IS GRANDMA READY FOR THIS?
Mexico Kills Cash-Based Pensions and Welfare by 2012

Presented as part of The Fletcher School conference:

Killing Cash: Pros and Cons of Mobile Money for the World’s Poor—A Look at Both Sides of the Coin

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This case study was prepared for presentation at “Killing Cash: Pros and Cons of Mobile Money for the World’s Poor—A Look at Both Sides of the Coin,” a conference held at The Fletcher School, Tufts University, on April 22, 2011.

The event gathered leaders in the field of financial inclusion to take a closer look at mobile payment systems and their implications for the world’s poor, featuring presentations and panels led by experts from Bankable Frontier Associates, the Bank of New York Mellon, Boston University, the Consultative Group to Assist the Poor (CGAP), the Federal Reserve Bank of Boston, and the Feinstein International Center at Tufts University, as well as conference cosponsors, the Bill & Melinda Gates Foundation, the Center for Emerging Market Enterprises (CEME), and The Fletcher School.

In addition to a roundtable discussion on the findings of this case, the conference featured sessions examining the advantages and disadvantages of mobile money versus tangible cash, the implications of e-cash on anti-terrorism and anti-money laundering efforts, and the future of mobile money.

“Killing Cash” was cochaired by Kim Wilson, Lecturer at The Fletcher School and CEME Senior Fellow, and Nicholas Sullivan, also a CEME Senior Fellow. The conference was part of The Fletcher School Leadership Program for Financial Inclusion, an innovative training initiative designed for banking regulators and policymakers from emerging and frontier markets to promote and further develop their work on policy and regulation in financial services for the poor. The program is funded in its first year by the Bill & Melinda Gates Foundation.

The Fletcher School, located in Medford, Massachusetts, is the United States’ first professional graduate school of international relations. Housed at Fletcher, CEME conducts research, training, and consulting in promotion of inclusive economic growth, effective and responsible leadership across borders, and strategic innovation in the emerging and frontier market space.

A complete conference report can be found on CEME’s website: http://fletcher.tufts.edu/ceme.
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ABSTRACT

Between 1997 and 2011, the government of Mexico moved to conduct the bulk of its financial activity electronically. This process, spearheaded by the Treasury Department, was aimed at increasing transparency of government payments, streamlining bureaucratic processes, and cutting government costs. The transition to electronic payments has, however, also accelerated the drive by some government agencies and social welfare programs to extend financial access to millions of the poorest families. While it is too early to tell if the program will succeed, the process by which the Mexican government arrived at this point illustrates the sometimes surprising results of seemingly straightforward government initiatives.

The experience of Mexico raises interesting policy challenges that this case study will seek to further explore. First, how much ex-ante cost/benefit analysis is necessary in order to effectively move the agenda forward toward implementation? Second, the government has mandated a large cash transfer distribution program to be implemented over a relatively short time period. The operational challenges notwithstanding, how does one measure the success of the project? In turn, how does the Treasury use this information to expedite implementation as it nears the 2012 deadline?

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GLOSSARY

Bansefi
A government microsavings bank

Banxico
Central Bank

Dependencias
Government Agencies

Diconsa
Agency managing a network of community-owned stores

Tesorería de la Federación
Treasury Department

Oportunidades
Conditional Cash Transfer (CCT) program

PROCAMPO
Agricultural social welfare program

Secretaría de la Función Pública
Ministry of Public Administration

Secretaría de Hacienda y Crédito Público
Ministry of Finance

Servicio de Administración Tributaria
Internal Revenue Service

Telecomm
Public telecommunications service company

SPEUA
Extended Use Electronic Payments System

SIAF
Integrated Financial Management System
INTRODUCTION

On December 7, 2010, the federal government of Mexico released its budget for 2011, which directed all government agencies, or Dependencias, to coordinate with the Ministry of Finance (MoF) in updating their work plans in order to make all government-to-person (G2P) disbursements electronically. December 2012 was set as the deadline for full implementation. The deadline of December 2012 coincides with the end of President Felipe Calderón’s term and reflects a desire to establish this program as a legacy of his presidency.

According to the MoF, 66% of G2P disbursements budgeted for in 2010 are eligible to become electronic. This applies to 32 programs run by 7 Dependencias and supervised by the MoF, with their selection based upon importance in the budget, number of beneficiaries served, and stability of payment streams. This translates to accommodating payments of about $12 billion USD.\(^1\) While the initial impetus for the movement to electronic payments was to streamline basic government operations, financial inclusion and promotion of socioeconomic welfare have now become key focuses of this program.

Much progress has been made in setting up the necessary infrastructure and obtaining buy-in from various stakeholders, but work still needs to be done to scope out the expected versus actual costs and savings associated with the initiative, as well as to set up an agent network to serve the beneficiaries after the transition.

BACKGROUND

Motivation Behind Going Electronic

The government mandate requiring electronic disbursements is the latest in a long progression of developments in G2P transactions in Mexico. The genesis of the program can be traced back to 1997, when a separate mandate required all government agencies to receive payments electronically through a national system managed by Mexico’s tax authority.\(^2\) Electronic payments are one element of the National Program for Reduction of Public Expenses instituted in March 2010. The National Program emerged from a process initiated in December 2006, when President Vicente Fox

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\(^1\)41.7 billion pesos (currency conversion accurate as of 4/14/2011)

\(^2\)Servicio de Administración Tributaria
signed a decree establishing measures for increasing austerity, discipline, and a reduction in the public administration’s expenses. The goal for annual savings for the federal government is 5% of current total administrative and operational expenses. This initiative is being implemented through a medium-term program developed and implemented by MoF and the Ministry of Public Administration,\(^3\) by means of an interagency agreement published in February 2009. However, the champion of the process is Mexico’s Department of Treasury,\(^4\) which had developed the technological platforms and had driven the collation of data necessary to make the initiative work. The Presidential Decree, setting 2012 as a deadline, had the effect of instilling a sense of urgency to the project and gave both the MoF and the Treasury the incentive to accelerate this transition.

The Treasury viewed the ability of electronic payments to lower administrative and operational expenses as its primary value. However, other key agencies were motivated to support electronic payments for different reasons. The MoF’s Development Bank Unit, alongside the government’s flagship social welfare program, Oportunidades, believed the drive toward electronic payments would benefit the poor and financially marginalized. Their interest stemmed from a belief that electronic payments would translate into a host of benefits to beneficiaries, such as connecting them with the formal sector, reducing corruption, and being able to offer value-added services through the same electronic conduit.

Some advocates proposed that Oportunidades beneficiaries could receive their disbursement electronically, via local stores. This approach was projected to save beneficiaries up to $70 million USD in travel and other costs. Because of this, starting in December 2009, the MoF took a proactive role in pushing the Dependencias responsible for main subsidies programs\(^5\) to begin to develop a work plan on how to transition to electronic payments. Specifically, the MoF asked each Dependencia to collect and provide information on the location of each beneficiary, as well as the value and frequency of subsidies.

\(^3\) Secretaría de la Función Pública
\(^4\) La Tesorería de la Federación
\(^5\) Including SAGARPA, SEDESOL, Reforma Agraria, SEMANART
Developing Infrastructure for E-Payments
The Office of the President sought to centralize all government payments into a unique government account in order to increase efficiency and transparency, while reducing costs. The challenge for the reformers was to coordinate a plethora of different departments and identify the bank accounts and payment processes which could be made electronic.

The next major accomplishment for the government’s electronic payments drive was the development in 1999 of SPEUA, a Mexico’s first real time gross settlement (RTGS) system. This system was created as part of the reform of the large value payment system in Mexico, to increase efficiency of payments and reduce settlement risk of interbank transactions. It was the first step necessary to allow interbank transfers in real time and a vital accomplishment in the government’s goals of developing e-payment capacity.

In 2003, the Treasury Department developed an in-house information system, aimed at automating all government payments. In order to facilitate this automation, the Treasury Department asked all government households, accounting for roughly a quarter of its households. Oportunidades was founded in 2002 and was based on a previous program called Progresa, which was created in 1997. Both Progresa and Oportunidades broke with traditional poverty alleviation programs, in which goods were directly provided to the poor, and instead provided cash to beneficiaries in exchange for their meeting a set of benchmarks that included regular school attendance, regular medical checkups for beneficiary families, and the attendance of health-related workshops, among others. Oportunidades is one of the most well-studied social programs in the world, and external evaluations have shown that it increases school enrollment, especially in rural areas, improvements in nutrition and health status, gender equality, and economic empowerment.

Mexico’s largest agriculture program, PROCAMPO (“Programa de Apoyos Directos al Campo,” or “Farmers Direct Support Program”), supports 3 million producers and covers an area close to 14 million hectares. Other subsidy programs reach over 3 million recipients and amount to approximately 24 million pesos.
bodies to collect and provide information on their payees/beneficiaries. Just as the development of SPEUA laid the technological framework for e-payments, the collation of information on payees from across government into SIAF allowed the government to logistically prepare to shift into e-payments.

The shift had the added benefit of forcing the various government bodies to identify both the nature of the different payment systems as well as their costs. In 2004, the government sought to act on the cost savings and issued a decree requiring all government agencies to receive payments electronically through a national system managed by the Internal Revenue Service.

In 2006, Banxico created a standard for bank transfers. This enabled electronic interbank payments to third parties and opened the door to e-salary payments, which is today one of the main streams of payments passing through the unique account. This shift to the electronic payments of government wages was facilitated by Banxico’s regulation in 2008 that created payroll bank accounts without fees. In July 2010, the Treasury issued an “agreement” with other government entities to promote electronic payments throughout the Mexican government, all funneled through the unique account.

The drive for enacting e-payments was therefore a very gradual and deliberate process undertaken by the government, intended solely to increase efficiency and transparency in government expenditures and reduce administrative and operational expenses. During the early stages of this process, social impact did not appear to feature prominently on the policy agenda.

THE TRANSITION TO E-PAYMENTS

Status Quo of G2P Payments

The current state of funds disbursements varies greatly from program to program.

It could be argued that Oportunidades is a model of efficiency and transparency. No Oportunidades employees handle cash, in order to minimize the opportunity for corruption, while the minimal infrastructure enables 97% of the program’s budget to be delivered to beneficiaries. Payments

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8 Including cash, checks, and direct deposit
9 Clabe Bancaria Unica
to its beneficiaries go through two channels, via cash transfer and through direct deposit to a beneficiary’s bank account. Cash transfers are handled by Telecomm, a public telecommunications service company that also functions as a remittance provider, by Bansefi, a government microsavings bank, or by Diconsa, a government agency that manages a network of more than 22,000 community-owned stores. Oportunidades is still primarily based on direct cash disbursement, with the vast majority of beneficiaries receiving benefits in this way.

The second method involves the direct deposit of funds into accounts provided to beneficiaries by Bansefi. Beneficiaries then withdraw funds via the 513 Bansefi branches or, in a minority of cases, via an ATM card. This form of disbursement is favored by Oportunidades, not only for its cost savings, but due to the increased potential for beneficiaries to save some of the transfer. One of the biggest challenges of the current system arises from its lack of service points convenient to beneficiaries, Another challenge is that recipients usually are unbanked, i.e., they do not have bank accounts to deposit cash in.

One 2005 study estimated that “between 15 and 25 percent of the urban population, and as low as 6 percent of the rural population, [have] access to accounts in financial institutions.” The vast majority of Bansefi’s branches are located in urban areas, making direct deposit disbursements a reality only for the minority of Oportunidades beneficiaries. Most Oportunidades beneficiaries are located in the country’s poorest and most rural areas, in which access to formal financial services is limited.

Transfer mechanisms for other government social welfare programs are not standardized and involve a number of partners, though in general

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10 Banco del Ahorro Nacional y Servicios Financieros

11 The cost is passed on to Bansefi, which incurs the cost of disbursing at branches and maintaining ATM machines.
most mix cash-based and direct deposit disbursements. Each program has its own account at individual banks through which payments are made. ASERCA, a component of the Ministry of Agriculture, for instance, has accounts in 5 or 6 banks and pays different fees to each to process its payments. Both the Treasury and the MoF are currently focusing on mapping the fund-flow landscape of Dependencias, financial institutions, and distribution channels by determining who pays whom for what service and through which mechanism. Identifying this web of relationships is crucial to effectively switching over to a centralized payment system and underscores the need for greater control, transparency, and ability to fight cost and corruption.

Anticipated Setup Post Transition
Once the transition to electronic payments is complete, all Oportunidades beneficiaries will have a debit card. The card can be attached to a transactional savings account at Bansefi, though the savings account is not required. The intent is to eventually ease all beneficiaries into fully transactional savings accounts. Bansefi will open bank accounts for those who don’t have accounts today but are receiving state subsidies. Withdrawal of G2P payments (payments from the government to individuals) will occur within the extensive agent network that Bansefi is in the process of setting up. This agent network will include current participants in the process, such as Diconsa and Telecomm. Diconsa, in particular, is key, as roughly half of its stores are within four kilometers of more than one million unbanked beneficiaries. There is no provision to incorporate mobile banking into this ecosystem yet.

Progress Report
Initial progress was relatively slow due to bureaucratic inertia and hesitance on the part of the Dependencias. It took over 2 years for the Dependencias to provide the MoF and the Treasury with the information regarding the amount and frequency of the transfers to beneficiaries for them to help the Dependencias to write the work plan to implement electronic payments. Neither the Treasury nor the MoF has developed reliable estimates of the costs of payments or the savings they would incur due to this delay, as most of the Dependencias are still in the process of designing a plan to implement the transition.

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12 Apoyos y Servicios a la Comercialización Agropecuaria
13 It is worthwhile to note that the other major type is G2P payments, salaries for public employees, is mostly electronic already—about 50% of salaries are made into bank accounts—and is expected to comfortably meet the deadline for making these payments completely electronic.
Progress to date is varied. As of May 2010, 71% of PROCAMPO payments were made to bank accounts, 15% of Oportunidades payments were made electronically, and 100% of Program for Nutritional Support (PAL) subsidies were made in prepaid smart cards issued by Bansefi. By May 2010, there were 232,172 PAL cards and 38,192 Oportunidades rural cards (Diconsa), amounting to 558 and 108 million pesos, respectively. By 2007, PROCAMPO paid 26.5% of recipients via their accounts, rising to 54% in 2008 and 57% in 2009.

![Graph of number of cards and amount disbursed](image)

Oportunidades, in particular, has made progress in transitioning to electronic payments and has developed a specific plan of implementation by the end of 2011, covering everything from setting up infrastructure to completing negotiations with other implementation partners. Its greatest challenge is figuring out, along with its partners Bansefi, Telecomm, and Diconsa, how to get cash to isolated, small communities in an efficient and less costly manner and build electronic payments ecosystems. If beneficiaries cannot use the electronic form of money in a payments ecosystem, they will simply withdraw all the funds and transform it into cash, thereby reducing the utility of opening bank accounts and making payments electronically. The existence of points of transactions where beneficiaries can use their cards is crucial to the success of the program.

Bansefi is tackling one of the more difficult aspects of this program—building an agent network large enough to disburse payments to every intended recipient and offering account-handling services for those with savings accounts. This network, based in large part on the Diconsa network, will be responsible for 91% of the electronic payments once completed. One of the key challenges for Bansefi and Diconsa involves liquidity management, ensuring that enough funds exist at each Diconsa-affiliated store to satisfy beneficiary payout. In a pilot project, this challenge was
addressed by staggering when beneficiaries could come to the store to receive a full payout. Another challenge is ensuring connectivity in the Diconsa stores, either via a fixed line or GPRS. Mobile network operators have also reportedly been working with Diconsa to address the connectivity issue. At present, most stakeholders are waiting for Bansefi to complete building its agent network, which is mostly limited to Diconsa stores.

In preparation for this transition, the government has implemented some changes in the regulations related to agent banking, payroll accounts, and simplified accounts with lower anti-money laundering (AML) requirements. Diconsa stores will need 4,806 POS systems with digital biometric capability.\(^{14}\) In addition, Bansefi and Oportunidades have designed an education and awareness campaign for recipients to accept and use electronic means.

**Expected Utility and Associated Trade-offs**

In order to measure the magnitude of savings expected from the transition to e-payments, the Treasury has tasked applicable government agencies with identifying the average cost of bank fees they pay for transfers and other expenses. It is assumed that this is where most of the direct savings will come from, although it is difficult to confirm because the line item in the balance sheet where bank fees are recorded has other items included in it too.\(^{15}\)

The electronic G2P will almost certainly lead to savings for the government, even though there is the overhead of setting up new working relationships that are nationwide in scale. For example, the contract between Banxico and the Treasury for the payments is based on a fixed fee, regardless of the number and value of transactions processed through SPEI. The advantage is that the Treasury will be signing bulk contracts with the banks, increasing its bargaining power and reducing costs.

To illustrate possible savings, consider the fact that banks charge an average of 4 pesos per payment via Electronic Funds Transfer, depending on the negotiations/agreement between each bank and each *Dependencia*. In contrast, Banxico charges the Treasury only 0.4 cents per transaction if at night and 50 cents per transaction during the daytime. Thus,

\(^{14}\) Biometric POS systems are materially more expensive than card-only POS systems, so Diconsa would be saddled with this increased cost should this scenario come to fruition.

\(^{15}\) As of March 2011, the agencies have conducted the necessary research, and the Treasury is analyzing the information to come up with a global “savings” number.
whether the Treasury makes 1 million transactions through SPEI or just one, it pays the same in fees to Banxico.

For social programs, this will reduce inefficient uses of funds and allow the social programs to offer a range of products to their beneficiaries. These individuals are often not able to access credit and products such as housing co-finance even when such services are specifically designed by the government to reach the poor, because they lack a verifiable steady income. The G2P stream becomes proof of income, thus facilitating access to financial products.

The trade-off for social programs such as Oportunidades is that when it disburses in cash, it does so when people gather at one place and time, which makes it easier and cheaper to conduct the other elements of the program, such as training, monitoring of fulfillment of conditions, etc. With electronic payments allowing recipients to withdraw the money at the most convenient time and place, the program may face difficulties in gathering beneficiaries for other kinds of training.

The MoF notes that while intuitively they know that recipients of cash transfers would save time and money to get their money, it has no empirical research supporting this hunch. The MoF estimates that simply by transferring the money directly from the Treasury to the payer bank (i.e., without going through a Dependencia’s bank account first), there were savings of about 14.5 million pesos between 2008 and 2009. Beneficiaries can save 88% of the transaction costs and 87% of the time in accessing the benefit, according to research conducted by the Bill and Melinda Gates Foundation between 2006 and 2008. As for savings for the government, it can only be determined after analysis of the aforementioned work plans are written by the Dependencias with MoF’s assistance.

**IMPLEMENTATION CHALLENGES**

**Doing More with Less:** Prior to the decree issued in December 2010, which set 2012\(^{16}\) as the deadline, the Treasury Department was working with the government agencies in order to undertake gradual changes that involved developing in-house systems to implement part of the program. Most of the focus up until that time had been on salaries. Implementation

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\(^{16}\)2012 is the end of the current government’s tenure.
was accelerated precisely when departments were experiencing a reduction in personnel or at least a freeze in new hiring as part of a general government policy to rationalize expenses and reduce government expenditure. The unit dealing with this program within the Treasury has only five individuals at the moment, including the Director General.

**Negotiating with Dependencias:** Dependencias were concerned that beneficiaries would not accept an electronic proof of payment. For example, Oportunidades still makes recipients sign a paper receipt when receiving their allowances. A recent amendment to the fiscal code that explicitly recognizes the legitimacy of the electronic invoice/receipt\(^{17}\) helped overcome this objection. Resistance also mounted to the idea of payments being made by an entity other than Dependencias themselves, particularly with regard to subsidies.

**Accommodating Labor Laws:** An obstacle to a universal implementation of G2P salary payments is a provision in the labor law that protects the right of employees to receive salaries in cash at their workplace. The labor unions fight for this right and often negotiate with employers to pay by cash or check in the workplace. Solutions to this would be negotiations between each employer (Dependencia) and relevant unions or an amendment to the labor law, which has been proposed by the Ministry of Labor, though such arrangements would not be retroactive and would not apply to contracts already in effect.

**Pacifying Banks:** Banks would be one of the major losers from this program. They would lose an important source of revenue and have much less power to negotiate contracts, since they would now have to deal with the Treasury and not with each Dependencia. Dependencias would need to close bank accounts, since the Treasury would be making payments directly into accounts of the beneficiaries. They would need to identify the relevant bank accounts and close all agreements and contracts with banks. Banks would lose revenue not only from fees, but also from interest on money sitting in the Dependencias’ accounts before being paid to the payees. Such lags average 3–5 days, and are often predetermined through negotiations between the bank and the Dependencia.

An example of the interplay between these issues is the interactions between Oportunidades, Diconsa, Telecomm, and Bansefi. All three entities have a contract with Oportunidades to disburse the bimonthly

\(^{17}\) Factura electronica
subsidies. To make payments electronically using cards and biometric-enabled POS systems, Oportunidades will have a single contract with Bansefi, and Telecomm and Diconsa would be banking agents of Bansefi. Although the MoF itself does not have a preference for a private or public bank since the defining criteria is a branch network for disbursement, Oportunidades, for its part, prefers to partner with Bansefi because it has an extensive network in rural areas, an institutional mandate to serve poor populations, and its business is not attractive to the private sector, which to date, has shown no interest in managing subsidies for government beneficiaries.

CONCLUSION

Two particular points stand out from this initiative to implement electronic disbursements of social welfare G2P transfers:

First, a program of this scale will arguably be implemented successfully because it appeals to the multiple stakeholders involved. What started out as an exercise to attain efficiency gains by the Treasury found purpose within MoF and the Dependencias as a way to promote financial inclusion. There is a confluence of interests that gives the program a momentum that each stakeholder would be unable to impart on its own.

With just under a year to go in President Calderón’s term, it is too early to evaluate the success of this program. At the time this case study was published, eighteen months remained to complete implementation of the program. None of the Dependencias have completed the feasibility analysis that outlines savings and costs associated with the program. Bansefi’s agent network, on which the distribution of the G2P payments will depend, is incomplete. This may be a reason for concern for some, and as the deadline gets closer, the Treasury and/or the MoF will look to expedite implementation.
APPENDIX 1: TIMELINE

1997
- Treasury begins to centralize all government payments into a unique account

1999
- Banxico develops Mexico’s first RTGS

2003
- Automation of some government payments

2006
- National program for reduction of public expenses initiated

2010
- Federal budget requires all government agencies to make all disbursements electronically
Bibliography


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Case Study

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