Group meeting frequency and borrowers’ repayment performance in microfinance: Evidence from a quasi-natural experiment in South Africa

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Abstract
A quasi-natural experiment has been carried out in which the Centre Meeting (CM) rules of some centres of a large Microfinance Institution (MFI) that offers microfinance services, in the form of group lending, were changed. The study has been carried out at the Small Enterprise Foundation (SEF), an MFI that operates in South Africa. The frequency of group meetings, organised as part of the “Monthly Centre Meetings” pilot programme, was reduced from bimonthly to monthly, and only one member per credit-group was asked to participate instead of all the group members. The purpose of these changes was to allow borrowers to save time to spend on their own economic activities. This new policy was put into force for one year, from May 2014 to the end of April 2015. After selecting a suitable control group of micro-borrowers, using Propensity Score Matching techniques, we ran difference-in-difference (DID) regressions to evaluate the impact of the policy changes on the client’s repayment and saving behaviour. The obtained estimates suggest that the change in the policy rules had led to a deterioration of the customers’ saving balances and had increased delayed repayments. Text mining techniques, applied to survey data, pointed towards a lack of trust within the groups, the members of which did not meet frequently outside the CMs, and this was found to be one of the main causes of failure of the pilot experiment. We have concluded that group meetings are an effective tool to stimulate the accumulation of social capital for some categories of clients, and that those MFIs that wish to implement similar interventions should be aware of the drawbacks pertaining to borrowers’ behaviour.

Keywords
Microfinance; Group lending; Group meetings; Quasi-natural experiment; Repayment delay; Savings.

JEL Classification
G21, O15, L31, I25
1. Introduction

Microcredit is considered as one of the most important tools for the economic development of poor countries (Aagaard, 2011). In several contexts, this form of access to credit may prove effective in giving non-bankable people adequate financial autonomy and support to initiate new economic activities (Adler & Waldschmidt, 2013; Amin, Rai, & Topa, 2003; Banerjee, 2013; Dalla Pellegrina, 2011; Milana & Ashta, 2012).

In this paper, we study the specific characteristics and the operational methods of a microcredit programme launched by the leading institution that operates in South Africa, the Small Enterprise Foundation (SEF). SEF was founded in 1992 in Tzaneen, Limpopo, in order to combat poverty in a sustainable manner. To achieve this goal, SEF chose the microcredit tool to provide relief to the poorest people, who otherwise would be excluded from the traditional financial system. To date, the organization has operated in five of the nine provinces in South Africa (The Small Enterprise Foundation, 2016), i.e., Eastern Cape, Gauteng, Limpopo, Mpumalanga and North West.¹

SEF has adopted the methodology of group lending with joint liability: loans are disbursed to groups of five people, who jointly become liable for the payment of the instalments and the operations that take place during the Centre Meetings (CMs). These are the periodical meetings in which the SEF members who are part of the Microcredit Programme are required to participate, and they represent an opportunity of socialization and discussion for members of the various groups. The unjustified absence from these meetings involves a series of penalties, including the payment of a fine for the unjustified absent member and the reduction of the maximum amount of future loans.

Some studies have identified group meetings as one of the microcredit success factors and have used the frequency of meetings and attendance rates as proxies to measure the presence of social capital among customers, in the form of relational networks, social norms and reputation (Feigenberg, Field, & Pande, 2009, 2010, and 2013; Feigenberg, Field, Pande, Rigol, & Sarkar, 2014). Social capital is in fact widely recognized, in the microfinance literature, as a substitute for traditional forms of collateral that allows lending institutions to mitigate various forms of information asymmetries. Customers of microfinance institutions (MFIs) are normally selected and monitored on the basis of the presence of social capital

¹ In these provinces, the poverty headcounts, i.e., the percentages of poor households are, respectively, 12.7% in Eastern Cape, 4.6% in Gauteng, 11.5% in Limpopo, 7.8% in Mpumalanga and 8.8% in North West. The intensities of poverty are 43.3% in Eastern Cape, 44.1% in Gauteng, 42.3% in Limpopo, 42.7% in Mpumalanga and 42.5% in North West (Statistics South Africa, 2016b). These poverty measures are based on the South African Multidimensional Poverty Index (SAMPI), which is an index that is constructed using eleven indicators across four dimensions, namely health, education, living standards and economic activity. The ”poverty headcount” shows the proportion of households that are considered to be ”multidimensionally poor” in the defined area, while “intensity of poverty” is the average proportion of indicators in which multidimensionally poor households are deprived (Statistics South Africa, 2014, 2016a).
Frequent group meetings, conducted to encourage interactions among MFI clients, can contribute to fostering the accumulation of social capital by group members, which can eventually be associated with better performance in terms of repayment (Feenberg et al., 2009, 2010, 2013). However, group meetings often represent a burden for customers, in terms of both the actual costs (transport, penalties as a result of absences) and the opportunity costs (lost earnings due to the time spent participating in the meetings) (Dehem & Hudon, 2013). Several SEF customers have reported such problems, which have often resulted in a decreased participation in the CMs and, in some cases, in clients dropping out.

In order to address this problem, SEF launched a pilot project in May 2014. In this project, the rules of participation in the CMs were changed for some groups. In other words, the frequency of the meetings was reduced from fortnightly to once per month, and only one representative per group was required to participate in the meetings.

The objective of this research has been to investigate whether there have been any significant effects on the customers’ repayment performance and saving behaviour as a result of these important changes in the rules of participation in CMs. In particular, we have been interested in assessing whether the reduced frequency has led to capital losses and reduced discipline, thus ultimately deteriorating customers’ repayment and saving performance or whether, vice versa, the removal of the obligation of CMs attendance has enabled clients to use their time more productively, thereby improving loan repayment rates and increasing savings.

Data was collected before and after the intervention, both for the group of customers who underwent the change and for a control group of customers who continued to attend CMs on a fortnightly basis. Difference-in-differences (DID) techniques were then used with the purpose of identifying the causal effect of the CM frequency reduction on repayment performance and saving accumulation.

We found that the CM policy changes increased loan repayment delays and had a negative impact on borrowers’ savings. Consequently, a second goal of the paper has been to investigate what could have made this project unsuccessful. To this aim, we conducted a survey investigation, and this was supported by a text-mining analysis. The results point towards two main reasons for the observed failure: a) the absence of (within group) self-organization aimed at correctly implementing the new rules; b) a lack of trust among group-members, especially for groups whose members did not meet frequently outside the Centre Meetings.

The paper is structured as follows. An overview of the literature is presented in Section 2. The institutional context and the design of the project are discussed in Section 3. The obtained data are illustrated in Section 4, while the empirical analysis is performed in Section 5 and the results are presented.
The reasons for the failure of the project are investigated in Section 6. Finally, section 7 concludes the paper.

2. Literature

Microcredit, the provision of small collateral-free loans for income-generating activities by the poor, has gained importance in recent years as a development policy tool (Aagaard, 2011). Since the poor lack physical and financial collateral, microfinance institutions (MFIs) have set up forms of social guarantees. The latter are sometimes embedded in the loan structure, as in the case of group lending (Ahlin, 2015).

The group lending practice establishes a close link between the social capital of the clients of an MFI and the success of a microcredit programme. Bourdieu defined social capital as “the aggregate of the actual or potential resources which are linked to possession of a durable network of more or less institutionalized relationships of mutual acquaintance and recognition” (Bourdieu, 1986, p. 248). Putnam et al. referred to social capital as the “features of social organization, such as trust, norms and networks that can improve the efficiency of society by facilitating coordinated actions” (Putnam, Leonardi, & Nanetti, 1993, p. 167). The two definitions are not equivalent. The first definition highlights the importance of social capital for individuals, as part of their overall capital (economic, cultural and social), while the second underlines the importance of social capital for economic development, focusing on the properties of the social structure that facilitate (or hinder) a positive social action (Portes, 2000; Wacquant, 1998).

In general, the accumulation of social capital by individuals may contrast its accumulation by society, because individuals may exploit it for individual self-advancement rather than for collective benefit, and in ways that violate social norms or exploit the trust of others (Levien, 2015). In this sense, existing networks in a society can represent an obstacle to the development of trust and fair rules.

Social capital was also defined by Coleman as a both formal and informal “social organization”, which creates value “in aiding one to achieve goals […] through facilitating the provision of public goods; that is, goods which are not in the interest of any individual to produce alone, but which, if provided, are of benefit to many” (Coleman, 1988, p. 392). Coleman indicated, as examples of public goods, social norms and the sanctions that enforce them, and social relations between people based on solidarity, trust and trustworthiness.

The enhancement of social capital is usually a by-product of microcredit, and not the primary objective of MFIs (Anderson, Locker, & Nugent, 2002). However, even though Grameen Bank, for instance, was established primarily to provide credit to the poor, it was also aimed at creating social capital as a means to achieve the broader goal of alleviating poverty (Dowla, 2006). Furthermore, in some cases, the provision of microcredit is part of a larger development project that also extends to social capital creation through,
for example, education, health care and the promotion of the role of women in society (Mirpourian, Caragliu, Di Maio, Landoni, & Rusinà, 2016).

The group lending practice with joint liability was introduced by the most prominent MFIs, such as Grameen Bank in Bangladesh and BancoSol in Bolivia, at the beginning of their activities. The principle of joint liability has been examined in detail in literature, and it was considered for a long period as the main feature of microcredit. When clients voluntarily form a jointly liable group, self-selection of group members in the group formation stage helps the MFI to mitigate several problems due to information asymmetries between the lender and the borrowers, i.e., adverse selection, ex-ante moral hazards, monitoring and ex-post moral hazard. Using this methodology, MFIs exploit the clients’ social capital to select safe borrowers (adverse selection problem) and less risky projects (ex-ante moral hazard), to monitor their execution (peer monitoring), and to ensure that a borrower who is able to repay his/her loan will do so (ex-post moral hazard or strategical default problem). Enforcement of this kind normally takes place through peer pressure (Armendáriz de Aghion & Gollier, 2000; Armendáriz de Aghion & Morduch, 2004; Besley & Coate, 1995; Ghatak, 1999; Ghatak & Guinnane, 1999; Karlan, 2005; Stiglitz, 1990; Stiglitz & Weiss, 1981; Varian, 1990).

Therefore, group lending with joint liability has been considered as a methodology that enables MFIs to obtain higher efficiency in their lending activities, as well as higher repayment rates. Both of these phenomena eventually lead to lower interest rates (Armendáriz de Aghion & Gollier, 2000; Carpenter & Williams, 2010). However, this practice has been criticized because it may create excessive pressure, and discourage reliable clients from borrowing (Giné & Karlan, 2014). In addition, it has been observed that, in practice, good borrowers are usually not excluded from access to credit when another member of the group defaults (Matin, 1996). When questioned, as in Bangladesh and Uganda, borrowers expressed dissatisfaction with both paying for others and having others pay for them (Women’s World Banking, 2003). Furthermore, Giné and Karlan (2014), who conducted two randomized trials in the Philippines, found that removing joint liability from pre-existing groups and randomly assigning new groups to either joint or individual liability loans – while maintaining the weekly group meetings – has not a significant impact on loan repayments and default rates.

Recently, the Grameen Bank and other MFIs have shifted from group lending with joint liability to group lending with individual liability (de Quidt, Fetzer, & Ghatak, 2016; Dowla & Barua, 2006). The maintenance of the group lending methodology highlights the importance that MFIs ascribe to this practice. Attention, even in the literature, has moved from the use of the clients’ social capital by the MFIs to the enhancement of clients’ social capital. Griffin and Husted (2015), for instance, in their study on an MFI in Mexico, found that establishing harmonious social relations within a group, rather than imposing social sanctions, enhances borrowers’ repayment rates.
Group meetings are considered as a means of creating social capital in order to promote good conduct rules among microfinance borrowers. For example, in the case of the Grameen Bank, group meetings are used to promote the “Sixteen Decisions”, i.e., the rules designed to disseminate good social and economic behaviour, hygiene practices, and generally a sense of self-esteem and a commitment to self-promotion among clients (Yunus & Jolis, 2003).

Furthermore, participation in group meetings can help borrowers to establish networks for information sharing regarding business opportunities, and trust relationships beyond the family. Larance (2001) illustrated how these meetings enable customers to expand their networks and facilitate the starting up of small economic activities in social contexts in which women usually only interact with members of their own family. Borrowers benefit from group meetings in different ways. For instance, they can learn about the availability of school funds, the use of new savings accounts, share the best practices adopted by other group members, and even find solutions to personal problems. In a research done by the Women’s World Banking (2003) in Uganda and Bangladesh, borrowers who were asked to indicate which features of the meetings they preferred indicated the social aspects, such as the opportunity to share ideas and learn from each other.

Feigenberg et. al. (2014) focused on the relationship between the frequency of group meetings, as a measure of social interactions, and the new social capital accumulated by micro-borrowers. Studying Indian microcredit programmes, based on group lending with individual liability, they found that more frequent group meetings - weekly meetings vs. monthly meetings – were associated with improvements in informal risk-sharing, reductions in default rates and increased economic cooperation among clients (Feigenberg et al., 2009, 2010, 2013). Furthermore, it was observed that social capital gains continued to accumulate across multiple lending cycles, and were higher for clients who started with relatively low levels of empowerment (Feigenberg et al., 2014).

However, group meetings also involve transaction costs, for both clients and MFIs, which increase with the frequency of the meetings. The transaction costs for borrowers include real costs, such as transportation and fines given because of the absence of a member from a meeting, and opportunity costs, such as the loss of income due to the necessity of having to attend a meeting. MFI transaction costs include real costs, such as the cost of stationery and books, and opportunity costs, such as travelling and meeting time costs (Dehem & Hudon, 2013). In order to reduce these costs, the Association for Social Advancement introduced an innovation named “pay and leave”, i.e., clients can leave the meeting as soon as they have paid, without waiting until all transactions have been completed (Women’s World Banking, 2003).

Dehem and Hudon (2013), studying the transaction costs of Self-Help Groups in rural and urban Indian areas, estimated that, considering both the opportunity costs and fines, borrowers' charges are higher in urban areas, both in absolute terms and in relation to the borrowers’ outstanding loans. Instead, borrowers’ transaction costs in rural areas are double those in urban areas, compared to household expenditures.
However, they estimated that the total transaction costs are relatively small, compared to the average costs of lending in India, and minimal compared to the average interest rates normally paid by borrowers.

Reducing the frequency of the group meetings could allow MFIs to decrease both the operational and the transactions costs involved in collecting frequent payments. However, reducing the frequency of the required instalments and of the group meetings is usually associated with an increase in the default rates, as shown by some cases in Nepal, BRAC in Bangladesh and BancoSol in Bolivia (Armendáriz de Aghion & Morduch, 2005, p. 131). Furthermore, Feigenberg et al. (2013) found that the initial frequency of group meetings generates persistent results. When the group meetings are weekly (in the first loan cycle) rather than monthly, the clients accumulate higher social capital, in terms of interactions with other group members and willingness to pool risks with them. This social capital enables them to repay the subsequent loans more punctually, even when all the groups meet monthly in the second loan cycle.

In light of the contradictory evidence provided by the literature on the potential benefit of reducing centre meetings, the "Monthly Centre Meeting” pilot project was undertaken at SEF. The purpose of the project was to: a) reduce the frequency of the CMs in a selected number of (treated) microcredit centres; b) reduce the number of participants in the meetings in the treated centres. We implemented a quasi-natural experiment in order to study the effects of this pilot experience while paying particular attention to borrowers’ repayment delays and savings accumulation.

3. Project design

3.1 Institutional context

The pilot experiment was conducted by SEF between May 2014 and April 2015. SEF is a large, non-profit MFI operating in South Africa that was founded in January 1992 with the goal of fighting poverty in a sustainable manner. SEF in particular allows the poor to increase their income through microcredits and assists them in the accumulation of savings, by creating an environment where financial services can encourage business development.

On June 30, 2016, SEF had 138,827 active clients in 28,200 groups, with an average outstanding portfolio of around 294 million rand; 99% of the customers were women and 70% of the staff was female (The Small Enterprise Foundation, 2016). The headquarters of SEF are in Tzaneen, in the Limpopo province. The business is divided into four regions: Limpopo, Eastern Cape, Expansion (which includes North West and Gauteng) and Mpumalanga.

SEF’s primary programme is the Tšhomisano Credit Programme (TCP), which explicitly targets women who have an income below half the income corresponding to the poverty line.
Loans are disbursed through the group lending methodology (The Small Enterprise Foundation, 2016). The groups are made up of five women, who are jointly liable for the payment of the instalments. A potential client forms a group with four other women. Then, each of the five members has to apply for a loan for her individual business. All group members have to apply simultaneously. The five group members are required to guarantee one another’s payments. No collateral is required. The duration of the loans is for 4, 6 or 10 months, and repayments are made monthly. However, first and second time borrowers can only access 4 and 6 month loans, and are required to repay fortnightly. These latter clients are in fact still considered vulnerable, and with this loan term policy SEF tries to limit the risks related to financial liability for which the clients are not yet sufficiently prepared. This also helps the borrowers to enter into a perspective of constant and continuous repayment on time.

The loan amount ranges from 1,000 rand to 2,200 rand for the first loan and from 1,000 rand to 22,000 rand for the next (The Small Enterprise Foundation, 2015, 2016). Groups cannot apply for a new loan without having finished repaying the previous ones. Repayments start one month after the disbursement. The repayment of individual members’ quotes are accepted; however, individual members cannot access further lending until the full amount of the group loans has been repaid.

Loan transactions take place fortnightly at the CM, where all the groups belonging to the same centre meet. CMs are in fact held in order to: a) collect payments and issue payment receipts; b) track savings deposits, withdrawals and balances; c) approve new requests for loans; d) discuss issues related to the development of customers’ businesses; e) allow new groups and new members to join the centre and apply for loans. The attendance at the CMs by all five members of a group is compulsory: this public place helps to limit the misbehaviour of the customers.

The reasons that SEF accepts for not attending a CM are limited to pregnancy or maternity leave, illness, funerals and mourning periods. However, any absence must be justified by means of a written document and approved by the centre. It is sometimes necessary to send a representative to replace a person who is absent. If a member is absent for reasons other than the aforementioned ones, a fine is imposed. In addition, delays are also subject to sanctions, for a minimum amount of 5 rand.

The repayment procedure during a CM is as follows:

a) The heads of each group are called, one by one, to hand over the money to the treasurer of the centre; the latter also gives the savings book to the Development Facilitator (DF);

b) The DF informs the treasurer of the amount due; the treasurer counts the received money and confirms whether or not the two amounts correspond;

c) The secretary of the centre registers the payment or a delay in payment;

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3 At the date of the experiment, SEF had started introducing individual lending in some branches. However, our analysis has only focused on those branches with group lending.
d) The DF provides a receipt and updates the group’s repayment card;

e) Some centres use an alternative method called "Direct Deposits" or “prepaid methodology”: all refunds are deposited in a bank account, held by SEF, using the centre code as a reference number. All the groups belonging to a centre that follows this methodology must pay the instalment amount into the bank/post office account of the organization before the Centre Meeting takes place and, on that occasion, they only have to deliver the original copy of the deposit receipt. If the group does not deliver the original copy of the receipt, a delay is recorded;

f) Any repayment portion which is not paid by the end of the Centre Meeting is defined as in arrears;

g) SEF does not receive deposits, although the groups are required to accumulate savings at the bank/postal office in their deposit accounts. SEF has no direct control or access to the groups’ savings⁴, but provides customers with the necessary training to be able to manage an account and encourages them to save. In 2014, at the end of the financial year, the customers’ savings amounted to 41 million rand (The Small Enterprise Foundation, 2014).

3.2 Monthly Centre Meeting Pilot Project

The Monthly Centre Meeting pilot project was launched in May 2014, in order to amend the rules of frequency and attendance at the CMs. The meetings, which were reduced to only one per month, took place solely in order to repay the loan instalments and verify the status of savings.⁵ Moreover, each group was allowed to send only one representative, thus waiving the necessity for the other members to attend and leaving them free to devote more time to their businesses. Only prepaid centres were selected for the experiment. The main differences that were introduced with the pilot project are:

– The group could send a single representative; when a member was present, the whole group was considered present;

– All the new members had to be present at each CM until the end of their first loan cycle in order to become familiar with the SEF’s policies and procedures;

– All the clients in a group had to be present at the CM when new loan applications were submitted and approved (renewals), or changes to their financial plans were requested;

– There were two General CMs per year (May and November) in which the main objectives and general guidelines of the centre were addressed; these meetings were scheduled for the Centres involved in the experiment.

⁴ Clients are required to bring their group savings book to each centre meeting, as proof, for the DF, of the actual deposited amounts.

⁵ As in Feigenberg et al. (2013), the frequency of meetings was only reduced for the treated groups, whereas the frequency of payments was left unchanged, i.e. all the customers (apart from those in the first loan cycle) had to reimburse the instalment once a month.
Twelve prepaid centres were selected for the pilot project and were thus assigned to the group that received the treatment. As shown in Table 1, 125 groups were present in these centres, which belong to two SEF Branches: Tlatja and Trichardsdal, both of which are part of the Central Zone. These branches are located close to each other and are not far from the Tzaneen headquarters; this facilitated the monitoring.

The selection criterion of the treated centres was non-random, since the SEF Zonal Manager and the Branch Manager in the Tlatja and Trichardsdal branches identified those DFs who, on the basis of their past performance, could most effectively manage the project. Subsequently, the managers, together with the DFs, selected those centres where the day of the meeting did not overlap with others, although this choice should not have altered the randomness in any way. In short, the choice was deliberately oriented towards centres with good repayment performance as a result of the ability of their DFs. This is apparent in Table 2, which shows the average performance of the last six months before the start of the project (November 2013 - April 2014) in terms of attendance, savings and delays of the treatment groups. This result is confirmed by the few, sometimes even zero, monthly arrears in payments in the six months prior to the start of the pilot scheme. Only the TAB centre in the Trichardsal Branch lagged behind in March.6

The pilot scheme came to an end at the end of April 2015. The initial perception was that it had led to a worsening of the client’s repayment performance. Consequently, we decided to support the main experiment with an investigation of the reasons for this apparent failure by means of a survey on a sample of the clients who had initially been selected for the project.

The experiment was implemented over the May 2014 to April 2015 period. The control group was selected from November 2013 to April 2014 (see next sub-section), while the measurement of the effects on repayments and savings was made from May 2014 to April 2015. The overall observation period was from November 2013 to April 2015, that is, from six months before the pilot scheme was introduced until exactly one year after its introduction. Finally, the interviews with the clients took place in May and June 2015.

3.3 Propensity Score Matching (PSM)

In our study, the treated group was not selected randomly, but a number of variables guided the choice towards certain areas and centres. These variables were the geographic proximity of a branch to the SEF headquarters, the clients’ repayment performances, saving accumulation, and attendance at the centre meetings.

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6 Focusing solely on the monthly delays recorded in the SEF report might lead to an understatement. In fact, as reported in Table 3, this is a rare event as these delays are the only outstanding arrears after the Friday of the centre meeting week. These are the only arrears captured by the official SEF reports. We instead focused on those repayments that arrive a few hours or days after the Official Centre Meeting, which are not reported in the SEF archives because they are often recovered in a short period, and therefore are not included in the report drawn up by the headquarters.
As a solution to the non-random selection of the treated group, we decided to identify the control group through matching methods, given that the information related to both the excluded units and the allocation mode of the benefit were known. The method is based on the idea of combining each treated unit with the most similar non-treated unit according to the observable characteristics, which should plausibly be related to the selection mechanism and outcome variables observed in the pre-treatment period.

Rosenbaum and Rubin’s PSM technique (1983) was adopted for the construction of the control group. The Propensity Score (treated or non-treated) is the probability that a unit is assigned to the intervention on the basis of its characteristics prior to treatment. The subjects selected through this procedure will be the ones most similar to the actual treated subjects, so that the treated and the control groups can safely be compared to evaluate the effects of the treatment.

We treated the Propensity Score as the probability of receiving the treatment conditional on a set of covariates, formalized as follows:

\[ E(X_i) = \Pr \left[ z_i = 1 \mid X_i \right] \]  

where \( z_i \) is a dummy variable that equals 1 if the credit group \( i \) is undergoing treatment, and 0 if it represents a control group. \( X_i \) is a vector of the covariates observed for each of the involved groups. \( E(X_i) \) is the conditional probability, for a given group, of being exposed to the intervention \( (z_i=1) \), given the observed vector of the covariates.

The propensity of exposure to treatment is estimated using a logistic regression model on the observed data. The Propensity Score, indicated by \( b(X_i) \), is a function of the observed covariates, so that the conditional distribution of \( X_i \) given \( b(X_i) \), is the same both for the subjects undergoing an intervention \( (z_i=1) \) and those belonging to the control group \( (z_i=0) \). Alternatively, the covariates are orthogonal to the status of the treated or non-treated group:

\[ X_i \perp z_i \mid b(X_i) \]  

In situations that do not involve the use of randomization, it is assumed that the treatment assignment is strongly ignorable, given the vector of covariates \( X_i \), if the following two conditions are met:

\[ (Y_i (1), Y_i (0)) \perp z_i \mid X_i \]  
\[ 0 < \Pr \left[ z_i = 1 \mid X_i \right] < 1 \]
condition instead states that each person has a non-zero probability of receiving the treatment. The verification of these conditions allows us to obtain unbiased estimates of the treatment effect to be obtained in the impact analysis.

It is worth noting that the calculation of the Propensity Score should only include variables that were measured in a period prior to the treatment, otherwise they could be affected by the treatment. Comparing the similarity of the treated groups with the untreated sample is a critical step to obtain feedback about the successful implementation of the PSM. We compared the average and the median of the continuous covariates and the distributions of those that are categorical between the treated and the control set. The standard deviation was instead used to compare the average of the continuous or discrete variables between the treated groups.

The data needed for the implementation of the PSM were collected from the SEF database, which is made up of monthly reports that the institution draws up and uses for its assessments. This PSM analysis was conducted at the centre level, because the SEF had selected the centres for the whole treatment and not individual groups belonging to different areas. The methodology provides an exact match of 1 to 1: it attaches one and only one control unit to each treated unit where \( X \) are as identical as possible.

The control group was drawn up by selecting the units from a larger pool of 72 centres. It was built by satisfying the usual 1:6 ratio of treated and control units and by applying a pre-selection at two levels: geographical and methodological. The geographical area was limited to the Central zone, which was formed by seven branches: Burgersfort, Dzumeri, Letsitele, Phalaborwa, Sekgosese, Tlaja and Trichardsdal. The preselection was also limited to prepaid centres, because these were the only types of centres considered for the pilot changes. Moreover, the repayment dynamics during the Centre Meetings are different for the prepaid and cashbox centres.

We adopted a PSM without replacement and chose the nearest neighbour criterion. This policy is part of the “greedy criteria”, because the choice of the control unit that is closest to the treated one occurs once, without minimizing the overall measure of the distance between the units. As mentioned above, the variables used for the calculation of the Propensity Score refer to a period prior to the introduction of the pilot scheme. We built a cross-section with the observations equal to the average of the variables of interest in the six months before the change, that is, from November 2013 to April 2014. In addition, as standard practice, we included the outcome variables in the matching criteria. This would have reduced the risk of unobserved confounding factors. The variables involved in the PSM are the following: a) Distance from the headquarters; b) Loan Cycle; c) Attendance at Centre meetings; d) Centre savings balance; e) Monthly arrears; f) Dropout rate.

The choice of these variables was in part dictated by the necessity of matching the measures SEF used to identify the best-performing centres. We added the Loan cycle to these variables in order to account for the experience accumulated by the customers, in terms of money management. We also introduced a
geographical distance variable (Distance from the headquarters) to take into account the fact that the selection of the treatment group affected the centres that were closer to the SEF headquarters.

Table A.1 in the appendix reports the percentage of improvement for each balance measurement at various steps of the procedure. Figures A.1. and A.2 add further details on the equality between the distributions of the variables involved in the PSM, and compare the control group with the treated one.

Applying the PSM, we obtained a control group made up of 12 centres divided into three different branches: Dzumeri, Letsitele and Sekgosese. By introducing the “Loan Cycle” and “Distance from the headquarters” variables, we were able to narrow the choice and select three out of five branches. A total of 125 groups were involved, while the DFs amounted to seven.

Table 3 provides the details of the selected control centres. We have also reported the performance in terms of participation, savings and number of arrears, in the same way as for the treated group (Table 4). The data refer to the previous six months before the start of the project (November 2013 - April 2014). Simply comparing Table 4 with Table 2, one can notice that the distribution of the number of delays in the control group is virtually identical to that of the treated groups, and this confirms what was anticipated by the nullity of delays. However, the savings deviate a little more.

4. Data

After collecting data from the microcredit registers, and additional details from the survey, we built two different datasets: one related to the Repayment Schedules, and one related to the survey conducted on both customers and DFs. The first dataset was constructed with the aim of measuring the impact of changes in the frequency of CMs on customers’ repayment and saving performance. The second dataset was used to understand the reasons why the pilot scheme had not been successful.

The survey was carried out in May 2015, when the pilot project had already run its course. The administrative data needed for the analysis ranged from November 2013 to April 2015, covering a six month period before the start of the pilot project (May 2014) and twelve months after its beginning, for a total observation period of one year and a half. All the collected administrative information was taken from digitized paper documents, because the frequency of the data available from the SEF’s digital archives was monthly or was only available aggregated at the centre level.

4.1 Repayment Schedules

The Repayment Schedules are paper forms that each DF must fill in manually during the CM. These are the official records of the CM, and they must be completed both during the repayment meetings (first meeting of the month) and during the fortnightly meeting (second meeting of the month). They contain all of the information, divided by group. The group is the unit of observation in our empirical analysis. The Repayment Schedules report, in particular, the name and code of the centre, the date when the meetings
take place, the identification number of the group, the number of participants per group, savings, the amount due and the amount actually paid. The Repayment Schedules, filled in from Monday to Thursday during the centre meetings, are submitted by the DF to the Branch Manager on Friday, when the Branch meeting takes place, and then sent to the central SEF office, where data punching of the relevant information takes place.

The data on savings include both the savings account balance and the amount saved during the fortnight between one meeting and the next. We opted for an analysis of both variables in such a way as to compensate for any possible information gaps embedded in each individual measure. In short, \( \text{SavBalance} \) coincides with the balance of the group's savings account, and therefore accounts for both deposits and withdrawals. It indicates the overall saving capacity of a group. Being able to save money with perseverance and not dissipating it for personal use is also considered by SEF as an educational tool to increase self-awareness. This variable may contain a margin of error (although limited), because it can happen that some movements are not recorded in the book, due to the oversight of the DF. On the other hand, \( \text{FNSavings} \) reports the fortnightly amount saved and declared by the group during the CM, and verified by the DF in the savings book, where, besides the balances, deposits are also recorded. \( \text{FNSavings} \) only includes deposits, and does not report withdrawals. \( \text{FNSavings} \) is a fairly reliable variable, in terms of the customers’ commitment to constantly saving money.

### 4.2 Deposit slips

Deposit slips from each group are attached to the Repayment Schedules. They are the receipts issued by the banks/post offices that receive the cash for the payment of the instalment. The DF has the duty to collect, preserve and deliver the deposit slips to the headquarters at the end of the week, along with the Repayment Schedules. All the information contained in these slips, as well as that included in the repayment schedules, was digitized by the authors. These reports were particularly relevant for our purposes, since data on intra-week delays is not traceable elsewhere.

In fact, according to SEF’s policy, group members must pay the instalment before the start of the centre meeting and submit the deposit slip to the DF during the meeting. If this does not occur, the group is technically in arrears. However, since reconciliation of information and transactions occurs on Friday during the Branch meeting, the DFs have time to recover the outstanding arrears from Monday to Thursday and update the repayment schedules, which will be then sent to the head office. Therefore, arrears recovered by Thursday (or before the repayment schedules are sent to the head office) will not be indicated in the official SEF reports. It may therefore happen that a payment due on Monday is actually collected on Thursday, without any delay appearing in the Repayment Schedule.

This method of identification of delays unquestionably discriminates between customers of different centres, as those who have the meeting scheduled on Monday are granted up to four days before the actual delay is registered in the SEF archives. Instead, groups with meetings that take place on Thursday do not
share this "privilege". In short, SEF only considers those delays that exceed the week of the CM, which, it has emerged, are very rare events.

Abandoning this logic, we decided to consider all payments that occurred after 2 pm on the day of the CM ($DelayW$), the time at which all meetings had surely ended, as late payments. The arrears, even if recovered within the same week as the CM, still represented a source of additional costs and challenges: the CM might have lasted longer in an attempt to resolve the problem, and the DF might have invested time and effort in the following up and recovery of the arrears. Deposit slips are the only documents from which the exact date and time of the actual payment can be verified.

The paper-based information of the Repayment Schedules and deposit slips was digitalized, and a panel composed of 5,653 units with group-based observations (a total of 262 groups) was formed for a period of 18 months (November 2013 - April 2015). The panel was not balanced, because the composition of the centres had changed over time due to new groups having joined or groups dropping out at the end of their loan cycle. A description of the variables included in the database can be found in Table 5, while the tests conducted for testing equal mean and variance are reported in Tables 6 and 7.

### 4.3 Survey

In order to investigate the reasons behind the negative impact the project had on clients’ delays and saving performance, a survey was carried out on both the treated and control groups. The questionnaire focused more on the qualitative side of the pilot scheme rather than on quantitative issues.

A total of 255 women were surveyed. All the treated centres were covered, for a total of 161 customers, while only six centres belonging to the control group (DZAC, LTAM, DZAF, DZAB, LTAD, DZAY) were visited and 94 customers were interviewed.

The questionnaire, in its final form, was composed of 22 questions. These questions can be classified into three broad categories: personal information, relationship between members of the same group, and questions that focused on the role of the CMs and the pilot scheme.

The interviews took place in the second half of May and during the first week of June 2015. In the same period, another survey was administered to the DFs involved in the pilot scheme. It contained questions related to both the management of the programme and the problems encountered in enforcing the new rules.

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7 All the CMs at SEF are scheduled to take place either at 8 am or at 12 am and normally last no more than 1 hour and a half.
8 In this section of the questionnaire, we included questions designed to understand the intensity of the reciprocal trust between the different members of each group as this aspect may have influenced the meeting participation dynamics. In fact, as suggested by the Branch Managers, some non-representative members continued to attend the Centre Meetings despite being granted permission not to attend in order to focus more on their job activities.
5. Empirical analysis

5.1 Methodology

Given the quasi-experimental nature of the pilot scheme, we conducted the empirical analysis using DID techniques. We initially estimated the following model:9

\[ Y_{it} = \alpha + \beta_1 ITT_{it} + \beta_2 break_i + \beta_3 (ITT_{it} \times break_i) + \varepsilon_{it} \] (5)

where \( Y_{it} \) is the outcome, in terms of delays and saving behaviour, of microcredit group \( i \) at time \( t \). \( ITT_{it} \) is a dummy variable that takes on the value 1 if a group is part of a treated centre and 0 otherwise, it is constant over time and varies between centres. \( break \) is a binary variable that represents the period of observation (1 post-treatment, 0 pre-treatment), it is the same for the treated and the control group but varies over time.

Note that \( ITT \) denotes the intention to treat rather than the actual treatment effect, because groups selected for the pilot scheme were allowed to send only one member to the CMs, although this rule was not made mandatory. Finally, the interaction term \( ITT_{it} \times break_i \) identifies the effect of the treatment. \( \varepsilon_{it} \) is a zero-mean error term which is assumed to be normally distributed.

In (5), the \( \beta_3 \) parameter measures the effect of the introduction of the treatment on the outcome variables, and it can be interpreted as the difference between the pre and post variation of the dependent variable for the treated groups, compared to the counterfactual.

As a further step of the analysis, we considered the role of the covariates and fixed effects. We estimated an augmented model with the same structure as (5):

\[ Y_{it} = \alpha_i + \lambda_t + \beta_1 ITT_{it} + \beta_2 break_i + \beta_3 (ITT_{it} \times break_i) + \beta_4 X_{it} + \varepsilon_{it} \] (6)

where \( X_{it} \) is a set of covariates that has the aim of controlling for the initial differences observed between the two groups (see Table 5). The use of covariates also allows the precision of the estimates to be increased, with particular reference to the role of the factors that may explain the initial performance gap between the two groups due to the non-random selection. In this specification of the model, there are also two fixed effects: \( \alpha_i \), which refers to group-effects, and \( \lambda_t \), which denotes time-effects.\(^{10}\)

It is reasonable to suppose that, if the introduction of new rules of conduct for CMs introduced some changes, these were primarily related to the customers’ financial performance, in terms of timely repayment

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9 The usual requirements regarding the presence of a common trend are assured thanks to the use of PSM techniques to define the control group. In addition, we performed both Levene tests for equal variance and t-tests for equal means (see Tables 6 and 7, respectively).

10 After conducting Hausman (1978) tests, we decided to treat the specific effects as random. Regressions performed using the within estimator (see Baltagi, 2011 for details) are available upon request.
of the instalments and saving capacity. Unfortunately, no data are available to separate the effect of the reduced frequency of participation in meetings (Attendance) from the effect of the reduced number of participants, as when the representative member of a treated group was present at the CM, all of the group members were recorded as present, but the actual number of attendees was not recorded. However, we know that handling the presence at CMs was challenging for both the customers and the DFs. These aspects will be dealt with later on and supported with considerations drawn from the survey data.

As far as the outcome variables are concerned, we focused on the changes that occurred in the amounts repaid with delays (DelayW), on the pattern of the saving balance, as reported in the group registers (SavBalance), and on the data regarding the fortnightly saving inflows (FNSavings). As previously discussed, we decided to concentrate on intra-week delays because there were almost no monthly delays and they would not have been particularly informative.

Driven by the reasons that underpinned the introduction of the pilot scheme, we expected that a reduction in the meeting frequency would have allowed group members to focus more on their own work, thereby helping them to increase their revenues, which should have been reflected in a decreasing number of delays and increasing savings. This, however, contradicts the claims by various scholars who explained that the success of microcredit programmes was due to the benefit of the activities conducted during public and frequent meetings (Feigenberg et al., 2009, 2010, 2013, 2014; Larance, 2001). Thus, if the potential advantages of the reduced frequency of CMs were offset by a reduced intensity of these benefits, including social capital, the impact of the policy changes may be adverse. The balance between these two effects is left to empirical measurement.

5.2 Results

The estimates of the effects of the change made to the CM operating rules are reported in Table 8. Panels 1-3 differ in terms of the estimated outcome, the amount paid late, the saving balance and the fortnightly savings. We have displayed the key parameters of the two regressions for each dependent variable: one reports the results of the specification that includes ITT and break, along with their interaction term (column (a)); and the other reports the outcome of a more comprehensive model that also includes the covariates (see Table 5) and group-specific effects (column (b)). All the dependent variables, as well as the other continuous measures, are taken in logs in both specifications. Robust standard errors were computed.

The treatment effect on weekly delays (DelayW)\textsuperscript{11} is shown in panel 1 in Table 8. The coefficient associated with the term ITT\textsubscript{t}*break\textsubscript{i} is always significantly different from zero and positive in both the parsimonious specification of column (a) and in the augmented version of column (b).\textsuperscript{12} The parameter

\textsuperscript{11} Using a binary variable indicating the frequency of delayed repayments instead of the delayed amounts provides similar output in terms of parameter sign and significance. The outcomes are available upon request.

\textsuperscript{12} In panel 1 in column (b), we controlled the amount of the instalment, the saving balance (to account for the possibility of using savings to deal with shocks that might prevent repayment), the day of the week when the CM took place, and the loan cycle (as a proxy of a group’s experience in managing loans).
reported in column (a) suggests that the estimated policy changes in the organizational structure of the CMs increased the delayed amounts repaid by 89%. However, the comparison between the two specifications in columns (a) and (b) immediately points out the role of the control variables and shows more precise estimates and a better goodness of fit, as the outcome of this analysis is represented by variables which are subject to very unpredictable idiosyncratic phenomena. A more reliable parameter in column (b) thus indicates that the introduction of the new rules led to a 50% worsening of the instalment amounts repaid late; this can be considered an important signal, and points towards a negative evaluation of the pilot experiment.

In panel 2 in Table 8, the dependent variable is the balance of the group’s savings account (SavBalance). In this case, the effect of the treatment is negative and statistically different from zero in both specifications, thus indicating a reduction in the amount of savings induced by the pilot scheme. The estimated effect is almost the same in columns (a) and (b), thus indicating that the pilot scheme induced a 17-18% reduction in the savings balance. Although such a reduction may correspond to very small amounts, given the small entity of the accumulated deposits, it represents a considerable sum for people living far below the poverty line, such as the target clients of the SEFs.

As regards the estimated effect on fortnightly savings (FNSavings), reported in panel 3 in Table 8, the interaction term is not significant. However, the combined results of the regressions on the savings balance and deposits suggest an interesting consideration. Since the saving balance has dropped as a result of the change in the meeting rules, but the deposits have not been affected to any great extent, one may infer that the cash withdrawals have increased.

There are two possible explanations for this: since income may plausibly be split into expenditure, loan repayment and savings, either income has fallen and savings have been used to repay the instalments, or expenditure has increased. In both cases, the evidence is rather worrisome, and indicates that even though some members successfully saved time, thanks to the newly established rules, this time was not fruitfully devoted to job activities. Pushing this interpretation even further, one may even conclude that since the individuals were endowed with extra time – which does not seem to have been devoted to working activities – the cash withdrawals were used for personal expenses or even for leisure.

Although the logic behind the pilot scheme was valid and reasonable, our analysis has confirmed that establishing compliance with specific rules concerning the attendance at CMs, and spurring virtuous

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13 The control variables are the amount of the loan, the average age of group members to account for the saving capacity, fortnightly savings, and the average number of loans previously obtained by the group members. The latter three measures are all intended to capture a group’s capability to accumulate savings over time.

14 According to Table 5, the average savings balance is 2,719 rand, which corresponded to 178 Euros or 199 US dollars at the date of writing this paper. The estimated decrease is thus 32 Euros (36 US dollars).

15 We have included the balance of the saving account in column (b). We have also added the amount of the loan, the average age of the group and the average number of loans granted in favour of the group members.
dynamics among the participants, are relevant elements for the proper operation of a microcredit programme. With specific reference to group lending, our estimates tend to confirm the preference for standard (high frequency) practices, for which all the important steps, including the repayment phase, take place during group meetings. Centre meetings seem to effectively stimulate the accumulation of social capital and, in the pilot scheme, this element turned out to be more valuable than the purpose of making borrowers save time to dedicate to their own economic activities.

5.3 Robustness check

In this section, we check for robustness of the previously presented results, paying particular attention to the identification of the treatment and to the composition of the control group. First, in order to support the previously achieved results, we have provided evidence of the existence of a common pre-treatment pattern between the treated and control groups through mean-equality tests (see the beginning of this section). The presence of a control group that is as similar as possible to the treated group, obtained via PSM, should have allowed the pre-treatment trend of the outcome variables to be identified separately from the effects of the treatment.

Moreover, although the key assumptions of the methodology seem to have been verified, a known limit of the DID design is the sensitivity of the results, in terms of consistency of the estimated standard errors. Bertrand et al. (2004) showed that many DID applications deal with a substantial auto-correlation of the dependent variable. A serial correlation does not necessarily influence the magnitude of the average estimated effects, but could underestimate their standard errors.

Such a potential problem led us to examine the possible existence of inconsistent standard errors in our estimates. To do this, we worked out a placebo test to estimate the relevant equation using fictitious "rules of intervention". In practice, observation units are assigned to the control group through a random pick from a uniform distribution and/or by randomly assigning a pre and post-intervention period. This exercise is repeated several times, and new assignments are generated from the same dataset at each round of the simulation.

Since the OLS estimates produced consistent standard errors, we expected the null hypothesis of no effect ($\beta_3 = 0$) to be rejected. For instance, a threshold of 1.96 for the absolute value of the t-statistic was expected to occur approximately 5% of the time. Given that we generated non-real and completely random interventions, we expected to observe a null effect. A high rate of rejection of the null hypothesis is indicative of possible non-parallel pre-treatment trends and therefore of biased estimates of the actual effect of the treatment.

We proceeded by first altering the dummy \textit{ITT} that identifies the treated groups from the control set, then changing only the dummy \textit{break}, and finally changing both. Table 9 reports the fraction of simulations in which the absolute value of the t-statistic associated to the parameter of \textit{ITT*Break} is greater than 1.96.
We found that the null hypothesis of no effect is rejected very few times. We can therefore be sufficiently confident that the standard errors of our analysis are consistent, thus confirming that the effect of the introduction of the pilot scheme has not been a successful experience in terms of financial performance of the SEF clients.

6. Understanding the reasons for the failure of the "Monthly Centre Meeting" pilot scheme

Apparently, the introduction of voluntary participation defeated the purpose of the pilot scheme. However, this alone is not enough to explain the worsening in the repayment performance and saving accumulation, since, in a hypothetical worst scenario, if no one had complied with this rule, nothing would have changed, compared to the pre-treatment period. In particular, this cannot explain why the fortnightly savings did not decrease but the saving balances did, possibly due to an increased amount of withdrawals.

During the months of the pilot scheme, many customers declared that some members of their group did not pay or forgot to do so, thus creating delays and awkward situations for all the other members. At the same time, since reducing the frequency of the SEF meetings also reduced the frequency of checking the amount of accumulated savings, we can assume that the decrease in the saving balance of the treated groups stems from not feeling the pressure of having to follow righteous behaviour, which would have been stimulated more in the case of more frequent meetings.

Furthermore, the empirical analysis suggests that the pilot scheme did not work from either an economic point of view or from its practical management point of view. An attempt was therefore made to understand the reasons for these weaknesses. We conducted a survey in the rural villages where SEF operates, interviewing both the treated customers and the customers belonging to the control group. In addition, we also interviewed the DFs involved in the changes in order to establish their level of knowledge about the pilot scheme and the way they managed the Monthly Centre Meetings project.

The analysis was based on a categorization of the answers through text mining techniques, which can provide an objective coding of open-ended responses. We encoded all the answers in as exhaustive and exclusive categories as possible, depending on the frequency with which keywords were present among the provided answers. The categories are discussed in this section, but only those that are useful to explain the reasons for the failure of the project and to provide hints, in terms of possible new changes of the CM policy, have been extrapolated.

6.1 Understanding of the rules and the reasons for the pilot scheme

All the questions present in the survey are reported in Figure A.3 in the appendix. Question 17, in particular, was aimed at verifying whether the treated customers had correctly understood both the rules of the pilot scheme and the reasons for its introduction.
The understanding of the pilot scheme has been analysed in order to distinguish between those who had declared that they had understood the new rules and the reasons for their introduction (133 customers out of 157 respondents) and those who had not (the remaining 26). We also investigated the degree of understanding of each specific change. Different levels of understanding had been created: the first included customers who appeared to be familiar with both (i) the reduced frequency and (ii) the reduced number of participants at the CMs; the second included those who declared they had only understood one of the two rules and had specified which one; the third refers to women who simply declared they had understood the programme, without detailing which rule they had in fact understood. The remaining category was made up of those who had failed to understand both rules. The latter group consisted of only 22% of the respondents. Therefore, we can reasonably infer that a lack of knowledge of the rules of the pilot scheme should not have represented a key element of the observed failure.

Although, in principle, the two main changes were known, several elements that emerged from the answers to other questions showed a lack of understanding of both the way these new rules should have been implemented and of how the new dynamics that were created after the change should have been managed. Several issues in fact arose concerning the point about the rotation of representative members and the need to show the payment receipt to non-representative members. This can be interpreted as a lack of capability of implementing the new mechanisms, particularly at the group level. Indeed, the pilot scheme did not explicitly require a fixed representative to be identified, but it was instead intended to allow groups to implement a rotation or whatever they considered suitable for their needs. Apart from this, it did not even require that the payments at the banks/post offices were to be made by the chosen representative; each member could have made her own payment and delivered the receipt to the representative.

We also analysed how the knowledge and the subjective opinion of the SEF employees involved in the implementation of the pilot scheme may have influenced its outcome. To this aim, we also interviewed one Zonal Manager, one Branch Manager and the five DFs of the treated centres. Although they acknowledged several benefits of the new rules, such as a more orderly conduct of meetings with fewer people being present, and the possibility of obtaining more time to devote to other activities, such as follow-up visits, the majority of employees expressed a preference for the standard methodology. This may be indicative of the DF’s lack of trust in the self-organization skills of the customers, which actually seems to be a reason for the failure of the pilot scheme. This could also have influenced customers, and somehow have demotivated them.

6.2 Participation in the Centre Meeting: why did customers participate in the meetings despite not being representatives of the group?

The general rules of the pilot scheme did not prevent non-representative members from taking part in the CMs. In fact, most of the interviewed women stated they participated in the CMs every now and then, even though they were not the representative members. Only 21% of those interviewed never attended the
meetings. Then, why did the customers still go to the meeting places? The reasons that were given were mixed, and included the need to replace or help the representative, as well as the habit of going to share ideas and experience with other groups. Of all the reasons, the highest frequency (35%) was found for “the pleasure of attending and seeing what happens during meetings”.

However, even the issue related to the mutual trust among members of a group is a possible explanation for the abnormal rate of participation. We included two specific questions in the survey to investigate the degree of mutual trust (questions 11 and 12). The first asked whether the interviewee trusted her companions. Only 1% of the respondents stated “not much”, 11% said “enough” and the remaining respondents answered they trusted their peers. We found similar frequencies in the answers to the second question, which reversed the relationship of trust and investigated how the members of the group were likely to trust the interviewee. We found a bias towards a "courtesy response", and this prevented us from identifying a low level of trust among members as a clear cause of continued participation, and therefore as being responsible for the failure of the pilot scheme.

Although the answers to these questions tend to exclude trust from the reasons for the failure of the pilot scheme, we believe that the answers to other questions show a low level of confidence among the members of a group. In particular, very vague answers like "to see what happens", "the representative does not provide proper feedback" or "we are not up to date on the behaviour of the other members" still leave the doubt regarding the presence of a certain level of distrust among group members. Trust cannot be contained in a rule; it is cultivated over time and should not be underestimated in a group lending environment.

6.3 The Centre Meeting as a place of socialization: how often did the members of a group meet with other members?

The Centre Meeting is not only a place where borrowers make financial transactions; it is also, and primarily, a place of socialization, which should allow people to increase their social capital: customers exchange ideas, share experience and solve problems together. Depriving them of this opportunity, and having received negative feedback concerning difficulties with the organization of payments within the group and other related problems, may be a symptom of the absence of meetings outside the centre, which in turn indicates a lack of self-organization by the groups. In fact, customers could and should have simply met outside and before the CM to reconcile all the payments and balances, and/or to discuss their problems. Their answers to the survey confirm that, in some circumstances, this did not occur.

The questions pertaining to this context asked how many times a client met with the rest of the group outside the SEF meeting, and if the frequency of these meetings had changed during the last year of the pilot scheme. Although 63% of the respondents stated they saw each other outside the SEF meeting places more often, 37% of them said they met less often, thus showing they had not been able to create other
opportunities for discussion and coordination. The presence of the latter group in the pilot scheme cannot be disregarded, as it may have significantly and negatively affected its success.

7. Conclusions

SEF Centre Meetings are periodic events that gather all the members of the groups belonging to a microcredit centre every fortnight. Groups join the meetings to repay instalments and to access new loans, but centre meetings are also important places of socialization and discussion. In the literature, the frequency and the attendance at these meetings is largely used as a proxy to estimate the extent of the clients’ social capital. Some studies show that a better repayment performance is associated with a higher attendance at these meetings. However, group meetings also represent an opportunity cost and a real cost for clients who are called upon to participate.

SEF has witnessed the awkwardness that is caused by the compulsory attendance of its customers at Centre Meetings. In fact, some of the CMs recorded poor participation and a high number of dropouts. In order to address this problem, SEF launched a pilot project, entitled "Monthly Centre Meeting", in May 2014 to change some of the rules pertaining to the conduct of these meetings. The frequency of the meetings was reduced from fortnightly to monthly, thus eliminating the second meeting of the month. The mandatory participation of all group members was also relaxed, and only one representative member was asked to attend the meetings.

The objective of the present research has been to investigate whether policy changes had some impact on the clients’ repayment performance. We have used the DID methodology to compare a treated group of borrowers, previously defined by the CEO of the SEFs, with a control group, selected by means of Propensity Score Matching techniques. The obtained results confirm the failure of the pilot scheme. Late payments increased and the balance of the saving accounts actually dropped.

In the second part of the analysis, we focused on shedding light on the reasons for this failure. The reasons can be summarized as follows: i) the non-representative members still wanted to participate in the meetings and thus lost time that could have been spent on their business; ii) the programme lacked detailed rules that could have ensured its correct implementation; iii) the pilot ended up by deteriorating, to a great extent, the repayment performance of those groups that had no other opportunities to meet, thus confirming the importance of Centre Meetings as a place of socialization and discussion.

We conclude that, in the case of SEF, the higher costs of reducing both the frequency of meetings and the number of participants were not offset by greater benefits. Furthermore, we believe that simple, well explained, and stringent rules are needed when implementing policy changes of this kind. For example, in

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16 Such as pointing out that non-representative members were not obliged to deliver money to the representative members, they could have simply gone together to the bank, made each individual payment, and picked up the (collective) receipt to be delivered by the representative member at the meeting.
the specific case of SEF, a “main” repayment meeting, open to all the customers, and then the limited participation of one member per group in the second meeting of the month (when payments are not scheduled) could be proposed. In general, we suggest the need to closely monitor all customers at the initial stage of the implementation period in order to overcome organizational problems, such as those related to the lack of trust among group members. Finally, it is essential to promote a high degree of compliance with the new rules.

References


### TABLES

#### Table 1 - Treated groups

<table>
<thead>
<tr>
<th>Branch</th>
<th>DF</th>
<th>Centre</th>
<th>No. of Groups</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tlatja</td>
<td>Sarah Hlungwane*</td>
<td>TJAK, TJAL,</td>
<td>11, 11, 8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TJAN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rebecca Mogotlane</td>
<td>TJBY, TJDG,</td>
<td>8, 9, 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TJDE</td>
<td></td>
</tr>
<tr>
<td>Trichardsdal</td>
<td>Rachel Maimela</td>
<td>TAT, TDA, TAC</td>
<td>11, 12, 9</td>
</tr>
<tr>
<td></td>
<td>Paulinah Mathye</td>
<td>TAX, TAB, TAR</td>
<td>8, 18, 16</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>125</strong></td>
</tr>
</tbody>
</table>

* Sarah Hlungwane was replaced during the pilot scheme by Leonard Mashaba.

Source: SEF archives.

#### Table 2 - Attendance, savings and arrears: Treated groups

<table>
<thead>
<tr>
<th>Centre</th>
<th>Attendance</th>
<th>Savings</th>
<th>Number of Monthly Arrears</th>
</tr>
</thead>
<tbody>
<tr>
<td>TJAK</td>
<td>65%</td>
<td>R 28,467</td>
<td>0</td>
</tr>
<tr>
<td>TJAL</td>
<td>67%</td>
<td>R 42,112</td>
<td>0</td>
</tr>
<tr>
<td>TJAN</td>
<td>72%</td>
<td>R 29,101</td>
<td>0</td>
</tr>
<tr>
<td>TJBY</td>
<td>86%</td>
<td>R 58,653</td>
<td>0</td>
</tr>
<tr>
<td>TJDG</td>
<td>45%</td>
<td>R 10,054</td>
<td>0</td>
</tr>
<tr>
<td>TJDE</td>
<td>82%</td>
<td>R 10,976</td>
<td>0</td>
</tr>
<tr>
<td>TAT</td>
<td>76%</td>
<td>R 24,019</td>
<td>0</td>
</tr>
<tr>
<td>TDA</td>
<td>60%</td>
<td>R 15,445</td>
<td>0</td>
</tr>
<tr>
<td>TAC</td>
<td>77%</td>
<td>R 23,996</td>
<td>0</td>
</tr>
<tr>
<td>TAX</td>
<td>66%</td>
<td>R 15,549</td>
<td>0</td>
</tr>
<tr>
<td>TAB</td>
<td>48%</td>
<td>R 44,985</td>
<td>0.17</td>
</tr>
<tr>
<td>TAR</td>
<td>55%</td>
<td>R 25,051</td>
<td>0</td>
</tr>
</tbody>
</table>

Source: SEF database.

#### Table 3 - Control groups

<table>
<thead>
<tr>
<th>Branch</th>
<th>DF</th>
<th>Centre</th>
<th>No. of Groups</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dzumeri</td>
<td>Raldah Ngobeni</td>
<td>DZAB, DZAF,</td>
<td>9, 7, 11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DZAE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Humbelani Tshikoliso</td>
<td>DZY</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Dinah Tsie</td>
<td>DZAC</td>
<td>13</td>
</tr>
<tr>
<td>Letsitele</td>
<td>Livhuwani Nemavhola</td>
<td>LTAF, LTAA,</td>
<td>12, 10, 16</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LTAD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bridgette Masafo</td>
<td>LTAQ, LTAC</td>
<td>3, 8</td>
</tr>
<tr>
<td></td>
<td>Mavis Chepape</td>
<td>LTAM</td>
<td>4</td>
</tr>
<tr>
<td>Sekgosese</td>
<td>Gloria Mnisi</td>
<td>SBJ</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>112</strong></td>
</tr>
</tbody>
</table>

Source: SEF database.
### Table 4 - Attendance, savings and arrears: Control groups

<table>
<thead>
<tr>
<th>Centre</th>
<th>Attendance</th>
<th>Savings</th>
<th>Number of Arrears</th>
</tr>
</thead>
<tbody>
<tr>
<td>DZAB</td>
<td>72.00%</td>
<td>R 33,823</td>
<td>0</td>
</tr>
<tr>
<td>DZAC</td>
<td>78.00%</td>
<td>R 28,731</td>
<td>0</td>
</tr>
<tr>
<td>DZAE</td>
<td>78.00%</td>
<td>R 27,448</td>
<td>0</td>
</tr>
<tr>
<td>DZAF</td>
<td>69.50%</td>
<td>R 15,639</td>
<td>0</td>
</tr>
<tr>
<td>DZAY</td>
<td>83.00%</td>
<td>R 29,498</td>
<td>0</td>
</tr>
<tr>
<td>LTAA</td>
<td>67.50%</td>
<td>R 39,160</td>
<td>0</td>
</tr>
<tr>
<td>LTAC</td>
<td>74.00%</td>
<td>R 18,745</td>
<td>0</td>
</tr>
<tr>
<td>LTAD</td>
<td>76.00%</td>
<td>R 27,609</td>
<td>0</td>
</tr>
<tr>
<td>LTAF</td>
<td>58.00%</td>
<td>R 17,317</td>
<td>0</td>
</tr>
<tr>
<td>LTAM</td>
<td>42.50%</td>
<td>R 8,121</td>
<td>0</td>
</tr>
<tr>
<td>LTAQ</td>
<td>39.00%</td>
<td>R 5,139</td>
<td>0.17</td>
</tr>
<tr>
<td>SBJ</td>
<td>80.00%</td>
<td>R 24,993</td>
<td>0</td>
</tr>
</tbody>
</table>

Source: SEF database.

### Table 5 - Descriptive statistics

| Treat       | No. of groups | Amount Due | Mean | Std. dev. | Mean Std. dev. | SavBalance | Mean | Std. dev. | Mean Std. dev. | DelayW (>0) | No. | Mean | Std. dev. | Mean Std. dev. | DelayM (>0) | No. | Mean | Std. dev. | Mean Std. dev. | FNSavings | No. | Mean | Std. dev. | Mean Std. dev. |
|-------------|---------------|-----------|------|-----------|----------------|------------|------|-----------|----------------|-------------|-----|------|-----------|----------------|-------------|-----|------|-----------|----------------|-----------|-----|------|-----------|----------------|-----------|-----|------|-----------|----------------|
|             |               |           |      |           |                |            |      |           |                |             |     |      |           |                |             |     |      |           |                |           |     |      |           |                |           |     |      |           |                |           |
|             |               | Amount Due|      |           |                |            |      |           |                |             |     |      |           |                |             |     |      |           |                |             |     |      |           |                |           |     |      |           |                |           |
|             |               | SavBalance|      |           |                |            |      |           |                |             |     |      |           |                |             |     |      |           |                |             |     |      |           |                |           |     |      |           |                |           |
|             |               | DelayW (>0)|    |           |                |            |      |           |                |             |     |      |           |                |             |     |      |           |                |             |     |      |           |                |           |     |      |           |                |           |
|             |               | DelayM (>0)|    |           |                |            |      |           |                |             |     |      |           |                |             |     |      |           |                |             |     |      |           |                |           |     |      |           |                |           |
|             |               | FNSavings |      |           |                |            |      |           |                |             |     |      |           |                |             |     |      |           |                |             |     |      |           |                |           |     |      |           |                |           |

Source: SEF database.
Table 6 - Levene Test for equal variance

<table>
<thead>
<tr>
<th>Variable</th>
<th>F</th>
<th>Sign.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount Due</td>
<td>0.200</td>
<td>0.654</td>
</tr>
<tr>
<td>SavBalance</td>
<td>0.898</td>
<td>0.344</td>
</tr>
<tr>
<td>DelayW</td>
<td>9.432</td>
<td>0.003</td>
</tr>
<tr>
<td>DelayM</td>
<td>0.178</td>
<td>0.701</td>
</tr>
<tr>
<td>FNSavings</td>
<td>8.523</td>
<td>0.004</td>
</tr>
</tbody>
</table>

Alpha=0.05. H0: equal means across groups. Period: 11/2013 – 4/2014.

Table 7 - t-Test for equal means

<table>
<thead>
<tr>
<th>Variable</th>
<th>t</th>
<th>Degr. Freedom</th>
<th>Sign.</th>
<th>Diff. in mean</th>
<th>Diff. Std dev.</th>
<th>Confidence interval for the difference (95%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Inf.</td>
</tr>
<tr>
<td>Amount Due</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equal var.</td>
<td>-1.542</td>
<td>1,854</td>
<td>0.123</td>
<td>-210</td>
<td>136</td>
<td>-478</td>
</tr>
<tr>
<td>Diff. in var.</td>
<td>-1.574</td>
<td>1,723</td>
<td>0.116</td>
<td>-210</td>
<td>134</td>
<td>-472</td>
</tr>
<tr>
<td>SavBalance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equal var.</td>
<td>-2.595</td>
<td>1,852</td>
<td>0.010</td>
<td>-336</td>
<td>130</td>
<td>-591</td>
</tr>
<tr>
<td>Diff. in var.</td>
<td>-2.659</td>
<td>1,737</td>
<td>0.008</td>
<td>-336</td>
<td>127</td>
<td>-585</td>
</tr>
<tr>
<td>DelayW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equal var.</td>
<td>-0.992</td>
<td>121</td>
<td>0.323</td>
<td>-534</td>
<td>538</td>
<td>-1,599</td>
</tr>
<tr>
<td>Diff. in var.</td>
<td>-0.920</td>
<td>72</td>
<td>0.361</td>
<td>-534</td>
<td>580</td>
<td>-1,690</td>
</tr>
<tr>
<td>DelayM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equal var.</td>
<td>0.228</td>
<td>3</td>
<td>0.835</td>
<td>124</td>
<td>544</td>
<td>-1,607</td>
</tr>
<tr>
<td>Diff. in var.</td>
<td>0.215</td>
<td>1.882</td>
<td>0.851</td>
<td>124</td>
<td>576</td>
<td>-2,508</td>
</tr>
<tr>
<td>FNSavings</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equal var.</td>
<td>-1.597</td>
<td>1,854</td>
<td>0.111</td>
<td>-11.53</td>
<td>7.22</td>
<td>-25.70</td>
</tr>
<tr>
<td>Diff. in var.</td>
<td>-1.697</td>
<td>1,848</td>
<td>0.090</td>
<td>-11.53</td>
<td>6.80</td>
<td>-24.86</td>
</tr>
</tbody>
</table>

Alpha=0.05. H0: equal means across groups. Period: 11/2013 – 4/2014.
Table 8 - Effects of the pilot scheme on the repayment delays, Saving balance and Deposits: DID estimates

### Table 8.1 Dependent variable: *DelayW*

<table>
<thead>
<tr>
<th></th>
<th>(a)</th>
<th>(b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITT*Break</td>
<td>0.893 ***</td>
<td>0.504 ***</td>
</tr>
<tr>
<td></td>
<td>(0.122)</td>
<td>(0.121)</td>
</tr>
<tr>
<td>Constant</td>
<td>0.821 ***</td>
<td>1.308</td>
</tr>
<tr>
<td></td>
<td>(0.077)</td>
<td>(0.878)</td>
</tr>
<tr>
<td>Covariates</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Obs.</td>
<td>5,653</td>
<td>5,653</td>
</tr>
<tr>
<td>R²</td>
<td>0.01</td>
<td>0.08</td>
</tr>
</tbody>
</table>

### Table 8.2 Dependent variable: *SavBalance*

<table>
<thead>
<tr>
<th></th>
<th>(a)</th>
<th>(b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITT*Break</td>
<td>-0.170 ***</td>
<td>-0.181 ***</td>
</tr>
<tr>
<td></td>
<td>(0.062)</td>
<td>(0.061)</td>
</tr>
<tr>
<td>Constant</td>
<td>6.860 ***</td>
<td>3.790 ***</td>
</tr>
<tr>
<td></td>
<td>(0.039)</td>
<td>(0.454)</td>
</tr>
<tr>
<td>Covariates</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Obs.</td>
<td>5,653</td>
<td>5,653</td>
</tr>
<tr>
<td>R²</td>
<td>0.01</td>
<td>0.03</td>
</tr>
</tbody>
</table>

### Table 8.3 Dependent variable: *FNDeposits*

<table>
<thead>
<tr>
<th></th>
<th>(a)</th>
<th>(b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITT*Break</td>
<td>-0.055</td>
<td>-0.014</td>
</tr>
<tr>
<td></td>
<td>(0.102)</td>
<td>(0.097)</td>
</tr>
<tr>
<td>Constant</td>
<td>4.803 ***</td>
<td>-5.966 ***</td>
</tr>
<tr>
<td></td>
<td>(0.064)</td>
<td>(0.712)</td>
</tr>
<tr>
<td>Covariates</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Obs.</td>
<td>5,653</td>
<td>5,653</td>
</tr>
<tr>
<td>R²</td>
<td>0.02</td>
<td>0.17</td>
</tr>
</tbody>
</table>

All variables are in log form. Robust standard errors in parenthesis. *** sign. 1%; ** sign. 5%; * sign. 10%
Table 9 - Rejection rate for the null hypothesis of no effects

<table>
<thead>
<tr>
<th>Data</th>
<th>Rejection rate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Delay</strong>W</td>
<td></td>
</tr>
<tr>
<td>Treat only</td>
<td>5.00%</td>
</tr>
<tr>
<td>Break only</td>
<td>2.50%</td>
</tr>
<tr>
<td>Treat and Break</td>
<td>4.00%</td>
</tr>
<tr>
<td><strong>2. SavBalance</strong></td>
<td></td>
</tr>
<tr>
<td>Treat only</td>
<td>7.00%</td>
</tr>
<tr>
<td>Break only</td>
<td>6.00%</td>
</tr>
<tr>
<td>Treat and Break</td>
<td>6.75%</td>
</tr>
<tr>
<td><strong>3. FNSavings</strong></td>
<td></td>
</tr>
<tr>
<td>Treat only</td>
<td>2.00%</td>
</tr>
<tr>
<td>Break only</td>
<td>2.00%</td>
</tr>
<tr>
<td>Treat and Break</td>
<td>6.00%</td>
</tr>
</tbody>
</table>

Notes:
- Each regression, in addition to the interaction variable, includes fixed effects and covariates.
- The number of simulations for each cell varies from a minimum of 200 to a maximum of 400.

APPENDIX

Table A.1 - Output of the PSM

<table>
<thead>
<tr>
<th></th>
<th>Mean Diff.</th>
<th>EQQ Med</th>
<th>EQQ Mean</th>
<th>EQQ Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance</td>
<td>93.88</td>
<td>94.83</td>
<td>85.77</td>
<td>53.24</td>
</tr>
<tr>
<td>Attendance</td>
<td>56.64</td>
<td>-70.00</td>
<td>11.97</td>
<td>68.75</td>
</tr>
<tr>
<td>Savings</td>
<td>39.55</td>
<td>53.38</td>
<td>20.73</td>
<td>-45.68</td>
</tr>
<tr>
<td>Arrears</td>
<td>100.00</td>
<td>0.00</td>
<td>100.00</td>
<td>100.00</td>
</tr>
<tr>
<td>LoanCycle</td>
<td>90.17</td>
<td>30.81</td>
<td>27.28</td>
<td>25.08</td>
</tr>
<tr>
<td>DistanceKM</td>
<td>74.09</td>
<td>46.91</td>
<td>62.55</td>
<td>70.00</td>
</tr>
<tr>
<td>Dropout</td>
<td>71.26</td>
<td>69.18</td>
<td>77.64</td>
<td>90.52</td>
</tr>
</tbody>
</table>

Note: The table indicates the percentage of improvement for each balance measurement, defined as 100*((a−b)/a) where a is the measurement before the assignment and b is the one after the matching. Values close to 100 indicate a better matching.
Figure A.1 – PSM: QQ Plot

Note: If the empirical distribution is the same in the treated group and in the control group, the points inside the QQ plot should be aligned to the 45 degree line. Deviations from the 45 degree line indicate differences in the empirical distribution. This only happens for the distance variable from SEF headquarters.
Figure A.2 – Comparison between the treated group and the control group before and after PSM.
Figure A.3 – Pilot project survey: customers

<table>
<thead>
<tr>
<th>Centre</th>
<th>ID No.</th>
<th>Group Name</th>
<th>Group No.</th>
</tr>
</thead>
</table>

**Introduction:** Good day, I am a volunteer who is helping SEF doing research. In particular, I would like to ask you some questions in order to understand better your experience of the pilot project that varied SEF original methodology, by reducing the Centre Meeting frequency to once a month. The information I am collecting will be treated with confidentiality and by no means will be used against you by SEF. You can feel free to talk openly.

1. How long have you been at SEF? ______
2. Walking distance from your house to the Centre: minutes ______
3. Type of job/business activity: ______
4. No. of household members (including you and not guests): ______ less than 12 years old ______
5. No. of income recipients in the household (including you and also grant recipients): ______
6. Did you incur large expenditures (not covered by insurance) during the last year (e.g. Medical, Wedding, Funeral, Lobola)? □ yes □ no
7. How long have you known (most of) your Group Members? □ before joining SEF □ upon joining SEF
8. How often do you meet your Group Members outside SEF? □ daily □ weekly □ fortnightly □ less often
9. Did the frequency of the meetings with your Group Members outside SEF vary during the last year? □ we meet more often □ we meet less often
10. What do you do when you meet with your Group Members outside SEF? □ we discuss about SEF (loan) □ job-related discussion □ enjoy free time □ other
11. How much do you trust your Group Members? □ very much □ just enough □ not much □ nothing at all
12. How much do you think they trust you? □ very much □ just enough □ not much □ nothing at all
13. Did you experience any difficulties with your business activity in the last two years? □ no □ no, since I don’t have a business activity □ yes, I closed my business activity □ yes, I had to change activity □ yes, illness (also of other family members) □ yes, a family member has deceased □ yes, others: can you state? ______
14. Do you like going to Centre Meetings? □ yes □ no □ indifferent
15. What kind of problems do you experience during Centre Meetings? □ no problems □ too long □ too many conflicts □ other problems: can you state? ______
16. Did you overall like the reduced frequency of the Centre Meetings? □ yes □ no
17. What was your understanding of the pilot and reasons for introducing it? ______
18. How did you and your group choose your Representative? □ within the group, unanimity □ within the group, majority □ decided by Centre Leader □ other ways
19. Were you attending the meeting when you were not the representative? □ always □ every now and then □ never □ I have always been representative
20. If not, why? □ too busy with the job □ other Group Members have more time □ too busy with the family □ other Group Members are more experienced □ illness □ other, state: ______
21. What problems or advantages did you or your group experience during the reduced frequency of the Centre Meetings compared to standard frequency? ______

How do you think the reduced frequency of the Centre Meetings could work better?

I prefer the reduced frequency of the Centre Meetings □ yes □ no
22. What problems or advantages would you expect from a reduced frequency of the Centre Meetings?

I would like to experience the reduced frequency of the Centre Meetings □ yes □ no