



Group-based Funeral Insurance in Ethiopia and Tanzania

STEFAN DERCON
University of Oxford, UK

JOACHIM DE WEERDT
Catholic University of Leuven, Belgium

TESSA BOLD
University of Oxford, UK

and

ALULA PANKHURST *
Addis Ababa University, Ethiopia

Summary. — A funeral is a costly occasion. This paper studies indigenous insurance institutions developed to cope with the high costs of funerals, based on evidence from rural areas in Tanzania and Ethiopia. These institutions were found to be highly prevalent in the study areas. They are based on well-defined rules and regulations, often offering premium-based insurance for funeral expenses. Increasingly, they are also offering other forms of insurance and credit to cope with hardship. The paper argues that the characteristics and inclusiveness of these institutions make them potentially well placed as models to broaden insurance provision and other developmental activities in these communities. The history of these institutions is characterized by a resistance to attempts of political capture, and helps to understand their apparent opposition to engage more broadly with NGOs and government agencies. As a result, any attempt to expand their activities will have to be done cautiously.

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1. INTRODUCTION

This paper focuses on a prevalent but largely unstudied institution in developing countries: indigenous associations for the provision of funeral insurance. In Ethiopia and Tanzania, they have in recent decades evolved into well-structured organizations, often offering insurance beyond funerals. This paper discusses their history, functioning, the extent of insurance offered, and the scope for building on these institutions to broaden insurance, based on a survey in rural Tanzania and Ethiopia. It assesses whether they could be “scaled up” via interventions by NGOs or the state, to offer

insurance against other risks. It provides some evidence of the extent to which developmental activities are successfully being provided via these institutions and derives some policy conclusions.

Many studies have documented the extent of risk experienced and the responses to risk in

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developing countries (for reviews, see Dercon, 2002; Morduch, 1995; Townsend, 1995). One key response is that the households try to reduce the consequences of risk in their income by a variety of risk coping mechanisms, including engaging in forms of risk sharing via informal arrangements. The economic literatures on risk-sharing arrangements, including key empirical papers (such as Grimard, 1997; Ligon, Thomas, & Worrall, 2002; Townsend, 1994) as well as theoretical papers (including Coate & Ravallion, 1993; Genicot & Ray, 2003), have in common that they effectively focus on “informal” risk-sharing arrangements. This has to be understood not only in the sense that they were taking place outside the market place but also that they were “informal” in that they were not based on well-defined “formal” associations, with formally defined, written sets of rules or regulations governing their operation. These institutions are sustained over time on the basis of implicit rules enforced by social norms; so that once joined no one is tempted to defect later when they realize that their own contribution is outweighing their personal and social benefits. However, much recent theoretical literature has shown that norms or other rule-based enforcement mechanisms are not necessary for these arrangements to be sustained (Coate & Ravallion, 1993; Genicot & Ray, 2003; Ligon *et al.*, 2002). In other words, incentive systems within the arrangements can be designed to make the contracts *ex-post* self-enforcing.

Empirical investigations on risk-sharing arrangements have largely focused on “informal” arrangements between households and individuals based on concepts such as the extended family, neighbors or village-wide networks, but not on well-defined networks or associations formed with a specific focus on insurance. There is some work that considers linkages between individuals and households who identify specific people as their insurance partners (Ayalew, 2003; Dercon & De Weerd, forthcoming; Fachamps & Lund, 2003). Even so, these contributions do not focus on groups or associations—but largely on bilateral arrangements with a risk-pooling purpose.

This paper goes beyond this analysis by discussing insurance *groups*, indigenous associations common in developing countries with a specific focus on insurance and with well-defined rules and obligations, in the form of membership rules, specific contributions and fines related to deviant behavior. In particular, it dis-

cusses funeral societies in Ethiopia and Tanzania, based on a unique data set on the functioning of these groups, with matching household level data on the members.

It has to be acknowledged that there is a large literature on groups and associations in developing countries and their economic impact. However, most of its focus is on their role as “social capital.”¹ The purpose or functioning of these groups is less relevant in this literature. Another literature focuses on development initiatives using community-based organizations. One strand is related to health insurance, since in recent decades many initiatives have developed around voluntary but community-based health insurance (CBHI) schemes (Atim, 1998; Jütting, 2003). Although some of the issues involved are comparable to those related to indigenous insurance groups, a key difference is that CBHI schemes typically develop with clear linkages to NGOs or specific health facilities.²

There is at present only a limited discussion of funeral associations in the literature. In the Ethiopian context, Dejene (1993, 1998) has discussed these organizations in some detail from an economic point of view. This study is different in that it is directly based on survey data on the functioning and membership of these institutions in a rural setting. There is a limited sociological and anthropological literature on these institutions as well (e.g., Pankhurst, 2003). In the Tanzanian context, there appears to be no analysis of these institutions. More generally, Rutherford (2001) has documented the existence of insurance mechanisms for funerals across the developing world. Still, no systematic economic analysis of these institutions can be found in the literature. Although the present analysis is largely economic, it is also informed by anthropological work, focusing on the historical context and evolution of the particular format of the institutions.

A number of stylized facts make the study of funeral insurance in developing countries even more important. First, funeral expenditure in much of the developing world is usually large. Cohen and Sebstad (2003) quote focus-group evidence from Uganda, Tanzania, and Kenya that the financial stress related to funerals deplete household resources. Coetzee and Cross (2002) quote a number of studies from South Africa suggesting that funerals are very expensive in terms of mortuary costs, costs of food and other items, since funerals last for at least

7 days. Households may also expect condolence visits for several months, adding substantially to the costs of catering for these visitors. Roth (1999) also suggests very substantial costs of funerals and related expenses from data from South Africa. In our own survey sites in Ethiopia and Tanzania, the households reported in focus group and other discussions that funeral costs were high, since funerals involved extensive catering for guests, staying for extended periods of time. Rutherford (2001) finds that funeral insurance is one of the most popular products offered by more formalized microfinance institutions. Second, it is also a highly insurable event in these settings. Moral hazard is unlikely to be relevant for insuring a funeral. Given a relatively high mortality, it is a common event in families, but still typically with relatively low covariance.

The next section presents the basic characteristics of these groups based on unique survey data on these groups in both countries, including the insurance cover provided and the functioning of the groups. One of the most remarkable findings of our study is the large number of different groups offering funeral insurance in each community and the clear rules and regulations governing their functioning. A brief history of these groups is discussed in Section 3. Section 4 briefly tackles the economic rationale of the observed functioning, suggesting that they may well provide a successful recipe combining the advantages of “informal” insurance relationships, championed in the informal risk-sharing literature, with workable solutions for stability and sustainability as an institution providing effective cover against a number of risks; most notably funeral risk. Section 5 provides a multivariate profile of the characteristics of members of these groups and the issue of who is a member of these groups. Although more work on this issue is definitely required, a key finding is that these groups appear remarkably inclusive and that, contrary to informal arrangements of mutual support, different socio-economic groups tend to be members of the same groups. In any case, in both contexts there are relatively substantial groups that appear to be well organized and structured, with clearly defined rules and regulations, and experienced in handling financial and organizational matters. This may make them suitable for other developmental activities, and possibly for scaling them up in terms of activities. Section 6 discusses the possibility of scaling up. Section 7 concludes.

2. CHARACTERISTICS OF THE FUNERAL ASSOCIATIONS

The study draws on data from two rural contexts. First, there are data from a number of communities in rural Ethiopia, studied as part of the Ethiopian Rural Household Survey. This survey has been collecting panel data on households and communities since 1989, focusing on 15 communities from across the country.³ In this study, the data used are from a sub-sample of these funeral societies in these villages for which key figures could be interviewed in the village. In total, detailed data have been collected on 78 funeral societies in seven villages⁴—about half the number of funeral societies present in these villages. In one village, the data were matched to the households in the household survey, allowing some more detailed analysis. The village in question consists of the communities in Sirbana Godeti, a relatively prosperous village in Oromiya Region in central Ethiopia, where about 30 funeral groups were identified, about half of which were studied. Additional data, from communities in Southern Ethiopia, complement this analysis, although for the time being these data are not fully analyzed.⁵ It should be stressed that some of the *detail* of the way the organizations function is different across rural and urban Ethiopia, but most of the fundamental characteristics are common across large parts of the country.

We also have data from a village in Kagera Region in Western Tanzania, called Nyakatoke, relatively close to the Ugandan border, near Lake Victoria. A detailed survey of all community organizations and informal networks, with an emphasis on insurance-based linkages, was conducted—the details are in De Weerd (2004, Chap. 10). A total of 20 groups with a prime insurance function were identified and were included in the analysis.

In Ethiopia, the funeral associations are known as the *iddir* (e'dir)—associations that ensure a payout in cash and in kind at the time of a funeral for a deceased member of the family of a member of the group.⁶ In the Tanzanian village, the associations studied are providing additional insurance beyond the basic “traditional” funeral society, the Bujuni. They include seven Women's Associations, themselves united in the Muungano (the Union of Women's Groups), four neighborhood and five religion based groups. As will be argued below, their main function is insurance, and

Table 1. *Common elements in funeral groups in Tanzania and Ethiopia*

Membership	Founding members plus by application; payment of a membership fee; some groups particular membership restrictions (women, religion)
Insurance schedule	If funeral, payment schedule conditional on relationship of deceased to member
Form of payout	In cash plus in kind (food plus use of capital goods) plus labor
Rules and regulations	Written rules, and book-keeping. Fines for non- or late payment or no show (in the case of labor contributions)
Governance structure	Elected Committee
Spread	Large number of groups per community, with individuals that are members of several groups

Source: Data collected by the authors.

funeral insurance is the key and unifying element. Table 1 summarizes a number of the common elements across contexts—they apply to *all* the groups studied in this paper.

Membership is clearly defined, with written lists, and by no means do these groups consist of a loose, rapidly changing association of people. Membership is confined to founding members and those applying to become members afterwards. In both contexts, there is a membership fee to be paid when joining after formation. A number of instances were found where groups have particular restrictions, such as by gender or age. Payments are made when members incur costs related to funerals (and, as will be discussed further, in some cases related to other instances as well), related to the death of a well-defined set of relatives. The actual payout is conditional on the relationship of the member to the deceased: for example, the payment for the spouse of a member is typically different from the payout for a child or for uncles and aunts. All payouts are to the member: in insurance parlance, they are the policy holders. They receive payments when one of their relatives dies. If they die themselves, the payout goes to those organizing his or her funeral.

Payouts occur in cash and in kind (food) as well as in the form of labor services. In both

contexts, there are written statutes, bylaws, and records of contributions and payouts. The rules define membership procedures, payout schedules, contributions and also a set of fines and other measures for non-payment of contributions, or for matters such as not showing up at funerals or not contributing enough in terms of labor on these occasions. Finally, one of the most remarkable findings of the work in these communities was the very large number of groups with a focus on funeral insurance in these communities. In Sirbana Godeti in Ethiopia, a community of about 400 households, about 30 groups were found. In some other villages in Ethiopia, a somewhat more modest number seems to be present but still five or more; but in a number of villages the number of iddirs was well above 50 and more—in Imdibir, one of the study villages, the study was able to identify about 80–100 groups, albeit not all just covering the village, but with substantial membership in the village, despite having only a population of about 350 households. In Tanzania, the village studied (Nyakatoke) had a population of 120 households only, but 20 groups were identified. It is obvious from this that people can and usually are members of more than one association for funeral insurance—see below more on this.

What is the insurance provided by these groups? All groups in Ethiopia give funeral insurance; all but one group identified in Tanzania provided funeral insurance (the exception being a small group of 18, with only two members from the specific village). Table 2 gives the benefits paid out by the funeral society when the member dies; as noted earlier, the group

Table 2. *Payouts in the case of a funeral of a member*

	Benefit	Standard deviation	Median
Tanzania (in TSh)	31,372	24,796	22,070
Ethiopia (in birr)	206	177	150

Source: Own data. Tanzania includes 26,601 TSh in-kind benefits. Ethiopia does not include in-kind benefits. Exchange rates at the time of the surveys: \$1 = 10 birr and 800 TSh. Payouts are defined when the member (policy holder) himself or herself dies. If a relative of the member dies, a lower payout will take place. In Tanzania, these benefits would be on average only TSh 16,655 if the Muungano is counted as a separate group. However, since being a member of a Women's group implies membership of the Muungano, the benefits of the Muungano are added to the benefits of each specific Women's group (contrary to the working paper version of this work).

also provides specific benefits related to the death of a relative of the member, but the table only reports the values related to the member's death itself. At the relevant exchange rates, the payout in Tanzania is about \$40, while in Ethiopia it is \$20 on average per group. To put this figure in perspective, in Ethiopia, this payout corresponds to about 40% of total monthly (in-kind and cash) household consumption in the survey area; in Tanzania, this is about 60% of total monthly consumption. A few comments are required to fully understand these numbers, since they are only partly comparable and need to be interpreted cautiously. First, the figure for Tanzania includes in-kind benefits (in terms of food) of approximately 85% of this figure. For Ethiopia, these figures do not include the in-kind benefits, although they are typically somewhat more limited: in about a quarter of cases, some in-kind benefits were reported in Ethiopia, but they are relatively modest in value (usually coffee and injera, the basic staple food made from teff).⁷ In Tanzania, all groups reported in-kind contributions, in all but one case much more substantial than the cash contributions. These calculations do not include some labor services provided in a minority of cases in both countries. In Tanzania, the seven Women's groups ask members to help at the funeral typically for one day, but this is not done by any of the other groups. In Ethiopia, the labor contribution is typically more substantial. About half the groups contribute labor (beyond the funeral); typically one to three days of labor per member, including farm and related work. This would correspond to a substantial cash value if casual wage labor rates of about 2–3 birr per day were applied. Furthermore, since (as will be discussed further) households are typically members of more than one group, the payout a household can expect when a member dies is likely to be substantially higher on average than these figures suggest.

But there are a number of other crucial differences between the settings, summarized in Table 3. In Tanzania, the groups that have been identified only expect the members to provide a cash contribution to the member experiencing a death when the funeral actually takes place. In Ethiopia, about 80% of the groups were charging a regular contribution, usually monthly, from the members.⁸ In the village studied in more detail, all but one funeral society operated on this principle. In more urbanized contexts, other studies found that this percentage is close to 100% (Pankhurst, 2003).

Table 3. *Differences between Ethiopia and Tanzania*

Ethiopia	Tanzania
Usually, regular contributions in cash (average about \$0.16)	Contribution only when the funeral takes place
Cumulative Asset Holding, largely in cash (mean = \$190)	Limited assets (durables)
Usually relatively substantial entrance fee (mean = \$4 per family)	Relatively limited entrance fee (mean for women's groups = \$1)
Mean group size is 84 (median = 55)	Mean group size is 24 (median = 18)
No interlinked groups—no restrictions on payouts	Women's group is conditional on membership of Bujuni
Groups with remarkably similar organizational structure, but contributions and cash-payouts different across groups	Product differentiation in terms of insurance offered in terms of cash, labor and goods
Overall focus is funeral insurance, but also credit and some additional coverage	Focus is on funeral and, for women's groups, hospitalization insurance

Source: Data collected by the authors.

A key consequence of this phenomenon is that some of these groups retain very substantial reserves. In fact, in the full sample (i.e., including those not charging a fixed regular contribution), asset holdings were on average about 1,900 birr (\$190); a substantial sum in a country with a yearly GDP per capita of only about \$100. Many iddirs were found to have much more in terms of accumulated savings; the highest sum reported was about \$3,000. Obviously, regular membership contributions and group sizes play a role here as well. Average contributions per month per member of the 63 Ethiopian groups charging a regular contribution (either weekly, fortnightly or monthly) were 1.64 birr per month (the median is 1, the range was 0.25–5 birr). Contributions are fixed per member, irrespective of age or family size. Groups in Ethiopia were also charging substantial entrance fees for anyone currently wanting to join: about 42 birr, or 25 times the monthly contribution. Interestingly, about 40% of the groups reported that they set these entrance fees as a fixed contribution. The remaining 60% reported using a formula based

on the current assets (reserve holdings and property) per member. Furthermore, groups in Ethiopia were larger, on average about 84 members, with a median of 55, compared to an average size of 24 (median 18) in Tanzania.⁹ Although a few very small iddirs were found in Ethiopia, in each of the seven villages the average size is larger than that in Tanzania.

There is also a striking difference in the structure of the Ethiopian funeral societies relative to the Tanzanian insurance groups. In Tanzania, they are clearly providing *supplementary* insurance over and above the village level burial society, the Bujuni (which is the Haya word for “mutual help”). The Women’s groups explicitly state this in their constitution: only women from Nyakatoke whose husband is a member of the village burial society. The insurance they offer is meant to cover expenses *not* covered by the burial society. The neighborhood and religion-based groups are similarly providing supplementary cover. The Women’s groups have further structure: there are seven groups, all united in Muungano, the Union of Women’s Groups. The Muungano offers a standard cover in terms of insurance, and then each group offers additional benefits, slightly different between groups. For example, Bertha’s group has 11 members and offers TSh 100, 30 fingers of bananas and three bowls of beans when there is a funeral, while Eles’ group has 17 members and offers 3 kg of meat, two hands of bananas and five bowls of beans.¹⁰ Neighborhood or religious groups similarly offer particular benefits, such as labor before the funeral, which can cater for specific needs for particular households. Clearly, there is an element of “choice” of product in these communities and people can express their preferences for different insurance packages.

The Ethiopian groups are, relatively speaking, more homogeneous in terms of products and typically do not have any “super-structure,” in terms of conditional membership. The households join one or more iddirs, with a large number present in many communities, each offering more or less similar products, largely differentiated in terms of the amount of cash offered in times of a funeral and, related to this, the regular contribution paid.

In both countries, funeral insurance is the key service offered by these associations, and the prime motive for most to join them. Still, some alternative products are being offered by these groups. In Tanzania, 13 out of the 20 organizations also offer hospitalization insur-

Table 4. *Types of additional insurance offered in Ethiopia (percentage of those groups offering additional cover)*

Destruction of house	40
Illness	30
Fire	28
Death of cattle	24
Harvest	14
Wedding	14

Source: Data collected by the authors.

ance: a fixed payout usually in terms of cash and sometimes some labor whenever the member or close family is admitted to hospital and a relative has to stay with the person. The average payout is about \$4 per instance, well below payouts in case of funeral (only about 15% of funeral payouts), but still significant.

The groups spoken to in Ethiopia also clearly emphasize funeral insurance, but a substantial number offer other benefits to their members. First, about 64% of groups offer loans to members, provided the funds are available, with clear (and strictly enforced) rules governing repayment. The members have to present a case for obtaining a short-term loan, and the most commonly accepted reasons are additional funeral spending, illness and destruction of a house—to put it differently, short-term credit is offered to provide additional cover, mainly for shocks. Second, 64% (but not necessarily the same groups as those offering loans) offer other forms of insurance, but the cover offered is clearly dependent on the group. Table 4 summarizes the types of insurance they offer and it is clear that each group that provides additional cover offers typically only a limited set of other benefits, such as fire and house destruction insurance. About 30% of the groups offering additional cover provide payouts in case of serious illness in one way or another. Note that in all cases, the groups include these benefits in the basic policy: no separate premium is charged.¹¹ Finally, one should not underestimate the social function of these groups in both contexts. Funerals and their preparation bring people together. The meetings related to the groups are an important means of social interaction, well beyond a simple insurance function.

3. HISTORY OF THE FUNERAL ASSOCIATIONS

Most economic research has tended to view informal arrangements as “traditional”

responses in the context of limited market penetration (Townsend, 1995). In many ways, the funeral associations are neither informal nor traditional. The emergence of these particular institutions is a relatively recent development. In Ethiopia, they are likely to have evolved from migrant support organizations, possibly as late as the beginning of the 20th century, and they started spreading rapidly after the Italian occupation (Pankhurst & Mariam, *forthcoming*). In Tanzania, our own fieldwork showed that they evolved as defiantly independent institutions after a period of attempted capture by the state during the Nyerere presidency in the 1980s. In both cases, their recent history suggests a consistent reformulation in response to changes in market penetration and in the political context. These institutions are best understood as organizational structures developed in interaction with the general socio-economic and political context, and that they evolved in response to changes in this environment.¹² They are not “informal”—the detailed rules and regulations, and indeed the links with local court systems would suggest otherwise. Finally, while no standard market processes are used to provide insurance, the contracts offered to members closely resemble those typically offered in insurance markets.

Their complex relationship with the state deserves some more attention. In Ethiopia, until the 1960s, iddirs had been relatively invisible institutions. This changed when, in the 1960s, municipal authorities in Addis Ababa and more generally the Ministry of National Community Development sought to promote collaboration between iddirs and the government. At the same time, some politicians used these associations as platforms for political purposes. In this period, different iddirs became involved in broader development activities. An attempted coup in 1966, partly blamed on an indigenous migrant association, meant that the state tried to establish more control over these associations, including iddirs. The revolution of 1974 brought the Derg to power, after which the leaders of the iddir were considered reactionary elites and most iddirs retreated to focus only on burial activities, and the formerly strong urban associations were marginalized. Still, the spread throughout rural Ethiopia clearly continued, while the size of some urban-based iddirs increased considerably.¹³ In recent years, the current government has increased its interest in working with associations such as the iddir, but at the same time insisting

on registration and considering them as vehicles for policy implementation. In the same period, certain NGOs, notably ACORD, have started to work with iddirs, although this remains largely a limited number of instances or activities. Some iddirs have themselves also started to try to expand their activities. For example, 21 iddirs in the west of Addis Ababa have formed an umbrella association, strictly politically neutral but focusing on developmental activities.

The experience in Nyakotoke in Tanzania provides another interesting example of how these institutions evolve in response to changing political contexts. Based on key informant in the research area, it was found that the village burial society, the Bujuni (meaning “mutual help” in Haya), is a relatively old indigenous institution. However, it only became more formalized after 1973, under the impulse of a migrant from another village, who had suggested making the rules and regulations more explicit. Some form of mutual cooperation existed similarly among women, but formalization came much later. In 1973, as part of the radical changes instigated by President Nyerere’s ruling party, women were forced to “unite” in formal groups as part of the UWT (the Swahili acronym for the Union of Tanzanian Women), organized in relatively large “village” level groups interpreted to include many communities beyond Nyakotoke, with pressure to set up village shops and other collective institutions via (forced) contributions. The village shop became bankrupt five years later and the UWT groups increasingly became just political institutions. However, after this experience, some 70 women decided to set up a group involved in economic activities to raise money for events such as funerals, births, and hospitalization, independently of the UWT and surviving its gradual disappearance. The group did not survive long and from 1984 factions broke away, and effectively these groups became the predecessors of the current groups, with a common element of providing insurance for funerals and hospitalization. In 1994, the different women’s groups (under the impulse of a recent migrant) formed the Muungano, the union of the women’s group, integrating the basic minimum funeral and hospitalization insurance. Since then, the different groups have experienced a relative degree of stability via the Muungano. Overall, the groups clearly conform to the idea of an indigenous association, even though they were initially inspired by the

formalized activities of the UWT. There is no evidence of any outside involvement in any of the current groups or their predecessors, and linked to the bad experiences in the UWT, they have stayed clear of any political capture even at the local level, steering away from the activities of the ruling party or the emerging opposition. The rules and regulations have clearly evolved over time, moving gradually further away from economic activities toward a clear focus on specific insurance.

4. THE ECONOMICS OF FUNERAL ASSOCIATIONS

Why do these associations take the form observed in both countries? This section discusses some of the key economic issues that these associations appear to resolve, as well as provide some suggestions on why these organizations function in the way observed. Much of this work is preliminary and indeed much more applied theoretical work is required to properly understand these groups. Bold (2003) and Bold and Dercon (2004) provide more details on these issues and present some theoretical models that may account for some of the characteristics of these groups.

First, a few relatively obvious points can be made. Insurance provision in any form is affected by asymmetric information issues, leading to the problems of moral hazard and adverse selection, as well as by enforcement problems, if contract enforcement is not possible by straightforward legal means. Covariate risk is also problematic. While formal insurance markets may not have developed in rural Ethiopia and Tanzania for exactly these reasons, informal arrangements within well-defined communities may face a better informational environment (i.e., monitoring is less costly) and they may be able to use local means for enforcing contracts (from indigenous customary law to socially enforceable norms).

However, it is striking that despite this context, insurance takes a much more formal structure (with written rules, obligations, and punishments), suggesting that purely “implicit” contracts are less desirable. Indeed, the actual insurance and contracts offered by the groups suggest that issues of information and enforceability may be relevant. The evidence is consistent with the risks insured chosen so as to avoid moral hazard, with funeral insurance being the most dominant form. While the loss of earnings

and wealth linked to other shocks, such as destruction of house, fire, illness, and death of cattle are high, insurance of these shocks is less prevalent (Table 4). Similarly, despite the high information environment, the payouts, for example, for hospitalization in Tanzania are defined in the form of a lump sum with the requirement for proof of hospitalization, and a clear deductible, in that costs incurred are only partially covered. In short, the contracts take forms closely resembling common “insurance” contracts. Similarly, the *iddir* constitutions clearly stipulate, first, that no collateral is required but instead a guarantor, who is a member of the group responsible for the repayment. Furthermore, they typically state that if necessary the local (village) courts will be used to sue the guarantor in case of non-repayment.¹⁴ In other words, the result does not appear to be a perfect risk-sharing environment, but contracts probably constrained by information and enforcement problems, reflected in extensive rules and regulations.

At the same time, it is striking that the move toward more formal contracts does not mean that risk pooling at a really large scale is being achieved, for example, across many villages and more in the form of “anonymous” market-like relationships. This does not appear to be the nature of the groups. In Tanzania, all but one of the groups considered are exclusive to residents of the particular village studied. In Ethiopia, the membership of most of the *iddirs* is similarly based on local communities. The relatively small size, the relatively localized nature of groups, and the type and form of cover offered suggest that enforcement and information problems are indeed substantial problems.

What are the advantages of forming groups rather than relying on voluntary “reciprocal” transfers? It is important to note that forming a group with written rules is not the same as ensuring that the arrangement will always be enforceable afterwards. To put it differently, standard economic theoretical explanations suggest that “informal” arrangements could be self-enforcing, through repeated interaction, provided participation constraints—the incentives for particular individuals to stay in the arrangement at each point in time—are properly taken into account. The resulting contracts are nevertheless typically only “second-best” risk-sharing contracts, meaning contracts that are not totally efficient, but the most efficient among the feasible contracts (Coate & Ravallion, 1993; Ligon *et al.*, 2002). Group-based

systems are definitely not immune from the problem that individuals may have incentives to leave the arrangements, which may affect the continuation of the schemes. Even though groups have been known to litigate against particular members in Ethiopia, this is done regarding repayment of loans, not related to issues of individuals wanting to leave the arrangement. In fact, in both countries, anyone is free to leave the group. As a consequence, the issue of sustainability is relevant for groups as well, and *a priori* there is no reason to suggest that it is less relevant.

However, a way to understand membership fees and the large number of cases in Ethiopia where regular contributions are collected beforehand is that they act as a commitment device to stay in the group and not leave for other groups. Upfront payments of the regular contributions are rather standard in insurance contracts. However, from the point of view of pure *insurance* or risk sharing, there is no *a priori* reason to charge members a fee, definitely not a fee related to the current assets of the group: the history of events and payouts is not relevant for the future distribution of payouts across the members, so no charge should be made for late entry. By charging entrance fees proportional to asset holdings there is no gain from only joining groups with relatively high reserve holdings (which are less likely to collapse), reducing incentives to change groups or to wait to join groups when they are proven to function well. Furthermore, by charging entrance fees to new members, the risk of failure of the group to pay out for the current members is not increased (so that the benefits for current members are not diluted). By losing any claim to the membership fee when leaving the group and the prospect to pay a new fee at another group, the incentives to leave are further substantially reduced as well.

These issues become even more relevant when addressing the issue of the stability of the entire group involved in risk-sharing activities, beyond just individual incentives to deviate. Genicot and Ray (2003) have suggested that pure “informal” groups of mutual support, that are stable to sub-groups breaking away and setting up their own informal arrangement, may well only be very small. The possibility of group savings appears to reduce these incentives to break away (since the assets cannot be retrieved when leaving the group), and possibly leading to larger stable groups (Bold, 2003). Entrance fees similarly re-

duce these incentives. As mentioned above, the groups are relatively larger in Ethiopia than in Tanzania. The fact that entrance fees and especially average asset holdings are substantially larger in Ethiopia may well be part of the explanation for larger sustainable groups. Also, when looking at the average age of the existing groups, in Tanzania it was only about 5 years while in Ethiopia the average was 15 years. But, in both cases, the incentives to break away remain, apparently limiting group size well below village size.

5. EXCLUSION, COVERAGE AND IMPACT

These insurance groups are remarkable not just by their functioning; their membership is also widespread. In this section, we discuss the determinants of membership, how much protection is offered and how important this insurance is for its members. In the sample of 15 Ethiopian villages (the ERHS), it was found that about 80% of the households were members of at least one iddir. However, when excluding two villages in the most Northern region of Tigray, where, apparently, these institutions are not yet present, membership is virtually comprehensive: they could be found in all the other villages included in the sample, and in almost all villages, more than 95% of households were members of at least one group.¹⁵ In one village, Sirbana Godeti, where groups were matched with household data, it was found that households were members of up to eight groups, and on average a member of between two and three groups. In Tanzania, with data only on one village, about 95% of the households were members of the village level Bujuni. Almost all households with a female adult took out additional insurance from one of the seven village women’s groups. Overall, the households are a member of about three groups.

The widespread membership across the population suggests that these groups are quite inclusive. Even though the percentage of people not included is relatively small, it is still relevant to explore who may not be included in these schemes. Using the Ethiopian data,¹⁶ it was investigated whether membership was affected by socio-economic characteristics. It was found that the probability of membership increased with the age of the head and with household size. This is consistent with people

typically only considering joining iddirs after they marry and start a family. There was no effect from the current living standards.¹⁷ Mariam (2003) suggested that in his sample of 1,200 households, mainly in rural Ethiopia, those not members were typically either newly arrived migrants, who had not yet been well established in the area, or those not yet married but already cultivating their own land as an independent family member. In Tanzania, the few not included in any scheme were not significantly different from others. In both contexts, funeral groups were originally based on ethnicity, religion and kinship, but the large number of different groups available means that virtually everyone could in principle be a member of some group, even though the membership is relatively stable over time. For Ethiopia, Mariam (2003) added that all iddirs in his sample area now state that anyone in the same locality, regardless of religion or socio-economic status, could apply to be members. In Tanzania, qualitative interviews with members and non-members confirmed that once one is willing to adhere to the rules of the group and give timely contributions when the rules so demand, there is likely to be no objection to anyone joining a group.

However, in both cases, there is evidence that the extent of coverage is higher for richer

households. In both contexts, the households can be members of different groups. As a result, people can choose to have more insurance coverage by joining more groups,¹⁸ or by joining groups offering higher insurance linked to higher contributions. This is investigated further in both data sets. In the data on Nyakatoke, an investigation on the coverage taken out by households suggested that the mean funeral coverage was equivalent to about 2.5 times total monthly household consumption (while health coverage offered was on average about 24% of monthly consumption).¹⁹ In Ethiopia, it was not possible to analyze coverage on the full data set. For the village for which more detailed data were available, average payouts as reported in Table 2 and membership of about three groups would suggest a coverage equivalent of 1.2 months of household consumption, not counting in-kind and labor contributions. There are also data on total payments over a four-month period in 1997 by households to iddirs for the full data set, which will give a good indication of the coverage they could receive. Table 5 reports the result of a simple regression analysis, linking the funeral coverage (Tanzania) or total contributions (Ethiopia) to a set of characteristics. For the Tanzanian data, ordinary least squares were used; for Ethiopia, where about a fifth of households did not spend

Table 5. *Determinants of funeral coverage/contributions per household*

	Tanzania		Ethiopia	
	Total funeral coverage per household (ordinary least squares)		Total contributions per household (tobit model with community fixed effects)	
	Coefficient	<i>p</i> -Value	Coefficient	<i>p</i> -Value
Household size	4601.6	0.026	1.452	0.000
Age of household head	272.1	0.471	-0.046	0.193
Primary school completed?	-1937.0	0.875	-2.794	0.113
Sex of head	-1265.9	0.933	2.811	0.027
Kinship * 1000	1065.2	0.087	-	-
Distance to center of the village	6.5	0.863	-	-
Richest 75% (dummy)	32741.2	0.040	2.568	0.092
Richest 50% (dummy)	-17264.6	0.275	2.308	0.109
Richest 25% (dummy)	7208.1	0.634	3.055	0.039
Constant	62.1291	0.058	-24.602	0.000
<i>R</i> -Squared	0.135 (adjusted)		0.0654 (pseudo)	

Note: Kinship is defined as the extent of blood relationship with other people in the village, expressed as group average of the share of "genetic material" that two people in the group share; richest 75% is a dummy one if a person belongs to the 75% highest levels of consumption per adult; richest 50% and 25% are similarly defined. Note that for the richest 75%, the three dummies will have the value one. The poorest group is excluded. Data size for Ethiopia data is 1,260; for Tanzania 120.

on iddirs, a tobit model was used. In Ethiopia, the regression controls for community fixed effects, so the focus is on within-village differences. The characteristics used were household size, age of the household head, whether the head had completed primary school, sex of the head, and a set of (cumulative) dummies for wealth (based on the overall consumption levels). The Tanzanian data also allow for controls for the location within the village and for kinship in the village.

The regression suggests that larger households take out more coverage, which suggests they respond to the incentives given in the scheme: larger households stand to benefit more in the system. There is no extra cost when insuring extra individuals within a household—so it is relatively more advantageous for larger households to join. The other key effect is that the poorer households have significantly less insurance. In the Tanzanian data, the richest 75% dummy is positive and significant, while no other wealth dummies are significant. The size of the wealth effect suggests that in Tanzania, the poorer have typically 25% less coverage than the average household. Similarly, in Ethiopia, contributions systematically increase in wealth, and there is a clear evidence of the richest 25% insuring themselves significantly more than the rest.²⁰

A further issue is the composition of the groups: who joins what type of group? Is there any evidence of matching or selection in the group composition? Assortative matching is typically considered as a benefit in terms of being able to save on information and enforcement costs—it is often suggested that similar people will find it easier to monitor and enforce contracts (Ghatak, 1999; Hoff, 1997). Nevertheless, an analysis of the group composition in the matched data of households and groups in both countries found only limited evidence of matching in terms of wealth. In Tanzania, where characteristics of all members and their households were available, the most complete analysis was possible. We checked the significance (at 5% or less) of any differences of mean characteristics of each group relative to the village average, for 18 groups for which we had complete information. Indicators included wealth, kinship, physical distance (how close people live to each other), household size, and age of the member. There is evidence of “matching” according to physical distance (with members of 12 out of 18 groups living closer to each other than the average in the vil-

lage).²¹ There is some evidence of matching according to kinship, household size and the age of the member—each significant for seven out of 18 groups (but not for the same groups). There is less evidence regarding matching by wealth using the different indicators. Four out of 18 groups have a significantly different mean livestock holding from the village mean. Similarly, four have significantly different mean land holdings but only two of these are also significantly different in terms of livestock holdings. One group has significantly lower consumption—and this one is indeed poorer on all other indicators (land and livestock) as well. In short, only for one group out of 18 there is clear evidence that they are poorer than the others—hardly systematic evidence of matching by wealth.

In De Weerd (2004, Chap. 10), this was found rather different when investigating pure “informal” linkages between households in the Tanzanian sample (where linkages were defined on the basis of household and individual level questions on “who would you turn to for help?” and “who would you give assistance?”). The evidence showed that wealth (as well as geographical distance) mattered significantly and strongly in determining these linkages. In other words, this suggests that these more formal organizations can afford to allow people from a more diverse background to become members, possibly since clear rules and regulations can compensate for some of the informational and enforcement advantages of social proximity.²²

These institutions perform a crucial function for these households. Funeral coverage is substantial, helping to contribute to some of the high expenses incurred. Another way of looking at it is to look at spending on funeral protection in relation to health (arguably a means of avoiding the risk of mortality). The Ethiopian Rural Household Survey data suggest that for the poorest wealth quartile, monthly payments to the iddir are equivalent to about 40% of total monthly health expenditures—and for the richest groups still about 30%. It suggests that there is a lower income elasticity for funeral spending than for health spending: funeral insurance is considered more of a necessary good than spending on health. When incomes fall, they will cut back relatively more on health than on funerals: when households become poorer, they are (relatively speaking) more willing to spend money on ensuring a decent burial rather than trying to cure them. The

fact that the poor spend relatively more on funeral expenses than health expenditures than the rich is also an indictment of the health service quality and access offered to the poor, at least in Ethiopia. An alternative explanation, offered during fieldwork in Tanzania, was that funeral coverage was more essential relative to health expenditure, since the shame attached to having to secure funds to pay for a funeral (e.g., by extra casual labor) would be too hard to bear (De Weerd, 2001).

Nevertheless, funeral risk is only one of the risks faced by these households. Much risk remains uninsured, resulting in substantial welfare fluctuations and losses—for example, see Dercon and Krishnan (2000) and Dercon and De Weerd (forthcoming). Dercon and De Weerd (forthcoming) found that health shocks were causing households to cut back on average almost 20% of non-food expenditure in the Tanzanian sample. In Ethiopia in 1994–95, more than 10% of the households drifted into poverty directly related to shocks. Exploring ways to strengthen funeral societies so that they can offer more benefits to their members and the community would be worthwhile. This will be discussed in the next section.

6. SCALING UP THE FUNERAL ASSOCIATIONS?

The study of these insurance groups is interesting in itself. Indeed, to us it appears that indigenous insurance groups, such as funeral societies, are understudied in the literature. But a further issue takes center stage in this section: what can be learned from these institutions for policy, and more specifically, can these groups be the basis of scaling up insurance and other developmental activities? It is often stressed that developing policies that strengthen indigenous risk-sharing arrangements should be an important part of general social protection policies (see Dercon, 2004, for a general discussion; see, e.g., Preker *et al.*, 2001, for a discussion focusing on health financing). Typically, these indigenous arrangements are usually seen as informal, reciprocal systems of mutual support and question marks exist about whether they could survive any attempt to formalize these arrangements (Conning & Kevane, 2004, Chap. 15). However, if existing arrangements are formalized and based on well-organized groups, then the potential exists for effective scaling up. In this section, the

issue of scaling up the funeral societies is assessed. First, some general arguments on why they may be useful partners for interventions are presented. Then, the types of interventions that could be supported are discussed.

The general argument to target funeral societies to scale up is relatively straightforward. First, these groups are independent and well organized. They have lists of members, written rules and regulations, well-defined contributions, regular meetings, and elected executive committees. They have group property, in the form of durables, and may indeed keep substantial assets from past contributions, membership fees, and fines. But they still combine some of the strengths of “informal” institutions, with members from relatively well-defined communities and networks, and nested in accepted customary legal systems. These factors contribute to a more conducive informational and enforcement environment than typically bedeviling market-based systems. They also appear to be generally inclusive organizations—with the poorer groups having access to them, and most likely more so than in more informal arrangements or in other types of institutions. They appear often to transcend gender, age, wealth, ethnicity, and religion. Finally, there is also some favorable evidence of their ability to handle change, not least since their history suggests a flexible evolution to improve their organization and functioning in the context of a changing political environment.

There are two directions in which these institutions could be strengthened. First, they could be assisted in extending their activities toward broad developmental purposes, building on their ability to organize and mobilize people, and more broadly, on their existing social capital. Alternatively, they could focus on what they are doing at present: insurance provision and related financial activities.

The advantages to engage the funeral societies into *broader developmental activities* are substantial: their organizational strengths, independence and inclusiveness make the funeral societies excellent grassroots organizations for channeling development activities and funds. Some NGOs, most notably ACORD in Ethiopia, but also a number of indigenous NGOs in Ethiopia, are trying to build on iddirs for broad community-related development activities with some success, for example in the area of health education, water and sanitation.²³

Using the iddir for broad development activities may not be without problems. There is first a legacy of past experience of interaction with “formal” institutions, not least with government institutions. In Nyakatoke in Tanzania, the emergence of the insurance groups is closely linked with splits from government-sponsored institutions that were hijacked for political purposes. In Ethiopia, there was the clamp-down and security related registrations in the 1960s, and subsequent attempts (in the 1970s) by local and national government authorities to use the iddirs for political ends as well as the marginalization of the indigenous groups during the Derg period in the 1980s. Indeed, it is likely that these organizations will be very suspicious toward broad government-sponsored interventions targeted at the funeral associations in both countries. Furthermore, any broader role of the iddirs in developmental activities is bound to require registration and some forms of regulation—which may well be interpreted as attempts to control and interfere with their existing activities. In short, the risk of capture by political and other groups may well be a real threat.

There is also an issue of inclusion. It is no doubt a strength that these institutions are relatively inclusive, both within and across communities. However, there will be substantial risks for their sustainability if involving these institutions into broader developmental work would require some further formalization, regulation and registrations. Making them suitable to handle further activities will be costly and would also require more educated staff, possibly resulting in exclusion of some of the “poorer” associations and groups from these activities.

Finally, there is the issue that broader developmental work would require additional skills and other changes in these institutions. In fact, it is striking that in both contexts, there is evidence that these associations were initially involved in other activities, but that now their focus seems largely on insurance, more specifically funeral insurance, a function they appear to have perfected. Broader activities would require changes in constitutions and bylaws, building consensus among members, and obtaining relevant expertise. This would be largely uncharted territory, and involve substantial risk for these institutions, despite their inherent flexibility.

What about the other route—scaling up in the direction of *insurance and finance* related

activities? Given that the expertise of the funeral associations is insurance and credit, it would be a strong argument to get involved in further insurance provision and broader microfinance activities. These institutions are currently expected to perform such activities—and evidence suggests that they have perfected handling issues such as funeral insurance. In Ethiopia, they also fulfill a credit provision function, even though largely focused on credit as insurance. There are at least three possible directions, as illustrated by the activities of one particular organization, the Shashemene Microfinance Institution, an NGO in Ethiopia whose activities include working directly with iddirs, and by the evidence related to health insurance initiatives.²⁴ The options, which are not mutually exclusive, are savings facilities, credit provision, and further insurance, including for health.

The fact that these associations are well-organized institutions with an insurance and even a credit objective creates possibilities for a number of microcredit and other microfinance products, for example, linked to some microfinance institution (MFI). Below are some of the possibilities. First, savings facilities could be the first facility to be offered by a MFI—taking advantage of the regular meetings, and the habit of giving contributions, as in the case of many of the Ethiopian funeral associations. The Shashemene Microfinance Institution used this practice.²⁵

Second, credit may be extended via these groups. Group-based lending is a favored intervention, not least given the example given by Grameen Bank in Bangladesh (Morduch, 1999). Besley (1993) emphasized the use of group lending, especially if these groups can exert some pressure to enforce repayment. Even without social pressure, joint liability can, under certain circumstances, provide the necessary incentives to sustain lending operations. Established funeral groups, with well-defined incentives to cooperate to sustain their funeral and other insurance activities, may need *less* social pressure to ensure repayment if the insurance operations are interlinked with credit provision and repayment. Furthermore, Conning and Kevane (2004, Chap. 15) noted that a key problem with introducing microfinance (or in general, scaling up financial market operations in areas where formal financial markets were largely missing) is the lack of intermediary capital—essentially, some agent who possesses local information and who would be willing

to commit his capital so as to have a vested interest in monitoring repayment. This would allow this agent to be chosen as the “delegated monitor,” and assist in crowding in capital into the local community.

The funeral groups could be in a unique position to exploit their structure and organization to serve these different purposes. For example, consider those funeral groups that collect regular contributions. These groups could be asked to (somewhat) increase their contributions and put all their reserves into a savings account with a MFI. Funds beyond their premium reserves (effectively, its loanable funds) could then provide collateral for any credit. In return, the MFI should match the funds, with the result that the total loanable funds become a multiple of the initially available loanable funds without MFI involvement. Contracts could then be designed to make the iddir an effective “delegated monitor.” Via its committee (which is controlled by its members), the iddir could itself decide who gets the loans—as it typically would do for its own credit operations. It would be fully in charge of screening, monitoring, and ensuring repayment. The iddir would be jointly responsible for repayment to the MFI, and the extra savings would be used as collateral, while standard joint liability conditions, such as cutting off further credit if repayment does not materialize, and punctual repayment giving access to more funds. In short, it is a form of group lending, but as a well-organized institution with financial experience, the iddir has more freedom and responsibility than the usual group-based schemes, increasing its efficiency and cutting transactions costs, and joint liability could be complemented with collateral via the iddir’s own reserves. Of course, credit operations carry substantial risk as well, and not all groups will have the organizational strength to cope with these pressures.

A third option is to help the funeral associations to give better and more insurance. There are a number of possibilities in this respect. First, one could arrange better (cheaper) coverage for funerals, by reducing their costs and sustainability via simple reinsurance schemes. Reinsurance of the mortality risk could have substantial benefits. Most groups using regular contributions to sustain their operations report having to contribute extra once in a while to ensure the survival of the group when there is a sequence of abnormally high claims. In at least one instance, a group in Ethiopia had

reportedly collapsed in the study villages. An increased size of each group would reduce the probability of this collapse, but the size of the groups remains restricted due to increased incentives for groups to deviate (Genicot & Ray, 2003) and due to the deterioration of mutual information as the group is extended to include more members. However, schemes of reinsurance could be implemented, in which groups pool their risk of running out of funds to honor payouts, for example, via a MFI. Pricing such contracts is not self-evident and requires substantial data, such as detailed mortality risk data. Furthermore, reinsurance contracts require means of verification (e.g., via death certificates) and some form of audited accounts, but these are issues that could be overcome. The benefit would be that more risk pooling would be achieved, without fundamentally undermining the internal dynamics within each group. At the same time, premiums could actually be reduced, or a higher share of the reserves could be used for credit provision within each group. A possible drawback could be that the required central management of reinsurance and possible technical assistance would involve additional running costs, undermining the potential savings on the premiums.

Second, the funeral societies could also be helped to increase the cover they offer to their members. Funeral insurance is a relatively easy product—with straightforward monitoring, and the issue of moral hazard is less relevant. Mortality risk also has a relatively limited covariance within communities, so that small group-based schemes may well be able to handle the risk involved. The other products offered in both countries typically focus on non-covariate risk, such as the destruction of a house or fire, limiting moral hazard, despite living in relative proximity of all the members. Covariate risks, whereby claims would be put in by many members at the same time, typically cannot be handled by these groups. When illness insurance is offered, as the hospitalization insurance offered by the women’s groups in Tanzania, its design still aims to ensure proper monitoring (not all illnesses but only hospitalization is insured) while moral hazard is limited by only offering lump-sum payments irrespective of the costs. In short, even in this relatively high information environment, the type of risk handled is restricted, focusing on non-covariate and relatively frequent risks. Other products may not be easily offered,

unless solutions for monitoring and sustainability are found.²⁶

There are substantial problems that would need careful attention related to the sustainability of these institutions when they are encouraged to increase the products they offer, most notably the problem of the relatively small risk pool and the additional administrative burden when activities are broadened. Regarding the relatively small risk pool, two issues will be briefly discussed. First, reducing information costs would reduce costs and make the institutions more sustainable. Better monitoring possibilities, for example via interlinked credit and insurance contracts, could allow insurance to be offered more cheaply. Second, the possibilities of reinsurance should be explored further, since by widening the risk pool, local institutional arrangements can become more sustainable. In fact, reinsurance could create possibilities to increase coverage into the direction of locally covariate risks (i.e., risks that affect a large number of people within one group, but only affecting a few groups). Examples are rainfall-indexed contracts, but also local peaks in morbidity, such as linked to seasonal effects (malaria) or even local epidemics. However, a standard but key impediment for reinsurance to be feasible is the need for an acceptable means of verification that the events indeed took place, to be able to market reinsurance contracts. Indeed, the dismal history of crop insurance policies in many developing countries would not suggest that this route would be desirable. There would nevertheless be possibilities for combining alternative schemes. One example is the recent suggestions regarding weather insurance policies, whereby payments of insurance policies are triggered by monitored local level rainfall levels, not by reported output levels (Skees, Varangis, Larson, & Siegel, 2004, Chap. 18). Similarly, recent suggestions related to health financing focus on systems of reinsurance of community-based financing schemes, triggered by average risks, not individual risks. Given the efficiency and equity gains than can be achieved, subsidies to these schemes could be justified (Dror & Preker, 2002).²⁷ These models could be used for other risks as well. The groups could be invited to take out these policies from an MFI or other financing institutions, but how they handle and distribute payouts among their members could be left to the local insurance group.

In sum, there appears a substantial scope for using funeral societies to offer alternative credit

and insurance products. The local experience with finance products could be a substantial advantage. Nevertheless, funeral insurance is a relatively easy product, and to keep the institution sustainable, other assistance with management, reinsurance, and financing may be required to assist with the transformation of the funeral societies. As far as could be established, there is no record in Tanzania of NGOs or the state working with funeral groups, while much careful evaluative work of the limited experience in Ethiopia is required to establish the appropriate models. Of course, one has to proceed cautiously. Just as with scaling-up for non-financial activities, the group dynamics may well be upset when additional administrative and managerial requirements emerge, undermining the groups' stability and continuity. This is in the end an empirical issue, and only cautious and careful experimentation could give more clarity.

7. CONCLUSIONS AND POLICY IMPLICATIONS

This paper has provided a discussion of local institutions largely unstudied in the development literature: indigenous voluntary associations with a focus on insurance, using examples from Tanzania and Ethiopia. These insurance groups not only focus largely on funeral insurance, but also provide in a substantial number of cases hospitalization, fire and house insurance, as well as financial services such as short term credit. These groups have written membership lists and rules, with well-defined coverage and payout schedules. A significant number of them charge regular contributions resulting in significant substantial asset holdings. They are institutions not directly operating in formal financial markets but also strongly independent from local political forces, and with elected committees. In each community studied, a large number of these institutions were found, often offering similar or only slightly differentiated products, and people are members of several different institutions to increase their coverage. These institutions are rather inclusive. Evidence suggests that only limited sorting according to socio-economic background occurs, and possibly much less so than in "informal" networks of mutual support.

They may well be suitable institutions for many development activities. There are an

increasing number of examples in Ethiopia of successful involvement in more broad development activities or more microfinance related activities, in collaboration with local NGOs. But the success of such activities should not simply be taken for granted. These institutions have developed in the way they did, partly in response to attempts by political forces to capture communities for their own purposes. A systematic attempt by government-led institutions to scale up these insurance groups may be met with deep suspicions and perceived to be a threat to their own continuation. Strictly voluntary schemes, based on extensive experimentation, are the only realistic way forward. However, in a context where ownership and community-based development are central catch-phrases in policy design and implementation, offering these insurance groups the possibilities to be included in these processes and providing them with ways to strengthen themselves their capacities would at least be a sensible strategy.

One may be skeptical about the suggestion in this paper that it is worth trying to explore further how to engage these existing institutions in further insurance provision. Indeed, one may be concerned that the continuity and stability of these groups would be undermined. One may rather suggest leaving these groups as they are, and encourage further insurance provision using other mechanisms, for example, using (regulated) private sector insurers, or other risk-management opportunities. However, even if this route is taken, the existing institutions are bound to be affected as well by new insurance related activities. Such parallel insurance provision would change the overall risk envi-

ronment and therefore members' incentives to continue to participate in these groups. There is evidence, for example from Ethiopia, that informal insurance mechanisms are crowded out by more "formal" interventions in the form of food aid (Dercon, 2004). Any alternative insurance activity involving some of the members may affect the incentives to continue with the current institutions with implications for the survival of these groups, and possible exclusion and deprivation of those members without access to the "new" mechanisms. In short, even if one chooses not to engage the groups directly, developing new insurance activities must take into account their existence.

One issue has not been discussed in detail in this paper. The current HIV/AIDS crisis may well put pressure on these institutions, risking their very survival or at least making membership more costly and beyond the reach of the poor. In Pankhurst and Mariam (forthcoming) and Dercon *et al.* (2004), a start is made in assessing its implications. Essentially, the HIV/AIDS crisis may require urgent interventions for funeral societies that are faced with unprecedented changes in the parameters of their activities due to increased mortality of younger cohorts. One option that should be investigated is to design a simple safety net, and iddirs could be offered the choice to opt in. It could offer subsidized reinsurance to those funeral associations with clear records of mortality in their group. Payouts from the scheme could come when mortality figures can be proven to be increasing over time. Furthermore, more systematic efforts should be made to make funeral societies agents for information on HIV/AIDS.

NOTES

1. Using Putnam, Leonardi, and Nanetti (1993), social capital can be defined as referring to features of social organization, such as trust, norms, and networks that can improve the efficiency of a society. In particular, the focus is on the external effects of community relations on the outcomes of interpersonal interactions: "strong" social capital tends then to be associated with economic success.
2. A more detailed discussion of CBHI schemes in relation to funeral associations is in Dercon, Bold, De Weerd, and Pankhurst (2004).
3. Details of the overall survey are in Dercon and Krishnan (2003).
4. "Village" is used to mean a Peasant Association. Rural Ethiopia is administratively divided into Peasant Associations, which are a collection of communities.
5. The data on Sirbana Godeti were collected in 2002, but the data on the other villages were only collected in October to December 2003, and are not yet matched to the household data.

6. “Iddir” is the generic name. In some areas, other local names are used—such as “kire” in parts of Wollo. They are all referred to as iddir in this paper.
7. This may be different in other areas of Ethiopia, not surveyed. [Mariam \(2003\)](#) reports on iddirs in Southwestern Ethiopia only providing in-kind benefits to their members in terms of food, materials, and labor in the case of a funeral.
8. Most of these groups would also ask for a fixed *additional* contribution at the time of a funeral.
9. [Mariam \(2004\)](#) reports even a mean group size of 175 in his sample of 52 iddirs.
10. Groups that have no name are identified by the name of the chairperson.
11. In a study by [Mariam \(2003\)](#) of 52 iddirs in mainly rural Ethiopia, similar results were found. He reported that besides funeral expenses, insurance and/or credit was also given for house fire (44%) and illness episodes (20%).
12. This does not contradict the earlier point that the institutions can be seen as responses to market failure. Effectively, they are institutions taking on functions that a perfectly working insurance market could perform. But the specific form these institutions take on is still conditioned by the local context.
13. There are examples of large professional or work-based iddirs in urban areas. Note that the spread in urban areas is sufficiently large to imply that the vast majority of urban dwellers will be members of one or more iddirs, across social classes. Indeed, even the World Bank’s country office has its own iddir.
14. These village courts are called “kebele courts” and are part of the formal legal system in Ethiopia.
15. Other surveys confirm the widespread membership. Open-ended questioning on which social organizations households are members of in a sample in South Wollo collected found about 80% of households to be members of at least one iddir ([Mogues, 2004](#)). [Mariam \(2003\)](#) reported in his survey of about 1,200 households in 40 largely rural communities in Ethiopia that 87% of households were members of an iddir.
16. This analysis uses the fourth round of the data (from 1997) which included specific questions on membership. Membership in that round of data was about 75%—below the estimate from other rounds—possibly due to slight underestimation related to less precise use of the local terms to describe the funeral societies, affecting data collection in two villages (one in Northern Shoa and one in Daramolo). The regressions used a probit model, using community level fixed effects.
17. In particular, the current consumption levels are not significant. Land holdings are also not significant, while there is a very small effect from livestock holdings, increasing the probability of being a member, but the marginal effect is very small and only significant at 11%.
18. An alternative explanation of joining multiple groups could be risk diversification. While we cannot discount this possibility, during our fieldwork, the main reason given why people joined different groups had more to do with wanting more coverage (a higher payout, in terms of particular goods and services) rather than spreading the risk that one group would not pay out. In other words, it seems more to do with the mean return than with the variance of the return.
19. Note the difference in this figure compared to [Table 2](#). In Tanzania, the households were typically members of about three groups. [Table 2](#) reported payouts per group, irrespective of the size of these groups. Most people are members of one or more large groups. This implies that the mean benefit per household is larger than simply three times the average benefit per group reported in [Table 2](#).
20. It is a standard practice to have multiple memberships of groups as a means of increasing coverage. Alternatively, it could be asked why they are not choosing to increase contributions in the existing groups to get more coverage. When discussing this with the groups, it was argued that the only feasible group structure is one in which everybody contributes the same, so that coverage is identical among members. Furthermore, it was often hard to find consensus among all members to increase contributions once a group is established so that for a member to obtain higher coverage, the most feasible route would be to also join another group, unless enough people can be found willing to set up a new group with higher coverage, and leave the original group. As discussed before, membership fees limit the incentives for this behavior.
21. To be precise, we calculated all the (pairwise) distances between the homestead of each member with all the other members, and averaged this across all members, and compared this with the pairwise distances between the homesteads of all the villagers, and again averaged this distance. The resulting two figures are then compared.

22. For Ethiopia (and compared to Tanzania), we do not have full household characteristics on all the members of each group—only data on some of the members, to the extent that they were included in our household survey and only properly matched for one village. The result is that the evidence required is not easily established. Still, on the basis of a similar analysis, we found no evidence of systematic “matching” by wealth, defined via land, livestock, and consumption.
23. More details are in Dercon *et al.* (2004). It should be noted that in Tanzania, in the survey area in Kagera Region and beyond, no evidence could be found of the engagement of local funeral groups in any other developmental activities, so the evidence presented has to be based on the Ethiopian experience.
24. The Shashemene Iddir Microfinance institution has been active for about three years and currently works with 64 iddirs covering 2,500 members in the town of Shashemene in Oromiya Region in Ethiopia. The initial loanable funds were given to them by ACORD.
25. In some countries, MFIs are not typically legally entitled to act as savings repositories.
26. Health insurance is one possible product. Some attempts are under way to encourage increased health insurance via the iddirs in Ethiopia. Mariam (2003) reports on a feasibility study for such a scheme. For a detailed discussion, see Dercon *et al.* (2004).
27. A detailed discussion of all the issues surrounding reinsurance is beyond the scope of this paper, but the reader is referred to Dror and Preker (2002).

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