Executive Summary

1. Remittance flows will decrease temporarily in 2009. The main players are unchanged but some interesting pilots have appeared on the radar screen.


- The Cash-to-Cash remittance product, offered by Money Transfer Organisations such as Western Union, is still overwhelmingly leading (>80%). Yet some threats are underway from pilots that use mobile phones for (part of) the remittance chain (Obopay; G-Cash/Smart and M-Pesa with Western Union; cashless use of ATMs).

- Most promising pilots consist of linkages between mobile-payments systems and Card schemes or Money Transfer Organisations (e.g. Western Union), connecting a broadly available channel (mobile phone) with the global standards and networks of the Card scheme or the MTO.

- The success of a remittance service is crucially dependent on the ‘first mile’ and ‘last mile’, i.e. the distribution network at the end of the sender and at the end of the receiver.

2. Mobile payments are often linked to remittance products, even though M-remittances are still in a nascent phase. However, it is observed that innovations in remittances (e.g. mobile banking, cardless withdrawals from ATMs, etc) are preceded by the deployment of these innovations in the domestic payments system.
1 Introduction

Remittances are, roughly speaking, defined as the money flows that immigrant workers send home to their relatives. The current economic crisis has an impact on remittance flows worldwide, which are expected to show a temporary decrease in 2009 and a standstill in 2010. Nevertheless, it is observed that many actors in remittances continue to develop new products (e.g. prepaid cards) and channels (such as mobile phones) or enter into new alliances to improve remittances services.

The objective of this article is to present the most important remittance products types, the players and the networks used to channel remittances. Also, the latest innovations and their potential will be assessed (e.g. mobile-payments, pre-paid Cards, ATMs1).

In the following section, the methodology and the definitions are explained. This is followed in section 3 by recent data on remittances flows as well as a typology of the main remittance products. In section 4, recent pilots and innovations and their potential impact are discussed. An overview of the main players in remittances is presented in section 5 and final observations and conclusions can be found in the last section.

It is concluded that the ‘cash-to-cash’ remittance product, which is offered by the Money Transfer Organisations (MTOs) is still overwhelmingly leading (>80% of the market). However, it could meet with future competition from innovations such as Person-to-Person (P2P) mobile payments, (pre-paid) cards or cardless withdrawals from ATMs.

The most promising innovative pilots consist of linkages between mobile-payments systems and Card Schemes or MTOs, connecting a broadly available channel as the mobile phone with the global standards and networks of the Card Scheme or the MTO.

Eventually, the success of a remittance service will be heavily dependent not only on the technology used but perhaps even more on the ‘first mile’ and ‘last mile’, e.g. the entire distribution chain, starting from the sender who deposits the money until the receiver who obtains access to the remittance.

2 Methodology and Definition

2.1 Methodology

The research is based on both desk research and interviews with specialists and solution providers in the field of remittances. Quantitative data used are mainly based on World Bank statistics. Only ‘formal’ flows for remittances are presented, derived from IMF Balance of Payments data and other sources2 3. This implies that informal

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1 ATM= Automated Teller Machine, Cash Dispenser
3 The World Bank has been reporting these numbers since early 2000, thereby capturing only the formal money transfers. It uses many different sources available (IMF’s Balance of Payments yearbook, World Bank country desks, central bank data) to derive its numbers. World Bank’s figures are not consistent in definition and at times incomplete, but nonetheless give the best indication of global trends and volumes.
systems, such as hawala or bus and truck drivers\(^4\), are out of scope. This article is based on an internal ING research memo, issued in the spring of 2009\(^5\).

### 2.2 What are remittances?

Remittances are defined as private cross-border money transfers from migrant workers to their countries of origin. Generally speaking, the concept includes flows both from formal and informal service providers (such as MTOs, banks, hawala). However, reliable estimates about the size of remittance flows are only available based on the formally recorded data. It is assumed that the informal flows have a similar size as the formal flows recorded by the World Bank\(^6\).

Remittances are quite a hype and a container concept, as they are mentioned linked to mobile payments, cards, microfinance, etc. Indeed, remittances - as a specific payments product or service - can be viewed from various angles. It is helpful to distinguish the following dimensions from which a remittance product can be looked upon (refer to Figure 1):

- The distribution channel(s) used: bank branch network, agent network, mobile phone network, internet, POS\(^7\), ATM, or a combination;
- The entity offering the service: MTO, Bank, Telephone company (Telco), Payments processor, Cards scheme;
- The personal device used: cash, account, (pre-paid) card (yes/no linked to an account), a mobile phone.

**Figure 1 The dimensions of remittances**

\(^4\) As an example Polish and Romanian migrants in Europe send money home via truck and bus drivers.

\(^5\) The ING unit Payments Retail Europe investigates innovations in payments, assessing the potential for ING business units.

\(^6\) Orozco, 2003; Freund and Spatafora, 2005

\(^7\) POS= Point of Sale terminal, for example in a shop
3 Remittances: recent data and main products

3.1 Remittance flows
For 2008, officially recorded remittances flows worldwide are estimated at US$ 433 billion, of which $328 billion was transferred to developing countries (refer to table 1). In addition, it is assumed that approximately the same amount is transferred via informal channels.

Remittances inflows doubled between 2003 and 2008 but the growth slowed down significantly in 2008. A decrease is expected in 2009 followed by stabilisation in 2010. This is explained by the current economic downturn and slowdown in migration flows. The regions most seriously affected by the decrease in 2009 are Africa and Europe. Nevertheless, remittance flows are rather resilient, especially compared to other capital inflows such as Foreign Direct Investment. This is explained by the fact that the ‘stock’ of migrants from developing countries is unlikely to decrease (note that official migration balances are still positive and that remittances from the Gulf States to Asia are still growing).

Table 1 remittances flows received

<table>
<thead>
<tr>
<th>Annual flow, in $ bn</th>
<th>2007</th>
<th>2008e</th>
<th>2009f Base</th>
<th>2009f low</th>
<th>2010f Base</th>
<th>2010f low</th>
</tr>
</thead>
<tbody>
<tr>
<td>World</td>
<td>380</td>
<td>433</td>
<td>304</td>
<td>295</td>
<td>313</td>
<td>294</td>
</tr>
<tr>
<td>Developing</td>
<td>285</td>
<td>328</td>
<td>295</td>
<td>294</td>
<td>313</td>
<td>294</td>
</tr>
<tr>
<td>Annual growth, in %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Developing</td>
<td>25.2%</td>
<td>14.8%</td>
<td>-7.3%</td>
<td>-10.1%</td>
<td>2.9%</td>
<td>-0.3%</td>
</tr>
<tr>
<td>East Asia and Pacific</td>
<td>23.4%</td>
<td>19.6%</td>
<td>-5.7%</td>
<td>-8.8%</td>
<td>3.0%</td>
<td>-0.5%</td>
</tr>
<tr>
<td>Europe &amp; Central Asia</td>
<td>36.5%</td>
<td>12.0%</td>
<td>-14.9%</td>
<td>-17.2%</td>
<td>3.0%</td>
<td>0.5%</td>
</tr>
<tr>
<td>Latin America and Caribbean</td>
<td>6.6%</td>
<td>2.1%</td>
<td>-6.9%</td>
<td>-9.4%</td>
<td>1.0%</td>
<td>-2.0%</td>
</tr>
<tr>
<td>Middle-East and North Africa</td>
<td>21.4%</td>
<td>8.6%</td>
<td>-6.2%</td>
<td>-9.8%</td>
<td>3.3%</td>
<td>-0.4%</td>
</tr>
<tr>
<td>South Asia</td>
<td>40.1%</td>
<td>32.8%</td>
<td>-3.6%</td>
<td>-6.4%</td>
<td>3.9%</td>
<td>0.5%</td>
</tr>
<tr>
<td>Sub-Saharan Africa</td>
<td>47.3%</td>
<td>6.5%</td>
<td>-8.3%</td>
<td>-11.6%</td>
<td>4.4%</td>
<td>1.1%</td>
</tr>
</tbody>
</table>

e = estimate, f = forecast

3.2 Main product types
As shown in Figure 1, a remittance product can combine different channels and devices. In order to make a sensible assessment of the feasibility of a certain combination it is important to obtain a complete overview of a remittance product: from the ‘first mile’ (how does the sender deposit the money) to the ‘last mile’ (how does the money or value reach the recipient). A remittance product can be categorised as follows:

- Cash-to-Cash

The most popular form, estimated to cover about 80-90% of the remittance market. It is typically offered by the MTOs, also in combination with bank partners (estimated market shares 2008: Western Union circa 20% of global recorded flows, other important players are Moneygram and Vigo).

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8 Orozco, 2003; Freund and Spatafora, 2005
9 Source: World Bank, Ratha, Mohapatra and Silwa, July 2009
10 Source: World Bank, Ratha, Mohapatra and Silwa, July 2009
11 BAI Banking Strategies, November/December 2008
12 Calculation based on figures presented in Western Union, 2009
• **Account-to-Account**

The standard credit transfer, offered by banks, covering an estimated 5-7% of the remittance market (in 2006). Used when both sender and recipient are ‘banked’ (for example an expat employee of a corporate firm who sends money home to his relatives who also have bank accounts). SWIFT also developed a new service in this area, SWIFTNet Remittances, a money transfer solution that banks can link to with special functionalities (e.g. tracking and tracing).

• **Account-to-Cash/Card/Mobile**

This category covers more recent remittances services, such as transferring from an account in the US to a pre-paid card in Mexico or India. The market share of this category in 2006 was estimated at less than 2%, so it is (still) only a small segment. However, some recent innovations are fuelling this type of services, especially in corridors that have many unbanked customers at the receiving end (Asia, Africa). Often a card is used, which requires access to a POS/ATM network. It can also be combined with mobile phones. Some pilots of ICICI and the Card schemes exist, often directed towards India. For more details and examples, refer to the Annex.

• **Cash-to-Account/Card**

This exists, e.g. in some Western Union products, but its clients still have a preference for the traditional cash-to-cash product.

### 4 Recent innovations and their potential

#### 4.1 An overview

A large number of initiatives were developed over the last years that have a link to remittances. Some are exclusively focused on remittances (for example ICICI remittance card), others are a payments solution that present remittances as an attractive use case (for example Mastercard MoneySend or G-Cash). For a broad overview of initiatives of the period 2007-2009, refer to the Annex. Many of them are still in the pilot phase and often it is unclear whether the pilot has proved to be a success.

It is complex to analyse the pilots, as they do affect different dimensions of remittances. Therefore, pilots were categorized according to the distribution channel they focus on, as that proved the best way to understand what is happening. The main channels distinguished are the Mobile phone, Cards & ATM/POS networks and Internet (at the side of the receiver and/or sender of the money).

As a first observation, most pilots are in the area of Mobile phone and Cards. Only a few pilots are making use of the Internet. Most mobile phone pilots are directed towards African countries. Pilots with cards or internet solutions are more focused on South America and Asia.

Another noteworthy fact is that in many pilots the sender of money needs to have a bank account and in some case this also applies to the receiver (making it an account-to-account product). This will inhibit the use by those migrants that are unbanked.
Finally, in the Annex some ICT-solutions are presented that cannot be linked to a specific channel (see under ‘Technical Solutions). These solutions can be used for channelling, tracking and tracing remittances. However, they need to be deployed by a distribution network (for example a bank or other agent network) in order to be effective. SWIFTNet Remittances and ARIAS are examples of these.

4.2 Promising pilots

To assess the future potential of specific pilots to capture remittance business at a significant scale, two factors are considered particularly relevant:

1. To what extent is the pilot offering a full remittance service, taking into account the entire business chain ‘from the first to the last mile’? Many pilots are well developed from a technical perspective, but sometimes not well embedded in a complete business model that also includes the networks at the sending and receiving end to reach the customers;

2. How quickly is the pilot being picked up by clients, i.e. a proof that the business model answers to the client’s needs.

Based on these criteria some pilots attract attention:

Western Union with G-Cash/Smart and M-Pesa (account/cash – to – mobile)

The successful domestic mobile payments services in the Philippines (G-Cash/Smart) and Kenya (M-Pesa) entered into pilots with Western Union. These are focused on cross border transfers for respectively the corridors UK -> Kenya and Hawaii, Hong Kong, Singapore, UAE -> Philippines. Pilots are still in the start-up phase and report mixed successes, mainly dependent on the functioning of the ‘first mile’ in the sending country. But the business model appears to be sound: at the receiving end there is a successful Mobile payment provider and at the sending side the agent network of Western Union.

In August 2009, Moneygram announced its cooperation with LUUP, a mobile payments solution provider. This could evolve into a similar remittance service, once LUUP is also being accepted widely at the receiving end.

OBOPAY (cash/account – to - mobile/card)

Obopay is a mobile payments service that started in the US, available as ‘stand-alone’ Person-to-Person (P2P) payments network. It is also offered as additional bank account functionality: e.g. Citibank US offers Obopay to account holders. It is a mobile wallet for any type of phone that can be uploaded from any US bank account or with cash at a US retail agent network. Money can be transferred to other Obopay account holders, to bank accounts or converted into cash at an ATM. To that end Obopay started a co-operation with Mastercard. In 2008, Obopay expanded to India with YES Bank. This should open the possibility to also remit money from the US to India. Lastly, in August 2009, Nokia Money was launched, based on the Obopay platform. The Obopay business model has been worked out well (refer to figure 2) and Obopay is backed up by some substantial partners. However, the difficulty for assessing the success of Obopay is that they do not provide data on how many people are using it in the US or for remitting money to India.
ABSA, GARANTI AND PIRAEUS BANK use ATMs ‘cardless’ (account-to-cash)

ABSA (South Africa), Garanti (Turkey) and Piraeus (Greece) offer their account holders the possibility to send money to someone without a bank account or Card. The receiver withdraws the money from an ATM and, instead of a card, uses a PIN code (sent by SMS) and an additional security check (exact amount or other number). This is only possible at ATMs owned by the respective banks. Piraeus bank offers this service at their ATMs in both Greece and Romania, de facto making it a cross border service.

5 Remittances: main players

5.1 The private sector

Looking at the market, the products offered and the innovative pilots, what can be said about the main players in remittances? In brief:

- Western Union is the MTO with many innovative pilots, and actively cooperates with Telco’s and the GSM-Association (GSMA). This is explained by the fact that money transfers and remittances are their core product and competition is intensifying, mainly due to new players such as Telco’s. Recently, Moneygram also announced its cooperation with LUUP, focused on international remittances by mobile phone.

- Card schemes VISA and Mastercard have been working on money transfer for a while, developing ‘Visa Money Transfer’ and ‘MC Money Send’, focusing on ‘Card-to-Card’. However with limited success, as the product was not really being picked up by its members. Both are now making a new start, linking the product directly with mobile payments (and VISA also with Online-payments). Mastercard started with Obopay in the US and is now extending to India. VISA started a pilot in 2008 with US Bank and has pilots upcoming in Brazil and India. However, card-to-card solutions do have the issue that the recipient in most cases needs to be banked.
Many recent innovations are undertaken by or have Telco’s or Mobile payments providers participating in it. Especially Vodafone seems serious as well as some African and Middle East Telco’s. These pilots also use the agent networks of Telco’s to convert cash into the mobile wallet (mobile money account). Regulators are carefully watching these pilots because they effectively create alternative domestic payments infrastructures (focused on low-value payments). Once these providers enter into cross-border transfers most pilots are focused on corridors with Africa and India.

Some global banks take a special interest in remittances and participate in various pilots: examples are Citibank (with QuikRemit, Obopay), Barclays (UK to India and Kenya and subsidiary ABSA in South Africa) and ICICI (Indian Bank). In addition, large banks in important migration destinations (e.g. US, UK, Spain) offer remittance products. Sometimes this is limited to the traditional account-to-account product (HSBC) but in other cases more tailor-made solutions for the migrants exist: e.g. the Spanish banks (BBVA, Santander) offer account-to-cash solutions.

Local banks in specific countries or corridors develop services, often limited to their own network. Piraeus in Greece and Romania, ICICI in India and US/UK.

ATM-providers are following the market and basically can provide all type of functionalities (also cardless withdrawals in combination with PIN codes sent by SMS, passport verification, etc). This seems especially relevant for countries in Central and Eastern Europe and the Middle East, which have a relatively developed ATM and POS network as well as many unbanked persons.

There are various providers offering a ‘money transfer solution’, but not the distribution network, such as ARIAS, SWIFTNet workers’ remittances, IRnet, QuikRemit (owned by Citi), refer to the last part of the Annex. These solutions need to link with parties offering the network, to provide for the first and last mile to reach the customer. Finally, cross-border E-wallet payments systems (such as Moneybookers, Paypal) do require customers to have a bank account to fund the E-wallet.

5.2 Involvement of the public sector

Many multilateral banks, donors and governments have shown an increasing interest in worker’s remittances, which are considered an important and resilient source of money inflow for developing countries. Also, there is a need to regulate these flows, to prevent Anti Money Laundering and terrorism financing. For that reason, providers of remittance services are required to have proper Know-Your-Customer (KYC) procedures linked to their remittance products (such as identification and checking with freeze lists). Remittances are also linked with improving access to financial services, a topic which is on the agenda in many countries.

In addition, IMF and World Bank are building up research and statistics. Also grants are available for pilots to promote access to formal and less expensive money transfer services then currently available and to foster innovations such as mobile banking (DFID, GSMA, CGAP, Gates Foundation and Omidyar Foundation all offered grants recently).
Finally, as mentioned before, the regulators of the financial sector (the Central Bank or the Ministry of Finance) are carefully watching pilots with mobile payments. The reason is they effectively create an alternative payments system and customer deposits that are held in ‘mobile wallets’ with a Telco or an M-payments provider. Both are issues that fall under the responsibility of the monetary authorities. Consequently, in some countries the entities offering mobile payments services are supervised by the Central bank. In other countries, such as India, it is required by the Central Bank that a regulated bank must be involved in a mobile payments solution.

6 Conclusions and final observations

Looking at recent pilots and main players it is concluded that:

- The cash-to-cash remittance product is still overwhelmingly leading (>80%), despite some threats coming from P2P mobile payments, (pre-paid) cards and cardless withdrawals at ATMs.

- The success of a remittance service is crucially dependent on the ‘first mile’ and the ‘last mile’, e.g. the distribution network at the side of the sender and at the side of the receiver. Promising pilots (e.g. Obopay) have a well-developed model that covers both ends, combining the strengths of different business partners. But note that in many pilots an account is still needed at the sending end. This will inhibit their use by unbanked migrants.

- Many innovations regarding mobile payments which have been mentioned in this inventory were initially developed for domestic payments, and not for international remittances (Obopay, G-Cash, M-Pesa). However, once succeeding in reaching unbanked customers their next step is towards cross-border payments, as shown by recent pilots.

- The most promising pilots seem to be the linkages between mobile-payments systems and Card schemes or MTOs, connecting the broadly available channel of the mobile phone with the global standards and networks of the Card scheme/MTO.

- Regulatory issues could arise on the Know-Your-Customer (KYC) issue for the cardless withdrawal at ATMs or the fact that mobile payment solutions involve holding deposit balances in mobile accounts (‘Mobile wallet’). However, banking regulators in some countries seem to be somewhat flexible in allowing non-banks to enter, as they are interested in developing a local payments infrastructure.

- As a final observation, an interesting issue is how the pricing of remittances services will develop. Remittances in the formal channels are considered expensive (an average of 5-15% of the amount sent\textsuperscript{13}). But for the time being, the existing MTOs will dominate the market and they are also quite active in many pilots, which may impede lower pricing. At the same time, the deployment of more electronic means for the remittance transfer (in stead of agents) in combination with access of new players such as Telco’s and Card schemes could create a more competitive arena in which prices go down.

\textsuperscript{13} World Bank 2006 and http://remittanceprices.worldbank.org
## ANNEX Recent Initiatives in Remittances, by channel

<table>
<thead>
<tr>
<th>Name</th>
<th>Corridor</th>
<th>Entity</th>
<th>Product type</th>
<th>Device and Network</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHANNEL: MOBILE PHONE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Union (WU)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Pilot WU-Orascom 2008 | Sending: US, Middle East, Asia, Europe  
Receiving: Algeria, Pakistan, Egypt, Tunisia, Bangladesh | WU (MTO) Orascom (Telco, 77 mln subscribers comprising Djezzy (Algeria); Mobilink (Pakistan) Mobilin (Egypt), Tunisiana, Banglalink, Telecel Zimbabwe) | Cash-to-Mobile | • Mobile phone  
• Select agent locations of WU and Orascom Mobil network.  
• 'Mobile wallet software’ with the Telco |
| Pilot WU-Safaricom 2008 | Sending: UK (Reading)  
Receiving: Kenya | WU (MTO) Vodafone and its subsidiary Safaricom (Telco) M-Pesa (M payments service) | Cash to-Mobile  
Cash-to-Cash | • Mobile phone  
• Select agent locations of WU in UK (plus Internet channel)  
• Safaricom agents network  
• M-Pesa functionality of Safaricom |
| Pilot WU-Globe Telecom & Smart Communications 2008 | Sending: Hawaii, UAE, HK, Singapore  
Receiving: Philippines | WU (MTO) Globe (Telco) SMART (Telco) | Cash-to-Mobile  
Cash-to-Cash | • Mobile Phone  
• Smart and G-Cash Mobile network and their Agent Networks  
• G-cash and Smart Mobile wallet |
| Obopay | | | | |
| Obopay and YES Bank 2008 | Sending: India  
Receiving: India | Obopay (mobile payments service) and YES Bank | Account-to-Account | • Mobile phone  
• ATM network YES |
| Obopay and Mastercard (MoneySend) June 2008 | Sending: US  
Receiving: US | Obopay (Mobile payment service) Mastercard (Card Scheme) Green dot (retailer) Banks | Mobile-to-Mobile  
Mobile Account-to-Mobile/Card Cash-to-Mobile/Card | • Mobile phone  
• Card  
• ATM network (MC)  
• Mastercard Moneysend network with Obopay platform  
• Internet (to open an Obopay account)  
• Greendot |
| Grameen-Obopay Bank a Billion Initiative Aug 2008 | ? | Grameen Solutions Obopay India | ? | • Mobile phone |
| Monegram | | | | |
| Monegram and LUUP August 2009 | Sending: global  
Receiving: global | Monegram (MTO) Luup (Mobile payments solution) | Cash-to-mobile? Mobile-to-mobile? | • Agent network of Monegram?  
• Mobile |
### Other TELCO’s initiatives

<table>
<thead>
<tr>
<th>Name</th>
<th>Corridor</th>
<th>Entity</th>
<th>Product type</th>
<th>Device and Network</th>
</tr>
</thead>
</table>
| Orange Money Mobile Payments & Money Transfer (pilot) 2008 | Sending: Ivory Coast Receiving: Ivory Coast | BNP Paribas (Bank), pilot in Ivory Coast via subsidiary BICICI Orange (Telco), starting with Orange subsid. in Ivory Coast. Later on Jordan, Mali, Senegal, Kenya | Mobile-to-Mobile | • Mobile phone, and you need to open an ‘Orange Money account  
• Agent networks of Orange, BICICI and authorised distributors |
| Zap | First domestic: Kenya, Tanzania, Uganda. Later on international. | Zain (Telco)- Kuwaiti owned, 60 mln subscribers in M-East and Africa. Citigroup and Standard Chartered (Banks) | Mobile-to-Mobile Account-to-Mobile | • Mobile phone, need to open Zap account  
• Agent network of Zain (to replace Sokotele service)  
• Oberthur technologies |
| MTN Uganda | Domestic: Uganda | MTN Uganda (Telco) | Mobile-to-Mobile | • Mobile phone  
• MTN agent network |
| Saraf Mobile 2009 | Sudan and later on 22 countries in Middle east and North Africa | Mi-Pay (Mobile payments solution) Isys trading Group (System provider for Telco’s) | ? | • Mobile phone |
| Monitise East Africa 2008 | Pilot In Uganda Later on Congo, Ethiopia, Kenya, Rwanda, Tanzania and Zambia | Monitise (Mobile Payments solution) E-Fulusi Africa (Mobile Wallet provider to Tanzanian Telco’s) | ? | • Mobile phone |
| Belgacom HomeSend 2009 | Sending: Belgium Receiving: Country in North Africa | Belgacom ICS (Telco) eServGlobal (IT solution) | Mobile-to-Mobile | • Mobile phone |

### CHANNEL: CARDS & ATM/POS

<table>
<thead>
<tr>
<th>Name</th>
<th>Corridor</th>
<th>Entity</th>
<th>Product type</th>
<th>Device and Network</th>
</tr>
</thead>
</table>
• ATM network (VISA) |
• Card  
• Online (via Internetbanking)  
• ATM network (VISA) |
• ATM network (MC)  
• Mastercard MoneySend service |
• ATM network (MC)  
Only initiation of the transfer at the ATM?  
• Mobile phones? |
### Remittances - how to shorten the long way home

#### September 2009

<table>
<thead>
<tr>
<th>Name</th>
<th>Corridor</th>
<th>Entity</th>
<th>Product type</th>
<th>Device and Network</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHANNEL: CARDS &amp; ATM/POS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mastercard MoneySend</td>
<td>Various Asian Countries</td>
<td>Card-to-Card Account-to-Card</td>
<td>Card, ATM network (MC)</td>
<td></td>
</tr>
<tr>
<td>Garanti Bank, Turkey</td>
<td>Sending: Turkey Receiving: Turkey</td>
<td>Garanti (Bank) Account-to-ATM Cardless cash withdrawal</td>
<td>Mobile phone (SMS-message), ATM network Garanti</td>
<td></td>
</tr>
<tr>
<td>ABSA CashSend</td>
<td>Sending: South Africa Receiving: South Africa</td>
<td>ABSA (Bank, subs. of Barclays) Account-to-ATM Cardless cash withdrawal</td>
<td>Mobile phone (SMS-message), ATM network ABSA</td>
<td></td>
</tr>
<tr>
<td>Piraeus Bank</td>
<td>Sending: Greece Receiving: Greece, Romania</td>
<td>Account-to-ATM Cardless cash withdrawal</td>
<td>Mobile phone (SMS-message), ATM network Piraeus</td>
<td></td>
</tr>
<tr>
<td>ICICI Remittance Card</td>
<td>Sending: US, Canada, UK, UAE, Quatar… Receiving: India</td>
<td>ICICI network Account-to-Card</td>
<td>Card, Online, ATM Network ICICI Transfers are being done online via Money2India (various methods)</td>
<td></td>
</tr>
<tr>
<td>ICICI smsNcash Service August 2008</td>
<td>In India</td>
<td>ICICI Account-to-Cash</td>
<td>Mobile phone (to receive SMS transfer), ICICI branch network</td>
<td></td>
</tr>
<tr>
<td>NCR with FINO 2008</td>
<td>In India, pilot in Dharavi, Mumbai</td>
<td>NCR (POS/ATM/Self Service machines) FINO (Smarts cards for Microfinance)</td>
<td>Cash-to Card Card-to-Cash</td>
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</tbody>
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<tr>
<th>Name</th>
<th>Corridor</th>
<th>Entity</th>
<th>Product Type</th>
<th>Device and network</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHANNEL: INTERNET</strong></td>
<td></td>
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<tr>
<td>Barclays Online Money transfer 2008</td>
<td>Sending: UK Receiving: India</td>
<td>Barclays (Bank) TimesofMoney (Online Payment services processor) Account-to-Account</td>
<td>Online service, Barclays Bank network in UK and India</td>
<td></td>
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<tr>
<td>ICICI <a href="http://www.money2India.com">www.money2India.com</a></td>
<td>Sending: Worldwide (ICICI branches), mainly US and UK Receiving: India</td>
<td>ICICI (Bank) and partners: Wells Fargo (US), Lloyds TSB (UK); Account-to-account Account-to-Card</td>
<td>Online service, Branch network of ICICI</td>
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<tr>
<td><strong>CHANNEL: VARIOUS</strong></td>
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<tr>
<td>Mukuru service, SMS-based coupon remittance programme 2007</td>
<td>Sending: UK Receiving: Zimbabwe, Botswana, Ghana, Kenya, Malawi, Nigeria, South Africa, Zambia</td>
<td>Mukuru (?) Moneybrokers (payments service provider) Account-to-Mobile</td>
<td>Payments transfer networks, Mobile phone (sms messages), Sending side: Uploading from bank accounts Receiving side: Agent networks of stores, petrol station and banks where vouchers can be redeemed for goods</td>
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<tr>
<td>MoneyBoxAfrica with Paybox</td>
<td>Nigeria Germany</td>
<td>MoneyBoxAfrica Paybox (IT vendor)</td>
<td>?</td>
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<td>MoniHome</td>
<td></td>
<td>Monitise (mobile payment solution)</td>
<td>?</td>
<td>?</td>
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<tr>
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</tbody>
</table>
| ARIAS           | Various, Latin America -US and starting in Europe-Africa | Banks or Microfinance Institutions (MFIs) to link to it                      | Cash/Account-to Cash/Account | • ARIAS solution  
• Bank and MFI branch network |
| SWIFTNet Workers’ Remittances Pilot starts in 2009 Q1 | Banks to link to it                                                                          | Cash/account-to cash/account                                        | • SwiftNet solution  
• Bank branch network |
| IRnet of WOCCU  | To Guatemala                                   | Banks or MFIs to link to it                                                  |                            | • IRnet solution  
• Bank and MFI branch network |
| White-label platform called QuikRemit, Owned by Citi | Various, Latin America -US India –US/UK Etc  | Bank or agent network to link to it                                          | Account-to-account Account-to-Cash | • QuikRemit Solution  
• Bank or other network |
| UMVA 2008       | Sending: Belgium  
Receiving: Ruanda                          | UMVA own agent network in Belgium                                            | Cash-to-account Cash-to-cash                  | • UMVA solution  
• UMVA own agent network in Belgium  
• Bank and MFI network |
References

ARIAS Financial Solutions, Microfinance International Corporation, website www.ariasfs.com and internal documents.


CGAP, October 2008, Focusnote 50, Realising the potential of branchless banking: Challenges Ahead, Ignacio Mas.

CGAP, December 2008, Focusnote 51, Going Cashless at the Point of Sale: Hits and Misses in Developed Countries, Ignacio Mas and Sarah Rotman.

Citibank, websites citi.obopay.com and www.citicorp.com


Finextra, various articles on innovations (website www.finextra.com).


G-cash, website gcash.globe.com.ph.


M-Pesa, website safaricom.co.ke and internal documents.

Mastercard, website and internal documents on MoneySend.


MicroSave, 2009, Briefing Note # 66, POS vs. Mobile Phone as a Channel for M-Banking, Ben Davis and John Owens.

MicroSave, 2009, Briefing Note # 67, Choosing a Mobile Phone Banking Format, Ben Davis and John Owens.

NCR, internal documents.


Paypers and Money matters, various articles on pilots and innovations (website www.thepaypers.com).
Remittances - how to shorten the long way home
September 2009


SMART, website smart.com.ph/money.

SWIFT, 2008, SWIFTNet Workers’ Remittances, Fast, efficient, and cost-effective clearing and settlement of person-to-person payments.


Western Union, 5 February 2009, Western Union Reports Fourth Quarter and Full-Year Results, Press Release

UNDP, website www.migration4development.org.

USAID, Field Brief No. 5, Integrating Remittance Recipients into the Financial Sector, www.microlinks.org/Field


World Bank (July 2009), Migration and Development Brief 10, by Dilip Ratha, Sanket Mohapatra and Ani Silwal.

World Bank, July 2009, Remittances data.

World Bank, March 2009, Migration and Remittances Factbook 2008

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