the premise that sources of metals can be distinguished from each other. For example, deposit on bivariate plots (e.g., $^{208}\text{Pb}/^{204}\text{Pb}$ vs $^{207}\text{Pb}/^{204}\text{Pb}$) gives a unique signature for that deposit which is used to match its parent ore source (Molofsky, 2009). Molofsky (2009) employed metal provenance studies in southern Africa to understand metal objects from this region. They established that Rooiberg was the source of tin and soft metal working in southern Africa.

Evidence of regional and interregional trade in southern Africa and beyond is also in the form of ceramics. As evidence of trade, Garlake (1968:22) observes that prior to the dominance of Portuguese as the major trading partner with Africa, over 90 % of imported ceramics found in central Africa were from Zimbabwe. Thus, ceramics were used in trade relations that were essential to the economy of pre-colonial Zimbabwean societies. Regardless of the centrality of ceramics to past societies, there still remains a handful archaeometric research to understand the role of ceramics in the discussion of trade and exchange in Zimbabwean archaeology (Lindahl and Pikirayi, 2010; Ashley and Grillo, 2015).

The application of petrographic analysis and ceramic provenance studies is vital in the appreciation of trade and exchange of ceramics. Ceramics survive long in the archaeological record, hence, the increased potential to subject this material to a wide range of analyses. In most Zimbabwean archaeological studies, ceramics have been used as pointers to culture change, identify traditions, and patterns of migrations (Huffman, 1972; Pikirayi, 1993; Pikirayi, 1996; Pwiti, 1996) without necessarily looking at how this material culture could have been used in trade and exchange regionally. Wilmsen et al. (2009) used petrology and clay chemistry to identify the origins of ceramics from Botswana. Their study showed that most of the clay constituents were from Angola, thus, showing patterns of trade and exchange through ceramics.

Overall, traditional archaeology complemented by laboratory studies clearly demonstrate that networks of exchange in Africa were vast. The scale of production and investment in local extractive economies including mining, smelting, and making metallurgical products including gold, tin, and iron for wide distribution was well established by 1200 CE.

Conclusion

Contacts involving pre-colonial Zimbabwean societies resulted in an exchange of goods and ideas (Pikirayi, 2017). Such contacts have often been viewed in international perspective as the main consolidator of wealth (Manyanga, 2006) and a precursor of power (C. Kusimba, Kim, and S. Kusimba, 2017) thereby limiting the appreciation of

regional and interregional contacts. However, regional and interregional trade was an important facet in the economies of the societies under study, that is the Great Zimbabwe, Mutapa, and Rozvi states. The complexity of interregional trading systems involving southern Africa indicates that interregional trade within Africa was the foundation on which international trade was based. As such, the participation of pre-colonial Zimbabwean societies in international trade indicates the thriving of regional and interregional trade.

In spite of this, archaeological research in southern Africa, particularly Zimbabwe, to understand regional and interregional trade is still minimal. The application of characterisation studies in the study of archaeological artifacts will advance our knowledge of the evolution of the states in southern Zambezia. Particularly for Zimbabwean archaeology, complementary techniques drawn from geochemistry, and metallurgy will transform our understanding of pre-colonial Zimbabwean economies. There is need for Zimbabwean archaeology to fully embrace the aspirations of the New Archaeology. Thus, there is a bright future for Zimbabwean archaeology to explore pre-colonial regional and interregional trade.

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Dedication

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