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Editorial Note

I am pleased to introduce the second issue of volume 3 of IJAD for spring 2016. I am pleased to inform readers that our articles have been downloaded over 11,000 times from all parts of world, thus becoming an outlet for global research beyond the African continent. This volume contains six papers that span various topics and dimensions of sustainable development.

The analysis of each research paper has policy implications on how to improve the human condition: The first paper concludes that enhancing community agencies through participatory research leads to just and equitable outcomes by reducing marginalization and absolute poverty which requires good governance at local and community level. The second paper based on data from Morocco concludes its analysis and recommends a more just and equitable global multilateral trade agreements toward agricultural trade and food security. The third paper, based on data from Ashanti Region of Ghana exposes the unethical and illegal practice and mismanagement that led to microfinance institution collapse, and how that crisis related to the global financial crisis even though internal factors are more significant. The fourth paper explores why regional integration efforts have failed and succeeded in Africa comparing the historic experiences of the East African Community (EAC) and the Southern African Development Community (SADC). The analysis of these two regional experiences suggests legitimacy for each government to incentivize regional integration and willingness to sacrifice political autonomy for regional integration which has great potential to redress the unequal effect of global international trade on Africa. The implication of this paper is that each member state of regional governance must be democratic with leadership that can see beyond itself for current and future generations. Effective regional integration is a pre-condition for an economic and political union of the 54 African states.

The final paper is based on US data which is a major public health concern. The study is based on National Longitudinal Survey of Youth of young adults from 1986-2010 cohort obtained from the US Bureau of Labor Statistics. The study shows maternal employment is significantly and positively correlated with child obesity, where US Government must improve its maternal policy for employed mothers and fathers by providing necessary leave of absence for child care as well child care facilities for children in US. In this regard US finds itself behind European states such as Sweden, France, Norway and the UK.

Finally, with above brief introduction of each paper, the Editor invites readers to read the detailed analysis in each of the papers and wishes all happy reading!

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Spring 2016, Kalamazoo, Michigan, USA
Reducing Marginalization of Fishermen through Participatory Action Research in the Zambezi Valley, Zimbabwe

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Abstract
Equitable sharing of fishing resources has been the major source of tension between Zambezi Valley communities and the Zimbabwe government authorities since the 1950s following the Kariba Dam-induced resettlement. Using participatory action research, it was found that the fishing license system and criminalization of fishermen were the major sources of tension between fishermen and government authorities. Engaging with government authorities to address these tensions, fishermen were recognized as partners in the fishing industry. The conclusion was that enhancing community agencies through participatory action research would be fundamental towards creating socially just and equitable arrangements that could emancipate marginalized communities from abject poverty.

Keywords: marginalization, fishing resources, participatory action research, Zambezi Valley, Zimbabwe.

This paper examines the extent to which marginalized fishermen along the Kariba Dam used participatory action research to demand increased access and benefit-sharing of fishing resources from government authorities. Over the past five decades, the mid-Zambezi Valley communities, mainly the Tonga minority ethnic group residing on the Zimbabwean side of the Zambezi River, have experienced a sustained conflict between authorities to regain entitlement to fishing resources. Yet, fishing continues to be an inherent, if not an indispensable, aspect of the lives of the Zambezi Valley people, both on the Zambian and Zimbabwean side of the mid-Zambezi River. On the Zimbabwean side, these communities are spread across the Binga, Hwange, Nyaminyami and Gokwe districts in the north-western part of Zimbabwe (Figure 1).

The Tonga lost entitlement to fishing following their ‘forced uprooting’ (Colson, 2003) due to the inundation of their homes in 1957-8 by the Kariba Dam (Colson, 1971). However, it was not until late 2007 that the debate on access and benefit sharing of fish resources gained momentum. The origins of motivation for the Tonga to provoke the debate could be attributed to what McGregor (2009) terms ‘politics of recognition’ to address their marginalization. Further, Conyers and Cumanzala (2004) assert that the combination of the Tonga’s perceived identity, minority ethnic status, unique history and lack of basic infrastructure and services encouraged them to strive to demystify the media portrayal of them while at the same time improving their social and economic status.
Since the Kariba Dam-induced resettlement in 1957-8, fishing has been considered a risky business, not only from crocodiles and hippos but also from state authorities. The fishermen have been risking their lives and surviving at the end of the margins due to the conflict between them and state institutions: the Department of National Parks and Wildlife Management (National Parks); Zimbabwe Republic Police (Police); and the Binga, Hwange and Nyaminyami Rural District Councils (Councils). Previous studies of the conflict between state authorities and kapenta (Limnothrissa miodon) fishermen on one hand and gillnet fishermen on the other have tended to explore the dispute as distinct industries warranting different approaches (McGregor, 2009; Nyikahadzoi, 2009; Nyikahadzoi and Raakjaer, 2009). This allowed for an in-depth understanding of the nature and dynamics of each of the industries. The downside of studying kapenta and gillnet fishing as separate entities could be its failure to reveal a holistic view of the challenges the Kariba Dam fishing industry faces. This paper addresses this gap by examining the struggle of kapenta and gillnet fishermen in developing transformative actions to improve access and benefit-sharing arrangements of fishing resources in the Kariba Dam district. This paper will not only contribute to the access and benefit-sharing literature on fishing resources, but will also resonate with the marginalized people’s struggles towards socially accessing and benefit-sharing of resources that address poverty.

This paper examines contextualizing the conflict within the marginalization conceptual framework. Limited access to fishing resources tends to be largely underpinned by the marginalization of communities displaced by the Lake Kariba construction in the 1950s. It then moves to outline the participatory action research methodology that was employed as a means of
empowering fishermen to seek increased access and fair benefit-sharing arrangements for fishing resources. The paper then presents and discusses two major sources of tensions, namely, the fishing license system and the harassment of fishermen. And finally, the paper discusses results of the actions taken by fishermen in addressing the access and benefit-sharing imbalances. The conclusion is that enhancing of community agencies through participatory action research is fundamental towards creating socially just access and benefit-sharing arrangements that can emancipate marginalized communities from abject poverty.

Conceptualizing Marginalization

This study used a marginalization framework to contextualize the conflict between the fishermen and the state in accessing and sharing fishing resources in the Zambezi Valley. Yet, marginalization, like most social science concepts, is a contested concept. Hall et al. (1994) define marginalization as the peripheralisation of individuals and groups from a dominant, central majority. They view marginalization as a socio-political process, producing both vulnerabilities (risks) and strengths (resilience) as summarized in Table 1.

Table 1: Properties of Marginalization

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intermediacy</td>
<td>Having boundaries that separate and protect, such as the skin, but also referring to risk of personal or territorial invasion and the dangers inherent in living in contested or border environments.</td>
</tr>
<tr>
<td>Differentiation</td>
<td>The strength of cultural and personal uniqueness and the risk of becoming a scapegoat and being stigmatized.</td>
</tr>
<tr>
<td>Power</td>
<td>Access to resources, individual and collective awareness and organization, and risks associated with enforced conformity.</td>
</tr>
<tr>
<td>Secrecy</td>
<td>Access to, and control of information to protect one’s self and group, and the risks resulting from the dominating group’s use of insider knowledge to their advantage.</td>
</tr>
<tr>
<td>Reflectiveness</td>
<td>Survival skills gained from leading an examined life, and the risks involved in the exhaustive processes of constant vigilance, and analysis of each new social encounter necessary for safety.</td>
</tr>
<tr>
<td>Voice</td>
<td>Expression of one’s experiences as valid and different from the dominant myths, and the risks of being silenced.</td>
</tr>
<tr>
<td>Liminality</td>
<td>Having experiences not shared by others; severe trauma, stigmatization, and illnesses can foster abilities to empathize with others, but carry risks of alienation, altered perceptions, and heavy psychic strain.</td>
</tr>
</tbody>
</table>

Note: Adapted from Hall, et al (1994)

Burman and McKay (2007, p. 317) define marginalization as ‘the process by which persons are peripheralized, or pushed to the periphery to varying degrees from the socio-political center, because of their identities, associations, experiences, or environments.’ They further contend that marginalized persons are viewed as relatively different from the norm, and marginalization can involve gender, racial, political, cultural and economic oppression. According to Still (2001),
marginalization involves a relative lack of power and influence. Thus, marginalization is most often used to illustrate differences, hierarchies and dependent relationships between regions, sectors, groups and individuals. It illustrates the scarcity of human or physical endowments, or both, as well as a lack of political or economic competitiveness between social groups or geographical areas. Marginalized regions, sectors, groups and individuals ‘lack something.’ They may lack such things as power, education, access to resources, capital, and democratic institutions. Conflicts arise between the center and the periphery when the marginalized group attempts to remove or reduce the ‘lacking something.’

Table 1 reveals that marginalized people have less power and influence than the dominant social group. For example, marginalized people often live in contested environments, their access to resources has to contend with enforced conformity, and they have limited access to information. Marginalized people fit Foucault’s description that they are most prone to be incarcerated or otherwise punished.

Although the origins of the marginalization discourse are mostly associated with feminist theories (Hooks, 1984; Hall et al., 1992; Stevens, 1993), it has gradually found expression in other social science disciplines such as nursing and developmental studies. The properties of marginalization in Table 1 resonate with critical theories; thus, marginalization is inclusive of oppression, and also a consequence of oppression (Hall, et al., 1999). Thus, the concept of marginalization can be useful in illuminating the subjective experience of the Zambezi Valley fishermen, including how they interpret the power-equation, the language, and their desires towards equitable access and the sharing of fishing resources. To this end, this paper adopts the constructionist epistemology through participation towards equitable access and sharing of Lake Kariba’s fishing resources. Constructionism is an ontological condition of social being, social consciousness, social action, institutions, structures, even society itself; it is not a form imposed on social life, but social life and human lives are themselves socially constructed (Somers, 1992). If marginalization can be understood through social construction, social action is also guided by construction, thus social processes and interactions, both institutional and interpersonal, are mediated through social construction.

Marginalization of the Kariba Dam Fishermen: Evidence from the Literature

The marginalization of the Zambezi Valley fishermen cannot be understood in isolation of the broader peripheralisation or exclusion of the Tonga. As a way of simplifying our understanding the marginalization of the Tonga, we briefly explore the events using Mhlanga’s (2009) three phases: the pre-impoundment phase (before 1958), the post-impoundment colonial phase (1958-1980) and post-impoundment independence phase. Life during the pre-impoundment phase for the Zambezi River Tonga can be traced from the Iron Age, half a million ages ago (Reynolds and Cousins, 1991), and was primarily based around riverbank farming, fishing and hunting. Known in various terms as ‘basimulonga’ (Colson, 1971) ‘basilwizi’ (Tremmel, 1994), and ‘bamudonga’ (Ncube 2004), the Tonga’s crop cultivation was based on recession agriculture, which depended on the flood regimen of the river. Fishing, kuzuba nswi, was one of the major sources of livelihood.
for the Zambezi Valley Tonga. Agriculture was combined with fishing, where for instance, bream and tiger fish were caught with nets and buckets in small inlets when the flood receded from the Zambezi River and its tributaries, (Weinrech, 1977) without any restrictions. They supplemented their diet with fish, a source of protein required by the body for growth and maintenance of tissue.

The beginning of the post-impoundment phase began with the loss of entitlement to fishing resources which came to an abrupt end between 1956 and 1958 following the forcible uprooting or removal of the Tonga whose homes and lands were flooded by the building of the Kariba Dam. Approximately 57,000 people were ‘moved’ by the Federation of Rhodesia and Nyasaland to areas outside the reservoir on both sides of the Zambezi River in what today is known as Zambia and Zimbabwe (Colson, 1971). With a capacity of 180.6 km$^3$, surface area of 5577 km$^2$ and length of 280 km, the Kariba Dam was then the largest man-made lake in the world (WCD, 2000). The lake was primarily constructed to generate hydro-electricity.

On the Zimbabwean side, 22 chiefdoms were forcibly moved to make way for the dam, including Simunchembu, Sinamagonde and Musambakaruma chiefdoms that were relocated to areas far from the river, where there was inadequate water (WCD, 2000). The Tonga have become what can be termed ‘development refugees’ (Weist, 1995) or development-induced internally displaced persons who still need to be rehabilitated. With more than five decades since the Kariba Dam construction, the great dam, which deprived the Tonga of their homes, has not benefited them (Lessing, 1993; Tremmel, 1994). In addition to loss of agricultural lands, clean drinking water and hunting, access to fishing was one of the major sources of livelihood the Tonga people lost. Since the construction of the Kariba Dam, the marginalization of the fishermen continued to grow. To appreciate the extent of marginalization of the Zimbabwean fishermen by the successive governments, Table 2 compares the Zambian and Zimbabwean fishermen since the resettlement in the 1950s. Hall et al.’s (1994) five of seven properties of marginalization - intermediacy, differentiation, power, secrecy and voice - were considered sufficient to reveal the extent of injustices suffered by the Zimbabwean fishermen.

On the Zambian side, the interest of the local population was paramount. There was no racially based segmentation. The whole Zambian shoreline was designated as “Native Trust Land” and could not be utilized without consent of the local people. In contrast, in Zimbabwe, the then Rhodesian authorities divided the shorelines along racial lines into 14 areas, which later changed to eight and then to the present seven in 1972 and 1976 respectively. The native areas were shared with white-owned concessionaires who, in addition to their own fishing concession areas, would also purchase the fish from the black fishermen (Karenge and Games, 1995). Also, any kind of economic investment in onshore fishing in Zimbabwe had been virtually absent (Marshall, et al., 1982; Bourdillon, et al., 1985; Kolding et al., 2003), in contrast to a relatively strong management regime and enforcement capacity which had not changed since Zimbabwe’s independence from Britain in 1980. In the 1990s, the National Parks devolved appropriate authority status to the Binga and Nyaminyami RDCs where the RDCs subleased the Exclusive Fishing Zones (EFZ) to fishermen and created a co-management structure. To this end, the National Parks created a
Table 2:  
*Comparison between Zambia and Zimbabwean Fishermen Marginalization*

<table>
<thead>
<tr>
<th>Property of marginalization</th>
<th>Zambia</th>
<th>Zimbabwe</th>
<th>After independence</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Intermediacy</strong></td>
<td>Shoreline not divided into fishing zones with fishermen having freedom of choice of where to fish</td>
<td>Lake designated Kariba Recreational Park; Shoreline divided into 14 zones, reduced to 8 and then 7 zones in 1972 and 1976 respectively. No freedom of choice of movement on where to fish</td>
<td>Lake designated Kariba Recreational Park and 7 fishing zones have remained unchanged; No freedom of choice of movement on where to fish</td>
</tr>
<tr>
<td><strong>Differentiation</strong></td>
<td>Shoreline not divided according to race, color, etc.</td>
<td>Shoreline divided along racial lines with ‘native’ reserves and concessions for whites. White-owned companies dominate both kapenta and inshore/artisanal commercial fishing.</td>
<td>No discrimination on shoreline but is opened to wider community with no preference to the resettled people. White-owned companies continue to dominate both kapenta and inshore/artisanal commercial fishing.</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>Access to fishing generally unregulated; no limits on net sizes</td>
<td>Access to fishing regulated by Department of National Parks such as net sizes, number of nets to prevent overfishing, and settlements prohibited. Offenders are punished; survival of the fittest; low income</td>
<td>Conservationist and tourist interests grew stronger than pre-independence. Access to fishing regulated by Department of National Parks such as net sizes, number of nets and settlements prohibited. Offenders are punished; survival of the fittest; low income</td>
</tr>
<tr>
<td><strong>Secrecy</strong></td>
<td>Information was available to fishermen; capacity building for fishermen, e.g. Fishery Training Centre at Sinazongwe in 1961</td>
<td>Information restricted to officials and not available to fishermen; no capacity building for fishermen; fishermen avoid punishment</td>
<td>Cooperatives created and capacity building related to conformity to regulations rather than rights of fishermen</td>
</tr>
<tr>
<td><strong>Voice</strong></td>
<td>Fishermen have freedom to express themselves</td>
<td>No freedom to express their exteriorized life of survival or hope for the future</td>
<td>Freedom to express their exteriorized life of survival or hope for the future is determined by political affiliation</td>
</tr>
</tbody>
</table>

*Note: Source: Authors*
Associations were established to provide such things as keeping statistics and monitoring poachers because the state could not sustain the regulatory operations due to inadequate resources. Thus, the Sub-Area Fishermen Associations were meant to serve and also ensure their conformity to the regulatory infrastructure that marginalized the fishermen in the first place. McGregor (2009) argues that the co-management structure of Sub-Area Fishermen Associations had little impact on fishermen’s access to resources due to, among others, limited participation of fishermen in the delimitation of the Exclusive Fishing Zones (EFZ) and the persistence of criminalization of fishermen.

In contrast in Zambia, there is freedom of fishing and fishermen can fish anywhere. The Zambian inshore fishing, with virtually no enforcement of regulations, experienced a much higher fishing intensity and a changed fishing pattern towards increasingly smaller mesh sizes resulting in a higher exploitation level (Kolding et al., 2003). From Zambia’s independence in 1964 to 1986, no mesh restrictions for gillnets existed and beach seines were allowed. After 1986, the minimum mesh size for gillnets was set at three inches (76 mm), beach seining and kutumpula (fish driving) were prohibited. In practice, however, there was little enforcement due to a lack of resources (Musando, 1996 as cited by Kolding, 2003). Notwithstanding, the overall fishing effort, in terms of number of nets, was about seven times higher in Zambia than in Zimbabwe, there were no indications of biological overexploitation in the Zambian inshore fishing in terms of reduced total yields or changed fishing communities. Thus, the assumption that there was over-fishing in Lake Kariba was a myth as inshore fishing stocks are only moderately exploited and severely underutilized in Zimbabwe. Besides, the water has power to restock fish even under intensive exploitation as Lake Kariba is a naturally fluctuating and resilient system with its source of biomass and productivity being located in the hydrological regime, and annual pulse of fertilizing nutrients washed in by the rains (Kolding et al., 2003).

Kolding, et al. (2003) list a litany of restrictions, which exclude and criminalize the Zimbabwean fishermen, which include the following:

- Fishing is not permitted using nets with less than a four-inch (102 mm stretched) mesh size.
- Explosives, chemicals, poisons, intoxicating substances, scoop nets, jigging and fish driving may not be used to catch fish.
- Fishing is not permitted along parts of the shoreline belonging to the DNPWM, notably all the Chete Safari Area, most of the Matusadona National Park, and parts of the Charara Safari Area. Other restrictions are in place for mouths of rivers, large population centers, harbors, and river estuaries.
- Fish net manufacturing is not permitted for persons who do not hold a valid manufacturer and dealer license, and fishing nets can only be sold to holders of valid fishing permits.

**Approach to Collecting Field Evidence**

The extent to which the Zambezi Valley fishermen were marginalized and excluded from fair access and equitable sharing of benefits of fishing resources required a methodology that was grounded in social transformation and human rights activism. Participatory action research was
considered appropriate as it lends itself to be associated with social change, where its results can be translated into political action (Sarantakos, 2006; Gibson, 2004).

Mainly accredited to Kurt Lewin’s action research in the 1940s in USA, participatory action research has been associated with the critical theory and philosophy of liberation where research is grounded in people’s struggles (Kindon et al., 2007). Paulo Freire’s work in Brazil, Mahatma Ghandi’s work in India, and Julius Nyerere’s work in Tanzania are among the most cited examples of the effectiveness of participatory action research, and how it can empower the oppressed to transform society and assert their rights (Savin-Baden and Wimpenny, 2007). In participatory action research, Reason and Bradbury (2001) stated that researchers and participants work together to construct knowledge from their experiences and realities where a single phenomenon can have multiple interpretations. They further stated that researchers and participants identify the problem and formulate actions together to change the situation for the better. In many ways, participatory action research is in sharp contrast with the positivist epistemologies of knowledge construction where knowledge is seen as a free-standing unit independent of the researcher (McNoff and Whitehead, 2002). Notwithstanding the argument that participatory action research can lead to social change, participatory action research can be difficult to organize as it requires financial, material and human resources as well as time. Participatory action research for this project was supported by the advocacy cycle tool (Figure 2).

![Advocacy Cycle Diagram](http://scholarworks.wmich.edu/ijad/)

**Figure 2: The Advocacy Cycle**

The kapenta and gillnet fishermen who participated in this project were from the Binga, Hwange and Nyaminyami district fishing cooperatives. Although the researchers and fishermen used the advocacy cycle as a guide, discussions on problem identification and analysis, setting objectives, and identifying stakeholders were messy, emotional, and full of contestation (Cahil, 2007), swinging back and forth from time to time. Nonetheless, as soon as stakeholders were identified, they were engaged in the participatory action research project, where the problem,
objectives, stakeholders and resources were reviewed. This was important to ensure commitment of participants to ‘actioning’ the findings. The stakeholders were drawn from the National Parks, Rural District Councils, Traditional Chiefs and non-governmental organizations, Basilwizi Trust, and Save the Children. Involving government structures was important and did not only provide legitimacy and ownership of the findings, but also reduced suspicion from politicians since the project was implemented in 2007 and 2010 at the height of political tensions in Zimbabwe.

The second aspect involved capacity building of fishermen and stakeholders. This was at two levels. Firstly, fishermen were trained on advocacy skills as a way of empowering them to demand access and control to fishing resources. This included social problem analysis, research, conflict resolution, negotiating strategies and lobbying. As a result of the training, the fishermen formed the Kujatana Kwesu Fisheries Union comprised of nine executive committee members, including one female. The Kujatana Kwesu Fisheries Union enabled fishermen to present and represent themselves in demanding increased access and benefits to fishing resources as well as issues around conservation. Secondly, awareness workshops were facilitated by officials from the National Parks and Rural District Councils. This included a review of the Parks and Wildlife Act and related instruments and guidelines. The research team played a facilitatory role, mainly in providing technical and logistical support. Following the training, fishermen and stakeholders developed an action plan which included gathering evidence on the extent of marginalization of fishermen, meetings, seminars and conferences with duty-bearers in government authorities. The Zambezi Valley stakeholders’ conference that was held in Harare from 1-3 December 2010 was one of a series of dialogue meetings between fishermen and government authorities. At the Harare conference, high-level decision-makers, involving three government ministers including the Minister of Natural Resources, participated in the discussions.

Field Evidence of Fishermen’s Marginalization

This section presents the problems fishermen were facing which limited their access and control of fishing resources. The problems were mainly in two categories, namely, the fishing license system, and criminalization and punishment of fishermen.

Fishing License System

To regulate fishing activities, a fishing license system, managed by the National Parks, was put in place for both Kapenta and gillnet fishermen. Kapenta and gillnet fishermen, both individuals and co-operatives, applied for licenses to both the National Parks and Rural District Councils. The National Parks is the licensing agency for permits to use water resources in Lake Kariba, and the Rural District Councils issue fishing permits for fishing zones located in their jurisdictions. Both gillnet and kapenta fishermen were aware of the National Parks’ eligibility requirements for them to be allowed to fish.

For me or a cooperative to obtain a [gillnet fishing] license, I need to convince authorities [Rural District Council] that I own a boat and life jackets. I have also to identify the fishing camp I will be operating from.
Similarly, to register for kapenta fishing, fishermen need to provide evidence of ownership of a fishing rig (boat), life jackets and operational area. There were additional requirements for both gillnet and kapenta fishing cooperatives to be eligible to fish. A certificate of registration, constitution and membership list were needed by the licensing authorities. For gillnet fishermen, the National Parks issues the fishing licenses to three riparian Rural District Councils - Binga, Nyaminyami and Hwange.

There is a small difference between the Nyaminyami and Binga Rural District Councils’ allocation of licenses considering that they have a large shoreline compared with the Hwange Rural District Council which has one fishing camp at Musuna. The Rural District Councils then issue the fishing licenses to the individual fisherman or fishing cooperative. The distribution of licenses per individual fisherman can differ according to the Rural District Councils. Forty-six percent of licenses are issued to cooperatives. Fishing licenses or permits for gillnet fishermen operation on state lands are issued directly by the National Parks. Applications for kapenta fishing were made at the National Parks District Office in Binga for onward processing in Harare. Table 4 shows the distribution of kapenta fishing permits in the three riparian districts of Binga, Hwange and Nyaminyami.

That the National Parks’ licensing system lacked accountability and transparency was a concern for both kapenta and gillnet fishermen. They claimed there was a shortfall in the number of fishing licenses that were issued in Harare, and those distributed by the National Parks Sub-office in Binga. In any case, the official license limit had never been reviewed and the actual recorded number of nets and fishermen, although fluctuating most of the time, had been below the values. Fishermen also expressed concern over additional license fees they were charged by authorities. For example, in Deka in the Hwange Rural District Council, the National Parks required the gillnet fishermen to pay daily fees for fishing, yet they would have already paid for fishing licenses at the Rural District Council.

We’re not benefiting much from fishing. The National Parks charged us daily fees when we would have paid for a license to the Rural District Council.

In the Malala Fishing Camp in the Binga Rural District Council, the gillnet fisherfolk had raised concerns over the renewal of licenses which changed from annual, to six months and then to monthly. They were required to renew their licences monthly, and this was burdening them financially to the extent that it was unmanageable.

They [authorities] are insensitive. How can they charge us on a monthly basis? Where do they think we can get the money, when at the same time they restrict us to fish as much as we would? At the end, we’re only working for the authorities instead of feeding our families.

In the Nyaminyami District, the gillnet fisherfolk have complained over the number of permits they were supposed to apply for.
We’re being ripped off by the three-in-one payment system. We pay for three permits to sell the same fish. First, we apply for a permit to fish, another one to sell [fish] [to traders] at the [fishing] camps, and then the third one is a hawker’s license that enables us to sell the fish outside the fishing camp. Our colleagues in kapenta fishing only require one permit to fish and sell the kapenta.

The fishermen, through the Kujatana Kwesu Fisheries Union as Section 6 illustrates, have continued to engage with government authorities to address the problems in the fishing license system. This is despite the participatory action research project that ended in 2010.

**Criminalization and Punishment of Fishermen**

The accounts by the fishermen about criminalization and punishment were not new; they were consistent with the literature (McGregor, 2009; Nyikahadzoi, 2009). What was new was the degree of abuse of fishermen by the National Parks officials. One gillnetter had this to say:

When the National Parks officials impound our nets, they don’t return them to us even after paying the fines. They sell them to Zambian fishermen or fishermen at our neighboring camps. When they arrest us – they loot; they take everything. The National Parks officials share the fish so they can feed their families. We remain here with nothing.

During one of the meetings which involved fishermen, the National Parks, Rural District Councils, Lake Navigation, Police, and the Ministry of Youth, Empowerment and Development, fishermen highlighted alleged corrupt activities taking place within the National Parks, especially in passing information to Zambian fishing boats over their patrol schedules and raiding times. The fishermen also lamented at the fines that were too low to deter any illegal fishing activities by the Zambian fishermen. They recommended stiffer penalties for illegal Zambian fishermen such as heavy fines and confiscation of their boats.

The National Parks officials come here to us without any reason. They don’t explain what they want. One day they came here [fishing camp name supplied] and started firing bullets in the air, searched our huts and forced us to roll on the ground and stand on our heads. One official asked my wife ‘why are you not pregnant?’ Then they started accusing us of hosting Zambian poachers. But, we never host any [Zambian] poachers; instead the National Parks are letting the Zambians fish on our side without repercussions. With bribes from the Zambians, the National Parks officials give them [Zambian fish poachers] their patrolling timetable so they don’t clash with them.

The following shows that fishermen were aware of the need to conserve fishing resources, and their participation would contribute to the management and sustainability of the resources. Also, the National Parks were allegedly working with white concessionaires to harass the fishermen.
National Parks officials also work together with white concessionaires to harass us. For example, there is an arrogant agent of a wildlife safari operator [name supplied] who gets into the Lake [Kariba] and starts pulling our nets and beating us up if he finds us in areas he claims to be prohibited [from fishing]. But fishing has nothing to do with him … his job about hunting wild animals.

This was contrary to Nyikahadzoi and Songore’s (1999) study whose findings show that about 89 percent of the fishermen indicated that the relationship between them and law enforcement agents was either ‘friendly’ or ‘very friendly.’ A further study could be quite revealing as to the reasons for the change. However, the lawlessness and socio-economic decline which characterised Zimbabwe during the 2000s could have contributed to the change of relations between fishermen and law enforcement agents.

Police were also a problem. Sometimes, they forced us to lower fish prices. It’s very unfair. We are not free at all in this country. Rural District Councils lack transparency on tariffs. They don’t give enough days to lodge our objections to the tariffs. For example, our Rural District Council [name supplied] gave us three days to object to the rates they were proposing instead of 30 days [stipulated by the law].

Gillnet and kapenta fishermen caught breaking the rules remained subject to draconian punishment, which ranged from confiscation of boats and nets (McGregor, 2009) to physical abuse by the National Park officials.

Implementing Research Findings

A participatory action research which does not result in action can be, arguably, regarded as a failure. On the basis of the problems fishermen identified through the participatory action research, an action plan was drawn to engage authorities. The results of the engagement were a testimony of the power of action research as a tool for social change. There are at least four indicators of the impact of the project processes and outcomes. They include improved organization of fishermen, influencing the fishing license system, and protecting the rights of fishermen.

Firstly, as already outlined in earlier sections of this paper, the devolution of appropriate authority to the Binga and Nyaminyami Rural District Councils, created through section 95(1) of the National Parks Act of 1991 and Statutory Instruments 12/91 and 40/94, led to the establishment of the Sub-Area Fishermen Association. To some extent, the devolution created an ‘invited space’ for the fishermen to participate in fishery management. Fishermen were able to at least attend meetings where they were invited, and receive travel allowances and other perks as a reward of their participation (McGregor, 2009). However, at the time this study was conducted, the Sub-Area Fishermen Association only existed in theory as there were barely any activities in practice. Nonetheless, the space provided by the Sub-Area Fishermen Association still exists today and can
be used by fishermen at the invitation of government authorities, mainly to fulfil government agendas.

However, by creating the Kujatana Kwesu Fisheries Cooperative Union, the fishermen invented an additional space to be heard by government authorities. Fishermen had become more organized by presenting and representing themselves in the management of fishing resources. They were able to organize their own meetings where they invited government authorities such as the National Parks and Rural District Councils. Also, government authorities had recognized fishermen as a body. In the Binga Rural District Council, fishermen became a recognized body in council meetings, particularly meetings where fishing licenses and permit fees were discussed. Fishermen had also become more organized in resource mobilization. For example, they had managed to construct a fish warehouse that was funded by the British Embassy in Zimbabwe. The warehouse was commissioned by the Minister of Environment and Natural Resources on 7 March 2013.

Secondly, using advocacy skills obtained from the participatory action research, since 2009, fishermen have been challenging the fishing license and permit system through the Kujatana Kwesu Fisheries Union. On 7 March 2013, the Minister of Environment and Natural Resources acknowledged engagement with fishermen on the fishing license system.

I have received reports from the fishermen that our policies and legislation are either in competition or in duplication which has confused and inconvenienced our people by having a multi-level licensing system … This arrangement has been acknowledged as an anomaly by my ministry, and we have agreed to explore ways of addressing it so that fishermen are not overburdened. (Minister of Environment and Natural Resources, 7 March 2013)

Also, in 2009, fishermen successfully negotiated with the National Parks to have the kapenta permit fees reduced from US $500 to US $250 per rig per quarter. Similarly, the Binga RDC reduced the quarterly permit fees for gillnets from US $50 to US $30. Likewise, the quarterly permit fees for gillnets in the Nyaminyami District were reduced from US $50 to US $40. The reduction in permit fees means that the fisherman’s income increased, which would enable them to improve the welfare of their families. Thirdly, the criminalization and punishment of fishermen remain top on the fishermen’s agenda. They have engaged with government officials from local to national levels. Some efforts at the local level are supported by the following quote:

We invited the National Parks officials, the District Administrator, representatives of the Binga RDC and Zimbabwe Republic Police to ‘talk with them’ about the issue of harassment and abuse of fishermen and their wives by the National Parks officials. The [National Parks] officer who was perpetrating violence was present, but they hid him for they feared we were going to assault him. The National Parks Area Manager apologized to us on behalf of errant staff members. Since then we haven’t experienced any harassment. (Member of Kujatana Kwesu Fisheries Union, name withheld)
As a result of the fishermen’s advocacy, the Minister of Environment and Natural Resources was also looking for ways to reduce the harassment of fishermen by law enforcement agents from the National Parks and the police.

Law enforcement is one of the key result areas of my ministry. While my ministry continues to perform well on this front, despite resource constraints, of greater concern are the alleged harassment, mistreatment and abuse of fishermen by our law enforcement agents along the lake. We are aware of this disturbing trend and my directors have been sent out to the communities on a fact finding mission. (Minister of Environment and Natural Resources, 7 March 2013)

As a result of these advocacy efforts by fishermen, meetings involving fishermen, police, the National Parks, rural district councils, and the Ministry of the Local Government resulted in the reorganization of the National Parks Binga Office. It was reported that one of its officials was charged for misconduct linked to the harassment of the fishermen. It was also reported that the National Parks officials had since undergone some training in working with fishermen.

**Reflecting on Both the Process and Product of Participatory Action Research**

This paper has outlined the extent to which fishermen along the Kariba Dam used participatory action research to organize themselves to tilt access and benefit sharing arrangements towards a socially just system. To ensure that participatory action research becomes a means towards social change rather an end in itself, as this paper demonstrates, there are fundamental issues which need consideration. This suggests that the participatory action research process deserves as much attention as the product itself. This study illustrates that the participatory action research process, although it can be a messy and emotional (Cahill, 2007), effort should build consensus on the nature, extent and effects of the problem using tools such as a problem tree analysis, stakeholder analysis and planning matrices for developing action plans to address the problem. The issues that were addressed by this study appear to be manifestations of tensions in the natural resources management literature which has had an influence on the legal, policy and institutional frameworks. Also, there are issues which are manifest in the geopolitical construction of the Zambezi Valley, where the Tonga people are portrayed as backward and primitive people (Manyena, 2013), which could have had implications in the way the fishermen were treated by government officials, particularly those who hailed from outside the Zambezi Valley. A wide view of issues sets in motion the strategies of solving problems, although that may not necessarily guarantee the success of participatory action research in bringing about social change.

**The Participatory Action Research Process**

The marginalization of the Kariba Dam fishermen should be viewed as a symptom of tensions in the natural resources management debate, particularly around Hardin’s (1968) ‘Tragedy of the Commons’ theory. Since the creation of Lake Kariba, both colonial and post-colonial governments on the Zimbabwean side of the Zambezi River have restricted access to
fishing resources over concerns of overexploitation of fish stocks. However, Kolding (2003) disputes that there is overexploitation of fish stocks as inshore fishery stocks are said to be only moderately exploited and underutilized in Zimbabwe. The Zimbabwean government has justified the use of strict regulatory mechanisms on the basis of Hardin’s (1968) ‘Tragedy of the Commons’ theory where it is argued that in the absence of any control mechanism, common or open access to a productive resource, like fish, leads to its overexploitation. This is despite some empirical evidence suggesting that some forests, rangelands and fishing areas which are neither state property nor private property have persisted for decades and even centuries (Gilles and Jamtgaard, 1982; Sandford, 1983; Ostrom, 1990; Moxnes, 2000; Rogers, 2010). As a result of adopting a conservation and bio-centric ‘fish first-fisher last’ rather than ‘fisher-first fish last’ resource management regimen, the fishermen have been presented by government authorities as criminals, irresponsible, unreasonable and irrational beings who deserve punishment should they fail to conform to and comply with the rules. Yet, the opposite might be true: it is the state that has displayed some irrationality and arrogance towards its people; it has transformed a previously complex integrated knowledge system of resource management that supported the livelihoods of the Tonga people to the existing dysfunctional assemblage of fragmented systems (Mhlanga, 2009). This perhaps calls for more research that involves fishermen as co-researchers so they can challenge some of the assumptions of the studies.

Notwithstanding, the argument that the natural resources management is riddled with contestations, which can misinform policy and practice in certain situations, can provide a solid foundation for a sustainable resource management regimen. Here the marginalization of fishermen, as this study demonstrates, may be a failure by technocrats to interpret the natural resource management regulations. In some ways, the conflict between fishermen and state authorities, for example, on the fishing licensing system and unjustified criminalization and abuse of fishermen by law enforcement agents, could point to limited understanding of the fishery regulations by both the technocrats and the fishermen themselves. In this study, dialogue during meetings such as the participatory review of the National Parks and Wildlife Act involving stakeholders together with fishermen, provided an opportunity for them to build consensus on key barriers towards improved access and benefit-sharing of fishing resources along the Kariba Dam. This was important for another reason. The review of the legal instruments helped the stakeholders refine the issues that needed to be changed. Equipping fishermen and their stakeholders with knowledge and legal information on the natural resource management system fostered some level of confidence in a manner where they would advocate for socially just access and benefit-sharing arrangements of fishing resources.

Moreover, considering the geopolitical implication that the Tonga people are backward and primitive built grassroots political work that would be durable and result in a sustainable and democratic fishermen’s organization, which was critical. Advocacy training provided the fishermen with skills for building political power to change society. Building a grassroots organization, social problem analysis, conflict management, social transformation, communication, dialogue, and lobbying were some of the skills that fishermen and stakeholders
received from the technical support team. These skills, it can be argued, could have reduced the inferiority complex and ‘fear of officials’ during the fishermen’s advocacy work, because the Tonga people tend to consider themselves inferior to other ethnic groups such as the Shona and Ndebele (Manyena, 2013).

**The Product of the Participatory Action Research Process**

Participatory action research that does not result in positive political change, particularly for those who have been systematically excluded, oppressed or denied by unjust social arrangements, could be considered a failure (Pain et al., 2007; Kindon et al., 2007). This paper demonstrates practical benefits of participatory action research. The implementation of the research findings by the fishermen and stakeholders brought positive change in the licensing system, suggesting that the access and benefit-sharing arrangement was leaning in favor of the fishermen. The government officials acknowledged the anomaly in the licensing system, and promised to rectify the situation.

Also, the concerns regarding mistreatment and abuse of fishermen received attention from government officials, which had negative and unintended impacts that led to the reorganization of the National Parks offices. As a result, some government officials either lost their jobs or were transferred to locations outside the Zambezi Valley. Nonetheless, the results could be a demonstration that the fishermen’s concerns were taken seriously by government officials.

However, underlying the actions taken by the fishermen to resolve issues around the fishing licensing and criminalization of fishermen appears to be that the political power of the fishermen was gradually being recognized by stakeholders. The formation of the Kujatana Kwesu Fisheries Union provided the fishermen with some leverage of political power and agency to present and represent themselves in ensuring a socially just system of accessing and benefit-sharing.

**Conclusion**

This paper demonstrates that tensions over improved access and benefit-sharing of fishing resources along the Kariba Dam are underpinned by the politics of marginalization of the Tonga. Thus, this study has shown the practical benefits of both the process and the product of participatory action research. Although the participatory action research process can be ‘messy,’ the findings appear to demonstrate that building consensus on issues that need resolving, as well as having the capacity to move key stakeholders into action, is critical. Importantly, this study also demonstrates the benefits of researchers and research-users to have collaborative power and agency to challenge the status quo while also widening the access and benefit-sharing arrangement options for the marginalized fishermen. The results of this study may resonate not only with challenges facing marginalized fishermen elsewhere, but they may be applicable to access and benefit-sharing issues more widely.
References
Current Situation of Agricultural Trade: 
What Effects Does It Have on Food Security in Africa?

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Abstract
The history of food policy in Africa started with the beginning of independence with the adoption of the strategy based on the planned development model. However, the financial and administrative planning requirements were felt quickly. By the early 80s, the debt crisis led African economies to abandon the policy of self-sufficiency and to adopt a so-called liberal agro-food strategy. In this context, food security based on external trade and its requirements became integral parts of structural adjustment programs. Thus, Africa took a stand before the rest of the world in the controlling of extraversion. Despite mixed results, in January 1995, Africa strengthened its accession to a liberal system by adopting the agreement on agriculture (AoA). Again, the promises would not match up to the results. In fact, the sector remains far from the liberal recommendations advocated by the World Trade Organization (WTO). Between protectionism and bilateralism, the liberalization of agricultural products was certainly imperfect, but full of future promise for Africa. A more just and multilateral agreement based on development issues is one of the cornerstones of trade that connects to food security.

Keywords: trade openness, food security, Africa, agreement on agriculture, JEL Classification: F13

In the early 1980s, Africa adopted a food strategy based on external trade. Thus, the continent was opened before the rest of the world. In 1995, the other members of the new World Trade Organization (WTO) came to join the continent by adhering to the Multilateral Agreement on Agriculture (AoA). This commitment should have ensured Africa’s food autonomy, distributed the cards of the game between different countries, and erased substantially the distortions of agricultural trade.

Many studies predicted the significant gains to Africa in the long-term, despite some imbalances in food security in the short-term. Nearly eighteen years after the adoption of the Sasakawa Africa Association (SAA), the WTO members have not liberalized agricultural products. The distortion measures persist and have spread to all actors of international trade, and access to markets remains relatively difficult. Yet in the meantime, in 2008, there had been an unprecedented reversal of agro-food markets. In a few days, the price of food products experienced an unprecedented increase. Many populations of the developing world, especially in Africa, demonstrated and demanded "the right to eat." This was the beginning of the revolts for the hungry.

Despite this fact and a willingness to stop the extension of the Doha Round, the WTO is struggling to find an agreement on the issue of agriculture. December 7, 2013 marked the
conclusion of the Doha agreement, or at least its rescue. The date would mark the conclusion of a new agreement on agriculture that is still struggling to be defined. In this context, the objective of this article is to give a brief assessment of the current state of trade liberalization of agricultural products, and its potential effects on food security in African countries while showing that international trade is likely to improve the situation of food security in African countries, but under what conditions? This is the question that I intend to address in this paper.

The African countries are dependent on food imports so the objective of the study is to analyze the effects of trade liberalization on food security based on the capacity of the countries to finance food imports through their export revenues. In order to do this study, we used a methodology based on descriptive analysis of the data that comes from the following main bases: OECD (Organization for Economic Co-operation and Development), WTO, UNCTAD (United Nations Conference on Trade and Development), and the Center of International Trade.

**Persistence of Protectionist Agricultural Policies**

Agriculture is one area in which the liberalization of business collides with the protectionist trade policies of some WTO members. The sector's situation is characterized by an impeded access to the market and a standardization of anti-competitive practices that seem to have become a customary strategy more or less tolerated, despite objections.

**Hindered Access to the Market**

For a long period, agriculture has been regarded as a specific sector. Thus, it does not meet the same requirements as other sectors (Wongkaew, 2010). Its openness should be done gradually while taking into account the reservations of the WTO members and without undermining the food security of their populations. It is in this light that the AoA improved the market access for its different members (Carreau and Juillard, 2005). Its revenues, although controversial, cannot be denied. Even if it turns out that the tariffs applied to agricultural products remain relatively higher than those of industrial products (Graph 1), that is not the problem. It probably resides in the methodology of the taxation, and its impact on the structure of small economies like the African economies (FAO, 2003).

![Figure 1: Average of Duties / Tariffs in the World. Source: Data WTO.](http://scholarworks.wmich.edu/ijad/)
Furthermore, the fixation of the tariffs based on the value of the product seems to be common sense: the products are sold at different prices depending on their nature and their level of processing on the market. Progressivity has therefore emerged as a more or less equitable method. However, behind a goal may hide another, less transparent and protectionist, whose effects can be damaging to the other members that participate in international trade.

As part of the comparative advantages theory, it appears that the revenues in trade come from the nature of the specialization of an economy. In other words, a specialization is advantageous depending on the nature of the goods produced by a given economy. In practice, the more a product is processed, the greater its value. However, although initially an economy is specialized in the production of commodities with low value added, it must participate in international trade because specialization is not a static process. The rise in the value chains is always possible. However, the progressivity of tariffs produces an opposite effect and reinforces, to some extent, the specialization of African countries in the production of commodities that remain highly subject to market fluctuations (ECA, 2013). In 2011, the agricultural commodities represented 10% of the total merchandise exported by Africa while the share of finished products represented 3.5% (WTO, 2012).

While the AoA called to facilitate market access of tropical products (the main source of income for African countries), it seems that the response differed depending on the degree of transformation of the product (Table 1). Take the example of cocoa, the raw material was taxed respectively by the United States, the European Union, Japan and Canada to 0%. When it came to chocolate, the tariffs tended to increase considerably depending on the strategy of the preceding importing country (Table 1). In countries like Ivory Coast, Cameroon, Nigeria and Ghana, parts of chocolate products have tended to regress since 1970. The case of Nigeria provides a good illustration of the negative effect that the progressivity of the tariffs can have on the structure of African exports. Nigeria is the fourth largest producer of cocoa in the world. Cocoa has been the second most exported product after oil in this country since 2007. The cocoa exports increased by 47% between 2006 and 2010 reaching 822.8 million dollars. Again, only about 20% of Nigeria's cocoa production is processed locally. The rest is exported non-transformed. The paradox is more striking when one considers that Nigeria imports a large share of chocolate from Europe and the United States. Nigeria would profit if it produced chocolate not only to meet domestic demand, but also to conquer new markets and to develop a whole range of products derived from the raw material: cosmetics, food (like confectionery, biscuits, etc.). In this example, one can easily infer the potential impact of “progressive tariffs [...] on the process of transformation of the agricultural products; that is to say the various stages of transformation of a commodity like cocoa into finished products like chocolate” (ECA, 2013).
### Table 1

**MFN Bound Average Tariffs in Major Importing Developed Countries, Selected Products**

<table>
<thead>
<tr>
<th>Product</th>
<th>Primary / Degree of Processing</th>
<th>EU</th>
<th>UE</th>
<th>Japan</th>
<th>Canada</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cocoa</td>
<td>Beans</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Chocolate</td>
<td>6.9</td>
<td>21.1</td>
<td>21.3</td>
<td>59.0</td>
</tr>
<tr>
<td>Coffee</td>
<td>Unripe</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Roasted</td>
<td>0</td>
<td>9.0</td>
<td>12.0</td>
<td>0.4</td>
</tr>
<tr>
<td>Oranges</td>
<td>Fresh</td>
<td>3.5</td>
<td>16.7</td>
<td>24.0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Juice</td>
<td>11.0</td>
<td>34.9</td>
<td>31.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Ananas</td>
<td>Fresh</td>
<td>1.2</td>
<td>5.8</td>
<td>12.1</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Juice</td>
<td>4.1</td>
<td>11.6</td>
<td>24.3</td>
<td>0</td>
</tr>
<tr>
<td>Hides and Skins</td>
<td>Raw</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Tanned</td>
<td>3.0</td>
<td>5.4</td>
<td>23.5</td>
<td>6.3</td>
</tr>
<tr>
<td>Sugar</td>
<td>Raw</td>
<td>32.8</td>
<td>134.7</td>
<td>224.9</td>
<td>8.5</td>
</tr>
<tr>
<td></td>
<td>Refined</td>
<td>42.5</td>
<td>161.1</td>
<td>328.1</td>
<td>107.0</td>
</tr>
</tbody>
</table>

*Source: Calculations of the FAO services.*

Besides the progressivity of tariffs, one can observe that the levels of tariffs are abnormally high on certain products (Abdelmaliki and Sandretto, 2011). Tariff peaks do not concern only tropical products, but almost all agro food products (Table 2). This situation can reinforce the specialization of African countries in the production of basic agricultural commodities and not those more intensive in capital, and thus with higher added value. The opening of international markets could contribute to encouraging African countries to produce more sophisticated goods in order to conquer new markets and to improve their ability to export while meeting domestic demand. It is difficult to consider that market access of the Sub-Saharan Africa (SSA) members has been improved because the essential tariff protection was not dismantled (Ben Hammouda et al. 2005). For example, Switzerland applies the maximum most favored nation (MFN) tariffs that are lower than or equal to 1000 on a number of products like dairy, animal origin, fruits, and vegetables, and greater than 100 on other products like tea, coffee, beverages, tobacco, sugar and sweets. Table 2 provides more information about the persistence and pervasiveness of these tariffs to "alpine silhouettes" (FAO, 2004). Therefore, market access is not the only aspect of the AoA that is disputable or controversial.
Table 2

<table>
<thead>
<tr>
<th>Product</th>
<th>MFN tariffs means (1) / and maximum (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Canada</td>
</tr>
<tr>
<td>Products of Animal Origin</td>
<td>30.5</td>
</tr>
<tr>
<td>Dairy products</td>
<td>246.8</td>
</tr>
<tr>
<td>Fruits, vegetables, plants</td>
<td>3.5</td>
</tr>
<tr>
<td>Coffee, tea</td>
<td>10.4</td>
</tr>
<tr>
<td>Cereals and other preparations</td>
<td>20.3</td>
</tr>
<tr>
<td>Oilseeds, fats and oils</td>
<td>4.8</td>
</tr>
<tr>
<td>Sugars and sweets</td>
<td>5.0</td>
</tr>
<tr>
<td>Beverages and tobacco</td>
<td>4.2</td>
</tr>
<tr>
<td>Cottons</td>
<td>0.0</td>
</tr>
<tr>
<td>Other agricultural products</td>
<td>9.0</td>
</tr>
</tbody>
</table>


The Anticompetitive Practices: Use Strategy

Market access is not the only point of the ASA that is controversial today and must be renegotiated. The AoA has some positive points, but those will not be in question in this study. One of its merits is that it has the ability to distinguish between the "good and bad" subsidies in order to limit trade distortion, and to make as clear as possible international trade (Zouré, 2011). Subsidies have often been the point of contention in international negotiations, particularly because of their damaging effects on the prices of food products and ultimately on the economies of the countries that export those products (Ben Hammouda et al., 2005).

However, even though the AoA have gradually reduced the support for distortion, they remain in use. Between the period of 1986-1988 and 2009, the subventions accorded to OECD producers increased by 4.75% (Table 3). Over the same period, the share of support for market prices fell by 38 (82%) (Table 3) in favor of support to inputs and revenues which, according to current indicators, have the largest distortion effect on trade (Rainelli, 2007). Those measures counteract the market forces and divert the flow of north south trade to the chagrin of African countries (Baldin, 2011). In fact, regardless of their nature, when the subsidies distort the market,
they generate a surplus of production, and thus lead to lower world prices for the products concerned, and this practice compounds the detriment to African countries because their revenues from exports decline. Thus, a significant proportion of the rural population turns from this activity and moves to big cities in search of a better life. In most cases, this simply contributes to increase the degree of insecurity and poverty in African cities (Raman, 2005).

Table 3

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Estimation of Support to Producers (PSE)</strong></td>
<td>239,160</td>
<td>254,048</td>
<td>246,287</td>
<td>261,074</td>
<td>250,523</td>
<td>227,265</td>
</tr>
<tr>
<td><strong>Supporters at market prices (1) (MPS)</strong></td>
<td>183,756</td>
<td>171,573</td>
<td>108,516</td>
<td>111,623</td>
<td>112,411</td>
<td>101,515</td>
</tr>
<tr>
<td><strong>WHOSE part of MPS (in %)</strong></td>
<td>76,83</td>
<td>67,53</td>
<td>44,06</td>
<td>42,75</td>
<td>44,83</td>
<td>44,66</td>
</tr>
<tr>
<td><strong>Support to inputs (2)</strong></td>
<td>20,171</td>
<td>24,041</td>
<td>32,797</td>
<td>34,182</td>
<td>31,640</td>
<td>32,569</td>
</tr>
<tr>
<td><strong>WHOSE in % of MPS</strong></td>
<td>8,43</td>
<td>9,46</td>
<td>13,31</td>
<td>13,09</td>
<td>12,62</td>
<td>14,33</td>
</tr>
<tr>
<td><strong>Income support and area (3)</strong></td>
<td>18,735</td>
<td>41,778</td>
<td>35,663</td>
<td>38,237</td>
<td>35,437</td>
<td>33,315</td>
</tr>
<tr>
<td><strong>WHOSE in % of MPS</strong></td>
<td>7,83</td>
<td>16,44</td>
<td>14,48</td>
<td>14,64</td>
<td>14,14</td>
<td>14,65</td>
</tr>
</tbody>
</table>

Source: OECD, Database PSE and CSE, 2011. P = Provisional calculation, MPS = market price support. The numbers (1), (2), (3) and (4) indicate the level of the trade distortion by measurements.

To avoid the scenario depicted and maintain the export revenues at a suitable level, one possible solution is to subsidize domestic producers. This is a solution that has the disadvantage of increasing market instability while decreasing the foreign exchange reserves. In other words, the subsidies create a vicious circle that encloses the African countries in the ruts of pauperization.

Subsidizing domestic producers is more detrimental when it is known that the most subsidized products continue to be food products (Table 5). For example, it is estimated that the wheat received in 2008-2010 garnered 2,815 million USD in all of the OECD countries. Yet, this product is by far one of the least subsidized foods. For comparison, rice received 17,657 million USD during the same period, which is more than six times the amount for wheat (Table 4).
Table 4
*The Transfers to Producers of a Single Product (TSP) Million USD*

<table>
<thead>
<tr>
<th>Products</th>
<th>1986-88</th>
<th>1995-97</th>
<th>2008-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSP to producers</td>
<td>16,020</td>
<td>3,673</td>
<td>2,815</td>
</tr>
<tr>
<td>TSP in percentage</td>
<td>43.2</td>
<td>8.8</td>
<td>5</td>
</tr>
<tr>
<td>Corn</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSP to producers</td>
<td>11,012</td>
<td>2,724</td>
<td>2,849</td>
</tr>
<tr>
<td>TSP in percentage</td>
<td>36.2</td>
<td>7.4</td>
<td>3.9</td>
</tr>
<tr>
<td>Rice</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSP to producers</td>
<td>25,346</td>
<td>31,241</td>
<td>17,657</td>
</tr>
<tr>
<td>TSP in percentage</td>
<td>79.8</td>
<td>75.4</td>
<td>54.3</td>
</tr>
<tr>
<td>Colza</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSP to producers</td>
<td>1,833</td>
<td>52</td>
<td>140</td>
</tr>
<tr>
<td>TSP in percentage</td>
<td>47.5</td>
<td>1.2</td>
<td>1</td>
</tr>
<tr>
<td>Sunflower</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSP to producers</td>
<td>1,161</td>
<td>75</td>
<td>153</td>
</tr>
<tr>
<td>TSP in percentage</td>
<td>47.3</td>
<td>4.5</td>
<td>5.4</td>
</tr>
<tr>
<td>Soy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSP to producers</td>
<td>1,101</td>
<td>354</td>
<td>1,646</td>
</tr>
<tr>
<td>TSP in percentage</td>
<td>8.7</td>
<td>2</td>
<td>4.6</td>
</tr>
<tr>
<td>Sugar</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSP to producers</td>
<td>4,988</td>
<td>5,727</td>
<td>2,659</td>
</tr>
<tr>
<td>TSP in percentage</td>
<td>50.8</td>
<td>41.2</td>
<td>22</td>
</tr>
<tr>
<td>Milk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSP to producers</td>
<td>45,217</td>
<td>42,226</td>
<td>12,760</td>
</tr>
<tr>
<td>TSP in percentage</td>
<td>59.2</td>
<td>44.7</td>
<td>10.6</td>
</tr>
<tr>
<td>Bovine meat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSP to producers</td>
<td>18,034</td>
<td>19,805</td>
<td>13,882</td>
</tr>
<tr>
<td>TSP in percentage</td>
<td>27.8</td>
<td>25.1</td>
<td>13.7</td>
</tr>
<tr>
<td>Sheep meat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSP to producers</td>
<td>4,284</td>
<td>4,085</td>
<td>1,522</td>
</tr>
<tr>
<td>TSP in percentage</td>
<td>51.7</td>
<td>39.8</td>
<td>14.7</td>
</tr>
<tr>
<td>Poultry meat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSP to producers</td>
<td>3,224</td>
<td>5,019</td>
<td>8,662</td>
</tr>
<tr>
<td>TSP in percentage</td>
<td>13.3</td>
<td>13.7</td>
<td>14.1</td>
</tr>
<tr>
<td>Eggs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSP to producers</td>
<td>3,379</td>
<td>2,374</td>
<td>1,545</td>
</tr>
<tr>
<td>TSP in percentage</td>
<td>21.6</td>
<td>12.3</td>
<td>5.3</td>
</tr>
</tbody>
</table>

Source: OECD, Database PSE and CSE, 2011.
Table 4 does not present an exhaustive list of the subsidized products. There are others like cotton that are supported by direct aid. Direct payments are to ensure a minimum income to farmers regardless of the quantity of production (decoupling). These products were introduced within the Common Agricultural Policy of the European Union in 1993, and are an integral part of the US Farm Bill (American agricultural policy) (Desriers et al., 2009). They are also increasingly used by emerging countries like China, India, and Brazil. This practice has been strongly criticized because of the negative impact that it has had on the African cotton producers.

Since 2002, the US Farm Bill has increased the level of aid to US producers. This increase has resulted in an overproduction of cotton that has led to a decrease in world prices. In 2001, the US cotton farmers received $311 billion of support. This decision had a strong detrimental impact on the economy of some African countries, like Burkina Faso, Benin, Chad, and Mali, for whom the export revenues for cotton accounted 5-10% of GDP and 30-40% on average of the total export revenues in 2001. On June 10, 2003, the President of Burkina Faso, Blaise Compaore, said in the committee meeting of WTO trade negotiations, “By this, Burkina Faso lost in 2001, 1% of its GDP and 12% of its export revenues, Mali 1.7% and 8%, and Benin 1.4% and 9%. The very high levels of the subsidies accorded to the cotton producers in certain member countries of the WTO are one of the direct causes and major problems encountered by the world cotton market. These subsidies artificially increase the offer on international markets and depress export revenues” (Stiglitz and Charlton, 2005). The union of these countries into the multilateral trade negotiations of the Doha Round (named the group C4) resulted, in late 2005 at the Hong Kong Conference, in the decision to suspend all forms of the subsidies on cotton. However, this decision was not implemented because of China's opposition. In March 2011, the cotton prices had reached a record level in the markets, which was $2.27 USD on the pound, and declined under the pressure of an abundant supply to 70 cents USD. Volatility is one of the problems created by trade distortion, and another problem that undermines trade and development of much of the developing world. The case of cotton provides a good illustration of what distortion to trade is, and why it seems necessary to guard against this anti-competitive practice. Beyond this, it recalls how, it is not always easier to choose between “good and bad subsidies.” A subsidy may hide one problem from another with a pernicious effect on international trade.

Food Security and Trade Negotiations: The Cleaving Other Aspects of the SAA

The way the AoA was envisaged has undermined food insecurity. Indeed, food security appears to have been compromised in African countries, the big loser in globalization. The current impasse of the Doha Round has not facilitate the situation, and has contributed to its deterioration.

An Agreement that Undermines Food Security

The period before the beginning of the SAA had sparked hope for the long-term improvement of food security in African countries. Aware that in the short term, the increase in prices due to the reduction of the subsidies to farmers and the decrease of the customs tax would have a potentially detrimental effect on food security of developing countries that are net food
importers, some provisions were adapted under special and differential treatment (SDT) to absorb these effects.

In the long-term, the remediation of agricultural trade should open new market opportunities for African countries. The conquest of the new markets on a more equitable basis might have encouraged countries to develop the agro-food sector in order to go up in the value chain of agricultural products. That is to say to leverage effects that increase the export revenues of these countries (Eba Nguema & Assoumou, 2014).

However, almost eighteen years after the beginning of the implementation of the Marrakesh Agreement, the protectionist agricultural policies of various members have been partially dismantled. On the tariff level, in accordance with what was mentioned in the preceding paragraphs, the core of the protection persists. Progressivity, escalation and tariff peaks remain relevant and contribute to diminishing the efforts to promote access to member markets. All these measures have had a negative effect on trade diversification of African countries and, to some extent, on their export revenues. The purchasing power of these countries has also been affected by the proliferation of the subsidies beyond the regulatory mechanisms of the WTO. The proliferation of the subsidies has distorted the effect and incited the subsidization that ultimately increases volatility and market instability. On March 23, 2012, 44 African countries were designated as net food importers by the Agriculture Committee of the WTO. These included 34 LDCs that are highly dependent on revenue from the export of the agricultural commodities. How can the import of food be financed when the prices of the products that one exports are increasingly unstable? How can the peasantry be maintained when the purchase price of farm products decreases? The blockage of the Doha Round and the current economic crisis have continued to reinforce the concerns that the different participants and observers have faced since they are related to higher costs of anticompetitive practices, and are impacting the economic and food situation of African countries.

Impasse in the Doha Round

On November 14, 2001, representatives of world trade met in Doha under the auspice of the WTO, and began the first round of negotiations of the young organization. Its main objective was to correct the mistakes of the past by giving more prominence to developing countries in international trade. According to Article 2 of the Doha Declaration, the members agreed that "international trade [can] play a major role in promoting economic development and poverty reduction. [They also recognize] the need for all [people] to take advantage of the opportunities and welfare gains that the multilateral trading system generates. [Going from the observation that the majority of WTO members are developing countries, they agree to integrate] their needs and interests at the heart of the Work Program adopted in this Declaration." It was an ambitious day that opened the Doha Development Agenda considering that only a few years earlier, in 1999, the Seattle ministerial conference ended in an acrimonious climate marred by anti-globalization protests and opposition from developing countries to the Singapore issues (Madeley, 2006). No doubt, the enthusiasm of a new round promising "growth, development and prosperity" declared
by the US Trade Representative Robert Zoellick had momentarily cleared the Seattle divisions. However, the participants were not counting on the interest, the game of alliances, the oppositions, and north-south antagonism. It seemed that the WTO had become what UNCTAD was in the 60s - a place of confrontation between north and south, although in practice the reality was more diverse. There was one reason for this situation. While the Doha Round should have been completed by 2003 in Cancun, Mexico, this end was constantly programmed to a later date. Why this extension? The reason was tied to the obstinacy of the developing countries to focus their voices on issues that reflected their interests and not on engagement in trade negotiations that might affect them, and more generally to obstruct trade development (Stiglitz, 2005). This is probably why agriculture remains one of the points that blocks trade negotiations. In fact, agriculture was the area on which the developing countries were ready to focus their efforts provided that the most developed countries agreed to do the same. If not, the negotiations would follow a path of anticompetitive practices to the detriment of the smaller economies. Beyond the nature of the sector and its financial and strategic importance, the main difficulty blocking the progress of the current negotiations came from the fact that the sector had remained too far out of the reach of International trade rules (Dufourt, 2012). This situation created the winners and the losers. Whereas the negotiations were to equitably redistribute the cards of the trade game between the different members, it became evident that the winners were less inclined to apply the liberal orthodoxy advocated by the WTO (Voituriez, 2009).

Nevertheless, recent years seem to bring good omens and portend a favorable outcome to the Doha Round. In 2011, in Geneva, members apparently found the convergence points in almost all discussions on agriculture despite some misgivings from Japan and Canada on proposals affecting sensitive and special products. Members must resolve differences between China, India and the United States concerning the threshold for special safeguard measures and corrective action. The question remains whether the rate could exceed the previous bound rate in the Doha Round. Until a consensus can be found, agriculture will continue to obstruct the smooth functioning of the multilateral system and make a game for bilateralism (Lamy, 2006).

Although December 17, 2013 in Bali, the closure of the Doha Development Round was initiated, the agricultural issue remains unresolved and impaired by antagonism and by the emerging countries who are against the traditional agricultural powers. Yet the current situation of the international agro-food market argues for an efficient reform of the sector. It only makes good sense that the different members should find a solution that can satisfy the different positions involved.

**Fairer Multilateral Trade**

This section will discuss some suggestions that can ensure a better fit for African economies as to affect the opening of the agriculture sector for food security. This will be done by analyzing market access and subsidies.
Promoting Market Access

The food security objectives often differ from those of opening trade, but "for fairer trade" based on development, it is important to pay special attention to the aspects that can have a positive and not a destabilizing effect on the developing economies. Knowing that the link between development, agriculture, poverty and food is important, the current negotiations should take into account the agro-food situation that is particularly delicate in the African countries that are promoting products for which they have a comparative advantage by gradually opening the sectors that are most sensitive to international competition.

As part of the future "Bali Package" in the agricultural section, it would be desirable to give primacy to tropical products that are the main sources of foreign currency for African countries. These countries should have easier access to the external markets. The tariffs should therefore be lower than those applied to other agricultural products. The goal is to facilitate their marketing. Similarly, in accordance with what was mentioned in the previous sections, a sensible approach in this area would be that the sanitary and phytosanitary standards should be reduced at the international protection threshold. In this context, any other form of redundant protection must be removed.

Beyond the measures for increasing export revenues, the whole point of this agreement relies, in the long term, on its ability to encourage the African countries that import food products to stimulate and promote food production. To do this, the new measures of the SAA should allow these countries to maintain a level of efficient protection. In fact, the tariff thresholds granted to emerging countries such as China, India, Taiwan, and Brazil should not be similar to those granted to the African countries that are net food importers. This is similar concerning the adjustment period. Moreover, the concept of special products should be redefined in order to extend the scope in a larger portion of developing countries. When does a product present a particular interest for a country or a population? Beyond the economic aspect, the food security aspect seems to be a determining factor in the concept of product sensitivity. Those products considered as sensitive would be any cereal product that is used for the alimentation of the population or the animals in the poor and net food importing countries.

Also, contrary to the ideas received, all were not addressed in the tariff plan. While NTBs represent the most pernicious forms of protectionism in comparison to the preceding forms, it seems that the members have not attacked the core of tariff protection. The tariff peaks and progressivity as a method of fixing tariffs lead to tariff escalation. In other words, significant differences exist in the different levels of agro-food processing. In the previous sections, we took the example of the FAO Aid. Gaps existed between beans, powder and cocoa paste. The conclusion arrived at was that these abnormally high rates spoiled any hope of diversification and progression in the value chains in the countries that are major exporters. At this time of the agribusiness, it would be important that the SAA eliminate such practices. Tariff escalation often indicates the existence of the peaks applied to certain products like dairy, cereal and others. A rebalancing of the applied tariffs must be conducted to remove the peaks, and allow tariffs to lose their Alpine
aspects. But all these measures can have meaning only if they are accompanied by the elimination, or substantial reduction, of the subsidies.

**Overcoming the Grants**

The subsidies given to production or exports have contrasting effects on the prices of the agricultural products. They increase the variability and the depreciation of prices. Agriculture remains, despite the existence of the SAA, "a lawless zone" in which, within a few years, the developed economies can become commercial powers because of subsidies. At the time of writing this work, the new farm bill has not been passed, but it has already raised many concerns about the amount of aid accorded to the American farmers. One of the consequences of the subsidies is that they create a diversion of the trade flow to countries that produce greater quantities at low prices. In other words, they distort competition. The recent episode of African cotton gave a good illustration of the possible effects of subsidies on smaller economies. To redistribute the cards of the game, it would be important to proceed to the total elimination of all forms of export subsidies on products that compose a major part of the export revenues of developing countries, except the measures that have a neutral effect on trade.

Furthermore, the implementation of such measures would require a certain transition period to cushion the potential damaging impact of the increase of prices resulting from a substantial reduction of the subsidies on the net importer countries. But, the fairness is that the countries that have been adversely impacted by the lower prices of commodities must be "compensated." To do this, one solution concerns the ability of the WTO to authorize an exceptional use of production subsidies in order to boost food production of the small net food importing economies. This subjection is not for seeing the developing economies distort the competition. The goal is to repair, at least in part, the injustice suffered.

**Conclusion**

The multilateral agreement on agriculture appears today, in many ways, unsuited to trade of agricultural products because of its nature to know and lay the bases for long-term fair trade. This is probably why it was, in the first years of its existence, called upon to be supplemented by a series of trade negotiations. However, almost fourteen years after the launch of the Doha Round, no agreement has been reached on this question. Nevertheless, its rescue comes from a willingness of the WTO, and its members, to end commercial antagonism and find "common ground" to reach a new agreement on agriculture that promises to be more complete and less flexible in regulating exchanges. However, to satisfy all members, the food security of countries most exposed to the situation of the breaking of the policies must be taken into account, at least on behalf of fairer multilateral trade. Beyond the fairness, the solution must lead to the reparation of the commercial security of African countries with a commercial, and not just financial compensation, according to the slogan of the developing countries in 1964 in Geneva, "Trade not aid."
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Collapsing Microfinance Institutions in Ghana: 
An Account of How Four Expanded and Imploded in the Ashanti Region

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Abstract

The study inquired into why microfinance institutions (MFIs) collapsed in the Ashanti Region of Ghana. The authors found that the problem related primarily to unduly risky, unethical and illegal practices, mismanagement and disregard of due diligence, which when convoluted by external factors like macroeconomic instabilities and panic withdrawals, pushed the risk levels of MFIs beyond the point of containment. We argue that the 2013 macroeconomic crisis in Ghana only contributed to the huge number MFIs involved and the pervasiveness of the collapse – the crisis was not a root cause.

Keywords: microfinance, collapse, Ghana, bankruptcy, MFIs.

In response to rampant collapse and disappearance of MFIs or Susu companies and financial service providers (as they were then called), the Bank of Ghana moved in to close down a number of such financial institutions countrywide in 2008 (Belnye, 2011). But the problem will not go away only to rear its head since 2013 in a continual and more devastating manner. In the first quarter of 2013, about thirty MFIs collapsed in Ghana due to an alleged inability to “sustain their operations.” Later in the year, additional twenty also became insolvent. The number keeps on adding up. Recently, one MFI became bankrupt and swindled over 5000 clients. Many of the customers had saved up colossal sums with the MFI.

There is no deposit insurance in Ghana, therefore, when MFIs collapse, customers irretrievably lose their working capital, savings and their sources of livelihood – their businesses are likely to collapse, which further predisposes them to indebtedness and consequentially,

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1 Susu is a local language which means deposits or savings.
2 MICROCAPITAL BRIEF: Thirty Microfinance Institutions (MFIs) Close in Ghana: http://www.microcapital.org/:
The customers, most of whom had huge deposits with those institutions could not get a refund for the owners could either not be traced, or where they were traced, they failed to raise the requisite funds to pay the customers
3 http://thebftonline.com/content/bank-ghana-asked-toughen-microfinance-regulation
4 Lord Winners Microfinance swindles over 5,000 customers
impoverishment. In this way, instead of reducing poverty, microfinance could create additional cohort of poor population. Further, the public needs to have confidence in financial institutions to patronize their services; the collapse of MFIs is therefore a bad press for Ghana’s finance sector. In a country whose microfinance penetration to the low-income population is as low as 9 percent, it is also detrimental for existing MFIs. Therefore, the urgency of the need to investigate why commercial MFIs collapse in Ghana is extremely important in order to minimize the possibility of repeating the same errors in the future.

This review also contributes to academic literature on MFIs collapse. Four collapsed MFIs in the Ashanti Region were selected and studied. Additional information was gathered from the Other Financial Institutions Supervision Department (OFISD) of the Bank of Ghana and the Ghana Microfinance Institutions Network (GHAMFIN). The information gathered from the six institutions through interviews and other medium and from the public, constituted the primary data for the study. To enhance the comparability potential of the findings, secondary sources of information on MFIs in Ghana and elsewhere were incorporated in the study. The study is structured as follows: The next section presents the methodology of the study where we discuss the tools, techniques and procedures employed in gathering the data for the study as well as the challenges the study encountered and the limitations of the study. We present the findings in the third section. In the final section, we discuss the implications of the findings for policy and conclude the study afterwards.

Primary Data Collection

Initial interviews with Bank of Ghana (BoG) and the GHAMFIN staff

In Ghana, among other functions, the BoG has overall supervisory and regulatory authority in all matters relating to banking and non-banking financial business including awarding license of operation to all financial institutions. In response to its widening supervision and monitoring duties, in August 2013, the Bank established the Other Financial Institutions Supervision Department (OFISD) to oversee rural banks, forex bureaus and MFIs. The OFISD was contacted for the study obviously because of its role in the microfinance sector of Ghana as the regulator. In the course of discussing the study with two researchers and field officers of the Department, some others took interest in the subject and joined the discussion. Therefore, it eventually became a spontaneous focus-group discussion with five staff of the Department. Some days later, the officer of the Bank assigned to our study emailed us a written response to the questions in an interview guide we sent them. The researchers later contacted them by phone to clarify grey issues that emerged in our interviews with the former employees of the collapsed MFIs.

5 Of Ghana’s working-age population below the poverty line, only 9 percent have microloans (See Schicks, 2011)
6 http://www.bog.gov.gh/
7 For instance, it emerged in the course of the interviews with the former employees of the defunct MFIs that the BoG has introduced a biometric software, which helps to track and verify the borrowing history of clients to prevent
In addition to the Bank of Ghana, the Ghana Microfinance Institutions Network (GHAMFIN) was also contacted. The GHAMFIN is the umbrella network body for MFIs operating in Ghana. It was formed in 1998 as a company limited by guarantee with the support of the World Bank because of concerns of some Ghanaian MFIs for the development of best practices in the delivery of microfinance services (GHAMFIN, 2014). The GHAMFIN seeks to promote the growth and development of the microfinance industry in Ghana and present a common platform for the Rural & Community Banks, Savings & Loans Companies, Credit Unions, Financial NGOs, Microfinance Companies and Microinsurance companies and Susu Collectors. Like the OFISD, we contacted GHAMFIN because they are also heavily involved in the microfinance sector of Ghana. At the GHAMFIN, we interviewed Mr. Emmanuel Asante, the Finance & Accounts Officer. Before coming to GHAMFIN, he was a manager of a MFI in Kumasi, the capital of Ashanti Region and has been in the sector for more than 3 years, so he was very familiar with the problem we were examining. We bought some of their published reports, which contained helpful information but were not available anywhere online. Based on the information gathered from the Bank of Ghana and the GHAMFIN, we adjusted the interview guide we had prepared for the employees of the collapsed MFIs.

The accounts of the Bank of Ghana, the regulator and that of the GHAMFIN, the umbrella network body for MFIs in Ghana, pointed to the Ashanti Region of Ghana, Kumasi (the capital) in particular, as the hotbed of the problem of collapsing MFIs in Ghana. According to them, even MFIs that collapse in other regions usually have their headquarters (mother branches) in the Ashanti Region. The prevalence of the phenomena in the Region and the fact that most collapsed MFIs in other Regions of Ghana usually have their mother branches in the Ashanti Region, may mean that, information on collapsed institutions in the Region could offer a useful perspective for understanding why MFIs collapse in other parts of the country. We therefore decided to concentrate on the Ashanti Region in selecting collapsed MFIs for the study.

**Selection of collapsed MFIs**

Identifying the collapsed MFIs was as difficult as getting the former employees themselves for the interviews. If there were official list of collapsed MFIs in Ghana, this task would have been easier. It was part of our request to the Bank of Ghana and they agreed to email it with the response to the interview questions. However, the mail we received did not contain that information so we contacted them again to find out. The explanation given was that when the MFIs collapse, they do not take steps to officially file for bankruptcy with the Bank, so there was not any such list. This placed limitation on knowing the exact number and names of collapsed MFIs in the Region. For example, all but one of the institutions studied in this work collapsed in 2014 but there is only one reported case in the media of a collapsed MFI in 2014^8^ and that MFI is not part of those studied

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^8^ Ghanaweb – 29 January 2014: Lord Winners Microfinance swindles over 5,000 customers

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herein. This means that many MFIs, just like the ones studied in this work, have collapsed unreported. Even when they are reported, except the case of Lord Winners Microfinance Company and Westbanc Capital Group\(^9\), the names of the specific MFIs involved are not mentioned. For instance, none of the several media reports on the fifty MFIs that collapsed in 2013 mentioned the names of the specific MFIs involved.

As a result, we had to rely on the public to identify the collapsed MFIs. In our interaction with the public, even though several MFIs have collapsed in the Region, seven names kept recurring. After the collapse of the MFIs, customers who had their deposits with them had been chasing the former staff for refund of their money. Therefore, the former employees of the collapsed MFIs had become unwilling to open up to anybody on their former institutions, suspecting that such people could be disguised customers searching for their whereabouts to disgrace them. Getting access to them for interviews therefore was very difficult. The larger our target respondents, the more energy and resources we had to spend in seeking to have access to them. However, the possibility of losing them altogether was also becoming increasingly real. This made the researchers to narrow the search to the ‘prominent’ seven. To win their trust, we contacted people in their networks – close friends and relatives to lead us to them. After a long period of bonding and persistent calls, out of the seven, we were able to access the four (4) profiled below\(^10\). This means that the study did not cover all collapsed MFIs in the Ashanti Region – indeed,


\(^10\) Double Up Microfinance Company Limited began operation in 2009 with four customers and four staff. The company grew phenomenally in a spate of 5 years. Before folding up in 2014, it had 15 branches, all located in the Ashanti and Brong Ahafo Regions. Double Up’s crisis started in October/November 2013. The representative of Double Up interviewed for the study was a young HND in Accountancy holder from Sunyani Polytechnic who entered microfinance in 2011 around October/November until 2014 when Double Up collapsed. He is now into hire purchase. The interviewee started working with Double Up as Operations Manager, later as Credit Officer. He was then promoted to a Branch Manager and later as Head of Operations and Internal Auditor.  

Work Up Microfinance Company Limited also started operation in 2011 with four branches at Agona, Wiamoase, Mankranso and Fade. In a matter of 4 years (2011-2014), the company grew from four to twenty-six branches. The products of Work Up included Current Account, Savings Account, Susu Accounts (Anidaso Susu and Normal Susu) and Investment Accounts (Work Up Trust and Work Up Gold) . It was a sole proprietorship company with limited liabilities. The interviewee from Work Up as at the time the institution collapsed was a Branch Manager. He started as a Marketing Officer in 2012, and later became a Marketing Manager at the Branch and Loans Recovery Manager and promoted to an Accountant and later Operations Manager before becoming a Branch Manager.  

Grow Rich Microfinance Company Limited was incorporated as a private limited liability company on July 21, 2010 under the Ghana Companies Code, 1963 (Act 179). Full operations started on 13th September, 2010 at Obuasi, the head office with four (4) staff – the Manager, Operations Manager and two Client Relationship Officers. Grow Rich collapsed in the year 2013. As at that time, the company had three (3) branches. The interviewee for this study was working with the institution as a marketer. In their credit operations, Grow Rich focused on lending to very small and medium-sized enterprises with the conviction that these businesses create the largest number of jobs and make vital contributions to the economies in which they operate. The interviewee from Grow Rich is currently working with a Susu and loans company and he interlaced his submissions with his new experiences – comparing his new place to his former institution in explaining why it collapsed. However, he asked that his current institution’s name not be disclosed because he did not have his superiors’ permission to divulge information about the institution.
officially, the total number of collapsed MFIs in the Region is unknown. The four collapsed MFIs were the only ones selected and studied because they were the only ones that granted access.

**Interview with the former employees of the collapsed MFIs**

The use of interviews was appropriate for the study for its nature demanded it to be situated in the practical experiences of the stakeholders. As noted by Kvale et al, interview helps researchers to elicit insights into the subjects lived world (Kvale et al, 2009). Thus, interviews help to gather rich, deep and original information on the subject under investigation. During interviewing, the interviewer could probe responses and this helps to elicit further information. The interviews were one-to-one. Although there was a guide to help us focus on the relevant questions, the exchange was conversational. The interviewees requested that their identities and that of their institutions be kept confidential\[11]. The names given to the collapsed MFIs are therefore pseudonyms. The tape-recorded interviews were later transcribed with the aid of Express Scribe Transcription Software. The transcripts of the five interviews, the focus group discussion with the staff of the Bank of Ghana and the Bank’s written response to the interview guide we sent them constituted the main primary data for the study. When the interview transcripts are quoted in the analysis of the findings or anywhere as GHAMFIN (2015); BoG (2015); Dream Well (2015); Grow Rich (2015); Work Up (2015) and Double Up (2015), the referred page numbers are the ones in the transcripts.

**Data collection problems and limitations of the study**

Aside the challenges faced in accessing the respondents, there were other practical challenges and limitations that are worth acknowledging. First, the study was such that it was difficult to communicate its object to the former employees of the collapsed MFIs. It is naturally uneasy to be seated and ‘drilled’ (so to speak) on how an enterprise you were part of demised. We had to communicate the study to them in a more polite manner. However, this task worsened in the course of the interviews when critically incisive and seemingly personal questions had to be asked. We therefore felt smooth– talking them to be part of the study. The task of balancing our quest for knowledge with our ethical need to be open, transparent and honest with the interviewees was very uneasy.

Another challenge to this study is what constitutes a collapsed or bankrupt MFI. Whilst the news about collapsed MFIs is public knowledge, there is no official document or record on them. The reason as discussed elsewhere is that when the MFIs collapse, they do not take the legal steps

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\[11\] As indicated elsewhere, after the collapse of their institutions, customers who had their deposits with them have been chasing them for refund of their money. Hence, their unwillingness to open up to anybody on their former institutions and the reason for their request that, their identities and that of their institutions not be disclosed.

Dream Well Microfinance Company Limited – The Company was licensed by the Bank of Ghana and started to operate on 2nd January, 2013 with 19 staff and one branch at Atonsu with a capital of hundred and twenty thousand Ghana Cedis (GH 120, 000.00). The shareholders were the CEO and his wife. The man had 80% and the wife 20% shares. Dream Well collapsed barely a year in business. Within 8 months of operation, the company established four branches. The respondent from Dream Well interviewed for this study was the Human Resource Manager who doubled as the Operations Manager. He holds a Bachelor of Arts degree in Publishing Studies.
to file for bankruptcy with the Bank of Ghana. Therefore, the term collapsed or bankrupt MFI is used in this study to loosely imply that the MFI is not operating anymore.

Finally, the findings of this study is consistent with the general causal factors of the collapse of MFIs in Ghana noted by institutions like the Bank of Ghana, GHAMFIN, Ghana Association of Microfinance Companies (GAMC) and other scholarly studies. While some level of comparability cannot be denied, a small sample size of four collapsed MFIs in one region may limit efforts at generalization. A larger sample may be needed for such purpose. The above notwithstanding, the study offers an exploratory reference or benchmark for examining what drives commercial MFIs into bankruptcy in Ghana.

Findings: Causes of MFIs collapse in the Ashanti Region

This section analyses the information gathered on the drivers of MFIs into bankruptcy in the Ashanti Region of Ghana. The factors that caused the demise of the four MFIs studied were similar. Therefore, instead of case-by-case analysis, we did a composite analysis of the four cases. However, strikingly dissimilar factors and events are highlighted. The factors are grouped into internal and external factors. The analysis was done by reflecting on the primary data in the light of the literature on MFIs operations in Ghana as well as the broader literature on the collapse of

Table of Findings

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MFIs worldwide. In this way, whilst contextualizing the Ashanti case, we are still able to understand it in reference to the larger discourse in Ghana and elsewhere. The section is subdivided into three sections: In the first sub-section, we present our table of findings depicting the causes of the collapse of the MFIs studied and analyze them as internal and external causes (factors) of the collapse in the second sub-section. In the final sub-section, we condense all the factors (internal and external) into an explanatory framework of drivers of commercial MFIs into bankruptcy in the Ashanti Region of Ghana.

As depicted in the table, similar factors accounted for the collapse of the four MFIs studied. But while the causal factors were similar, the narratives on how they manifested varied from one institution to the other. In the subsequent sub-section where we do a detailed analysis of them, we refer to the interview transcripts for the rich details on how different events culminated into these factors to cause the collapse of the MFIs.

Analysis of Findings

Internal factors

The internal factors relate to the operation strategies and managerial problems of the MFIs that contributed to their collapse. We in seriatim analyze them under these headings: Indiscriminate branching, offering of unsustainable returns/products to customers, disregard of due diligence, mismanagement and violation of the Bank of Ghana’s rules and guidelines.

Internal factor 1: Indiscriminate branching. Microfinance supporters justify the flogging of high interest rates by MFIs on grounds that they are more prone to risk – they do not only have high operational cost, they also deal with the part of the population known to be highly risky. The problem however is that in spite of the already risky profile and high cost of operation associated with microfinance, most MFIs rather pursue activities, which further increase cost instead of keeping it under control. The most common of such practices in Ghana is branching. As noted by Ayeh (2015), some MFIs have adopted physical branch establishment to expand outreach and increase their share of the market. However, “unknown to them, opening branches mean[s] more expenses on utility, salaries and other overhead expenses” (Owusu-Nuamah, 2014). They wrongly perceive “visibility as viability” (BoG, 2015: 3).

Our findings collaborate the view that the phenomenon of branching is common among MFIs in Ghana. Except Grow Rich, which maintained three branches for three years (2010 – 2013), the branch expansion of the other collapsed MFIs was stratospheric. Within a short period of five years (2009 – 2014), Double Up opened 15 branches, whilst Work Up grew from four (4) branches to twenty-six branches in a matter of 4 years (2011-2014).

Dream Well survived for only eight months but managed to open four branches. The interviewees confirmed that unbridled branching crucially contributed to the collapse of their

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12 They contend that they deal with clients with low level of education; involved in enterprises that are risky; live in areas that are known to have poor sanitation and therefore have high incidence of diseases; have no or little access to health care facilities and do not have reliable income (see Rhyne, 2010; Rosenberg, Gonzalez & Narain, 2009). 6 The 2013 revised-Bank of Ghana rules say that MFIs with 1 – 5 branches shall attract an additional paid-up capital of GH200, 000 for each branch
former institutions. Of course, once MFIs are in competition with one another, proximity to customers and visibility could be a competitive step to increasing outreach and market share. However, unrestrained branching could have a toll on the company. First, opening additional branches means additional cost and here not only in terms of among other things, new office furnishes and staff, but also additional paid-up capital\(^6\). Second, it takes time for an MFI to become financially viable so new branches certainly will in the short term experience loses – having too many new branches will therefore translate into incurring even more additional cost and this was true of the collapsed MFIs studied.

For instance, in the case of Dream Well, while their Atonsu head office was making expenditure around seven thousand six hundred Ghana Cedis (GH7, 600) a month, the income was only two to three thousand. The other branches too were making expenditures around GH 5000 and income around GH 1500 and GH 2000 (Dream Well, 2015). The benefits in opening new branches, which includes geographical diversification of portfolios, and widening of deposits therefore lost on them.

As observed by Ayeh (2015), the new capital investments in branching do not only add to the cost profile but also compete with available funds for on-lending purposes. And since loans and advances are the main sources of income for MFIs, growing more loses or not having the needed funds to grow quality loans will mean that the company cannot generate enough income to support its operations. How Dream well collapsed aptly reflects this: “Our main income was the interest we charged on loans. It got to a time; we had no money to give out as loans because we had invested them in creating branches” (Dream Well, 2015: 2).

**Internal factor 2: Unsustainable returns to customers.** This problem relates directly to the increased number of MFIs sequel to the financial liberalization and commercialization of microfinance in Ghana (Serrano & Sackey, 2015; Gallardo, 2001). Certainly, once many players are in competition for a given market share, they are bound to work at outpacing one another. And here, the eagerness to attract more customers and carve lion shares of an already saturated market on the part of each MFI tended them to collectively roll-out products that will endear more clients to them. However, the downside was that most of the products were unsustainable. As noted by Owusu-Nuamah (2014), some of these products were too costly to the companies; their income streams could not cover the expenses they were incurring in the form of interest paid to clients.

Whilst some MFIs were paying 30 to 35% interests on deposits (far in excess of the 24% interest even the Government pays on treasury bills), others were tripling three months-deposits as loans for customers. Some MFIs were also charging zero fees on deposits, while others shared cloths and cement to customers for opening accounts with them. All the interviewees independently confirmed that their institutions did one or more of those things to win customers. The challenge they subsequently came to face was sustainability. The only investments known to them\(^{13}\) were treasury bills, real estate and buying fixed assets like lands, cars and of course,

\(^{13}\) Some of them did not even invest the money; they were lying idle. For instance the interviewee from Dream Well said that they just sent their money to their mother bank, Fidelity Bank without investing it and were surviving on
creating branches and since these kinds of investments were illiquid, they could not fall on them when they became pressed. Moreover, the returns on the investments were not high enough for them to be able to sustain the huge interests they were paying to customers. As the Work Up interviewee admitted, “in the long run it became a virus because you will pay more interest” (Work Up, 2015: 2).

The MFIs inability to continually triple deposits as loans and pay the huge interests promised on deposits infuriated most customers who in turn in their numbers closed their accounts with them. This together with other factors accounted for the collapse of Work Up and Dream Well. However, as noted by Dupont (2005), financial institutions misfortunes could be contagious. The repercussions of offering unsustainable packages do not run down only the vogue MFIs offering them but could even transcend to others who may be giving reasonable interests. The point here is that the different customers of the competing MFIs compare and share their experiences with one another – they are friends, family members, they operate similar businesses, so this is expected. Some customers upon hearing the gargantuan interests and mouth-watering packages their friends were receiving felt short-changed, and therefore beseeched their MFIs for similar packages with threats of moving their accounts from them. Double Up suffered this fate: “You will see a MFI operating at high interest rates just to attract customers while charging low interest on loans. In our case, our customers were complaining that other MFIs were giving high interest so they moved their accounts from us to them the moment they heard, if I go there I will get better packages. This really affected us” (Double Up, 2015: 3).

However, those MFIs whose customer base phenomenally increased because of this could also not sustain the packages, so all the MFIs together lost the trust of the customers who were already battered by economic hardships. This led to deposit losses and increment in withdrawals.

**Internal factor 3: Disregard of due diligence.** Commercialization has brought increased competition for the business of low-income clients (Robinson, 2001) evidenced by the slew of MFIs established worldwide. This has make abundant availability of ‘cheap’ credit to clients. Increased competition among MFIs and clients’ unbridled access to a multitude of microfinance providers as noted by Andersen (2009), remove the deterrence of strategic default that a monopolistic MFI enjoys and cause decline in portfolio qualities. Insisting on due diligence which generally is a bit time consuming then becomes disadvantageous to ethical MFIs for clients disturbed or delayed by due diligent procedures could easily access loans from competitors without or with little hassle. Borrowers could thus resort to “double-dip” and consequently become inter-indebted (over-indebted) to almost all operating MFIs by borrowing from one MFI to settle loans contracted from the other and vice versa.

This phenomenon treaded through the interviews with the former employees of the collapsed MFIs confirming an earlier finding of Grammling, (2009) and Kappel et al., (2010) studies that over-indebtedness and “double dip” is common among microfinance clients in Ghana. This is what the customers do as aptly described by the interviewee from Double Up:

only interest on loans and some other minor charges on book purchases like new passbooks and also minimum balances.
What happened is, ours, as we say, you will deposit and we will base on your deposit give a loan. Since the customer wants the loan, he would be working with a different MFI, and will be doing small small Susu [deposits] there, get about five hundred over there, take a loan of thousand from there, come and deposit that thousand with you, get about three thousand loan from you, go and deposit it in a different bank and take about ten thousand loan from them (Double Up, 2015: 7).

Similar practices in Nicaragua led a kite-maker in Jalapa to accumulate a record debt of $600,000 to 19 MFIs. How this is able to happen is not magical. The competing MFIs have no means of verifying the debt profiles of prospective clients from competitors and do not control the loan disbursements of their competitors. Therefore, the clients are able to play them against one another as noted in Andersen (2009).

Most MFIs in Ghana lost significant share of their operating capital through this. While the problem reflects customers playing the competing MFIs against one another, materially, the root cause is the MFIs own methods of recruiting clients. In Ghana, as noted in Owusu-Nuamah (2014), the popular method of recruiting clients is this: The MFIs ask clients to contribute for a month or two for them to double or triple their balances for them as loans. This downplays the significance of proper assessment and monitoring of loans. Loan officer to client ratio surely would widen for the package as it did was certainly going to endear more customers to the MFIs. The MFIs therefore could not have enough time to look at loans that were defaulting because of the huge number of clients involved and also because they were always busily serving incoming clients until the loans hit the expiry region – by then, it becomes extremely difficult to recover. The clients identified this loophole and played the companies by robbing Peter to pay Paul.

**Internal factor 4: Mismanagement.** Effective risk management is crucial to achieving institutional self-sustainability in the microfinance sector. However, among microfinance practitioners, reckless expenditure, poor risk management and mitigation have been widely noted (CSFI, 2008; 2009; 2010; 2012; 2014). The literature on the operations of MFIs have noted bad managerial practices as one major cause of MFIs failures globally (Sinclair, 2012; Bateman, 2013; 2010; CSFI, 2008) and this is also true of the case in Ghana.

For instance, Grow Rich was disbursing loans to customers about whom they had meagre information and there was no requirement for a guarantor. Therefore, a significant number of their

14 The “no pago” (we won’t pay) crisis happened 2009/2010 in Nicaragua. The MFIs lent at high interest rates indiscriminately to borrowers who also inter-borrowed. Borrowers were taking money from MFIs to settle loans contracted from their competitors. This continued until the borrowers became incapable of paying back the loans. So the borrowers collectively defaulted on their debts and the MFIs suffered a profound crisis. (See a detailed account in Sinclair (2012) and also: https://nacla.org/news/no-pago-confrontsmicrofinance-nicaragua) The commercialization of microfinance came along with competition for both funding and clients. To successfully operate a MFI, inter alia, effective management of cost structures to ensure sufficient returns to pay for the more expensive commercial funds is a prerequisite. MFIs operators must effectively manage risks and do cost control before they could achieve institutional financial viability and self-sustainability. The rapidly expanding loan portfolios and increased scope of operation of MFIs also substantially increase the risks in providing microfinance services. This requires MFIs operators to be cautious and undertake economically sound ventures (see Andersen, 2009).
customers bolted away with their money while some used loans from them to pay other loans contracted from their competitors. The case of Work Up was terribly bad. Astonishingly, the company was virtually dishing out money to any person who cared to apply for loan. The interviewee from the institution thus submitted: “When you come to us, we were having money, so we were not thinking about may be your guarantor, knowing your capacity that you can pay” (Work Up, 2015: 1) and they shockingly had a “Credit Committee” superintending over this practice! How do you give money out without thinking of the person’s capacity to repay? Clearly, as noted in the industry’s 2012 report, “the flood of money pouring into the microfinance sector is stirring up irrational exuberance and undermining discipline” (CSFI, 2012: 28).

Other profoundly bad managerial practices the study uncovered are poor risk management and reckless expenditure, so by the time operationally relevant software like the one for clients’ debt history verification came, they (Dream Well and Double Up) were broke and could not procure them. Instead of investing in current assets, they rather focused on fixed assets – buying and furnishing big buildings for offices, buying cars, and other landed properties, forgetting that the monies necessarily were not theirs but people’s deposits. A study conducted by the Ghana Association of Microfinance Companies (GAMC) found that most MFIs operators fail to apply financial intermediation principles.  

The other factors relate to blatantly poor clients’ recruitment strategies. One of the interviewees submitted: “if we come to market ourselves to you and you say, oh go and come tomorrow when you come tomorrow I will pay, we will make sure that we come tomorrow. We were not thinking about how costly you are to us. We were thinking we like your money, your GH2 Cedis. If we spend GH10 Cedis today on you, tomorrow we will get more than that” (Work Up, 2015: 1). As if fortiori, spending huge resources to recruit clients’ flourishes their businesses so they could pay off the investments sank into recruiting them.

Ludicrously, the MFIs owners’ were nonchalant to clearly imminent risks. As stated by the interviewee from Work Up: “at the top management, sometimes you being on the ground, you will see something and you would recommend something and they would say nothing will happen. But you are on the ground. You will just report to them but they will sit there and watch it.” (Work Up, 2015: 2). We inquired further: “Is it not incredible that someone would put money in such a big business, those on the field will raise issues and report to them and they will disregard it. What was the motivation?” His response: “what they were very much interested [in] was the deposits – the money [that was] coming in. They were so bold enough [to say] that nothing will happen. They are too big to fail.” This finding collaborates that of Owusu-Nuamah (2014) that, one reason for the collapse of MFIs in Ghana is that the owners do not heed to technical warnings and advice from professionals.

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15 The enormity of the problem of client inter/over borrowing from the MFIs has led to the introduction of a biometric software, which reveals the debt history when the fingerprints of potential loan applicants are taken.

16 Ghana: Storm in Ghana’s microfinance industry not over - http://microfinanceafrica.net/news/ghana-storm-in-ghanasmicrofinance-industry-not-over/
Dream Well Microfinance Company deserves a special mention here for it had all the trappings of a badly managed company. That, the company could collapse just eight months of commencing business is enough testament to show how badly it was managed. Bemoaning on why they collapsed, the former Human Resource and Operations Manager who himself holds a degree in Publishing Studies stated that, from the top hierarchy to the last man at the bottom of management, none of them had well-grounded experience in banking nor microfinance. They were only receiving summary lectures from some consultants “once in a while”. He thus submitted:

In our case, you can’t find anyone who had worked with microfinance for long, say 3 or 4 years nor any experienced banker manning the institution. We were meeting these people once in a while and they gave us summary lectures for two or three hours on how to operate an MFI. We only had 2 or 3 weeks training which in my view was not enough. We had educated workers with HND as minimum qualification but we all had no stint with banking nor microfinance before coming to Dream Well (Dream Well, 2015: 2).

No wonder they could uncover the fraudulent deals some workers perpetrated against the company only after collapsing. Related to this is what the interviewee from Double Up said that in their case, they found a lot of endorsed withdrawals and loans authorized by some of their managers who would not have endorsed them, had they the needed technical competence. As it turned out, Double Up recruitment was not merit based but on familial relations, giving credence to the Bank of Ghana’s claim that most MFIs do not employ qualified personnel to manage their operations (BoG, 2015).

Generally, MFIs unlike established banks, the argument goes, are not manned by qualified staff (CSFI, 2008; 2009; 2012). The observation is that this problem is however acute in Africa and Sub Saharan Africa in particular, (CGAP & MIX, 2009) but also in other parts of the world – where well-educated staff at middle management level is difficult to come by and vulnerable to poaching from commercial banks (CSFI, 2009). As stated by one investment officer with the IFC in South Africa, there are “not enough good managers in [the microfinance] market” (CSFI, 2008: 15). The case of Ghana is not different. The Bank of Ghana has consistently complained about the competence of managers of MFIs in Ghana\textsuperscript{17}. It is however profoundly ironic that after all the huge financial resources trickling into microfinance, the sector would keep on having difficulties in attracting and retaining talents.

\textsuperscript{17} Dr Yaw Gyima-Larbi, head of microfinance at the Bank of Ghana stated the pervasiveness of “liquidity crises in Ghana is as a result of among other factors “incompetent staff” managing MFIs: http://www.microcapital.org/microcapital-brief-bank-of-ghanabog-to-raise-minimum-capital-requirements-for-microfinance-institutions-mfis-to-240k/ . This was reiterated in their written response to me. The GHAMFIN representative also bemoaned on this in my interview with him. Employees of MFIs are mostly HND Holders and Senior Secondary School leavers. It is costly for MFIs to hire degree holders but he noted also that increasing level of unemployment has led to the entering of microfinance by degree holders, he said.
Internal factor 5: Violation of Bank of Ghana rules and guidelines. In 2011, the Bank of Ghana (BoG) undertook to bring MFIs under a uniform regulatory framework (revised in 2013)\(^{18}\) by establishing a four-tier classification of MFIs and their respective registration requirements as well as permissible activities. The guidelines also contain unambiguous rules, and procedures for establishing a MFI, opening new branches, loan disbursement and deposit taking. It clearly emerges that the collapse of MFIs in Ghana is also chiefly associated with violations of the BoG rules. As argued by one of the BoG’s field officers, almost 85% of the collapsed MFIs violated the law. This was collaborated by the interviewee from Double Up: “We the MFIs were not following the regulations. That brought the collapse” (Double Up, 2015: 6). Here, we demonstrate how the causes of the MFIs collapse were primarily violations of the BoG guidelines by examining some of the causes of the collapse that were also violations of the Bank of Ghana’s guidelines or rules and regulations.

First, in the case of Work Up, their major problem was unrestrained branching. As one of their competitors stated in a conversation with us, it was imaginably impossible for Work Up to do the kind of branch expansions they did without eating into the customers’ deposits. The former Branch Manager of the institution would eventually confirm this when we interviewed him. We inquired whether they also had problem with using depositors’ funds to establish branches and he responded: “Yes, considering 26 branches in 4 years” (Work Up, 2015: 3). The company in contravention of the BoG’s requirement of them to raise additional paid-up capital of GH 200,000 for each new branch, rather used customers’ deposits to buy magnificent buildings as branch offices. They instead of using their own capital used their liabilities. So when the panic about collapsing MFIs in Kumasi engulfed the public, as the interviewee said himself, although they were strong, once the depositors’ funds were not readily available for them to withdraw (because they had been invested in creating branches), further weight was added to the speculation that they were in fact crumbling. The company was certainly not going to survive when the customers rushed to their different branches for their monies. Work Up was also giving huge loans which were not only in excess of the margin their being a MFI allowed them to give, but also which in the words of the former Branch Manager, were huge enough for even established commercial banks like the Ghana Commercial Bank, United Bank of Africa and even Barclays to give to single borrowers.

In respect of Grow Rich, among other factors, the company collapsed because they disbursed loans to customers who owed other MFIs. In our conversation, the former Marketer of the company said that Grow Rich was sandwiched by more than four MFIs. (Those MFIs were operating before their Suame Branch –the name of the branch he was stationed was opened). At the beginning of their operations, they poached some customers, registered them and took deposits from them who also later came to them for loans. Apparently, most of these customers were already doing business with their competitors and had taken loans, which were due for repayment.

\(^{18}\) 2011 Regulation is Appendix 2, Revision in 2013 is Appendix 3. See: [http://rudar.ruc.dk/handle/1800/23859](http://rudar.ruc.dk/handle/1800/23859)
Therefore, Grow Rich’s proposal to give them loans when they deposit money with them was a timely blessing.

The only way Grow Rich could have known this was if it had the biometric software that helps to check potential loan applicants’ debt history with their competitors. But the software could be used by only MFIs duly licensed to operate by the Bank of Ghana. However, as it turned out, the company was operating illegally without license so they ended up giving other people’s deposits (because that branch was opened with mainly depositors’ funds) to customers who owed other MFIs only for some to default, others to delay repayment until a long time. They had problems servicing the withdrawal demands of the customers of their earlier established branches and collapsed eventually. Schicks prophecy that “if [clients] over-indebtedness were left to spread [in Ghana], it would represent a serious risk on …. the financial sustainability of MFIs” (Schicks, 2011:1) could not have been fulfilled in any way better.

The case of Dream Well was not different from Work Up. They in contravention of the BoG rules and guidelines used depositors’ funds to establish four branches in eight months. Although the BoG rules state that “not more than 25% of initial paid-up or additional capital for branches shall be spent on property, plant and equipment (capital expenditure)”19, Dream Well was establishing branches at a cost equivalent to their total paid-up capital of hundred and twenty thousand Ghana Cedis. Rather than sticking to the rule of not giving unsecured loans exceeding 5% of their paid-up capital, the company was giving colossal sums to the tune of twenty and thirty thousand Ghana Cedis as loans, which were 24% and 36% of their stated capital, far in excess of the allowed 5%. As the interviewee from the company cried albeit belatedly, “we thought that would give us huge returns but repayment became problematic” (Dream Well, 2015: 2).

Finally, Double Up Microfinance Company just like the others, also honoured the BoG’s rules mainly in the breach. The interviewee would thus yield when we pushed him on violating the Bank’s rules and regulations:

Okay some of them [the problems] were managerial issues. We should have known that our stated capital is this and do not give loans in excess of our stated capital. And we were not following the BoG [Bank of Ghana] rules. They have stated that we should not give a single customer more than 5% of our stated capital. But we did. Our company did. Most of the companies too. Our stated capital was hundred thousand that is one billion old Ghana Cedis but we were giving a single client about GH10, 000, which is 10% of our stated capital (Double Up, 2015: 3).

He would later complain that “as at now we have a customer who owes us about fifty thousand [Ghana Cedis]. It could have taken care of about three branches. If during the crisis, we had just 50% of that single customer’s loan, we could have been able to solve our problem”. So we asked, “alternatively, had you not advanced that loan, you could have had the money to settle

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19 See Appendix 3
your problems” to which he responded “yes, but we overlooked the policy, the BoG rules and regulations” (Double Up, 2015: 4).

Another major challenge Double Up had which relates to violation of the guidelines pertained to deposits. The BoG rules explicitly state: “the amount of a deposit transaction, including the balance on a deposit account at any time shall not exceed 5% of the institution’s paid-up capital”. Stated differently, the MFIs shall not take deposits that are 5% in excess of their stated capital. Yet, the company overlooked the guidelines and took deposits to the tune of eight, twelve and fifteen thousand Ghana Cedis respectively, which were 10%, 14% and 18% of their stated capital of one hundred and twenty thousand Ghana Cedis.

The reason the Bank of Ghana proscribes MFIs from taking huge deposits which are 5% in excess of MFIs’ stated capital is to prevent a situation where they would not readily have money to timely serve customers because a huge depositor made a big withdrawal. That was precisely how the collapse of Double Up began. They experienced huge impromptu withdrawals by their big depositors at some of their branches, which made them delay unduly, the withdrawal requests of some of their customers since they had to call for cash from their mother bank, which also delayed. Some customers who became frustrated after waiting for a long time left for their houses, only for them to go and speculate to their friends that the company was collapsing for most people could not get their money, as others had to wait for a very long time. So the next day, fueled by some falsehood that the company was collapsing which was peddled by two bitter employees dismissed for fraud, more than a double of the previous day’s number of customers beseeched the MFI, demanding to withdraw their monies. And as the interviewee explained “because you have made provisions not for the doubled number, you can’t satisfy the new batch, so they also [did] spread the news, then the speculations continued and the panic too continued” (Double Up, 2015: 1). The radio stations picked it up, heightening the speculation, so people rushed to their different branches to cash their monies. As the GHAMFIN interviewee submitted, “even [for] commercial banks, Barclays or Stanbic Bank, if 50% of its customers jump into the bank and withdraw their money, the bank would collapse” (GHAMFIN, 2015: 3). So, Double Up eventually collapsed.

The additional challenge to this problem of violation of the rules and guidelines on microfinance is that the huge number of microfinance institutions affects the ability of the oversight body– the Bank of Ghana– to efficiently regulate the sector.\textsuperscript{20} This explains why the MFIs could break so many of the rules and operation guidelines in respect of for instance, branching and operating without license, and why Ponzi schemes could survive for a long time until customers are defrauded. The MFIs umbrella associations could have been useful in this regard. However, as noted by the GHAMFIN interviewee, the absence of legal backing for the umbrella associations to sanction limits their ability to effectively peer-regulate their members alongside the Bank of Ghana.

External factors

External factor 1: Macroeconomic instability. The aftermath of the global economic crisis has led to the revision of the hitherto claim that MFIs operate in a market that depends more on microeconomic conditions than macro fluctuations. MFIs as the narratives were, inhabit their own business world. Observers as well as practitioners have been rudely awakened to the realization that after all, MFIs are not insulated from the shocks in the ‘real economy’ – there are too many links through financial markets, credit conditions and the fortunes of their customers. The “experience of 2009-10 has shown microfinance to be a lot more susceptible to macro-economic shifts than previously thought” (CSFI, 2012: 38). The operations of MFIs are thus subject to broader macroeconomic trends.

Collapsing MFIs or Susu companies and financial service providers, (as they were then called), is not a recent development in Ghana. Belnye (2011) catalogues some instances of MFIs collapse, which occurred as far back as 2008. That of 2013 became headline news because they were not only widespread but also continual and the development is even yet to abate. The widespread collapse of MFIs in Ghana since 2013 contemporaneously happened with a serious economic crisis in Ghana for it to be sheer coincidence. It therefore was not surprising that macroeconomic factors prominently featured among the interviewees as a major cause of the collapse of their MFIs.

Ghana in 2013 tumbled – all the macroeconomic fundamentals plummeted. With an election to win in the year before, the government commissioned a budget deficit of GH¢8.7 billion ($2 billion) amounting to 12.0% of GDP and this would further cripple all the sectors of the economy. Growth decelerated to 4.4%, considerably lower than the growth of 7.9% achieved in 2012 (AfDB, OECD, UNDP, 2014). The country’s currency, the Cedi depreciated throughout 2013, becoming West Africa’s worst performing currency according to Bloomberg. Lending rate hovered around 30%. In trying to reign in the fiscal deficit, the government imposed new taxes, increased the thresholds of existing ones and increased utility tariffs, and petroleum prices. The combined effect of all these were heightened economic hardship and increased cost of doing business and borrowing which was further convoluted by energy crisis. The MFIs received their fair share of the economic miasma.

Acknowledging the paths by which macroeconomic trends affect MFIs, the Microfinance Banana Skins publications noted that it could be directly through interest rates, and general business conditions and indirectly, through clients who have been hit by economic difficulty or retreat from buying financial services (see CGAP & MIX, 2009; CSFI, 2009; 2010; 2014). Both

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21 Marcelino San Miguel, president of Fundacion San Miguel Arcangel in the Dominican Republic, is quoted at page 30 of the 2008 Banana Skins Publication as saying: “In the medium and long terms, MFIs operate in a market that depends more on microeconomic conditions than macro fluctuations, though macro trends affect everything ... But I do not believe that this determines the survival and operational management of a successful MFI.”

situations occurred simultaneously and contributed to the collapse of MFIs in Ghana. As submitted by the GHAMFIN interviewee,

The economy did not help in the first place. The Cedi-Dollar issue. The whole idea of investments - when Government was borrowing from the banks and the MFIs were also borrowing from the banks. The Banks will give the money to the government. Because the Treasury bill went up, the banks were not giving the money to the MFIs again. The last 2013\2014, it was a huge issue. Microfinance really suffered. Genuine people had their business collapsed. Not because they were rogues. Some of them did not embezzle the money. Some have gone to people as loans, some into real estates and it takes time to mature and the people [customers], they need their money, they do not have time to wait. Had the MFIs have support from the banks; they could have waited for the investments to mature (GHAMFIN, 2015: 4).

Thus, not only did the continuous depreciation of the Cedi and high cost of lending crippled the MFIs, but also the Government crowded them out of the lending market. Except the Grow Rich interviewee, all the former employees of the collapsed MFIs said that their banks failed them when they turned to them for help. The interviewee from Work Up lamented: “They failed us. We were having a mother bank but they failed us. If they had supported us, but they failed us” (Work Up, 2015: 3). The former employee of Double Up shared similar sentiments: “In our case we did not even wait for the crisis, we saw it coming, so we applied to one of our banks. They approved to grant us the loan. We gave them the needed collateral and everything they wanted and even paid the commitment fee. They later wrote to us that they are not ready to give us the loan” (Double Up, 2015: 2).

Of course, lending to Government through lucrative treasury bills with ever skyrocketing interest is more rewarding and less risky than to MFIs who are on the verge of collapse. In the heat of the economic crisis, one surest way the MFIs could have sustained their operations was, they like the commercial banks could have also invested the depositors’ money in the then lucrative treasury bills. However, the little they had in their coffers after investing in creating branches did not stay with them for long. The customers who were being battered by the economic hardships were not making deposits again, they rather were withdrawing their savings to support family life. The former Human Resource and Operations Manager of Dream Well thus stated: “People had saved with us. But because of economic hardship, they were just making withdrawals” (Dream Well, 2015: 3).

External factor 2: ‘Collapse rumours’ leading to panic withdrawals. When people become concerned about risk to their savings, their first reaction generally is to withdraw their money. Panic withdrawal poignantly featured among the reasons stated by the interviewees as the causes of the collapse of their former institutions. Sequence of events heightened rumours and public speculation about the MFIs looming collapse, which then incited depositors to not only rush

to withdraw their funds but also, discontinue making deposits. Whilst this experience was commonly experienced by the collapsed MFIs, the underpinnings were different.

It is trite learning in banking that if individual depositors or investors become worried about the health of financial institutions entrusted with their money, their attempts to protect their savings by withdrawing them can force otherwise healthy institutions into liquidation, and so can spread the impact of a shock to other institutions (Pettis, 2003; Dupont, 2005). Such cases lead to scramble among investors and depositors to withdraw their money not only from the institutions at the center of the crisis, but also from any institution caught up in the rumours. As argued by Dupont “contagion can occur as bank depositors reassess the viability of other banks when they observe either suspension or bank runs at a nearby bank. One failure, or the possibility of failure at one institution, may be thought to reveal information about other potential failures even if no actual link exists between the two institutions (Dupont, 2005: 416).

The manner in which Work Up Microfinance Company Limited collapsed falls on all fours with the above explanation for how financial institutions or banks could collapse. The people of Kumasi, the capital of the Ashanti Region considered Work Up and another MFI as the two biggest and most ‘credible’ MFIs in the Region. One of their competitors said the two were seen as the “mother MFIs in Kumasi”. Unfortunately, that MFI (name withheld) collapsed and this generated rumours that, then Work Up also should be having solvency challenges. The former Branch Manager thus submitted: “One thing is, last year for instance, a lot of MFIs faced crisis. We were still standing but one MFI called [name withheld] collapsed. So when people got to know that [that MFI] had been in crisis, people began to come out with a lot comments that our company too is collapsing. Meanwhile it was strong… they were just spreading it. Work Up is collapsing so if you have money at Work Up, just go and withdraw your money” (Work Up, 2015: 2). Some employees of the institution, seeing the increasing rate of withdrawals alerted their families and friends who had deposits with the company to also rush and withdraw their money and this fast-tracked the run on the institution.

In the case of Double Up, some bitter employees dismissed for fraud began peddling falsehood that the company was collapsing. So the customers of that branch beseeched the company to withdraw their deposits. Apparently as noted earlier, the company had experienced huge impromptu withdrawals at a different branch that made them unable to timely honour the withdrawal requests of some customers, so they told them to come the next day. This, the interviewee said, gave credence to the dismissed employees’ false claim that the company was collapsing in fact and occasioned panic withdrawals when some radio stations too picked up the rumour. He thus submitted:

There were some staff among us who were caught manipulating the system and causing fraud…. When they were arrested and granted bail, they started spreading bad news about the company in the nearby villages that they were working with the company and it’s collapsing so they should come and withdraw their monies and that is when the panic withdrawals began. The radio stations
picked it up and people thought we were collapsing and they all came for their money (Double Up, 2015: 1).

The case of Grow Rich was also related to fraud. The company had some iterant bankers (popularly called mobile bankers in Ghana) who went out to mobilize deposits from the customers. But some of them under-reported the deposits on the mobilization forms they returned to the office, even though they had correctly recorded them in the customers’ passbooks. For instance, a mobile banker will take GH1,000 from a customer and record the same in the customers’ passbook but on the mobilization sheet that he is to send to the bank (office), he would underrecord it as GH500. And the company was not doing regular internal auditing which could have helped them to detect this in advance. Therefore, balance reconciliation disputation usually arose anytime the customers went to the institution to do withdrawals or check their account balance. Grow Rich then paid for this with its reputation for the customers went about telling others that “the institution is not credible, they do not record properly when you make deposits” (Grow Rich, 2015: 4). Not only did this lead to some customers closing their accounts with them, deposits too flaked.

In respect of Dream Well, upon seeing rampant withdrawals, the company decided to control it by insisting that, for certain amounts, customers shall give them prior notice before they come to withdraw. However, most customers neglected this, and when the company dishonoured their cheques for failing to give them prior notice, they with fury ran to speculate that the MFI was having liquidity crisis. This led to “panic withdrawal and it really caused us a lot”, the former HR and Operations Manager stated (Dream Well, 2015: 3).

Pettis (2003) contends that in the world of finance, a collapse in institutional credibility is highly disturbing for it can quickly lead to liquidity crisis. As noted earlier, when panic occasions, it mostly begins to contagiously infect otherwise healthy institutions in a spreading and self-reinforcing wave of panic. Banking panics are self-perpetuating, and once public trust disappears, it takes extraordinary and costly measures to defend the financial system. Pettis may not be far from right for as the interviewee from Double Up stated,

For now, people in Ghana do not like microfinance especially in the Northern sector, Ashanti and Brong Ahafo. Even up to now those [MFIs] operating in the northern sector, here in the Ashanti region are suffering; they are still facing the panic withdrawal because the people here have the negative impression that for MFIs, they will run away with your money. So right now the deposits have reduced, they are only coming for withdrawals. I have met a lot of my colleagues working in other companies, they are complaining. Still they are sinking. They do not receive as much deposits as they used to (Double Up, 2015: 4 &6).

We did an anecdotal random sampling of people’s views on MFIs operations in Ghana and the result was not different from what the interviewee stated. Some Ghanaians are of the view that the MFIs are there for short-term purposes – to make money and diversify into other areas. Therefore, once they mobilize enough funds from people, then they lock up their offices. Though
quite cynical, this perception reflects the high public distrust and the fast ebbing public confidence in MFIs, which has even been noted by the microfinance companies themselves. This reinforces Boateng & Boateng (2014) recent study finding that only few Ghanaians trust and have confidence in MFIs, most do not. This rather unfortunate development bears watching!

Drivers of Commercial MFIs into bankruptcy in the Ashanti Region of Ghana

Below is a diagrammatic representation of the drivers of commercial MFIs into bankruptcy teased out from our analysis of the findings of the study.

Figure 1: Drivers of Commercial MFIs into bankruptcy in the Ashanti Region of Ghana.
Source: Authors’ fieldwork.

As shown in the diagram, upon commercialization, many MFIs have entered Ghana’s microfinance sector to compete for profit and ‘serve’ poor people. However, the desire to expand outreach and increase market shares lead them to undertake suboptimal practices such as indiscriminate branching, offering unsustainable returns to customers and disregard of due diligence. Because of the increased number of MFIs, the BoG is not able to monitor, identify and prevent in advance, illegal operations and unethical practices. Some MFIs are also badly managed – the managers engage in unreasonably risky and improvident investments. Additionally, there is a growing distrust for/waning public confidence in MFIs in Ghana (not just in the Ashanti Region – see Boateng & Boateng (2014)). Ghanaians are increasingly becoming distrustful of MFIs so they rush to withdraw their savings and discontinue transactions with them at the slightest hint of solvency challenges – whether founded or unfounded. All these practices and factors coupled with

macroeconomic factors (such as increased cost of living and doing business, Cedi depreciation, spiralled inflation, decelerated growth, high lending rates) compositely heighten the already risky profiles of the MFIs business of providing microfinance services, causing them to collapse.

Discussion and implications of findings for policy

First, the issue of MFIs managers breaking laws, disregarding due diligence, taking bad, unethical and unduly risky decisions just to expand outreach and increase market shares fits into the larger problem of “overtrading” identified among MFIs in Ghana. “Overtrading in MFIs occur when they expand their operations too quickly or aggressively by opening up new branches in hopes of increasing profits by expanding customer base and attracting more deposits” (Addo, 2014:4). Thus, confusing visibility with viability. The incidental problem is that the MFIs tend to misapply capital when they open up new branches by diverting working (and mostly depositors’) capital to complete. They as noted by Owusu-Nuamah (2014) therefore end up unable to meet depositors’ withdrawal requirements timely, and on-demand because of insolvency. Such situations create the attendant problems of panic withdrawals that may cause MFIs failure, as was the case of the collapsed MFIs studied. Some studies (e.g., Nair & Fissha, 2010; Hayder, 2002; Ghartey, 2007; Addo, 2014) have observed that a high percentage of MFIs in Ghana fail in the first five years of operation, often as a result of overtrading and financial strain. This study firmly collaborates that finding for none of the MFIs in this study survived beyond five years.

Related here are questionable managerial decisions including huge investments in uneconomical ventures. Such practices mostly do not only beg due diligence, but also violate the rules and guidelines of operations set by the BoG. What flows from this is that the MFIs depart from their lanes, terms, and conditions of their license by giving loans and taking huge deposits in excess of what the law allows them. At issue here are not just economically improvident decisions, disregard of due diligence and/or violation of laws, but the MFIs essentially push into business areas that they do not have the right skills and management tools for. But as Addo (2014) noted, “the size of the sheep can never be equal to the size of the elephant even if it aims at multiplying its size through overeating” (p.6). MFIs are never designed as commercial financial intermediaries, so once they started behaving like commercial banks, it was only a matter of time for them to collapse. As the interviewee from Work Up admitted, it was “like having bitten more than you could chew, your jaws will pain” (Work Up, 2015: 2).

In the study, one thing was consistent and true of the collapse of all the MFIs – something facilitated the collapse. The common factor was ‘collapse rumours’ leading to panic withdrawals. One surest way by which any financial institution could collapse is if the agents collectively decide to redeem their claims, all of a sudden, called panic withdrawal. However, people do not just panic-withdraw, something activates it.

As confirmed in this and other studies, there is growing public mistrust for MFIs in Ghana. Therefore, the slightest suspicion lead customers to protect their savings by seeking to withdraw them. And since the MFIs had used their deposits imprudently to create branches and buy illiquid assets, they certainly were not going to be able to timely honour the numerous withdrawal requests,
thereby leading to the fulfilment of the depositors’ belief that the MFIs were in fact collapsing. Against this backdrop, whilst acknowledging the instrumental role the 2013 macroeconomic instability played in the collapse of MFIs in Ghana, it appears to us and we contend accordingly that, it only contributed to the huge number and the pervasiveness of the collapse – the macroeconomic problems were necessarily not part of the root causes.

What then are the overall causal findings or answers to why MFIs collapse in the Ashanti Region and probably Ghana? We take seriously the view that any attempt to explain organizational failure will not be complete unless the interplay between contextual forces and organizational dynamics are taken into account (Mellahi & Wilkinson, 2010). However, sometimes, as noted by Gillespie & Dietz (2009) and this is true of the findings of this study, the “locus of control for the failure could be internal to the organization, even though the context for the failure may involve external influences” (p.129). The key argument here is that failure is primarily caused by internal factors even though, external threats may exacerbate it.

The MFIs against basic principles of financial intermediation, improvidently invested depositors’ funds in creating branches, illiquid and other assets which were irrelevant to their operations; they offered costly and unsustainable products; broke the rules and disregarded due diligence practices, all in the name of increasing outreach and market shares. Certainly, they were sowing the seeds of their own destruction by increasing the risk profiles of their already risky business of providing microfinance services. This is in line with Gillespie & Dietz (2009) observation that organization failure could result from “a single major incident, or cumulative series of incidents, resulting from the action (or inaction) of organizational agent” (p. 128). Clearly, the MFIs “shot themselves in the foot” as contended by Owusu-Nuamah (2014).

Nevertheless, as rigorously argued by Thomas Hobbes in his time-honoured theory of Leviathan, if people on their own would do the right thing, then there will be no need for institutions and laws. This issue even becomes more serious when raised in tandem with the critical question of what happens to the depositors’ funds after the collapse of the MFIs25. The cost of the collapse is disproportionally borne by the poor clients. Thus, the actual harm arising from the

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25 Microfinance customers generally lose their savings when the MFIs collapse. The interviewees from Double Up, Grow Rich and Dream Well said that they could not refund the customers monies to them. Even the few who were fortunate could not get full refund because the companies did not have enough funds. In the case of Work Up, the interviewee said some of the clients who had huge deposits took them to court and the court froze a few of their movable assets but the value of the assets could not even defray the monies they owed them. So I asked, “What about the petty traders who saved with you”? He answered: “They were all silent. They could not do anything”. What was monumentally outrageous is that the owners of the MFIs went home with their assets unscathed, virtually – after losing outrageous number of poor clients, their life savings. They still kept the assets – the buildings and premises used as offices, the furniture, plants, cars, landed properties and most of the illiquid assets into which they invested the customers’ funds. None of the former employees of the supposedly ‘bankrupt’ MFIs said their assets were liquidated. E.g. The interview from Dream Well is now into hire purchase and he operates from one of the defunct company’s offices in Adum, the central business district. Not only the assets, but also crucially, except Grow Rich, which was operating illegally, all the other collapsed MFIs still have their operation licenses intact. As they stated, the Bank of Ghana has not issued them “red card” yet. Therefore, when the dust settles, they are unhindered – they could easily jump back into business again. The interviewee from Grow Rich even hinted that the directors of the defunct company are now back in business with a different brand name. This raises a serious concern about the manner the Bank of Ghana handles the issue of collapsed MFIs. Why must MFIs operators who could not refund poor clients savings that they recklessly misapplied still retain their licenses and the assets of the companies deemed to have gone bankrupt?
collapse is not borne by the operators of the MFIs rather, by the customers – the poor people and the wider (microfinance) community. It seems the MFIs operators would not take their responsibility to be prudent with people’s money seriously and would need to be whipped to comply as urged by Hobbes.

The imposed duty is on the Bank of Ghana to regulate and protect the public from Ponzi schemes, unscrupulous people and financial institutions as well as protect consumers and investors funds from being (mis)applied by MFIs operators. However, as found in this study, the Bank has an oversight challenge to constantly monitor and prevent illegal and unethical activities timely and in advance. The question then is: What are the implications of the findings of this study for policy, in dealing with the problem of collapsing MFIs and its attendant problems in Ghana, taken into consideration the Bank of Ghana’s oversight challenges?

One thing we learnt from the former Marketer of the defunct Grow Rich Microfinance Company who now works with a savings and loans company is that, knowing that, the Bank of Ghana field monitors could come and check them impromptu, they are always careful to organize their affairs. The Bank of Ghana may therefore consider creating in the other regions of Ghana, subsidiaries of the OFISD, which is now centralised in only Accra to enhance nationwide monitoring. Relatedly, devolution of sanction powers to the (umbrella) associations of the MFIs who generally have offices and personnel scattered around the country compared to the Bank of Ghana may be helpful. With such powers, the MFIs associations could peer-regulate alongside the Bank and this would further enhance knowledge sharing and (peer) learning of best practices.

Second, the Bank and the Ministry of Finance financial literacy campaign must be intensified and not only in the urban towns but also the rural areas where the people who generally because of their level of literacy and location, easily become targets of unscrupulous people and Ponzi schemes.

Third, the current (inverse burden) state of affairs where poor customers irretrievably lose their savings but owners of MFIs deemed collapsed still retain the assets of the defunct companies is grossly inequitable. Why should customers who had no hands in the collapse of the MFIs lose their savings only for the owners to go home with booties? Of course, the public has to be as vigilant as poor customers could come together for mass action against MFIs. Nevertheless, the imposed duty is on the Bank of Ghana to follow every report and rumour on collapsed MFIs – whether licensed or unlicensed, audit them and liquidate their assets to pay off depositors just as they have announced to do in the recent case of DKM Microfinance Company26.

Fourth, criminal prosecution of MFI operators who recklessly play with poor people’s money must begin in earnest to serve as deterrence. There is also an urgent need for deposit insurance. This would not only protect clients when the MFIs collapse but also the strict conditions attached to insurance would make MFIs’ operators become provident in their operations since insurance companies are unlikely to pay for their unconsidered recklessness.

26 BoG turns down appeal of DKM microfinance customers: http://citifmonline.com/2015/06/02/bog-turns-down-appeal-of-dkm-microfinance-customers/#sthash.gN43e8PI.dpuf
Conclusion

The study was instigated by the 2013 mammoth collapse of profit-accumulating commercial MFIs in Ghana. The causal factors were grouped into internal and external factors. Even though the context of the collapse involved external influences like collapse rumors and macroeconomic factors, the loci of the collapse were internal to the MFIs and manifested as indiscriminate branching, offering of unsustainable packages, disregard of due diligence, mismanagement and violation of the BoG’s rules and guidelines.

The unduly risky manner in which operators of MFIs (mis)apply investors and customers’ funds brings into question their moral responsibility to be cautious with poor people’s money and this explains the growing public distrust for MFIs in Ghana. The MFIs themselves have recognized the aversion of the public to their operations. However, going forward, to trust that, that in itself or alone would bring providence in their operations would be a very expensive optimism. The monitoring challenges of the Bank of Ghana is seriously noted but the evidence points to more compliance and ethical operations when MFIs tails are tightly held to do so.

Accordingly, we recommend a two-pronged strategy to tackle the issue of collapsing MFIs and its attendant problems in Ghana. The first strategy is risk-averting/reduction oriented and includes progressive decentralization of the Other Financial Institution Supervision Department (OFISD) of the Bank of Ghana and legal empowerment of the MFIs associations to peer-regulate alongside the BoG. This would help to timely and in advance identify and prevent unethical and illegal operations everywhere in Ghana as well as promote peer learning and knowledge sharing. The second strategy is oriented towards protecting MFIs clients and the public from unscrupulous people and financial institutions. This includes introduction of deposit insurance; intensification of financial literacy campaign; tracking reports and rumors on MFIs collapse—whether licensed or unlicensed, to audit them and liquidate their assets to pay off depositors as well as criminal prosecution of unscrupulous people who recklessly apply microfinance clients and investors funds on unduly risky ventures.

Authors’ note: This is a shortened version of a thesis report. See the full version, appendices and other related documents here: http://rudar.ruc.dk/handle/1800/23859
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International Trade Effects of Regional Economic Integration in Africa: The Case of the Southern African Development Community (SADC)

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Abstract
Empirical studies on regional economic integration process in Africa exhibit sluggish progress, and thereby limited level of intra-trade. The existing literature in Africa, particularly in the Southern African regional integration bloc, has neglected the effects of regional economic integration dealing with disaggregated data. This study analyzes trade creation and diversion effects of the Southern African Development Community (SADC) using disaggregated data. The investigation estimates an augmented gravity model using panel data and random effect estimator methods applying instrumental variables where needed. The results show that intra-SADC trade is growing in the fuel and minerals and the heavy manufacturing sectors while it displays a declining trend in the agricultural and light manufacturing sectors. This implies that SADC has displaced trade with the rest of the world in both fuel and minerals and the heavy manufacturing sectors. SADC has served to boost trade significantly among its members rather than with the rest of the world. Countries participating in SADC have moved toward a lower degree of relative openness with the rest of the world in these sectors of trade. However, the increasing trend of extra-SADC trade bias over the sample period in both the agricultural commodities and light manufacturing sectors means that there has been a negative trade diversion effect which implies that the value of trade between members and non-members has been increasing (and not falling as would be the case with trade diversion) for the two sectors. These results seem to suggest that SADC countries retained their openness and outward orientation despite signing the trade protocol for enhancing intra-SADC trade.

Keywords: agricultural sector, fuel and minerals, heavy and light manufacturing sectors, Southern African Development Community (SADC), regional economic integration effect, trade creation and trade diversion effects.

Empirical studies on regional economic integration process in Africa exhibit sluggish progress and thereby limited level of intra-trade. The existing literatures in Africa, particularly in Southern African regional integration bloc, SADC have neglected effects of regional economic integration dealing with disaggregated data. This study analyzes trade creation and diversion effects of the Southern African Development Community (SADC) using disaggregated data. The investigation estimates an augmented gravity model using panel data and random effect estimator methods applying instrumental variables where needed. The results show that the intra-SADC
trade is growing in fuel and minerals, and heavy manufacturing sectors while it displays a declining trend in agricultural and light manufacturing sectors. This implies that SADC has displaced trade with the rest of the world in both fuel and minerals, and heavy manufacturing sectors. SADC has served to boost trade significantly among its members rather than with the rest of the world. Countries participating in SADC have moved toward a lower degree of relative openness in these sectors trade with the rest of the world. However, the increasing trend of extra-SADC trade bias over the sample period in both agricultural commodities and light manufacturing sectors means that there has been a negative trade diversion effect which implies the value of trade between members and non-members has been increasing (and not falling as would be the case with trade diversion) for the two sectors. These results seem to suggest that SADC countries retained their openness and outward orientation despite they signed the trade protocol for enhancing intra-SADC trade.

The relevance of regional integration is a very persistent issue in Africa, specifically in view of political and economic backwardness. Africa is confronted with a deep-rooted level of poverty, a minimal share of world trade, and a low pace of development in human capital and infrastructure as well as being faced with an excess of challenges from external pressures. Ensuring that regional economic integration succeeds in Africa is vital not only because of the prospective and challenges mentioned above, but also because the policies that are required to ensure its fruitfulness are the same as those needed if Africa is to benefit from the process of globalization and integration into the world economy. However, in practice, the effectiveness of regional integration in Africa is an empirical issue specifically related to the progress of trade that flows among members of any trading bloc on the continent.

There are plenty of empirical studies regarding the effects of regional economic integration on trade flows. Various researchers have employed different methodology to analyze the effects of regional economic integration, and the results from these studies are mixed. Although early empirical studies used cross-sectional data to estimate gravity models (Aitkin, 1973; Berstrand, 1985), most researchers nowadays use panel data (Matyas, 1997; Wall, 2000; Glick and Rose, 2001). One reason is that the extra time series observations result in more accurate estimates. However, these studies fail to employ disaggregated data for analyzing the effects of regional economic integration on trade. This indicates a limitation of a model’s dependence upon aggregated data as opposed to disaggregated data, which can help in analyzing the effects of trade agreements on specific tradable commodities, and helps member countries identify sectors, which are advantageous in joining the trading bloc. In addition, aggregate data masks commodity, or level heterogeneity, which may also bias the estimate.

Specifically, to the best of our knowledge, the possibility of doing an examination using a panel data approach at the sectoral level is rarely practiced in Africa. As elaborated earlier, this leads to a biased estimation and hence incorrect inferences. Clausing (2001) and Romalis (2005) eliminated some of these problems by using commodity level data to analyze the effects of the Canada–United States Free Trade Agreement (CUSFTA) and the North America Free Trade Agreements (NAFTA), respectively.
Despite a number of empirical contributions in recent years, the effects of regional economic integration on trade in the region under study at the disaggregated data level have not been investigated rigorously. This void motivates this study to use disaggregated data to focus on the Southern African Development Community (SADC) and its effects on trade. To assess the effects of SADC on trade flows of member nations, this study relies on a gravity model and disaggregated data. The study analyzes the effects of SADC on trade in four sectors, namely, agricultural commodities, fuel and minerals, heavy manufacturing and light manufacturing products. An augmented gravity model of panel data approach is used to determine the extent of intra-regional trade bias and potential trade diversion effects for each sector.

**Review of the Literature**

**Effects of Regional Economic Integration**

This section analyzes the theory on the effects of regional economic integration. It further reviews the existing empirical findings of this topic so as to grasp some practical insights in this regard.

**Theoretical Framework on the Effects of Regional Economic Integration.** Entry into a regional integration scheme can have both static effects, which are a result of resource allocation in response to changing relative prices, and dynamic effects, which come from changes in efficiency, ability to exploit economies of scale, and in the level of investment and growth.

**Static Effects.** The static impact refers to changes that occurred in the equilibrium market price and quantity before and after the creation of the economic bloc. This can be a trade creation or a trade diversion. For a given product, a trade creation appears when high cost production is substituted by low cost production because of regional integration while economic diversion occurs when low cost production is substituted by high cost production. Nevertheless, besides the trade creation and trade diversion effects, the static effects of regional integration can involve other impacts. Thus, this study is going to look at these static effects by classifying them into traditional (trade creation and diversion) and non-traditional static effects in a broader sense. On top of these traditional static effects, Cline (1978) provided additional non-traditional static effects from regional trade integration, which are as follows: the labor opportunity effect, the economies of scale effect, and the foreign exchange saving effect.

Further studies also discovered more static gains from regional trade integration depending on the models used. Following the classification of Baldwin and Venables (1995) and that of Lloyd and Maclaren (2004), the models assumed perfect competition and constant returns to scale, and

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27 This occurs when an increase of output, made possible by regional trade integration, allows for the employment of extra labor at a wage below the minimum wage rate.

28 This occurs when firms become able to produce at their capacity as a result of the increase of the market size made possible by more demand of the product.

29 This occurs when a group of countries forms a regional trade agreement (RTA), and they increase imports from within the union and reduce the level of imports from outside the union, thus saving foreign exchange.
identified that trade volume, trade cost and terms of trade as beneficial effects of regional trade integration. However, models assuming imperfect competition and increasing returns to scale identified benefits from regional trade integration in the form of output, scale and variety effects.

**Dynamic Effects.** The effects considered in the above subsection are purely static responses of producers and consumers in more general models to changes in relative prices owing to changing patterns of tariffs.\(^{30}\) Besides these effects, however, there are also a variety of potential dynamic effects. These may be felt more gradually, but will be longer lasting and, in some cases, continued. These are competition effect, investment effect, economies of scale, capital formation effect and structural effect. In contrast to the static effect of regional trade integration, the dynamic effects are presumed to continue to generate annual benefits, even after the withdrawal of a country from the union. For instance, a rising in the growth rate made possible by integration will have continued effects provided that it is sustained.\(^{31}\) They likely constitute stronger arguments for regional integration than the static arguments based on resource allocation arguments addressed above. More precisely, dynamic effects, if present, are likely to dominate static effects.

**Welfare Effects.** Across the globe, there is a fierce debate about the merits of regional trading agreements (RTA). While some herald such agreements as stepping stones towards worldwide free trade, others fear that these initiatives will be stumbling blocks, acting primarily to divert trade from other countries to those countries receiving preferential treatment. Although these issues are essential for the future of the world's trading relationships, a number of obstacles prevent economists from reaching any consensus on the effects of preferential trading agreements. In addition, the empirical works fail to provide firm conclusions on even the most basic issues regarding preferential trading agreements: whether trade creation outweighs trade diversion (Clausing, 2001).

**Empirical Findings on Regional Economic Integration.** For analytic purposes, it is useful to classify the researchers’ findings on the topic according to the type of methodology they employ to examine the impacts of forming regional economic integration on trade flows, viz. descriptive approach, simulation approach (Computable General Equilibrium), or econometric approach (gravity model and others) as well as the nature of data they employ, namely cross section, time series panel based on the aggregate or sectoral level.

**CGE Model.** There are a large number of ex-ante Computable General Equilibrium (CGE) studies of trade agreements that examine what effects can be expected from preferential trading arrangements (for instance, Brown et al., 1992; Brown and Stern, 1989a; Haaland and Norman, 1992). More recently, Hertel et al. (2006) applied CGE analysis in order to better evaluate the likely outcome of a Free Trade Area of the Americas (FTAA) agreement, and they

\(^{30}\) The associated welfare changes are once and for all effects which in principle have their impact shortly after the integration scheme is introduced. They constitute a once-off, outward shift in the production possibility frontier attainable by the country given its resources (Cline, 1978).

\(^{31}\) Every dynamic effect is a consequence of the increase in effective size following integration, and will have potentially positive effects on growth.
found that imports increased in all regions of the world as a result of the FTAA. This outcome was robust to variation in the trade elasticities.

One weakness or imperfection of CGE studies is that their results are very sensitive to the assumptions, parameters, and data used in the model, and have to be interpreted accordingly. Besides, they do not allow an investigation of the questions this study is concerned with here.\(^{32}\) Krueger (1999) also mentioned that CGE studies have been prospective rather than retrospective. In a CGE model, the sectoral aggregation also does not permit analysis of specific markets. As with McKitrick (1998), policy information is usually outdated, and baseline scenarios are far from facts and based on the older data. CGE methods are also very data demanding and tend not to be applied with high levels of data disaggregation (Milner and Sledziewska, 2005). Therefore, the validity of the results of CGE studies is questionable in some cases. While CGE models are useful for speculating what the effects of a particular agreement might be, they are without firm evidence.

**Descriptive Approach.** A descriptive approach is also another methodology pursued in the literature to examine the effects of regional economic integration on trade patterns, for example, Anderson and Norheim, 1993; Yeats, 1998; Dell’Aquila et al., 1999). These studies used different indicators to measure the regional concentration of trade. A descriptive approach implicitly assumes that the share of trade happens with the partner nation that would not have changed in the absence of the agreement. This method depends on a static framework, and the results are dependent on the level of aggregation.\(^{33}\) Furthermore, a descriptive approach misses the ability to analyze trade creation and trade diversion effects and, hence, the welfare implications of RTAs (Jayasinghe & Sarker, 2004).

**Gravity Model.** Developing an accurate counterfactual of ex-post studies of how much trade would have increased in the absence of a given free trade agreement or customs union has proved difficult. For instance, Balassa (1967, 1975) constructed a counterfactual of how trade would have changed in the absence of European integration by calculating pre-integration income elasticities that were assumed to continue post-integration. Some, including Frankel and Wei, 1995; Frankel and Kahler, 1993; Frankel, 1997; Krueger, 1999; Aitkin, 1973; Aitkin and Obutelewicz, 1976; and Willmore, 1976, applied the gravity model to assess the impact of preferential arrangements on trade flows.\(^{34}\) Schwanen (1997) found that trade growth with the United States was much faster in liberalized sectors.

Helliwell et al. (1998) used two types of evidence in their approach to assess the impact of the FTA on inter-provincial trade. First, they developed a gravity model to explain inter-provincial and province-state trade flows. Then, they analyzed new industry-level data to estimate the extent to which tariff changes in Canada, and the United States helped explain inter-industry differences in the growth of inter-provincial trade. The disaggregated results of Helliwell et al. (1998)

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32 Analyzing trade creation and trade diversion effects of regional trading arrangements on trade patterns at sectoral level
33 As a result, changes in terms of trade as a result of changes in the relative trade importance of members and outsiders as well as declines in the volume of trade for a particular commodity comprised in the broader class, cannot be detected.
34 This model has the advantage of including several variables that are affecting trade flows, such as income changes and exchange rate variables.
suggested that the FTA-related reduction in Canadian tariffs led to increases in imports from the United States and to reductions in inter-provincial trade.

Regional dummy variables, inter and extra, have been used in gravity models using ex-post approaches to try to capture separate trade creations and diversion effects. It was also the case that gravity modeling was invariably used to model total trade flows or at least broad aggregates of trade.  

Clausing (2001) employed data at the commodity level, and the results indicated that CUSFTA had substantial trade creation effects with little evidence of trade diversion. Further, he argued that unlike the approaches of many previous studies of preferential trading agreements that have relied on aggregate data, disaggregate data was used to analyze how actual tariff changes affect trade flows. Without utilizing the variation in the extent of liberalization across goods, it would be far more difficult to distinguish the effects of an agreement from other influences affecting trade flows. Here, the current study agrees with the above notions.

Similarly, Jayasinghe and Sarker (2004) estimated an extended gravity model using pooled cross-sectional, time-series regression, and generalized least squares methods. As a result, they found that a share of intra-regional trade is growing within NAFTA, and that NAFTA has displaced trade with the rest of world. Using panel data econometric model analysis applied to highly disaggregated trade data, Milner and Sledziewska (2005) came out with the results that showed the European Agreement had transitory, but significant, trade diverting effects for Poland’s imports. The trade diversion substantially dominated the trade creation.

Empirical Findings on Regional Economic Integration in Africa

Alemayehu and Haile (2002), in their study for COMESA, showed that bilateral trade flows among the regional groupings could be explained by standard variables as demonstrated by the results of the conventional gravity model, while regional groupings had insignificant effects on the flow of bilateral trade. Khorana et al. (2007), using a partial equilibrium model, assessed the implications of the transitional measures for products sensitive from the Ugandan perspective. They discussed whether the regional trading arrangements conferred any real benefits on the stakeholders, and suggested alternative approaches that may increase the benefits for Uganda from trade liberalization within the customs union.

Specifically, Maasdorp (1999), in his study of regional trade and food security in SADC, concluded that trade in the region can contribute substantially to provide improved food security. Besides, he noted that there was a considerable scope for greater intra-regional trade in grains and other food products, and for a greater cross-border investment in agriculture and the agro-industry. By modeling South Africa and the rest of southern Africa, Lewis et al. (1999) also concluded that: (i) trade creation dominates trade diversion for the region under all FTA arrangements; (ii) the rest

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35 In which case, it does not allow the investigator to comment on trade creation and diversion effects at the disaggregate level. (Milner and Sledziewska, 2005).

36 Because assessing the impacts of forming regional trading blocs on trade flows based on aggregate data level may bias the estimation and results in incorrect inference.
of southern Africa benefits from an FTA between the EU and South Africa; (iii) the rest of southern Africa gains more from zero-tariff access to EU markets than from a partial (50 percent) reduction in global tariffs. To address the potential of increasing intra-SADC trade, Chauvin and Gautier (2002) used three complementary approaches. Keck and Piermartini (2005) applied the general equilibrium model with 15 regions and 9 sectors to simulate the impact of EPAs for countries of SADC. Their simulation results showed that EPAs with the EU were welfare-enhancing for SADC overall, which led also to substantive increases in real GDP.

Brief Overview of SADC’s Economic Structure and Characteristics

Economic Indicators of SADC Member Nations

From the beginning, the southern African region was comprised of heterogeneous countries both in terms of economic and political dimensions. Put differently, there were significant gaps of development. In 2007, this included six countries with a GDP per capita below or equal to US $660 (DRC, Lesotho, Malawi, Mozambique, Tanzania, and Zimbabwe), and eight other countries with an income per capita of US $900 to $8,600 (Botswana, Swaziland, Namibia, Mauritius, Seychelles, Zambia, South Africa, and Angola). If one excludes South Africa from the region, the average per capita income in 2007 was US $2,735 in SADC.

SADC Trade Level

Despite impressive growth in total exports between 2000 and 2007, intra-SADC trade remained weaker. An examination of trade between countries also revealed that more than two thirds of the total trade was with South Africa. However, SADC’s growth of extra-regional trade was more than with fellow members. Since SADC had commenced its implementation of the trade protocol, it experienced huge increases in exports. However, most of these exports were destined to markets outside the region itself and Africa on the whole. European countries were the major trading partners of the SADC members. Following European countries, Asia and the USA served as second and third, respectively, as significant export destinations of SADC members.

37 The first two refer to trade indices: export diversification indices revealed comparative advantages and trade complementarily indices and the last one is based on gravity model.
38 A comparison of SADC with other regional blocs shows that intra-regional trade provides the necessary impetus for deeper integration and regional progress. However, SADC is relatively lagging behind most regions outside Africa.
**Figure 1:** Export Share Trends of SADC by Destination in 2000 and 2007.  
*Source: Own Computation from COMTRADE DATA CD-ROM*

**Share of Exports by SADC Member States**

As Figure 2 displays, in both years, South Africa contributed the highest share in total intra-SADC trade. Zimbabwe and Namibia held the second and third positions in total trade that took place within the region in 2007.

**Figure 2:** Share of Intra-Export value in SADC Trade by Members (in US dollar)  
*Source: Own Computation from COMTRADE DATA CD-ROM*

It was also evident that intra-trade among SADC members had declined in the agricultural and light manufacturing sectors in 2007 as compared to the base year 2000. However, trade shares increased in fuel and minerals and the heavy manufacturing sectors for the same period.
Table 1

<table>
<thead>
<tr>
<th>country/year</th>
<th>2000</th>
<th>2007</th>
<th>As % of SADC-World</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botswana</td>
<td>2762610944</td>
<td>5072523185</td>
<td>7.36</td>
</tr>
<tr>
<td>Malawi</td>
<td>379292364</td>
<td>868559184</td>
<td>1.01</td>
</tr>
<tr>
<td>Mauritius</td>
<td>1489961728</td>
<td>2054081555</td>
<td>3.97</td>
</tr>
<tr>
<td>Namibia</td>
<td>1326732160</td>
<td>4040273925</td>
<td>3.54</td>
</tr>
<tr>
<td>South Africa</td>
<td>26297951898</td>
<td>64026608364</td>
<td>70.10</td>
</tr>
<tr>
<td>Tanzania</td>
<td>655797120</td>
<td>2139346909</td>
<td>1.75</td>
</tr>
<tr>
<td>Zambia</td>
<td>892362022</td>
<td>4618619360</td>
<td>2.38</td>
</tr>
<tr>
<td>Zimbabwe</td>
<td>1924962432</td>
<td>3310184142</td>
<td>5.13</td>
</tr>
<tr>
<td>Seychelles</td>
<td>193679154</td>
<td>360146563</td>
<td>0.51</td>
</tr>
<tr>
<td>Swaziland</td>
<td>890750016</td>
<td>1082299753</td>
<td>2.37</td>
</tr>
<tr>
<td>Mozambique</td>
<td>363962000</td>
<td>2412078629</td>
<td>0.97</td>
</tr>
</tbody>
</table>

Source: Own Computation from COMTRADE DATA CD-ROM

According to Table 1, South Africa, followed by Botswana and Zambia, accounted for 70% of the total exports of SADC for the year 2007.

Empirical Methodology and Model Specification for Estimation

The existing literature on the methodology of assessing the effects of how regional economic integration on trade flows among nations can be broadly classified into three categories. Empirical studies have employed a range of techniques to investigate the effects of RTAs. Namely, computable general equilibrium (CGE) models which employ economy wide, multi sectoral analyze the welfare impacts of RTAs, and a descriptive approach that is also applied in the literature analyzes the impacts of RTAs can be mentioned. However, these two approaches have various limitations as explained in the literature section. Hence, as an alternative, recent econometric studies have incorporated the effects of RTAs into the model specification and into estimate models using pre-RTA and post-RTA data. The impact of RTAs on the trade flow is captured through the use of regional dummy variables. This is known as the gravity model approach, which explains bilateral trade flow between trading partners over time. The gravity model has become an attractive technique for assessing the effects of RTAs.

Theoretical Justification of the Gravity Model in Analyzing Trade

As was mentioned earlier, the Newtonian physics notion is the first justification of the gravity model. The second rationale, that the gravity equation can be analyzed in the light of a

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39 The gravity model is a popular formulation for statistical analyses of bilateral flows between different geographical entities. In the following, an overview of the evolution and use of this equation are provided. Originally, in 1687, Newton proposed the “Law of Universal Gravitation.”
partial equilibrium model of export supply and import demand, was provided by Linneman (1966). Relying on some simplifying assumptions, the gravity equation proves to be a reduced form of this model. Nonetheless, Bergstrand (1985) and others indicated that this partial equilibrium model cannot explain the multiplicative form of the equation, and also leaves some of its parameters unidentified mainly because of the exclusion of the price variable. With the simplest form of the equation, of course, Linneman’s justification for exclusion of prices is consistent.

Anderson (1979) provided the first theoretical explanation for the gravity equation based upon the properties of the expenditure systems. Since Anderson’s synthesis, Bergstrand (1985, 1989), Helpman and Krugman (1985), and Deardorff (1998) have also contributed to improvements of the theoretical foundation of the gravity model. In these studies, the gravity equation was derived theoretically as a reduced form from a general equilibrium model of international trade of final goods. The micro-foundation approach also claimed that the crucial assumption of perfect product substitutability of the ‘conventional’ gravity model is unrealistic as evidenced in recent times has shown that trade flows are differentiated by place of origin. Exclusion of price variables leads to misspecification of the gravity model. Anderson (1979), Bergstrand (1985, 1989), Helpman and Krugman (1985), and others agreed with this view. Hence, this new legitimacy, or theoretical foundation in applying the gravity model for assessing international trade flows, motivated this study’s reliance on an extended gravity model for the purpose of analyzing the trade effects of SADC.

Gravity Model for the Present Study

The gravity model of bilateral trade hypothesizes that the flows of trade between two countries is proportional to their gross domestic product (GDP) and negatively related to trade barriers between them. Empirical works have provided a number of alternative specifications for the gravity model.

In the context of international trade, the basic formulation of the gravity model equation is as follows:

\[ X_{ijt} = \beta_0 Y_{it}^{\beta_1} Y_{jt}^{\beta_2} N_{it}^{\beta_3} N_{jt}^{\beta_4} D_{ij}^{\beta_5} U_{ijt} \]  \hspace{1cm} (4)

For estimation purposes, the basic gravity model is most often used in its log-linear form. Hence, this is equivalently written using natural logarithms as:

\[ \ln X_{ijt} = \beta_0 + \beta_1 \ln Y_{it} + \beta_2 \ln Y_{jt} + \beta_3 \ln N_{it} + \beta_4 \ln N_{jt} + \beta_5 \ln D_{ij} + \ln U_{ijt} \]  \hspace{1cm} (5)

where notation is defined as follows:

40 The Trade Flow Model: The potential supply of any country to the world market is linked systematically to (i) the size of a country’s national or domestic product (simply as a scale factor), and (ii) the size of a country’s population.

41 Both the Pure Expenditure System Model (The simplest possible gravity-type model stems from a rearrangement of a Cobb-Douglas expenditure system implying that identical expenditure shares and gravity equation income elasticities of unity), and the Trade-Share-Expenditure System Model (While a gravity equation is produced by such(516,952),(770,999)
Trade theories based upon imperfect competition and the Hecksher-Ohlin models justify the inclusion of the core variables: basically, income and distance. However, most researchers incorporate additional variables to control differences in geographic factors, historical ties, exchange rate risk, and even overall trade policy for the fact that trade that flows between nations can be affected by factors besides the core variables (GDP, population, distance). Hence, it is common to expand the basic gravity model by adding other variables, which are thought to explain the impact of various policy issues on trade flows.

In the case of gravity equations used to estimate the impact of regional trade arrangements, dummy variables were added for each RTA under critical examination. Furthermore, in order to avoid capture by these dummy variables and the impact of other influences on trade, other dummy variables were added to control the common language and common border. Thus, the augmented gravity model incorporated other variables, and thus, by introducing these variables in to equation (21), the basic formulation of the model could be extended as follows:

\[
\ln X_{ij} = \ln \beta_0 + \beta_1 \ln Y_i + \beta_2 \ln Y_j + \beta_3 \ln GDPPC_i + \beta_4 \ln GDPPC_j + \beta_5 \ln GDPPCDIFF_{ij} + \beta_6 \ln D_{ij} + \beta_7 \ln IF_i + \beta_8 \ln TR_i + \beta_9 \ln TR_j + \beta_{10} CL_{ij} + \beta_{11} Border_{ij} + \beta_{12} SADC_{ij} + \beta_{13} SADCX_{ij} + \ln U_{ijt} \quad \ldots \quad (6)
\]

Where,

- \( IF_{i(j)} \) = infrastructural level of trading nations at time t
- \( CL \) = common language between country i and j
- \( IM_{it} \) = import to GDP ratio of country i at time t which measures openness
- \( IM_{jt} \) = import to GDP ratio of country j at time t which measures openness
- \( GDPPC_{it} \) = GDP per capita income of exporting countries at time t.
- \( GDPPC_{jt} \) = GDP per capita income of importing countries at time t
- \( GDPPCDIFF_{ijt} \) = the per capita GDP difference between countries i and j at time t
- \( Border \) = common border between countries i and j
- \( SADC \) = regional dummy, takes the value one when a certain condition is satisfied, otherwise zero.

The GDP per capita income was incorporated rather than population in equation (6).\(^{42}\)

\(^{42}\) Because population is appropriate when aggregate export data is used for specific export product, GDP per capita income is preferable. Although not exhaustive, our list includes most other variables used in the literature. Nonetheless, there is no agreement on which variables beyond the core factors are included in the gravity model. Second, there are mixed results on the estimated impact of each variable on bilateral trade.
Introducing regional dummy variables helped to estimate the trade effects of the SADC regional bloc using equation (6), which is the interest of this study. Therefore, following Coulibaly (2004), two dummy variables SADCTij and SADCXij, were introduced to capture intra-bloc and extra-export effects of the SADC as a whole in the following way:

SADCT = 1 if both partner belongs to SADC, [otherwise 0] (capturing intra-bloc trade)

SADCX = 1 if the exporting country i is a member of SADC and the importing country j belongs to the ROW [zero otherwise] (capturing bloc exports to the ROW).

In the researchers’ estimates, SADCTIJ captured the total intra-regional trade bias. The dummy SADCXIJ captured the extra-regional export bias where a negative and significant coefficient indicated that member countries had switched to export to members rather than non-members.43

Table 2
Data description and Hypotheses for Gravity Model Variables

<table>
<thead>
<tr>
<th>Name of variable</th>
<th>Expected sign</th>
<th>Measurement</th>
<th>Source</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDP</td>
<td>+ve</td>
<td>In US dollars</td>
<td>WDI-CD-R0M (2008)</td>
<td>Growth in economic capacity boosts trade flows</td>
</tr>
<tr>
<td>GDP per Capita income</td>
<td>+ve/-ve</td>
<td>In US dollars</td>
<td>WDI-CD-R0M (2008)</td>
<td>Because of economies of scale effect and absorption effect</td>
</tr>
<tr>
<td>GDP per Capita income difference</td>
<td>+ve/-ve</td>
<td>In US dollar</td>
<td>WDI-CD-R0M(2008)</td>
<td>Because of HO –Theory and Linder hypothesis</td>
</tr>
<tr>
<td>Distance</td>
<td>-ve</td>
<td>In kilometers</td>
<td>Indo.com/distance</td>
<td>seen as a restriction or friction to trade</td>
</tr>
<tr>
<td>Infrastructure index</td>
<td>+ve</td>
<td></td>
<td>WDI-CD-R0M(2008)</td>
<td>This index is computed using 4 variables from WDI database (2008).</td>
</tr>
<tr>
<td>Common language and border</td>
<td>+ve</td>
<td></td>
<td>World Fact Book(2008)</td>
<td>sharing common language and border is assumed to facilitate trade activities among nations</td>
</tr>
<tr>
<td>Regional dummy SADCXIJ</td>
<td>+ve/-ve</td>
<td></td>
<td></td>
<td>capture the influence of regional trading agreements on trade flows among nations</td>
</tr>
<tr>
<td>Regional dummy SADCTIJ</td>
<td>+ve/-ve</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

43 This can be trade diversion which results in a member country preferring to export to members rather than non-members.
Data Description and Sampling Procedure

The majority of empirical literature on the gravity model used total bilateral trade flows as dependent variable. However, Cernat (2001) suggested that the use of bilateral export flows for a given pair of countries with total bilateral trade cannot distinguish between the impacts of RTA formation on exports from non-members to RTA members and impacts on exports from the RTA member to the non-members. For the present study, bilateral export flow (proxy for total bilateral trade) was used as the dependent variable. This study covers a total of 30 countries. The countries were chosen on the basis of importance of trading partnerships with SADC members and availability of the required data. Eight countries of SADC (out of fourteen countries): Botswana, Malawi, Mauritius, Namibia, South Africa, Tanzania, Zambia and Zimbabwe were incorporated in the sample as reporter countries. However, all members of SADC were included as the partner countries in the sample taken for this study to examine the level of intra-regional trade.44

Estimation Results and Analysis

Before proceeding to the discussion of empirical results, it should be noted that the current empirical analysis differs in some important respects from many gravity models found in the literature. The first stems from the way bilateral trade data was constructed.45

Tests

Different tests have been conducted to choose the appropriate estimation method for the specified panel gravity model of equation (6) and for detecting endogeneity problems among the explanatory variables. See details for random versus fixed effect tests in Appendix B, Table B2, endogeneity of explanatory variables in Appendix B, Table B1, and Random Effect Estimator Vs Instrumental Variables in Appendix B, Table B3. All estimates have also been checked for heteroscedasticity.

Analysis of Results

Our workhorse gravity model equation (6) has been estimated using a random effect estimation technique and by applying instrumental variables where it is justifiable with panel data for the aforementioned reasons. It has been estimated by taking all variables separately for every sector considered in this study. As Table 3 exhibits, when the agricultural commodities export value was the dependent variable, except for common language, all variables were found to be significant.46 Similarly, in regression results with fuel and mineral export value as the dependent

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44 From the EU, ten countries were taken because they serve as major trading partners of SADC. These are UK, Germany, France, Italy, Netherlands, Austria, Portugal, Belgium, Luxembourg and Spain. Next to the EU, Asian countries are the second most important trading partner for the region. As a result, five countries were chosen from Asian countries: India, China, Japan, Hong Kong and Indonesia. The USA is also included in the sample since it takes the third position of SADC’s export destinations.
45 This study uses export values as the dependent variable for the aforementioned reasons. Furthermore, total export value was disaggregated in four sectors.
46 While GDP per capita income coefficient for both trading partners was negative and significant, implying that increasing per capita income in the exporting country results in the rise of the absorption capacity of the domestic market while increasing per capita income in the importing country’s contribute to the economies of scale of the domestic industry.
variable, we found that all variables included in the regression were significant, but GDP and the GDP per capita income for importing countries were only slightly significant.

Table 3  
Regression Results of All Four Sectors Together  
(Log of export value of each sector as dependent variable.)

<table>
<thead>
<tr>
<th>Variable/Coefficients</th>
<th>agri</th>
<th>Fuel&amp; min</th>
<th>Hmanu</th>
<th>Lmanu</th>
</tr>
</thead>
<tbody>
<tr>
<td>logYIT</td>
<td>.98*</td>
<td>1.23*</td>
<td>1.27*</td>
<td>.80*</td>
</tr>
<tr>
<td></td>
<td>(12.83)</td>
<td>(8.01)</td>
<td>(12.82)</td>
<td>(10.16)</td>
</tr>
<tr>
<td>logYJT</td>
<td>.70*</td>
<td>.23***</td>
<td>1.08*</td>
<td>.87*</td>
</tr>
<tr>
<td></td>
<td>(8.75)</td>
<td>(1.82)</td>
<td>(12.91)</td>
<td>(10.31)</td>
</tr>
<tr>
<td>logGDPPCIT</td>
<td>-.52*</td>
<td>.78*</td>
<td>.14</td>
<td>.67*</td>
</tr>
<tr>
<td></td>
<td>(-5.99)</td>
<td>(3.76)</td>
<td>(1.14)</td>
<td>(7.64)</td>
</tr>
<tr>
<td>logGDPPCJT</td>
<td>-.37*</td>
<td>.34***</td>
<td>-.11</td>
<td>-.04</td>
</tr>
<tr>
<td></td>
<td>(-3.59)</td>
<td>(1.73)</td>
<td>(-0.89)</td>
<td>(-0.35)</td>
</tr>
<tr>
<td>logGDPPCDI</td>
<td>.24*</td>
<td>-.32**</td>
<td>-.09</td>
<td>.15**</td>
</tr>
<tr>
<td></td>
<td>(3.18)</td>
<td>(-2.24)</td>
<td>(-0.95)</td>
<td>(1.99)</td>
</tr>
<tr>
<td>logDIJ</td>
<td>-2.38*</td>
<td>-67**</td>
<td>-1.38*</td>
<td>-2.33*</td>
</tr>
<tr>
<td></td>
<td>(-9.96)</td>
<td>(-2.23)</td>
<td>(-6.71)</td>
<td>(-10.19)</td>
</tr>
<tr>
<td>logIFIT</td>
<td>1.01*</td>
<td>1.23*</td>
<td>1.25*</td>
<td>2.09*</td>
</tr>
<tr>
<td></td>
<td>(11.36)</td>
<td>(5.79)</td>
<td>(11.53)</td>
<td>(23.05)</td>
</tr>
<tr>
<td>logIFJT</td>
<td>.21***</td>
<td>.36**</td>
<td>.59*</td>
<td>-.09</td>
</tr>
<tr>
<td></td>
<td>(1.79)</td>
<td>(2.07)</td>
<td>(5.0)</td>
<td>(-0.69)</td>
</tr>
<tr>
<td>logTRIT</td>
<td>.21*</td>
<td>-.96*</td>
<td>-.06*</td>
<td>.42</td>
</tr>
<tr>
<td></td>
<td>(4.45)</td>
<td>(-4.67)</td>
<td>(-6.10)</td>
<td>(-7.62)</td>
</tr>
<tr>
<td>logTRJT</td>
<td>-1.15</td>
<td>-2.57*</td>
<td>-2.02</td>
<td>-2.10**</td>
</tr>
<tr>
<td></td>
<td>(1.24)</td>
<td>(-3.16)</td>
<td>(-0.30)</td>
<td>(2.38)</td>
</tr>
<tr>
<td>CLIJ</td>
<td>.13</td>
<td>-.83**</td>
<td>.56*</td>
<td>.86*</td>
</tr>
<tr>
<td></td>
<td>(0.72)</td>
<td>(-2.51)</td>
<td>(2.84)</td>
<td>(4.52)</td>
</tr>
<tr>
<td>BORDERIJ</td>
<td>1.80*</td>
<td>2.10*</td>
<td>2.35*</td>
<td>2.11*</td>
</tr>
<tr>
<td></td>
<td>(7.07)</td>
<td>(5.53)</td>
<td>(8.54)</td>
<td>(8.10)</td>
</tr>
<tr>
<td>cons</td>
<td>3.57</td>
<td>-3.65*</td>
<td>-18.35</td>
<td>-1.70</td>
</tr>
<tr>
<td></td>
<td>(1.03)</td>
<td>(-0.60)</td>
<td>(-4.72)</td>
<td>(-0.42)</td>
</tr>
</tbody>
</table>

| Number of obs | 1594 | 610 | 1542 | 1568 |
| Over all R²   | 0.39 | 0.51 | 0.44 | 0.52 |

Note: agri = agricultural commodities export value, fuel & min = fuel and mineral export value, Hmanu = heavy manufacturing export value, and Lmanu = light manufacturing export value. The numbers in Parentheses are t-values and *, ** and *** show at the 1%, 5% and 10% significance level respectively. All variables except dummy variables are in logs.

Unlike the regression results table of agricultural commodities export value sector model, the GDP per capita income difference was found to be negative and significant endorsing Linder’s
hypothesis that similar countries trade more with each other than dissimilar countries do.\(^47\)

Again, when heavy manufacturing export value is on the left side of the regression equation (6), all core variables of the gravity model, the GDP for exporting, as well as importing and distance are consecutively significant with the anticipated positive and negative sign. Furthermore, with the light manufacturing export value as the dependent variable, it is shown that the GDP of exporting and importing countries, the GDP per capita income, and the infrastructural level index of exporting countries and distance were found to be significant with the expected sign.\(^48\)

**Analysis for Regional Dummy Variables Results in All Sectors.** When we come to the variable interest of this study, the results in Table (7) below display that the regional dummies effects vary from sector to sector. Referring to this regression result table, the intra-trade dummy coefficient for the fuel and minerals sector as well as the heavy manufacturing sector model fits with the expected positive sign and was found significant. The results suggest that the positive sign of the intra–SADC dummy is associated with intra-bloc export creation for the two sectors mentioned above. If two countries are members of SADC, an export flow between them is \(8812\% \exp\{(4.49) - 1\} = 88.12\) and \(811\% \exp\{( 2.21) - 1\}=8.11\) more than two otherwise similar countries for the fuel and minerals and the heavy manufacturing sectors, respectively (see Table 5). Nevertheless, the extra–SADC dummy coefficient for these sectors demonstrates a negative sign implying that extra–SADC trade diversion in the fuel and minerals and heavy manufacturing sectors is registered for the given sample year of study. One possible justification for extra-trade diversion effects in the fuel and minerals and heavy manufacturing sectors might be the exclusion of Angola from the sample of this study, which represents a significant share and destining its market in fuels and minerals outside Africa. This may underestimate the trade flow of fuel and minerals to nonmember partners.

For the positive intra- and negative extra–SADC trade in the heavy manufacturing sector, one possible reason might be that manufactured goods from the SADC countries not only faced high import barriers in the developed countries, but also were not competitive. This is equivalent to saying that the SADC countries prefer to trade within the region because they realize their lack of competitiveness in trading heavy manufacturing products in the global market. On top of this, as incomes rise in southern African countries, consumers demand a greater choice in the variety of products and increasingly sophisticated products. In the absence of capacity for local production, increased demand for imports of such products provides an opportunity for South African exporters of processed and highly valued products to take advantage of opportunities in such markets which are exhibited in SADC’s fuel and minerals, and heavy manufacturing sectors.

---

\(^47\) This Linder hypothesis emphasis shows income similarity as the driver of trade instead of income differences.

\(^48\) Like in the agricultural commodities export value regression result, per capita GDP differential was shown to be significant and had a positive sign, which again supports the H – O hypothesis in the light manufacturing export value model.
Table 4

Regression Results of Regional Trade Agreement Dummy Variables (2000-2007)

<table>
<thead>
<tr>
<th>Variable/coefficients</th>
<th>agri</th>
<th>Fuel&amp; min</th>
<th>Hmanu</th>
<th>Lmanu</th>
</tr>
</thead>
<tbody>
<tr>
<td>SADCTIJ</td>
<td>-3.51*(3.61)</td>
<td>4.49 *(5.13)</td>
<td>2.21* (-4.15)</td>
<td>-1.95***(-1.94)</td>
</tr>
<tr>
<td>SADCXIJ</td>
<td>3.51*(3.61)</td>
<td>-4.49*(5.13)</td>
<td>-2.21*(4.15)</td>
<td>1.95*** (1.94)</td>
</tr>
</tbody>
</table>

Note: SADCTIJ takes the value unity when both countries are current members of the bloc. A positive coefficient indicates trade creation. The regional dummy, SADCXIJ takes a value of unity only if the exporting country is a current member of the bloc, and the importing countries are part of the ROW. A positive coefficient indicates an open bloc, while a negative coefficient suggests trade diversion. The numbers in Parentheses are t-value and *, ** and *** show at 1%, 5% and 10% significance levels, respectively.

However, the intra-regional dummy for the agricultural commodities exported and light manufacturing sectors is unexpectedly negative which implies that countries located within these regions do trade less with each other over and above the levels predicted by the basic explanatory variables for the given sample years of this study. Put differently, there was intra-SADC export trade diversion in the agricultural and light manufacturing sectors. With regard to the extra trade dummy, Table 4 reveals a positive sign for the two sectors indicating that SADC’s trade outside of the region has grown at the expense of declining trade within the region itself, which is interpreted as SADC’s openness (extra-SADC export trade creation) in agricultural commodities and light manufacturing exports.

Table 5

Calculated percentage change equivalents in the respective estimated intra and extra dummy coefficients of SADC (2000-2007)

<table>
<thead>
<tr>
<th>Variable/coefficients</th>
<th>agri</th>
<th>Fuel&amp; min</th>
<th>Hmanu</th>
<th>Lmanu</th>
</tr>
</thead>
<tbody>
<tr>
<td>SADCTIJ</td>
<td>-95</td>
<td>8812</td>
<td>811</td>
<td>-86</td>
</tr>
<tr>
<td>SADCXIJ</td>
<td>3244</td>
<td>-98</td>
<td>-89</td>
<td>603</td>
</tr>
</tbody>
</table>

Note: As the dependent variable is in logarithm form, the percentage effect of the dummy variables is calculated by subtracting one from the exponent of the regression dummy coefficient shown in table 4 and then multiplying the result by 100, i.e. \([\text{exp}(\text{coefficient})]-1\)*100.

One possible reason for the negative intra-SADC trade exhibited in the agricultural sector might be the importance of the agricultural sector in SADC economies. The agricultural sector plays a vital role in the economies of southern African countries, not only as a producer of food but also as the largest employer of its population. Naturally, member states seek to protect their sensitive sectors. International experience has indicated that the agricultural sector is the most likely to give rise to major negotiating difficulties. Moreover, the absence of extra trade diversion might be owing to the fact that many of the SADC members examined have not been able to fully implement the intra-RTA tariff elimination schedules proposed in 1996. Additionally, most of the members of SADC are small economies and rely on similar comparative advantages such as an
agricultural dominant economy. Hence, it is not surprising to see the negative of intra–SADC trade in this sector.

It was interesting to observe that the export value in agricultural commodities and light manufacturing between two countries would increase by 3244% \( \exp{(3.51)-1} = 32.44 \) and 603% \( \exp{(1.95)-1} = 6.03 \) consecutively if there was not a bilateral trade agreement between the countries, compared to the country pairs with bilateral trade ties. The estimates in Table 5 suggest that during the 2000–2007 periods, members of SADC traded with the rest of the world in the agricultural and light manufacturing sectors by 32.44 and 6.03 more than they traded within the region, respectively. The extent of intra-bloc export creation in SADC member countries was much higher in fuel and minerals than in that of heavy manufacturing products. With regard to the extent of extra–SADC export trade creation, it was larger in agricultural commodities and lesser in light manufacturing products. The lowest level of intra–SADC trade was exhibited in the agricultural sector while the highest level was recorded in the fuel and minerals sector. The reverse was registered for the extra-SADC trade level.

**Conclusion and Policy Implication**

**Conclusion**

This paper has attempted to investigate the effects of a regional trade agreement for the case of SADC’s trade with its major trading partners using an augmented gravity model when disaggregated data is employed.

The results for other than the regional dummy factors in the gravity model of this study paint a familiar picture of the findings in the gravity model literatures except that they vary from sector to sector. Turning to the variable interest of this study, the regression results for the regional dummy display a different sign and magnitude on SADC’s export trade across the sectors considered under the study. This implies that this study’s results for some sectors deviate from the previous empirical findings for the same region. In general, the formation of the SADC regional scheme enhances intra-regional trade in the fuel and minerals and heavy manufacturing sectors, where as it reduces trade within the region in the agricultural commodities and light manufacturing sectors. SADC’s trade with the ROW has increased in the agricultural commodities and light manufacturing sectors, but has failed to increase extra trade in the fuel and minerals and heavy manufacturing sectors owing to a regional integration effect. In a nutshell, intra-SADC export trade creation has occurred in the fuel and minerals and the heavy manufacturing sectors where as SADC maintains openness in agricultural commodities and light manufacturing product exports which exhibits extra-SADC export trade creation in these sectors. In conclusion, as the study’s findings confirm effects of regional economic integration using disaggregated data does really matter as expected.

**Policy Implication**

An increase of trade among SADC countries will imply either an openness of the southern African market, a changing of specialization of SADC countries, or a reduction of protection on
sensitive goods like agricultural commodities. The quality and strength of effective institutions in SADC is also essential in overcoming obstacles for promoting greater trade. This helps facilitate the implementation of trade protocol, and achievement of its final goals at the scheduled time.

It is also anticipated that with a reduction in tariff barriers and non-tariff barriers within the region, there will be a rise in intra-regional trade in the SADC region. Elimination of trade barriers and structural rigidities originating from adverse political relationships could also lead to a substantial increase in intra-SADC trade. Regional national policy makers can also approach the boosting of intra-trade in Africa by designing sectoral trade related agreement policies, which again fasten regional economic integration to the highest level on the continent.

References


Appendices

Appendix A: Description and Aggregation of Sectors Based on Keck and Roberta Pier Martini (2005)

Traded commodities are divided in the following four sectors (Sector Aggregation)

<table>
<thead>
<tr>
<th>Agricultural commodities</th>
<th>Animal agriculture, i.e. animal products n.e.c.; raw milk; wool, silkworm cocoons; cattle etc.; meat; meat products, Sugar cane and beets, paddy rice; wheat; cereal grains n.e.c.; oil seeds; crops n.e.c.; vegetables, fruit, nuts, food products, i.e. vegetable oils and fats; dairy products; processed rice; food products n.e.c.; sugar; beverages and tobacco products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel and minerals</td>
<td>Fuels and minerals, i.e. coal; oil; gas; minerals n.e.c.;</td>
</tr>
<tr>
<td>Heavy manufacturing</td>
<td>Heavy manufactures and metals, i.e. chemical, rubber and plastic products; paper products and publishing; wood products; petroleum, coal products; mineral products n.e.c.; metals; ferrous metals; metals n.e.c.; metal products</td>
</tr>
<tr>
<td>Light manufacturing</td>
<td>Light manufactures, i.e. motor vehicles and parts; transport equipment n.e.c.; electronic equipment; machinery and equipment n.e.c.; forestry; fishing; manufacture n.e.c.</td>
</tr>
</tbody>
</table>

Source: COMTRADE CD-ROM DATA BASE
**Appendix B: Test Tables**

**Table B1**  
*Multicollinearity Test*

<table>
<thead>
<tr>
<th>Dependent Variable</th>
<th>Original $R^2=0.43$</th>
<th>Original $R^2=0.51$</th>
<th>Original $R^2=0.44$</th>
<th>Original $R^2=0.55$</th>
</tr>
</thead>
<tbody>
<tr>
<td>agri</td>
<td>Fuel&amp; min</td>
<td>Hmanu</td>
<td>Lmanu</td>
<td>agri</td>
</tr>
<tr>
<td>logYIT</td>
<td>0.61</td>
<td>0.61</td>
<td>0.61</td>
<td>0.61</td>
</tr>
</tbody>
</table>

Note: agri = agricultural commodities export value; fuel&min = fuel and minerals export value; Hmanu = heavy manufacturing export value; and Lmanu = light manufacturing export value.

* All $R^2$’s are from random effect regression results.

Implication: the above four sectors’ models are not free from multicollinearity problem.

**Table B2**  
*Model Selection Test- Fixed vs Random Effect Models*

<table>
<thead>
<tr>
<th>Test type</th>
<th>Test type</th>
<th>agri</th>
<th>Fuel&amp; min</th>
<th>Hmanu</th>
<th>Lmanu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hausman</td>
<td>$\chi^2 (13)= -27$</td>
<td>$\chi^2 (13)= -30$</td>
<td>$\chi^2 (13)= -5.7$</td>
<td>$\chi^2 (13)= 41$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(p= -27.87)</td>
<td>(p= -30.55)</td>
<td>(p= -5.70)</td>
<td>(p=0.001)</td>
<td></td>
</tr>
<tr>
<td>Significance level</td>
<td>At any level</td>
<td>At any level</td>
<td>At any level</td>
<td>At 1%,5%&amp;10%</td>
<td></td>
</tr>
<tr>
<td>Decision</td>
<td>For $H_0$</td>
<td>For $H_0$</td>
<td>For $H_0$</td>
<td>For $H_1$ (against $H_0$)</td>
<td></td>
</tr>
</tbody>
</table>

* Where $H_0$: random effect estimator is consistent
  $H_1$: fixed effect estimator is consistent
* High (low) Hausman test prefers fixed (random) effect.

Conclusion: except light manufacturing sector, all sectors model justified random effect in both tests.
### Table B3

**Hausman Test for Random Effect Estimator Vs Instrumental Variable**

<table>
<thead>
<tr>
<th>Test type</th>
<th>agri</th>
<th>Fuel&amp; min</th>
<th>Hmanu</th>
<th>Lmanu</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hausman</strong></td>
<td>$\chi^2 (14) = 23.89$</td>
<td>$\chi^2 (14) = 0.94$</td>
<td>$\chi^2 (14) = 16.38$</td>
<td>$\chi^2 (14) = 28.41$</td>
</tr>
<tr>
<td></td>
<td>(p= 0.0473)</td>
<td>(p= 1.0000)</td>
<td>(p= 0.2906)</td>
<td>(p= 0.0125)</td>
</tr>
<tr>
<td><strong>Significance level</strong></td>
<td>Significant at 5% and 10%</td>
<td>Insignificant at any level</td>
<td>Insignificant at 5% and 10%</td>
<td>Significant at 5%</td>
</tr>
<tr>
<td><strong>Decision</strong></td>
<td>For $H_1$</td>
<td>For $H_0$</td>
<td>For $H_0$</td>
<td>For $H_1$</td>
</tr>
</tbody>
</table>

* Where, $H_0$: random effect estimator is consistent
  $H_1$: using instrumental variable is appropriate

** Conclusion: using instrumental variable is justified for Model I and Model IV. Models II and III prefer the random effect estimator.*
Why Regional Integrations Succeed or Fail in Africa

Martin Namasaka, London School of Economics and Political Science Alumnus

Abstract

The question of why some regional integrations succeed and others fail remains unresolved. This paper goes beyond proximate factors advocated by most studies. It examines the importance of initial conditions and argues that structural change in the fundamental sectors of the economy must have taken place in all, or at least a few, countries seeking closer ties. A comparative case study analysis of the East African Community (EAC) and the Southern African Development Community (SADC), guided by the political settlements theoretical framework, confirms the hypothesis: Structural transformation stimulates the kind of conditions required to create incentives for countries to demand regional integration and succeed in achieving it. These findings have important implications for most developing countries that see regional integration as a panacea for the uneven structure of global trade and investment.

Keywords: EAC, SADC, COMESA, regional integration, Africa

The importance of the debate on regional integration to global development does not need much emphasis, due to the increasing number of regional integration experiments over the past five decades, and the growing concern of uneven development generated by forces of globalisation. Several arguments have been made citing the significance of regional grouping, including the potential expansion of market size, maximisation of scale economies, increased regional trade and investment, and so forth (Brülhart & Torstensson, 1996; Mattli, 1999). While these arguments are indisputable, particularly in the context and circumstances of developing countries such as those within the Common Market for Southern Africa (COMESA) with the intention of catching up with their developed counterparts, one may wonder why there are so few success stories of functional regional integrations.

The Debate on Regional Integration to Global Development

Extant scholarly literature has attempted to address this question, thus engendering diverse perspectives. Neofunctionalists attribute success of regional integration to a gradual emergence of cross-country interests that, in the long term, create an international constituency resulting in the formation of supranational institutional structures that drive and bring countries closer (Schmitter, 2004; Strøby & Jensen, 2000; Eichengreen, 2006). Others have argued that integration results from the convergence of interests among heads of government that emanates from bargains reached on issues of common interest (Moravcsik, 1995; Wiener & Diez, 2004). Economists see regional
integration as an incentive driven process, mainly motivated by the desire among countries to remove impediments in cross-border transactions in order to maximise economies of scale from international trade and investment (Balassa, 2013:4; Rivera-Batiz & Romer, 1990).

However, Mattli (1999), in his seminal work titled, *The Logic of Regional Integration*, has criticised the above theoretical claims by arguing that they fail to account for the verisimilitudes that are typically common among regional integration processes that are, failure, stagnation and success. He proposes a comprehensive and compelling theoretical framework that utilises a market approach. He draws on insights from institutional theory to argue that for integration to succeed, demand and supply side conditions must be satisfied. By demand side, he points out that the existence of cross-border externalities affecting trade and investment creates the incentive for market players across various countries to demand ‘common rules, regulations and policies’ with the view of reducing transaction costs and thus maximising scale economies.

However, Mattli (1999) continues that this is not enough. Supply side conditions must also be met in the form of formation of commitment or supranational institutions to coordinate the integration process, and thereby deal with the potential free riding and collective action problems common among integrations. In addition, an undisputed leader must emerge to coordinate the integration process as well as serve as a paymaster for the potential losers from the integration. Hence, only when the demand and supply side conditions are fulfilled, Mattli (1999) asserts, will the regional integration process succeed.

Despite the contribution made by the current literature on understanding regional integration dynamics of success or failure, its conclusions remain questionable because of one main problematic assumption. The analysis and subsequent theory development draw extensively and exclusively on the analysis of the European Union which is a union involving mainly developed countries with political and economic characteristics vastly different from those of developing countries. Therefore, the conclusions emerging from this kind of analysis cannot cogently be applied to integration experiments involving mainly developing countries. Particularly, it is unwise to assume away the importance of differences in the contexts (initial conditions) between developed and developing countries and their influence in shaping regional integration outcomes differently.

This paper attempts to correct this theoretical mistake by examining the importance of initial conditions, particularly differences in levels of development of sectors among countries seeking closer ties in determining the level of success or failure of regional integration. Specifically, in reference to Mattli’s (1999) arguments, the paper engages directly with the question of under what conditions does the desire to reduce cross-border transaction costs actually result in harmonisation of cross-border trade rules, regulations and policies. How does the undisputable leader emerge? And what distinguishes the leader from the rest of the other partner states? Why do regional institutions that are created to coordinate the integration process exercise authority differently in different regional integration experiments?

The argument is that structural change in the fundamental sectors of the economy must have taken place in all, or at least a few, countries seeking closer ties to stimulate the kind of
conditions required to create incentives for countries to demand regional integration and succeed in achieving it. Structural change (SC) or structural transformation (ST), that is to say, the shift in resource allocation within the economy from low productive sectors like agriculture to high productive sectors such as industries and services (Rodrik, 2010), unleashes social, political and economic forces that eventually enhance countries capacity to demand and implement integration. For example, the organisational breadth and complexity that comes with an industrialising society tends to expand their production capabilities. This increases product space (Hausmann & Klinger, 2006), consequently, raising the scope and possibility of negotiations, and, thus, compromises the increased likelihood of specialisation in sectors in which each country exhibits comparative advantage. In addition, ST also increases the reach of the formal sector which is central to the institutionalisation of political power (Khan, 2010), a vital element in effective formulation and implementation of national as well as regional rules, regulations and policies.

Therefore, the argument touted by this paper does not reject Mattli’s (1999) argument, but rather builds on it. It goes further to incorporate and illuminate the central contribution of insights from structural transformation and political settlement literature to cement explanations provoked by Mattli’s (1999) demand and supply side approach. A Comparative Case Study Analysis of the East African Community (EAC) and the Southern African Development Community (SADC) in section four demonstrates the existence of inhibitive constraints to cross-border trade and investment as well as the existence of regional institutions which do not create strong incentives to demand and sustain regional integration as Mattli (1999) suggests. These constraints must be considered within the context of initial conditions of countries seeking closer ties.

If the integration is among countries with seemingly similar levels of underdevelopment, there will be low incentive for harmonising rules, regulations and policies because such countries are likely to benefit less from each other (Ravenhill, 1979). Moreover, the political challenges of economically backward societies always lead to deinstitutionalised use of power (Khan, 2010), which will undermine the exercise of authority by regional institutions. However, if some of the countries within the integrations arrangement have more developed economies, the incentive for deeper integration will be stronger, and this often runs symmetrically. That is, the undeveloped countries see ‘working’ with the developed countries as a quicker way out of their underdevelopment, and the developed countries similarly see the less developed countries as a source of inputs and market for their manufactured products. This confluence of interests creates a very strong incentive for regional integration to succeed.

Before we proceed, a couple of caveats are in order. Regional integration is a lengthy and broad process that consists of several stages including free trade, customs union, common market, monetary union and the political union (Balassa, 2013). This paper discusses regional integration in the context of creating Free Trade Areas (FTA) as well as a common market such as the Common Market for Eastern and Southern Africa (COMESA). Secondly, due to time and space constraints, the paper does not delve into the debates on what facilitates or impedes structural transformation in many developing countries. Those debates are well elaborated elsewhere pitting
state versus market arguments, the role of structural adjustment programmes in developing countries, trade and industrial policies in developing countries, and the role of institutions in development.

Finally, this paper defines regional integration as the creation of common rules, regulation and policies across different countries. The rest of the paper is structured as follows: Section Two undertakes a critical review of the theoretical arguments on why some regional integrations succeed and others fail. Under this section the paper develops an alternative conceptual framework that complements and solidifies Mattli’s (1999) demand and supply approach; Section Three discusses the methodology applied to examine the central question of this paper and highlights possible limitations; Section Four analyzes two case studies generating insights to illustrate and validate the analytical framework developed in Section Two; Section Five discusses the key findings in the context of Late Developing Countries’ (LDCs) underdevelopment characterised by stagnation, absence or slow progression of structural change, but nonetheless continue to optimistically see regional integration as a viable route out of their underdevelopment; Section Six concludes the findings.

**Literature Review**

**The Peace Argument**

The peace argument has been made in the context of the European integration. The claimants of this theory argue that “politicians haunted by the horrors of the Second World War” were driven by the desire to bring to an end the relentless spiral of conflicts among European states, and thought that a “novel structure of European governance” would be capable of solving the problem (Higashino, 2004; Mattli, 1990). Indeed, it is often argued that the creation of the European Coal and Steel Community under the auspice of the Shuman Act served this purpose directly (Mattli, 1990:4-5). While the peace argument holds, there are a number questions that challenge its theoretical underpinnings. For instance, why weren’t all European states involved in the initial formation of the European integration? Particularly, why did Britain, Denmark and Ireland join the European Community in 1973, and not earlier on like France and Germany did? (ibid).

More fundamentally, the peace argument fails to account for why earlier regional integration attempts in the 1800s in Europe failed to succeed. Wasn’t the fostering of peace as important as the adherents of this argument says it was in the aftermath of the Second World War? Due to this theoretical weakness, the peace argument fails to serve as a watertight explanation for the regional integration because of its clear, logical inconsistencies.

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50 See Lall, 1995; O'Brien, 1995; Mkandawire & Soludo, 1999.
51 See Soludo et al., 2004; Rodrik, 2004; Evans, 1995; Chang, 1994; Wade, 1990.
Neofunctionalism and inter-governmentalism

In the 1970s, two competing theories on regional integration emerged which were broadly stated as neofunctionalism and intergovernmentalism. The neofunctionalism school of thought, a successor and refinement of functionalism, begins with the central assumption that supranationality is the only way nations manage to maximize welfare (Rosamond, 2000; Hooghe & Marks, 2009). The theory then goes ahead to explain how the creation of supranational institutions is an inevitable outcome catalysed by cross-border economic transactions among nations (Pollack, 2001). The theory attributes regional integration to the role of economic actors across countries. It is argued that their interaction creates functional pressure for the integration of related economic sectors (Rosamond, 2000; Streeck & Schmitter, 1991; Mattli, 1990). In the long run, the theorists add that the desire of different cross-border social interests to maximize material interests [compels them] to shift loyalty from “the national form of authority to more meaningful authority at the supranational level” (Rosamond, 2000:52).

Despite the theoretical salience that the neofunctionalist argument received in the 1970s, its robustness has come under question because of its underlying assumptions. First, its central assumption that supranationality is the only method by which states secure maximum welfare fails to provide a theoretical account of the linkage between welfare maximisation and regional integration (Mattli, 1990). Second, while the theory nicely explains how cross-border economic actors create the impetus for regional integration, it fails to explain how the cross-border economic actors emerge in the first place. In addition, experience from various integration experiments indicates variations of success, stagnation and failure. Therefore, a theory that attributes integration to the contribution of economic actors should be able to coherently and consistently account for all these verisimilitudes. Neofunctionalism falters with regard to this intellectual requirement. Thus, while the neofunctionalist theoretical argument offers us an intuitive way to think about how different national actors can induce and drive the integration process, it fails to provide a logical, robust case for why some regional integration experiments succeed and others do not.

Intergovernmentalism emerged as a direct counterargument to neofunctionalism. It departs from the former by arguing that integration is achieved after reaching a series of bargains between the heads of governments of the leading states in a region (Hooghe & Marks, 2009; Mattli, 2009; Moravcsik, 1995; Wiener & Diez, 2004). The theory is predicated on the assumption that political leaders are often very protective of their national sovereignty, and will tend to sagaciously thwart any sacrifice of national sovereignty that may become necessary in order to attain common goals (Mattli, 1999). The theory proceeds to emphasise that, because big states tend to exercise defacto veto over fundamental changes in the rules of integration, bargaining tends to converge in favour of the large states’ interests, and small states’ losses are often compensated for with side-payments offered by the big states. (Moravcsid, 1995).

However, the intergovernmentalism argument also suffers criticism due to its analytical weaknesses. For instance, its perception of regional integration as a confluence of bargains achieved by heads of governments overlooks the importance of ongoing socio-political and economic processes, producing what Paul Pierson calls a “snapshot view of integration that is
distorted in crucial respects.” (Pierson, 1995:126; cited in Mattli, 1990:29). Defining events that precede the integration process are either overlooked or discounted, and those that proceed after bargains are treated as irrelevant. In doing so, the theory assumes that the implementation of interstate agreements is easy and automatic, which is not entirely true (Mattli, 1990).

But more critically, the theory fails to account for why some heads of government manage to sustainably and effectively reach bargains and implement them, while others fail. Indeed, the very nature of the integration process relies on and survives with continuity of negotiations among member states in reaching bargains that facilitate institutional improvement to ensure sustainability of the integration process. But why do some countries succeed and others often fail? In view of these logical weaknesses, the intergovernmentalism argument fails to make a convincing case of why some integration succeed and others fail.

**Demand and Supply Side Conditions Argument**

Mattli (1999) attempts to provide a more sophisticated argument regarding why integration succeeds or fail. His theoretical argument adopts the demand and supply approach to explain integration of states, thereby addressing the analytical weakness of intergovernmentalism that overlooks the importance of socio-political and economic processes whilst providing a context that adjudicates the centrality of supranationality that is emphasized by neofunctionalism. Building on the literature of institutional theory, Mattli’s (1999) argument takes treaty signing as a given, and instead dwells on explaining why integrating states often achieve varying degrees of success in implementation of the integration treaty(ies). He claims that the demand and supply side conditions must be satisfied.

Drawing on insights from the property rights theory, economic history and new institutional economics, Mattli (1999) argues that on the demand side “regional institutional building may be viewed as an attempt to internalise externalities [or reduce transaction costs] that cross borders” (Mattli, 1990:12-13). Externalities affecting trade and investment within a region arise from economic and political uncertainty as well as financial risks that market actors face when transacting business with foreign firms and governments. According to Mattli (1999), the cost of these externalities increases as new technologies raise the potential for gain from market exchange, hence increasing the payoff to regional rules, regulations and policies which ameliorate these costs.

However, demand is not enough. The theory emphasizes that supply side conditions must be met. These are conditions under which political leaders are willing to accommodate compromises for deeper integration. Leaders’ willingness, according to the theory, depends on the expected payoffs from integration. The main assumption here is that leaders value political autonomy and power, and that “their success in holding on to power depends on economic management” (Mattli, 1999:14-15). “Therefore, leaders’ managing successful economies have a lower incentive for regional integration because of the lower expected marginal benefit in the form of retaining political power from further integration” (Mattli, 1999:41-55). On the other hand,
economic difficulties are likely to force political leaders to accept demands for regional rules, policies and regulations from market players.

But, this is seldom a sufficient condition for a successful regional integration, Mattli (1999) continues, because regional integrations are replete with collective action problems, specifically, those related to commitment and coordination. This therefore necessitates the creation of commitment institutions at the regional level to monitor enforcement of the integration rules, policies and regulations. However, providing commitment institutions, no matter how efficient, will not produce a successful integration because coordination problems also give rise to distribution issues of equity and fairness. This, therefore, requires the emergence of what Mattli (1999) calls an undisputed leader among states seeking closer ties to serve not only as a focal point of coordinating rules, policies and regulations, but also as a paymaster in order to ease distributional tensions among member states.

However, a critical examination of this theoretical argument reveals compelling analytical weaknesses. First, the theory takes the nature of economies of states seeking closer ties as a given, and renders no effort in analysing the likely implication in the performance of regional commitment institutions that facilitate regional integration should the political and economic dynamics within one or more member states change. Second, the assumption that cross-border transaction costs will necessarily create the incentive for market players to demand regional rules, policies and regulations is not entirely convincing.

Granted, evidence indeed suggests that most regional integration projects are motivated by the need to reduce cross-border transaction costs (Viner & Oslington, 2014; Balassa, 2013), but why is it that only a few regional blocs prioritise and indeed commit and implement measures to reduce cross-border transaction costs? Perhaps, part of the explanation lies in the fact that the decision to reduce transaction costs through harmonisation of cross-border rules is informed by the expected benefits which are determined to a certain degree by the nature, density and penetration of cross-border business interests among member states. But, what accounts for the variation in the nature, density and penetration of business interests among member states?

**Towards a Robust Conceptual Framework**

The theoretical framework proposed below attempts to address the above concerns. It builds on Mattli’s (1999) argument and applies insights from structural transformation and political settlement literature to address the theoretical weaknesses within Mattli’s (1999) demand and supply side approach pointed out above. This approach is important for two main reasons: first, to account for variations that underpin different incentives among different integration experiments, and second, to explain why regional institutions among different regional integration projects exercise authority differently. Literature on political settlement is particularly vital with respect to the latter.
Theoretical Insights from Political Settlement Literature

The political settlement (PS) literature evolved to fundamentally challenge the standard New Institution Economics (NIE) theoretical view on distribution of power and institutionalisation of authority. The PS literature departs from NIE by drawing emphasis to the fact that given the difference in the political and economic contexts between developing and developed countries, institutional change cannot only be a function of enforcement of formal rules as the NIE posits (Khan, 2010; Di John & Putzel, 2009). Developing countries, the PS theory argues, “have small formal productive sectors and thus the incomes generated from these sectors do not and cannot define the broad distribution of power in societies” (Khan, 2010:5).

Therefore, a political settlement argument implies a social order based on “political compromises between powerful groups in society that set the context for institutional change and other policies” (Khan, 2010:5; 1995). Thus, a stable and progressive political settlement “is a combination of power and institutions that are mutually compatible and also sustainable in terms of economic and political viability” (Khan, 2010:5). According to Khan (2010), if powerful groups are getting a distribution of benefits that is too low given their relative power, or a new set of institutions threaten to shrink their relative power and thus distributional benefits, these groups will strive through different means, including conflict, to change or [thwart] institutions until they are satisfied or give up” (ibid)

Therefore, different political settlements in various developing countries explain why informal institutions structurally operate differently in different countries. In fact, informal institutions are a euphemistical way of describing enormous exercise of informally organised political power to generate distributions of benefits that could not be sustained by the operation of formal institutions alone (Khan, 2010; 1995). These informal dynamics of political power underpinned by the structural features of economies tend to have important implications on the functionality of regional institutions tasked with the responsibility of rules enforcement agreed upon by member states. This paper shall explore those implications in detail later, but first, let us consider insights from the structural transformation literature.

Theoretical Insights from Structural Transformation Literature

Structural transformation involves irreversible shifting of resources from low productive sectors of the economy such as agriculture to high productive sectors like industries (Cownie, 1974; Elliot, 1998). So why is structural transformation important for regional integration? Resource allocation from agriculture to industry results in emergence and growth of organisational complexity because the process involves higher levels of specialisation (Johnston, 1970). The backward and forward linkages characteristic of an industrial economy further accentuates organisational growth and development (Amsden & Hikino, 1994) which is central to expansion of the formal sector and subsequent depersonalisation and institutionalisation of power (Khan, 2010). This is particularly important in the formulation and enforcement of institutions at the national as well as regional level.
But, more importantly, as countries undergo structural transformation, industrialisation increases “product space or the network of relatedness between products” (Hidalgo et al., 2007:484). The resulting economies of aggregation, or clustering, that support large firms and plants (Brett, 2015), increase intra-regional linkages that create what, perhaps, Mattli (1999) calls the demand conditions for regional integration. This is likely to increase the penchant for regional integration because of the expanded scope of specialisation given each country’s comparative advantage.

**Tying the Threads Together**

Theoretical insights from the political settlement and structural transformation literature equips us with the analytical tools for improving Mattli’s (1990) market oriented demand and supply approach to integration. The theory proposed here argues that regional integration among countries with relatively similar levels of underdevelopment (or countries with minimum levels of structural transformation) is likely to fail because many of these countries are mostly producing primary commodities (and thus have narrow product space with potentially competing products). Therefore, the incentive for cross-border transactions among such countries is low because they are likely to benefit less from each other under an economic union (see Ravenhill, 1979).

In addition, low levels of industrialisation also imply a small size of the formal sector (Khan, 2010), and thus, low levels of organisational depth and complexity implying that distribution of power and its use follows largely informal mechanisms described above. This will tend to undermine the enforcement of a set of supranational rules, policies and regulations as they must adhere to the delicate balance between informal power and a set of institutions consistent with minimum levels of economic viability and political stability.

On the other hand, structural transformation resulting from industrialisation increases the product space (Hidalgo et al., 2007) which fosters cross-border economic transaction among nations through economies of aggregation, or clustering, that support large firms and plants (Brett, 2015). This also increases scope for specialisation consistent with each country’s comparative advantage. The combined effect of this process creates the demand conditions for integration by cross-border economic actors because of the expectedly large benefits from integration. In addition, industrialisation deepens the organisational density network (Evans et al., 1993) as well as contributes to the expansion of the formal sector, which in the long run depersonalises the exercise of political power and instead institutionalises it. This process allows, sustains and legitimises harmonisation and enforcement of common rules, policies and regulations among countries seeking closer ties as is nicely illustrated in the conceptual framework developed in Figure 1.
This paper applied this hybrid theoretical framework to the analysis of the variation between the performance of the *East African Community (EAC)* and the *Southern African Development Community (SADC)* in Section 4, but before it does that, it sheds some light on the choice of methodology selected for this study as well as considers its potential limitation in the section below.

**Methodology**

This study utilised a comparative case study analytical approach to examine and explain variations between two regional integration experiments, that is, the East African Community (EAC) and the Southern African Development Community (SADC). The method was considered useful and indeed appropriately suitable because of the following considerations. First, both integration project reconfiguration started about the same time (in the early 1990s), albeit they had had varying trajectories prior to that; second, they both generally constituted countries with almost similar levels of economic development, with the exception of South Africa under SADC, but had interestingly produced varying degrees of performance. Thus, accounting for these variations, the method was conceived as critically central to generating nuances and insights with respect to the debate of regional integration in general, but also for regional integration particularly in developing countries.

A comparative case study approach allowed for an analysis of the complexity of the phenomenon within its context drawing from a variety of sources (Stake, 2013; Hodkinson & Hodkinson, 2001). This facilitated construction of an in-depth understanding of what was to be...
studied, subsequently engendering diverse perspectives and hence allowing for conceptual and theoretical development (Yin 2011). In the context of this study, the method was deemed appropriate because it was intended to interrogate why some regional integration succeeded while others failed. Therefore, a theory of success or failure of regional integration demanded that the underlying explanations of what made it possible for some regionally negotiated cross-border trade agreements to be effectively implemented while others would fail was questioned.

However, a potential limitation which might somewhat call the analysis and the consequent conclusions reached into question was the fact that the study compared two regional integrations with fundamentally different member representation. The EAC for example is a membership regional organisation with a representation of only five member states\(^{53}\) while SADC comprises fifteen states.\(^{54}\) These differences in membership might have had some unforeseen influence on the functionality and performance of the two regional integrations that might not be captured through the case study consideration. Nonetheless, comparing two cases with potentially similar initial conditions, but have produced considerably varying performance, was analytically exciting, promising potentially deductive findings to the debate of regional integration.

**East African Community (EAC)**

**Analytical narratives: The rise, collapse and revival of EAC.** The EAC dates back to the early 1900s with the construction of the Uganda Railway that originally connected Kenya and Uganda (Deya, 2007). Tanzania later joined the Community after the First World War, when Germany lost all her colonies and the administration of Tanzania (then Tanganyika) was transferred to the British government. The construction of the railway extension to Northern Tanzania from Kenya symbolised the inclusion of Tanzania into the East African integration (ibid).

The institutions of the East African Community (EAC I) mainly included the East African High Commission (EAHC), and the Governors’ conference that was periodically convened by the governors of the three East African States to discuss matters of common interest. Indeed, Hazlewood (1979:42) observed that:

> ...[Before independence], there had been closer integration among the three member states symbolised by the creation of a custom union with a common external tariff and free trade between the countries, common customs and income tax administration, common transport and communication services (railways, harbours, posts, telecommunications, airways), common research services and a common currency.

In fact, even after the three states obtained independence from their British master, efforts were made by the post-colonial presidents—Obote of Uganda, Kenyatta of Kenya and Nyerere of Tanzania—to sustain the integration working arrangement (Gingyera-Pinycwa, 2007; Hazlewood,

\(^{53}\) Kenya, Tanzania, Burundi, Uganda and Rwanda.

\(^{54}\) Angola, Botswana, Congo DRC, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Seychelles, South Africa, Swaziland, Tanzania, Zambia, and Zimbabwe.
This was reflected through the creation of the East Africa Common Services Organisation (EACSO) which replaced the EAHC following the signing of the Treaty of East African Cooperation that ultimately led to the formation of the first East African Community (Deya, 2007). The latter was considered salient to redefine the East African integration away from its erstwhile colonial status.

However, soon problems common to integrations operating under different polities began to fester. It is worth noting from the outset that the East African integration that had been forged during the colonial era survived and achieved measurable success mainly because it was coordinated by a *single coercive administration*, and therefore, could not be expected to continue unchanged into the period of independence (Hazlewood, 1979).

Perhaps the striking reflection of challenges common to managing economic unions under different polities is the fact that by the time the Treaty of East African Cooperation was signed, the common currency had been abandoned following the “failure of partner states to find an acceptable system of East Africa-wide central banking and the operation of the customs union was being seriously inhibited by quantitative restriction” (Hazlewood, 1979:42).

A political coup against President Obote of Uganda in 1971 further exerted stress on the EAC I, as President Nyerere swore that he would never share “a discussion table with an illegitimate leader” (Gingyera-Pinyecw, 2007). In 1977, the EAC failed to pass the Community for the Financial Year 1977/78, after which Kenya opted out by establishing her own independent airline, and Tanzania closed her borders to Kenya marking the end of EAC I (Mugomba, 1978; Okello & Kirungi, 2011).

However, with support from the World Bank, attempts were made to save the Community through the appointment of the Swiss diplomat Umbricht who eventually led a commission that explored possibilities for saving the Community. The commission’s work climaxed into the signing of the Division of Assets and Liabilities Agreement in 1984 by Presidents—Obote, Moi and Nyerere. Article 14 of the agreement proposed that the three East African states explore future ways of reviving the East African economic cooperation (Deya, 2007).

That time would surely come in 1992 when the three heads of state met and signed the Agreement for the establishment of a Permanent Tripartite Commission for Cooperation (PTC) (Okello & Kirungi, 2011). In November 1994, the Protocol on the establishment of a Secretariat of the PTC was concluded by the three partner states, and in April 1997, a decision was taken by the three East African governments to upgrade the PTC agreement into a Treaty, and in November 1999, a Treaty for the Establishment of the East African Community II was signed in Arusha; the same Treaty also elevated the PTC Secretariat into the EAC Secretariat. Other regional institutions were also created by the same treaty such as the East African Legislative Assembly (EALA) and the East African Court of Justice (EACJ). The Treaty came into force in July 2000 after the necessary ratification procedures were completed (Deya, 2007).

The customs union was later signed in 2006, and in 2009, the Common Market Protocol was signed to harmonise policies, rules and regulations within the EAC II that enabled free movement of capital, labour, as well as goods and services by 2015 (EAC, 2010). However, almost
six years after the signing of the common market protocol, little has been implemented by member states to demonstrate creation of the common market. The most salience question that requires interrogation is why.

**Explaining cause of success and failure of EAC.** As earlier mentioned, EAC I succeeded to a large part because it was administered by a common coercive authority. This implies that under different polities the game of integration played out differently contingent on the considerations of benefits and costs for each country within the union. Accordingly, under EAC I, negotiations and bargains under the EACSO and subsequently, the Treaty of East African Cooperation faced resistance from Tanzania and Uganda, because it was firmly believed that, given the *initial conditions*, the union stood to benefit Kenya. Hazelwood (1979:42) observed that:

The customs union [established during the colonial days] worked to the benefit of Kenya as the most industrially developed country of the three and the headquarters of various common services were established in Kenya, the employment and income creating benefits of services were believed also to accrue mainly there.

Uganda and Tanzania had a poorly developed residual capitalist class that even when the independence settlement had established the EACSO to replace the EAHC and provided for redistribution of revenue in favour of Tanzania and Uganda, this proved an inadequate solution as restrictions began to be imposed on trade between the countries (Hazlewood, 1979).

Similarly, just like then, today Kenya’s economy maintains dominance (relative to other countries seeking closer ties) characterised by a strong private sector thanks to a more advanced human capital base, a diversified economy, and its leadership role in information technology within the region (Kimenyi, 2014). Some scholars have attributed the strength of Kenya’s economy mainly to the recent institutional reforms, resulting from the adoption of a new constitution that provides for *devolved governance* (Mati, 2013; Kimenyi, 2014).

In contrast, other partner states have followed vastly diverging political trajectories with serious ramifications to the transformation of their economies. In the case of Tanzania for example, despite the country’s relative political stability since independence, the radical ideological orientation to socialism under the Ujamaa policy pursued by President Nyerere sowed the seeds for undermining the growth and development of the Tanzanian private sector which has contributed to the country’s atrophied structural transformation (Eyakuze & Gitau, 2007; Kimenyi, 2014).

Uganda has had a major challenge with institutionalisation of power since independence in 1962. In 1971, Uganda’s first President was ousted by Idi Amin. What followed was a decimation of Uganda’s economy resulting from “eviction of Asians, nationalisation of private enterprises, and [irrational] expansion of the public sector” (Brett, 2009:208; Kimenyi, 2014). Amin was overthrown in 1978 by the Tanzanian invasion which helped to reinstate President Obote to power. In 1984, Obote was again overthrown by General Tito Okello who ruled for six months before he was ousted by the current President Yoweri Museveni in 1986. Museveni has
ruled the country for thirty years as a quasi-military dictator presiding over a regime of fractured political elites held together by a high level of political patronage and corruption (Green, 2008; Golooaba-Mutebi & Hickey, 2013).

Rwanda, another member of the EAC II, has been marred since independence by civil conflict mainly between two ethnically polarised groups—the Tutsis and Hutus. The country remains one of the five poorest countries in the world and has witnessed her growth and development severely blighted by civil conflict. Rwanda is a geographically small country which experienced a genocide in 1994 in which nearly half a million people perished. Although it has since made an impressive economic recovery, its political leadership remains dominated by a strongman with little or no existence of any kind of political opposition group (Kimenyi, 2014).

Thus, with exception of Kenya, it becomes clearer that the governments of countries seeking closer ties continue to confront serious legitimacy challenges that point to a large problem of institutionalisation of power. This, therefore, explains why regional institutions established to coordinate the integration process wield no real clout to prevail in the affairs of individual states (Ravenhill, 1979). Therefore, it is no small wonder that just like EAC I, the EAC II integration process owes its drive and verve to relations between the regional political leaders with little, or not much, support from the social and economic civil network within the region. This implies that the process is vulnerable to, and indeed held hostage by, the camaraderie between political leaders; suggesting that any change in the bonhomie among the leaders would ultimately bring the negotiations to a grinding halt, perhaps similar to what happened in 1971 when President Nyerere of Tanzania vowed never to share a discussion table with President Amin following a coup in 1971 against the government of President Obote.

Partly, as a result of these historic political challenges confronting the East African states, their economies have remained poorly developed characterised by an undeveloped agriculture sector specialised in production of primary commodities, which is partly reflective of their colonial heritage (see Mkandawire, 2010). Although the EAC countries are moderately open thanks to the liberalisation programmes implemented since 1990s, the countries have very low export capacities (Drummond et al., 2015). A recent study by IMF shows that Kenya, the regional leader in terms of exports, has an average of 14 percent export-to-GDP ratio, followed by Tanzania with 12 percent, and Uganda with 8 percent. Exports from Burundi and Rwanda have a much smaller representation of about 4 percent and 6 percent of GDP respectively (Drummond et al., 2015).

The study also shows that EAC countries trade mostly outside the region with the European Union as the largest export destination, and accounting for about one-third of total exports outside the region, followed by Africa with 18 percent excluding the EAC, and developing Asia with 15 percent. This suggests that the EAC countries probably compete for the same markets, thus reducing the incentive for regional integration through creation of a common external tariff. Official statistics also indicate that trade with the EAC region remains modest and imbalanced (see Figure 2). In particular, intraregional trade is dominated by large exports from Kenya to the other countries, and with few imports from other neighbouring countries to Kenya.
Although the implementation of the EAC customs union in 2005, and the common market in mid-2010 somewhat reduced tariffs and nontariff barriers and is lauded for significantly strengthening trade linkages among EAC countries, Table 1 shows that the time taken to export and import have remained considerably high across all countries (Drummond et al., 2015). This is mainly attributed to infrastructure constraints within the region, suggesting harmonisation of rules, regulations and policies, and while important, might not be the most significant impediment to cross-border trade within the region.

Table 1

<table>
<thead>
<tr>
<th>Country</th>
<th>Rank</th>
<th>Document to Export (no.)</th>
<th>Time to Export (days)</th>
<th>Cost to Export (US$/container)</th>
<th>Document to Import (no.)</th>
<th>Time to Import (days)</th>
<th>Cost to Import (US$/container)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tanzania</td>
<td>134</td>
<td>6</td>
<td>18</td>
<td>1040</td>
<td>10</td>
<td>31</td>
<td>1565</td>
</tr>
<tr>
<td>Kenya</td>
<td>121</td>
<td>8</td>
<td>26</td>
<td>2255</td>
<td>7</td>
<td>26</td>
<td>2350</td>
</tr>
<tr>
<td>Rwanda</td>
<td>52</td>
<td>8</td>
<td>29</td>
<td>3245</td>
<td>8</td>
<td>31</td>
<td>4990</td>
</tr>
<tr>
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<td>120</td>
<td>7</td>
<td>33</td>
<td>3050</td>
<td>9</td>
<td>33</td>
<td>3215</td>
</tr>
<tr>
<td>Burundi</td>
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<td>10</td>
<td>32</td>
<td>2965</td>
<td>11</td>
<td>46</td>
<td>5005</td>
</tr>
</tbody>
</table>

In fact, recent business reports have only ranked Rwanda in 52nd position out of 185 countries, while other member states, that is Uganda, Kenya, Tanzania and Burundi, remain poorly ranked in 120th, 121st, 134th and 159th, respectively. While several factors, such as resolving insolvency, trading across borders, and paying taxes, have contributed to the poor performance of the region relative to the rest of the world, the most critical bottlenecks remain: starting a business, getting credit, getting electricity and registering property (World Bank, 2013). These all relate to the frequently cited impediments to transformation in the structure of a country’s economies.

Therefore, this evidence further strengthens the argument that any pursuit of regional integration with the expectation of success must be preceded by structural transformation. In fact, the imbalance of intraregional trade in favour of Kenya attests to her superior manufacturing relative to other countries in the region, which is explained by Kenya having achieved relatively better levels of structural transformation of her economy. This fact is further strongly illuminated by the comparative case study of SADC below.

**Southern African Development Community (SADC)**

**Analytical Narratives: Origins and Progress of SADC.** The formation of SADC owes itself to the creation of frontline states during the anti-colonial struggle against white minority rule that had dominated many states of southern Africa (Amos, 2010). However, as more and more states won majority rule within the region, the strategy of the southern states had to change as well. Following a 1979 meeting held in Arusha, Tanzania with nine member states, on 1st April 1980, the Southern African Development Coordination Conference (SADCC) was founded in Lusaka, Zambia with the signing of a statement of Strategy for Southern Africa titled: *Towards Economic Liberation* with a clear objective of breaking the economic dependence of southern states from South Africa. Although SADCC managed to access considerable external aid, and embarked on a number of programmes and projects, it did not succeed in reversing the fundamental economic dependence of many of its members on South Africa (ibid).

However, when it became clearer in the early 1990s that South Africa was headed for an irreversible democratic rule, combined with changes in the global economy and regional challenges such as severe droughts, on 17th August 1992, the heads of state of SADCC agreed to turn SADCC into the SADC (Gibb, 1998). The SADC Treaty that the ten members signed on that day entered into force on 5 October 1993 after it had been ratified by these member states. The main focus was on deepening regional economic integration, which is increasingly being vindicated by the joining of other member states, like Madagascar in 2004, Mauritius, Seychelles, Democratic Republic of Congo and a few others, bringing the total membership to fifteen (Amos, 2010).

In accordance with the objective of deeper regional integration, SADC adopted a trade-oriented approach that was nicely reflected in the formulation of a fifteen-year Regional Indicative Strategic Development Plan (RISDP) with clear objectives of establishing the SADC Free Trade Area (FTA) by 2008 with the cardinal aims of: “liberating 85% of the regional trade in goods; completing negotiations for the establishment of the customs union by 2010; completing the
establishment of the SADC common market by 2015; establishing the SADC monetary union and the SADC central bank by 2016; launching the regional currency and establishing an economic union by 2018” (Peters, 2011). The heads of state that adopted the RISDP in 2003 agreed to a gradual approach towards creation of the FTA with the aim of eliminating 85% of tariffs of all intraregional traded goods by January 2008, and the tariffs for the remaining 15% of the sensitive goods were to be eliminated by all member states until 2012 (Peters, 2011; Amos, 2010).

**Taking note of some challenges to creation of SADC.** The implementation of the trade protocol faced challenges in its implementation since not all eleven member states that ratified the protocol complied with the requirements of phasing down their intraregional tariffs and the training of the custom officials (Amos, 2010). For example, an audit report on the implementation of the SADC protocol on trade in 2007 found that four members, that is Malawi, Mozambique, Zimbabwe and Tanzania, were not on schedule regarding implementation of their tariff reductions. In 2010, a related audit report revealed similar delays in implementation of tariff reductions. Malawi was reported to have maintained the same tariff levels as in 2004, while Zimbabwe “requested for a derogation for the scheduled reductions until 2012-2014 due to economic difficulties.” Partly as a result of these delays, the negotiations held at the SADC summit in Windhoek, Namibia decided to postpone the creation of the customs union (Peters, 2011).

**Explaining the Dynamics of Implementation of Trade Protocol.** Peters pointed out that the FTA was launched as envisaged in 2008, even though it had a few shortcomings. In fact, he argued, that as far as the legally binding protocol on trade is concerned, the twelve SADC member states that eventually acceded the protocol fulfilled their legal obligations, and the postponement of the customs union in 2010 was necessary to resolve critical issues (Peters, 2011).

An interesting question is why SADC realised considerable success in implementation of its trade protocol, yet EAC states have repeatedly failed? This paper demonstrates below that SADC’s success is largely attributed to the leading role played by South Africa which of course points to Mattli’s (1999) argument of an undisputed leader as necessary for regional integration. But, this paper goes further to show that South Africa’s leadership might be perceived as inevitable since it is economically more developed and a relatively stable democracy. More importantly, it should be seen as incentive-compatible with the business interests of South Africa as well as those of other member states.

**South Africa and her Contribution to the Progress of SADC.** As mentioned earlier, the desire to break the economic dependence on South Africa had been the central motive for the formulation of SADCC, a forerunner of SADC. South Africa had a well-developed diversified industrial capacity through adoption of import substitution industrialisation policies, mainly accelerated by the increasing alienation of SA by the global community during the apartheid era (Lewis 2001). The growing economic power of South Africa then was perceived by the neighbouring countries as a threat to their economic liberation (Amos 2010). Having overcome one critical hurdle (the dominance of the white minority), the frontline southern states regarded the formation of SADCC as central to attainment of their economic independence from South Africa. However, again as mentioned earlier, little was achieved by SADCC member countries
Despite receipt of considerable external aid support, and subsequent implementation of several projects and programmes. (ibid)

As South Africa (SA) overcame the asphyxiating chains of apartheid and moved steadily to the path of democracy, SADCC was transformed into SADC following the ascension of South Africa and soon it assumed the leadership of SADC. In view of these facts, an interesting question would be: why was little achieved under SADCC and considerably a lot under SADC with the ascension of South Africa? And why did the leadership of SADC suddenly fall to SA, (a newcomer)?

South Africa had gone through considerable levels of economic structural transformation characterised by development of diversified and robust economy with comparative advantage almost in every industrial sub-sector from mining and extraction to manufacturing. The country became an ‘economic gravitational pull’ for labour, goods and services within not only the southern African region but also from the rest of the world (ROW). Moreover, the democratic post-apartheid era did not only create a stable government and subsequently institutionalisation of power, but it also resulted into a striking expansion of South African export market as many neighbouring countries increasingly embraced a transforming SA. Specifically, SA’s internationally uncompetitive products found their way into the markets of SADC member states with poorly developed manufacturing sectors. In fact Ngepah (2014:495) observes that:

With its geostrategic position and economic size, contributing 71% of the SADC GDP and 22% of its population, almost all the countries in the sub-region (especially the landlocked ones) depend on South Africa for trade and transport (using its railways, airports, seaports, road networks and other transit facilities).

As a result of SA’s ‘economic gravitational pull force’, intra-regional trade grew significantly since 1980. Estimates suggests that the share of SADC exports to the region more than tripled to 9.9 percent from 1995 to 1995 and then rose gradually to 12.1 percent in 2008, even though large asymmetries in trade flows remain.55 (See Table 2)

Behar & Edwards (2011) utilises Knetter & Slaughter (2001) ‘quantity-based measure of market integration to estimate the degree of export market ‘thickness.’56 Results in Table 2 suggest that many SADC countries export a more diversified range of products to the SADC region than to the rest of the world, which is indicative of the regionalisation of the SADC trade. For example, Malawi exported 1008 distinct HS 6-digit products to the rest of SADC, but only 435 to the rest of the world. Mauritius, Namibia, Mozambique, South Africa, Zambia and Zimbabwe, similarly export a more diversified range of products to the rest of SADC. Thus, controlling for income levels, results indicate that intra-SADC trade was found to be relatively high and diversified.

---

55 SA mainly dominates SACU trade. For example, roughly around 60-70 percent of SADC exports to the region are sold to SACU (see Table 2), while 80-90 of SADC (excluding SACU countries) imports from the region are purchased from SACU (see Table 2). The region is therefore more dependent on South Africa as a source of imports than as a market for exports.

56 The intuition behind this technique is to measure the share of all possible products that a country actually exports; generally, the lower the trade barriers between countries the higher the range of products traded.
Table 2

<table>
<thead>
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<td>2.1</td>
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<td>76</td>
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<td>0.2</td>
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<td>17.4</td>
<td>24.6</td>
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<td>40.6</td>
<td>20.0</td>
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<td>30.5</td>
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<td>Madagascar</td>
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<td></td>
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</tr>
<tr>
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<td>3.1</td>
<td>9.9</td>
<td>10</td>
<td>6.1</td>
<td>68</td>
<td>68</td>
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Therefore, the successful negotiation and implementation of FTA by SADC countries was underpinned by these structural economic realities characterised mainly by high levels of intra-regional trade, crucially enabled by South Africa’s economic gravitational force. Therefore any form of discussion among states seeking closer economic ties reflected through the desire to harmonise of rules, policies and regulations in order to reduce cross border transaction costs, with the view to maximise scale economies is likely to succeed, if and only if, it is underpinned by some form of deep economic integration among states seeking closer ties. As we have seen that depends crucially on the level of structural development of economic sectors among various countries which determines the incentive of countries to sacrifice political autonomy and national sovereignty due to the expected economic benefits they would glean either in form increased investment spill overs from a more developed country, or increased market for exports for countries with more superior industrial capabilities. These results have important implications particularly for developing countries which have perceived regional integration as a counterweight mechanism for redressing the asymmetric economic relationships that have come to dominate globalisation of the developed and the developing worlds.
Table 3
Share of SADC Trade in SADC Country Imports

<table>
<thead>
<tr>
<th></th>
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<td>1.1</td>
<td>18.1</td>
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<td>Mauritius</td>
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<td>13.2</td>
<td>9.9</td>
<td>97</td>
<td>84.8</td>
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<td>Mozambique</td>
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<td>7.6</td>
<td>55.5</td>
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<td>39.5</td>
<td>38.0</td>
<td>97</td>
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<td>SACU</td>
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<td>72.1</td>
</tr>
<tr>
<td>Intra-SADC</td>
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Table 4
Export Thickness Measures for SADC Countries, 2008

<table>
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<th>Exporter</th>
<th>Total Products to:</th>
<th>Average to each SADC Country</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>World</td>
<td>SADC</td>
</tr>
<tr>
<td>Madagascar</td>
<td>1937 (37)</td>
<td>725 (14)</td>
</tr>
<tr>
<td>Malawi</td>
<td>1122 (21)</td>
<td>1008 (19)</td>
</tr>
<tr>
<td>Mauritius</td>
<td>2564 (49)</td>
<td>2057 (39)</td>
</tr>
<tr>
<td>Mozambique</td>
<td>1507 (29)</td>
<td>1137 (22)</td>
</tr>
<tr>
<td>Namibia</td>
<td>3448 (66)</td>
<td>3272 (63)</td>
</tr>
<tr>
<td>Seychelles</td>
<td>511 (10)</td>
<td>182 (3)</td>
</tr>
<tr>
<td>South Africa</td>
<td>4667 (89)</td>
<td>4477 (86)</td>
</tr>
<tr>
<td>Tanzania</td>
<td>2183 (42)</td>
<td>1404 (27)</td>
</tr>
<tr>
<td>Zambia</td>
<td>2216 (42)</td>
<td>2127 (41)</td>
</tr>
<tr>
<td>Zimbabwe</td>
<td>1768 (34)</td>
<td>1545 (30)</td>
</tr>
<tr>
<td>SADC Combined</td>
<td>4823 (92)</td>
<td>4704 (90)</td>
</tr>
</tbody>
</table>

Source: Behar & Edwards (2011)
Discussion

The analysis and findings in the preceding section provoke important considerations in the debate on regional integration and oblige us to revisit the theoretical motivations of regional integration among developing states. As we have seen, structural transformation or the nature of the economy(ies) among countries seeking closer ties has serious implications in determining the kinds of incentives and trade-offs countries confront in deciding whether or not to harmonise cross border rules, regulations and policies on trade and investment.

But we have also seen that the mere harmonisation of trade and investment rules does not in itself deliver regional integration. Rather, some form of ‘tacit economic integration’ among neighbouring economies must have happened prior to considerations for harmonisation of cross border trade and investment rules, regulations and policies to create the conditions and shape the incentives for different countries contingent on the likely benefits that each country would glean from operating under a common trading block. South Africa’s well developed and diversified economy, for example, has created the economic gravitational pull force for other members of SADC that benefited not only from greater intra-regional trade linkages but also benefited from using SA’s connecting infrastructure. On the other hand, while Kenya has a more developed and diversified economy relative to other members of EAC, it is still very much in transition and hence the weak business interests among the EAC countries.

Therefore, these findings call into question the recent arguments that support regional integration in developing economies as a means through which they could enhance their capacity to attract foreign direct investment (Te Velde & Bezemer 2006; Page 2000). The argument is often premised on the assumption that harmonisation of cross border trade and investment rules, polices and regulations would increase the prospect on maximising scale economies and thus incentivise foreign investors to invest in a particular regional economy. However, although there is indeed evidence to suggest that differences in trade and investment rules partly constitutes an impediment to cross border trade among African countries, there is also considerable evidence that equally points to other pervasive structural constraints that continue to impede not only attraction of foreign investment, but also domestic trade and investment. These constraints include: infrastructure constraints, regulatory burden and other micro-level institutional constraints such as those relating to port efficiency and policies affecting the cost of entry (Johnson et al. 2007; Wilson et al. 2005; Njinkeu et al. 2008; Limão & Venables 2001). In fact, some studies have shown that micro-level institutions are often greater obstacles to African trade than cross border tariff barriers (Portugal-Perez & Wilson 2009). These very constraints largely (but not entirely) account for delayed structural transformation or modernisation of different sectors of the economies of developing states.

The proposition for regional integration that focuses mainly on harmonisation of trade and investment rules, policies and regulations either seriously discounts, or overlooks the criticality of above mentioned impediments which continue to undermine the level of trade and investment in developing countries, as well as the level and magnitude of domestic and cross border transactions. Perhaps the existence of some form of cross border transactions among developing countries is
often considered as something that can be catalysed to foster further integration. But as the EAC and SADC cases have strongly illustrated, rules can further deeper integration but must also be preceded by some considerable level of economic integration among countries seeking closer ties characterised by deep business linkages across countries. Moreover, the fact that many of the developing countries in several regional integration experiments face serious challenges in reducing trade tariffs is reflective of the miniscule size and poorly developed capacity of several sectors of their economies to generate direct taxes. As a result, most of these countries rely heavily on trade taxes, significantly attenuating any likely accommodation of changes in the tax system that comes with regional integration.

Any meaningful regional integration among developing states with a higher probability of success must be informed by discussions that go beyond the traditional arguments for regional integration which are often absolved from consideration of context. For developing countries, the most immediate concern should be how to address the pervasive cost of doing business which largely explains delayed structural change in these countries. This therefore suggests that developing countries with intention to create closer ties should also consider recasting their policy prioritisation to deal with infrastructure constraints as well as burdensome regulatory environment. Recent initiatives such as joint negotiation and cooperation on regional infrastructure projects such as the Standard gauge railway by the EAC countries could be one way to start (the East African 2013). Such initiatives would in the long run reduce the cost of doing business, stimulate economic growth and transformation of various sectors of their economies and subsequently create conditions and strong incentives for regional integration.

**Conclusion**

Existing theoretical literature on the dynamics of regional integration experiments has drawn heavily from experiences of the European Union. This implies that conclusions cannot be convincingly applied to reflect experiences of regional integrations among developing countries with fundamentally different initial conditions. In fact, the emphasis on incentives that countries confront, and the existence of supranational institutions as the foundation that determines whether regional integrations will succeed or fail, although intuitively persuasive, it does little to account for circumstances or conditions that shape incentives differently for different countries as well as why established supranational institutions perform differently.

This paper has examined how different levels of structural transformation of key sectors of economies for countries seeking closer ties shape incentives differently for various countries and has demonstrated how also this determines the variation in the performance of regional institutions set up to coordinate the integration process. The paper has shown that the inhibitive transaction costs in form of differences in cross border investment and trade rules will not necessarily stimulate deeper integration if unaccompanied by commensurate levels of return. This, to a greater degree depends on the penetration of cross border business interests each country commands or is likely to command under the integration dispensation which depends on the levels of development of the sectors of the economies for countries seeking closer ties.
Regional integration is therefore not just symbolised by states agreeing to harmonise rules, policies and regulations but actually their ability in enforcing them which depends on the power and authority that regional institutions wield to impose their decisions on the member states. This as we have seen depends on the legitimacy of the respect governments of member states but also the incentive for member states have to sacrifice political autonomy and sovereignty. The processes that generate the structural underpinnings for these conditions are shaped by the level of development of different key sectors of the economy. These findings have important implications for the many developing countries that see regional integration as panacea for the uneven structure of global trade and investment. The enthusiasm towards regional grouping through harmonisation of rules if unaccompanied by policy measures to transform their respective local economies, is highly unlikely to generate any traction in challenging or even redressing the current structure of global trade and investment.

References


The Effect of Maternal Employment on Child Obesity

Bezawit T. Agiro, Western Michigan University

Abstract
Obesity has been a major concern for the United States and most other industrialized countries over the past few decades. More than one third of children and adolescents in the United States are obese or overweight. Child obesity is of particular interest because overweight children are more likely to be overweight as adults, and such adults are exposed to various diseases. During the same period that witnessed an increase in child obesity, an important change that occurred was the increase in maternal employment. This study is an attempt to analyze the relationship between maternal employment and child obesity. This study used data from the National Longitudinal Survey of Youth (NLSY)79, child/young adults, 1986-2010 cohorts obtained from the Bureau of Labor Statistics (BLS) website. The results of this study show that maternal employment is significantly and positively correlated with child obesity.

Keywords: child obesity, maternal employment, overweight children.

Obesity has been a major concern for the United States and most other industrialized countries over the past few decades. Research has proven that there are many health concerns associated with obesity for both children and adults (Araneo, 2008). Overweight children are more likely to have a high cholesterol level, high blood pressure, abnormal glucose tolerance, and all of which lead to a higher risk of cardiovascular disease at a later stage in life (Araneo, 2008). In addition, there are other health risks associated with obesity like asthma, hepatic steatosis, sleep apnea, and type-2 diabetes (CDC, 2007). What makes child obesity the center of attention is that overweight children are also more likely to be overweight as adults (Bouchard, 1997; Guo et al., 2002) and such adults are more vulnerable to diseases like coronary heart disease, diabetes, atherosclerosis, colorectal cancer, hypertension, gall bladder disease, breast cancer, endometrial cancer, colon cancer, and osteoarthritis (Power et al., 1997; Wolf and Colditz, 1998).

The proportion of overweight children between the ages of 6 and 11 in the United States rose from 7% in 1980 to 18% by 2012 (Ogden et al., 2014). In 2012, more than one third of children and adolescents in the United States were overweight or obese (Ogden et al., 2014). There are various explanations given to this increase in obesity over the past few decades. Cutler et al. (2003) and Philipson and Posner (2003) indicated that cheaper, fattening foods and sedentary lifestyles which are the result of technological advancement are the major contributing factors for obesity while Chou et al. (2004) pointed out that a decrease in smoking and an increase in fast food restaurants are the major factors for obesity. Another important change that occurred during the same period is the increase in female labor force participation. The labor force participation...
rate of mothers with children under the age of 18 increased from 47% in 1975 to 71% in 2006 (U.S. Department of Labor, Bureau of Labor Statistics, 2007). Since any potential explanation for the increase in childhood obesity must also involve changes in parental lifestyle (Patrick and Nicklas 2005; Golan and Crow 2004; Ebbling et al., 2002), it might be worthwhile to focus on the increase in maternal employment during this period which might possibly be related to the rise in childhood obesity during the same period.

Economic theory has put forward different channels through which maternal employment affects childhood bodyweight. The first one was the positive relationship between maternal employment and childhood obesity. The explanation to this is that mothers who work have less time to cook at home and are more inclined to buy meals from fast food restaurants or prepare more ready to eat meals that have higher fat density than meals cooked at home (Fertig et al., 2009). In addition, mothers who work may have less time available to supervise their children’s meals and activities which implies that children of working mothers are more likely to spend more time watching TV and eating junk food then engaging in outside activities (Fertig et al., 2009).

On the other hand, mothers who work earn more income and the findings (Gordon-Larsen et al., 2003; Zhang and Wang, 2004a, b) revealed a negative relationship between socio-economic status and obesity. The explanation to this is that mothers who work earn more income which enables them to provide better quality food for their children and to enroll their children in organized activities that can help reduce their weight (Fertig et al., 2009).

Child obesity poses a serious concern that needs to be addressed due to its negative health implications at a later stage in life. One possible explanation for the increase in child obesity overtime is maternal employment. Accordingly, the purpose of this paper is to analyze the relationship between maternal employment and child obesity along with the mechanisms through which maternal employment might influence child obesity. In addition, this investigation will identify some other factors that contribute to child obesity apart from maternal employment. In order to achieve this objective, data from the National Longitudinal Survey of Youth’s NLSY79 child/young adults 1986-2010 cohorts were used. Samples of children aged 2 to 15 in the year 2010 were utilized to carry out the analysis. Probit regression was used to predict the probability that a child will be overweight given that the mother works, or not, along with other explanatory variables.

**Contribution of the Study**

There has been much research on the effect of maternal employment on child obesity. These studies used data from different sources including NLSY which was also used in this paper. However, there has been a limited attempt in previous studies that used NLSY to make use of the detailed child and parent specific characteristics that might also contribute to child obesity. In line with this, data on the physical activities of the child was included, whether the child has been in constant child care during the first year, and whether the child was living with the father, as these are also factors that might contribute to child obesity as evidenced by previous research.
Literature Review - Factors Contributing to Childhood Obesity

Genetic and Environmental Factors

The Center for Disease Control and Prevention has suggested that obesity could be caused by genetic factors, environmental factors and some diseases or drugs. Of the environmental factors, quantity and the quality of the food consumed as well as physical activity have been identified as the major factors contributing to obesity (CDC, 2009). Overweight and obese children usually have a lower than usual consumption of breast milk combined with premature initiation into complementary nutrition, skipped breakfasts, increased consumption of simple sugars and neutral fat rich foods for snack, and higher consumption of energy-dense foods later in the day as well as insufficient consumption of fruits and vegetables. In addition, the secondary or exogenous causes of obesity were found to be factors associated with lifestyle including lack of opportunities to participate in moderate and intense physical activity in schools (Dietz, 1990).

Parental Lifestyle

According to Akil and Ahmed (2011), obesity, which is strongly associated with lifestyle behaviors, may be characterized by low levels of physical activity or high consumption of energy-dense foods, or both. They added that even though obesity is caused by many factors, in most cases, weight gain was the result of excess calorie consumption and inadequate physical activity. Therefore, in order to maintain healthy weight, there must be a balance between energy consumption and expenditure.

Patrick and Nicklas (2005) pointed out that change in parental lifestyle like busy and hurried family meal structure and eating habits are major factors contributing to child obesity. As evidenced by various studies, family and social environments have played an important role in the development of children’s eating patterns. Busy families usually rely on ready-to-eat food from fast food restaurants. Hurried families do not have enough time to sit down and eat meals together as a family. In addition, there has been an increase in the portion of meals taken, which may have also contributed to rising obesity trends. Other characteristics of the family, like income level, also contribute to child obesity with children from low income families having to eat fewer fresh fruit and vegetables and more of high calorie foods.

Socio-economic profile

Stamatakis et al. (2010) used data from the nationally representative household-based health survey for England from 1997 to 2007. The data include 15,271 white children (7880 boys) between the ages of 5 and 10 years. The results of their study showed that there are signs that the overweight and obesity trend stabilized between the years 2004 to 2007, but social disparities widened during the same period. Although the obesity trend has stabilized during this period, children from lower socio-economic strata have not benefited from this trend. That is, there is higher prevalence of the obesity rate among children from a lower socio-economic background.
lower income and manual occupation households) as compared to children from a higher socio-economic background (higher income and non-manual occupation).

In a similar study carried out in Japan by Watanabe et al. (2011), the presence of family members, mainly grandparents who cared for children in place of the mothers, influenced children’s obesity rate and lifestyles. The authors’ aim was to see the effects of maternal employment and the presence of grandparents on children’s obesity. They sampled 2114 children aged 3 to 6 years old. Their findings suggested that maternal employment was associated positively with irregular mealtimes, unfixed snacking times, bedtimes after 10 p.m., and nighttime sleep duration of less than 10 hours, which all translate to a higher BMI (Body Mass Index). However, the presence of three-generation families was associated negatively with irregular mealtimes which implied lower BMI of children. Therefore, the authors suggest that grandparents who care for pre-school children in place of mothers are more likely to contribute to childhood obesity than maternal employment.

Fetig et al. (2009) investigated the relationship between maternal employment and child obesity and found that results varied according to mothers’ level of education. For less educated mothers, more hours of working were positively associated with more time spent in school by children which in turn led to lower BMI. For more educated mothers, however, this relationship was not significant.

In addition to income and education level, there has been evidence documented by several studies that child obesity rates also vary by race and marital status. A study conducted by Araneo (2008) revealed that Hispanic children have a higher probability of becoming obese compared to white children, and Black children with least educated mothers have a higher probability of becoming overweight. In a similar research done by Huffman et al. (2010), Black children from single-parent households had significantly higher BMI compared to white children. This result was to be consistent with the findings of Caprio et al. (2008) that obesity is more prevalent in the non-white population of the United States (Caprio et al., 2008).

Akil and Ahmed (2011) claimed that there are significant disparities in the availability of food stores in neighborhoods that vary in ethnicity, which had an implication on the prevalence of obesity rates across the different ethnic groups. The availability of supermarkets has been associated with healthier diets, higher vegetable and fruit consumption, and lower rates of obesity. In addition, minority population groups have had less access to facilities for physical exercise, which is linked to lower physical activity and higher BMI. In line with this, African American and Hispanic neighborhoods have 50% to 70% fewer chain supermarkets than white and non-Hispanic neighborhoods. The authors claimed that this partly explains the higher obesity rates among African Americans compared to whites. Their findings suggested that an increase in obesity prevalence increase with unemployment rates, poverty levels and percentage of people receiving SNAP benefits. This shows that a higher obesity rate is common among people with lower income and less education, particularly among women and certain ethnic groups. However, they found income to not significantly correlate with the obesity rate.
Huffman et al. (2010) suggested that single parents often experience role strain while trying to balance their role as a wage earner along with other parental responsibilities. Moreover, poverty has been associated with single-parent households, especially female-headed households. Accordingly, the authors attempted to explore if there was significant difference in the prevalence of obesity between children from single-parent households and those from dual-parent households. Their findings indicated that children from single-parent households tend to be more overweight than those from dual-parent households. One of the reasons for this might be the fact that children from single-parent households tend to consume more calories and fat than those from dual-parent households. Their research also showed that children of female-headed households consume more total fat, saturated fat and sweetened beverages, and also spend more than two hours a day watching TV/video than children of dual family households. The proportion of overweight children from single-parent households was more than those from dual-parent households, i.e. 41% Vs 31%. However, household income was not significantly correlated with children’s weight status in both single-parent and dual-parent households.

**Relationship Between Maternal Employment and Child Obesity**

Recently, several studies that investigated the possible relationship between maternal employment and child obesity have been conducted. Fetig et al. (2009) used the data from Child Development Supplement of the Panel Study of Income Dynamics to analyze the channels through which maternal employment affects child obesity. The major assumption the authors made was that maternal employment affects the number and composition of meals taken by a working mother’s children as well as the nature of their activities, which in turn influence calorie intake and spending, and thereby affecting the child’s BMI. First, they used the OLS estimation method using a child's percentile BMI (pBMI) as a dependent variable explained by maternal employment (MWH).

\[
pBMI=\beta_0+\beta_1\ln(MWH)_i+\beta_2TV_i+\beta_3X_i+\mu
\]

where TV_i is the average number of time spent on watching TV and X_i is the control variable for the characteristic of child and family.

In addition, they also used two sets of the Probit regression model with the dependent variables representing whether the child is overweight or at risk of being overweight (BMI percentile above 85) or simply overweight (BMI percentile above 95). Their findings indicated that the only three channels which significantly affected a child's percentile BMI are the number of meals, the time spent reading/talking/listening to music, and the time spent watching TV. The authors found that first, more hours of working by mothers resulted in higher children's BMI through the mechanism of fewer meals. That is to say that mothers who work more hours have children who are more likely to skip meals which increases their BMI. Second, more hours working is associated with less time spent in reading/talking/listening to music by children which in turn in associated with higher BMI. Third, more hours working is positively related to more time spent in watching TV which in turn is positively associated with higher BMI.
Araneo (2008) used a similar approach to study the relationship between maternal employment and child obesity using the data from The Fragile Families and Child Wellbeing Study. This study used a probit regression model of the form:

\[
P(\text{Child Overweight}) = \alpha_0 + \alpha_1 \text{Part-Time} + \alpha_2 \text{Full-Time} + \alpha_3 X + \varepsilon
\]

where \( P(\text{Child Overweight}) \) is the probability that a child is overweight as a dependent variable. Part-time and full-time are binary variables that indicate whether the mother is employed part-time or full-time and \( \varepsilon \) is the error term. \( X \) includes control variables for child and mother characteristics like mother's race, child's sex, child's age, and so on. The findings indicated that full-time maternal employment results in a higher probability of a child being overweight, but this effect was significant only for highly educated mothers. For less educated mothers, no such significant effect was seen whether the mother was employed full-time or part-time.

Using matched mother-child data from the National Longitudinal Survey of Youth (NLSY), Anderson et al. (2004) found that for mothers with the highest socio-economic status, a 10-hour increase in average hours worked per week increases the likelihood that the child is overweight by 1.3 percentage points. In addition, children who belonged to highly educated mothers, white mothers or high-income families are more likely to be overweight if their mothers work more hours per week. For children from these sub-groups, a 10-hour increase in average hours worked per week lead to an increase in the likelihood that the child is overweight by 1 to 4 percentage points. The study also found that Black children are significantly more likely to be overweight than other groups. When the regressions were run separately for the three race groups, maternal employment significantly predicted higher weight for white children only. Furthermore, children who were breastfed were less likely to be overweight by about 2.3 percentage points (Anderson et al., 2004).

Anderson et al. (2003) used the American Time Use Surveys for 2003-2006 data set to analyze the mechanisms through which maternal employment affects childhood obesity. This research used a probit model where the dependent variable equalled one if the mother reported that she spent time in any of the activities like eating with children, grocery shopping, cooking, playing with children, child care and supervising children. In addition, the OLS estimation technique was also used in which the dependent variable was the log of the number of minutes spent in those activities and the regressor was an indicator variable that equalled one if the mother worked for pay. The findings of this research confirmed that maternal employment is associated with a lower probability of and a reduction in time spent on grocery shopping and cooking, and a higher probability of buying ready to eat foods which in turn leads to higher BMI of children. Moreover, working mothers were less likely to eat and play with their children. In addition, this study also found that employed mothers spend less time in child care and supervision of their children all of which contribute to higher BMI (Anderson et al., 2003).

Hawkins et al. (2008) investigated 13,113 children at the age of three who were born in the UK. They found that 23% of children were overweight and that children were more likely to be overweight for every 10 hours a mother worked per week. More specifically, the likelihood of
children being overweight increased with the number of hours the mother worked per week. However, this relationship was found to be significant only for those children from families with the highest level of income. Furthermore, the authors found no evidence for a relationship between the number of hours a partner works or maternal (as well as paternal) duration of employment and early childhood overweight. Their findings also indicated that the intensity of maternal employment was associated with childhood obesity only for families from the highest income groups. One possible explanation for this might be that these children may have had greater access to convenience foods and/or fewer opportunities for physical activity. The implication of this finding was that long hours of maternal employment rather than lack of money may hamper children’s access to healthy food and physical exercise. In addition, an interaction between hours worked by the mother and the type of day care showed that children in formal arrangements might be at a higher risk of being overweight if their mothers worked more hours. This study also revealed that children that were breastfed had a lower risk of being overweight.

**Data**

The major source of data for this study was the National Longitudinal Survey of Youth, NLSY79 using the child/young adults 1986-2010 cohort obtained from the Bureau of Labor Statistics (BLS) website. The NLSY79 is a nationally representative sample of 12,686 men and women who were born in the years 1957 to 1964 and were surveyed for the first time in the year 1979. The NLSY79 children and young adults is a survey of the children of the women from the NLSY1979 collected annually through 1994 and interviewed every two years. The reason for using this data set was because it is nationally representative which means that women and children from all ethnic backgrounds, education levels and social status are included. In addition, it provides detailed information regarding parent and child specific characteristics which are useful for analysis. For the purpose of this study, samples of children from the age of 2 to 15 in the year 2010 were used.

**Research Methodology**

The econometric model used to analyze the NLSY79 data was probit regression. The dependent variable in this case is whether the child is overweight or not. The explanatory variables are various socio-economic as well as parental and child specific characteristics affecting the probability of the child being overweight. The full model is described below:

\[
P(\text{Overweight}) = \beta_0 + \beta_1 \text{agechildyr} + \beta_2 \text{breasfed} + \beta_3 \text{childcare} + \beta_4 \text{fathlive} + \beta_5 \text{agemoth} + \beta_6 \text{grademoth} + \beta_7 \text{hhmemund} + \beta_8 \text{chimakebed} + \beta_9 \text{chiclearm} + \beta_{10} \text{chichores} + \beta_{11} \text{avhrweek} + \beta_{12} \text{chisex} + \beta_{13} \text{racechi_black} + \beta_{14} \text{racechi_hispanic} + \beta_{15} \text{logaveearn} + \mu
\]

Whereby,

- \(agemoth\) = age of mother
- \(grademoth\) = highest grade completed by mother
- \(hhmemund\) = number of household members who are underage
- \(chimakebed\) = No of times child is expected to make his/her own bed
$chichores$ = No of times child is expected to do household chores

$chiclearn$ = No of times child is expected to clean his/her own room

$avhrweek$ = average hours per week worked by mother

$racechi\ black$ = dummy for race if the child is Black

$racechi\_hispanic$ = dummy for race if the child is Hispanic

$logaveearn$ = log of average quarterly earnings (4 quarters before birth and 8 quarters after birth)

$agechildyr$ = age of child in year

$breasfed$ = whether the child is breast fed or not

$childcare$ = whether the child has been in childcare

$fathlive$ = whether the child lives with his/her father

$chisex$ = sex of the child

**Results**

Table 1 presents simple descriptive statistics. The average age of mothers in the sample is about 48 years old. The average highest educational level accomplished by the mothers in the sample is 14, indicating that on average, mothers have at least a high school diploma. In addition, on an average, mothers work 21 hours per week. The number of hours worked by the mothers was calculated by taking the average number of hours per week the mother worked for four quarters before the birth of the child and eight quarters after the birth of the child. The standard deviation for this variable is extremely high (16.91) indicating that there is a lot of variability in the average number of hours per week worked by the mothers in the sample. On an average, children in the sample are below 12 years of age.

Table 1:

<table>
<thead>
<tr>
<th>Variable</th>
<th>N</th>
<th>Mean</th>
<th>STD</th>
</tr>
</thead>
<tbody>
<tr>
<td>agemoth</td>
<td>1067</td>
<td>47.5</td>
<td>1.89</td>
</tr>
<tr>
<td>grademoth</td>
<td>1067</td>
<td>14</td>
<td>2.77</td>
</tr>
<tr>
<td>hhmemund</td>
<td>1064</td>
<td>2</td>
<td>1.08</td>
</tr>
<tr>
<td>chimakebed</td>
<td>612</td>
<td>3.9</td>
<td>1.52</td>
</tr>
<tr>
<td>chichores</td>
<td>614</td>
<td>3.9</td>
<td>1.36</td>
</tr>
<tr>
<td>chiclearm</td>
<td>611</td>
<td>4.4</td>
<td>1.13</td>
</tr>
<tr>
<td>avhrweek</td>
<td>1067</td>
<td>21</td>
<td>16.91</td>
</tr>
<tr>
<td>logaveearn</td>
<td>797</td>
<td>8</td>
<td>1.34</td>
</tr>
<tr>
<td>agechildyr</td>
<td>1067</td>
<td>11.5</td>
<td>2.74</td>
</tr>
</tbody>
</table>

Table 2 shows that about 18% of the children in our sample were overweight. There is an even distribution of male and female children in our sample as 49.95% of the children are males while the remaining 50.05% are females. About 66% of the children were breastfed. In addition,
44% of the children had been in regular child care during the first year. In terms of racial background, about 25% of the children are Black, 21% are Hispanic, and the remaining 54% are non-Black and non-Hispanic. About 70% of the children in the sample lived with their father.

Table 2  
*Frequency Distribution*

<table>
<thead>
<tr>
<th>Variable</th>
<th>Frequency (in percentage)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child sex (male)</td>
<td>49.95</td>
</tr>
<tr>
<td>Breastfed</td>
<td>66.51</td>
</tr>
<tr>
<td>Childcare</td>
<td>44.4</td>
</tr>
<tr>
<td>Overweight</td>
<td>17.81</td>
</tr>
<tr>
<td>Black children</td>
<td>24.84</td>
</tr>
<tr>
<td>Hispanic Children</td>
<td>21.27</td>
</tr>
<tr>
<td>Non-Black and Non-Hispanic</td>
<td>53.89</td>
</tr>
<tr>
<td>Father lives with the child</td>
<td>70.22</td>
</tr>
</tbody>
</table>

Table 3 shows that only five variables were significant in explaining the variation in the probability of a child being overweight. In particular, the age of the child was significant at a 1%

Table 3  
*Probit Estimates (Coefficients and Robust Standard Errors)*

<table>
<thead>
<tr>
<th>Variables</th>
<th>Coef.</th>
<th>Robust Std. Err.</th>
</tr>
</thead>
<tbody>
<tr>
<td>agechildyr</td>
<td>-0.181***</td>
<td>0.059</td>
</tr>
<tr>
<td>breastfed</td>
<td>-0.372**</td>
<td>0.161</td>
</tr>
<tr>
<td>childcare</td>
<td>-0.249</td>
<td>0.169</td>
</tr>
<tr>
<td>fathlive</td>
<td>-0.234</td>
<td>0.161</td>
</tr>
<tr>
<td>agemoth</td>
<td>-0.012</td>
<td>0.037</td>
</tr>
<tr>
<td>grademoth</td>
<td>-0.115***</td>
<td>0.032</td>
</tr>
<tr>
<td>hhmemund</td>
<td>0.04</td>
<td>0.08</td>
</tr>
<tr>
<td>chimakbed</td>
<td>0.009</td>
<td>0.062</td>
</tr>
<tr>
<td>chiclearm</td>
<td>-0.043</td>
<td>0.075</td>
</tr>
<tr>
<td>chichores</td>
<td>-0.005</td>
<td>0.059</td>
</tr>
<tr>
<td>chisex</td>
<td>0.215</td>
<td>0.151</td>
</tr>
<tr>
<td>avhrweek</td>
<td>0.018**</td>
<td>0.008</td>
</tr>
<tr>
<td>racechi_black</td>
<td>-0.119</td>
<td>0.203</td>
</tr>
<tr>
<td>racechi_his~c</td>
<td>-0.38*</td>
<td>0.22</td>
</tr>
<tr>
<td>logaveearn</td>
<td>-0.043</td>
<td>0.081</td>
</tr>
<tr>
<td>_cons</td>
<td>3.911</td>
<td>2.036</td>
</tr>
</tbody>
</table>

*Note: coefficients are statistically significant at the *10% significance level, **5% significance level, or ***1% significance level.*
significance level, whether the child was breastfed or not was significant at a 5\% significance level, the highest level of education attained by the mother was found to be significant at a 1\% significance level, the race of the child was significant at a 10\% significance level while the average number of hours per week worked by the mother was significant at a 5\% significance level. The coefficients reported above indicate the direction and strength of the association between the dependent variable and each explanatory variable. For instance, the age of the child was negatively correlated with the probability of the child being overweight while the average number of hours per week worked by the mother was positively correlated with the probability of the child being overweight. However, these coefficients do not represent the actual marginal effect of the explanatory variables on the dependent variable. Therefore, it was necessary to calculate the marginal effects to estimate the extent to which each of the independent variables listed above affect the probability of the child being overweight. Table 4 shows these marginal effects.

From Table 4, if the child is breastfed, the probability of him/her being overweight declines by 9.4 percentage points. For each year of mother's education, the probability of the child being overweight goes down by 2.7 percentage points. For each additional hour per week worked by the mother, the probability of the child being overweight increases by 0.4 percentage points. As the child grows older by one year, the probability of that child being overweight goes down by 4.2 percentage points.

Table 4

<table>
<thead>
<tr>
<th>Variables</th>
<th>dy/dx</th>
<th>Robust Std. Err.</th>
</tr>
</thead>
<tbody>
<tr>
<td>agechildyr</td>
<td>-0.042</td>
<td>0.014</td>
</tr>
<tr>
<td>breastfed</td>
<td>-0.094</td>
<td>0.043</td>
</tr>
<tr>
<td>childcare</td>
<td>-0.059</td>
<td>0.041</td>
</tr>
<tr>
<td>fathlive</td>
<td>-0.057</td>
<td>0.041</td>
</tr>
<tr>
<td>agemoth</td>
<td>-0.003</td>
<td>0.009</td>
</tr>
<tr>
<td>grademoth</td>
<td>-0.027</td>
<td>0.007</td>
</tr>
<tr>
<td>hhmemund</td>
<td>0.009</td>
<td>0.019</td>
</tr>
<tr>
<td>chimakbed</td>
<td>0.002</td>
<td>0.014</td>
</tr>
<tr>
<td>chiclearn</td>
<td>-0.01</td>
<td>0.017</td>
</tr>
<tr>
<td>chichores</td>
<td>-0.001</td>
<td>0.014</td>
</tr>
<tr>
<td>chisex</td>
<td>0.05</td>
<td>0.036</td>
</tr>
<tr>
<td>avhrweek</td>
<td>0.004</td>
<td>0.002</td>
</tr>
<tr>
<td>racechi_black</td>
<td>-0.027</td>
<td>0.044</td>
</tr>
<tr>
<td>racechi_his-c</td>
<td>-0.078</td>
<td>0.039</td>
</tr>
<tr>
<td>logaveeearn</td>
<td>-0.009</td>
<td>0.019</td>
</tr>
</tbody>
</table>
Discussion

The regression result confirms that maternal employment (as captured by the average number of hours per week worked by the mother) is associated with a high probability of the child being overweight. However, the mechanisms through which maternal employment affects child obesity are not statistically significant. Some of these mechanisms included in the model are: the number of times the child is expected to clean his/her own room; the number of times the child is expected to do household chores; and the number of times the child is expected to make his/her own bed. Maternal employment is assumed to affect child obesity through these channels. The rationale behind this assumption is that an employed mother has less time to supervise the activities of her children and thereby, the children decide what to do, what to eat and how to spend their time when they are at home or elsewhere, which in turn has a negative implication on their weight. Children not supervised by their mothers are more likely to eat unhealthy food and spend more time in activities that do not involve physical exercise like watching TV. However, for the sample from NLSY79 data used for this study, none of these channels turn out to be significant.

A rather surprising result is that of child care. The result of this study shows that children who have been in child care during first year are less likely to be overweight than those who were not in child care although this relationship is not statistically significant. Average quarterly income is negatively correlated with the probability of the child being overweight, which implies that children with parents of higher income are less likely to be overweight than those with lower income holding all other things constant. However, this relationship is not significant either. In addition, the race of the child turned out to be a significant factor in explaining child obesity for Hispanic children. The probability of a Hispanic child being overweight is less by 7.8 percentage points compared to a non-Hispanic and non-Black child. Although some studies like that of Huffman et al. (2010) showed that children from single-parent households tend to be more overweight than children from dual-parent households, my findings revealed that whether the father lives with the mother or not is not a significant factor explaining child obesity. Although several studies like that of Stamatakis et al. (2010) and Akil and Ahmed (2011) found that children from lower socio-economic strata (captured by household income level) tended to be more overweight than children from higher socio-economic strata, my findings show no significant relationship between income level and child obesity.

Conclusion

The increase in childhood obesity is more likely to be associated with change in parental lifestyle. One of these changes in parental lifestyle is the increase in a mother’s labor force participation during the past few decades. Therefore, it is more likely that the increase in maternal employment is associated with the increase in child obesity. Accordingly, this paper investigates the possible relationship between child obesity and maternal employment and if this relationship is indeed significant.

The results of this study confirm that maternal employment is significantly and positively correlated with child obesity. This is similar to the findings of Fetig et al. (2009) and Anderson et
The results of this research also suggest that the more educated the mother is, the less likely her child is to be overweight. In addition, breast feeding reduces the likelihood of the child to be overweight. Hispanic children are less likely to be overweight than their non-Black and non-Hispanic counterparts. Moreover, the older the child gets, the less likely it is for him/her to be overweight.

Although maternal employment was found to be significantly and positively related to child obesity, none of the channels through which maternal employment affects child obesity like the number of times the child is expected to clean his/her own room, the number of times the child is expected to do household chores, and the number of times the child is expected to make his/her own bed were found to be significant. Thus, further research is needed to find the significant mechanisms through which maternal employment influences child obesity. Therefore, this study can further be improved with a larger sample size and more complete information on children's activities like time spent watching TV, time spent playing outdoors, and the types of meals taken, as these were found to be significant factors influencing child obesity in previous studies. Moreover, with a larger sample size and more complete information on each of the variables, cross-group comparisons might have given a much better understanding of the topic. Grouping the sample by educational attainment of the mother and by age of the children might have rendered a better result as the activities of a two-year old child are quite different from that of a 12-year old. By the same token, the effect of maternal employment on child obesity might be different for more educated mothers as compared to the less educated ones.

The findings of this research show that for mothers who work more hours, their children are more likely to be overweight. Therefore, policy makers, companies and institutions should design policies that would encourage family-friendly work environments that allow working mothers to attain good work-life balance. In addition, breast feeding is also another significant factor that helps reduce child obesity. Accordingly, the government as well as companies and institutions should aim at implementing policies that allow working mothers to breast feed their babies. One way to achieve this can be through mandating extended maternity leave that allows mothers to breast feed their babies for a pro-longed period of time. Finally, the result of this study also shows that more educated mothers are less likely to have obese children. Therefore, more effort should be exerted by the government and school officials to educate mothers.
References


A Brief Note from Editorial Management Team

*International Journal of African Development (IJAD)* is an open access interdisciplinary journal on issues related to sustainable development in Africa that began in 2013. The first issues featured selected papers from previous international conferences on African development. We are soliciting manuscripts for future issues throughout the year. Contributing authors are advised to prepare their final manuscripts using APA format to be considered for review before they are accepted.

Please submit your contributions online to [http://scholarworks.wmich.edu/ijad/](http://scholarworks.wmich.edu/ijad/) where you will have to create an account, or send a copy to the Chief Editor Professor Sisay Asefa at sisay.asefa@wmich.edu