MOBILE MONEY SUMMIT 2010

Unleashing the Power of Convergence to Advance Mobile Money Ecosystems

Piya Baptista and Soren Heitmann
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All quotes and content for this report are drawn from conference sessions, working groups, speaker interviews and presentations during the Mobile Money Summit 2010. Material from other sources is referenced in the endnotes.

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Definitions and Acronyms Used in this Report

**Acronyms**

- AML: Anti Money Laundering
- B2B: Business-to-Business
- CFT: Combating Financing of Terrorism
- e-money: Electronic Money
- MNO: Mobile Network Operator
- m-money: Mobile Money
- MFI: Microfinance Institution
- m-wallet: Mobile Wallet
- NFC: Near Field Communication
- P2P: Person-to-Person

**Definitions**

**Agent:** A person or business that is contracted to facilitate transactions for users. The most important of these are cash-in and cash-out (i.e., loading value into the mobile money system, and then converting it back out again); in many instances, agents register new customers. Agents usually earn commissions for performing these services. They also often provide front-line customer service—such as teaching new users how to initiate transactions on their phone. Typically, agents will conduct other kinds of business in addition to mobile money. The kinds of individuals or businesses that can serve as agents will sometimes be limited by regulation, but small-scale traders, microfinance institutions, chain stores, and bank branches serve as agents in some markets. Some industry participants prefer the terms “merchant” or “retailer” to describe this person or business to avoid certain legal connotations of the term “agent” as it is used in other industries.

**Anti Money Laundering/Combating Financing of Terrorism (AML/CFT):** A set of rules, typically issued by central banks, that attempt to prevent and detect the use of financial services for money laundering or to finance terrorism. The global standard-setter for AML/CFT rules is in the Financial Action Task Force (FATF).

- **Cash in:** The process by which a customer credits his account with cash. This is usually via an agent who takes the cash and credits the customer’s mobile money account.

- **Cash out:** The process by which a customer deducts cash from his mobile money account. This is usually via an agent who gives the customer cash in exchange for a transfer from the customer’s mobile money account.

**Electronic Money (e-money):** Electronic money is defined as a stored value or prepaid product in which a record of the funds or value available to the consumer for multipurpose use is stored on an electronic device in the consumer’s possession. This definition includes both prepaid cards (sometimes called electronic purses) and prepaid software products that use computer networks (sometimes called digital cash). In the case of card-based products, the prepaid value is typically stored in a microprocessor chip embedded in a plastic card or “smartcard.” On the other hand, network based products use specialized software installed on a standard personal computer for storing the “value.” The loading of value onto the device is akin to the withdrawal of cash from an ATM, and the product is used for purchases through a transfer of value to the merchant’s electronic device.

- **Float:** The balance of e-money, physical cash, or money in a bank account that an agent can immediately access to meet customer demands to purchase (cash in) or sell (cash out) electronic money.

**Know Your Customer (KYC):** Rules related to AML/CFT which require providers to carry out procedures to identify a customer.

- **Liquidity:** The ability of an agent to meet customers’ demands to purchase (cash in) or sell (cash out) e-money. The key metric used to measure the liquidity of an agent is the sum of their e-money and cash balances (also known as their float balance).

**Interoperability:** The ability of users of different mobile money services to transact directly with each other. Given the technical, strategic, and regulatory complexities that enabling such transactions would entail, no mobile money platforms to date are fully interoperable with each other. However, many mobile money services allow users to send money to non-users (who receive the transfer in the form of cash at an agent).

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**Mobile Banking:** When customers access a bank account via a mobile phone; sometimes, they are able to initiate transactions.

**Mobile Money (m-money):** A service in which the mobile phone is used to access financial services.

**Mobile Money Ecosystem:** Networks of organizations and individuals that must be in place for mobile money services to take root, proliferate and scale up. They are characterized by interdependence and coordination among any number of actors—such as MNOs, banks, airtime sales agents, retailers, utility companies, employers, regulators, international financial institutions and donors, and even civil society organizations.

**Mobile Money Provider:** Any institution that plays the lead role in a mobile money deployment. In this report, “mobile money provider” refers to MNOs, banks or third parties that provide mobile money services.

**Mobile Money Transfer:** A movement of value that is made from a mobile wallet, accrues to a mobile wallet, and/or is initiated using a mobile phone. Sometimes, the term “mobile payment” is used to describe only transfers to pay for goods or services, either at the point of sale (retail) or remotely (bill payments).

**Mobile Wallet (m-wallet):** An account that is accessed using a mobile phone. A mobile money provider can offer a wide range of services to facilitate financial transactions via a mobile wallet. These services could include remittances, person-to-person money transfers, bill payments, proximity payments, airtime top up, loan repayments, etc.

**Unbanked:** Customers, usually poor, who do not have bank accounts or transaction accounts at formal financial institutions.

**Under-banked:** Customers who may have access to basic transaction accounts offered by formal financial institutions, but still have financial needs that are unmet or not appropriately met. For example, they may not be able to send money safely or affordably.
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The 2010 Mobile Money Summit marked an important moment in the evolution of the mobile financial services ecosystem. No longer is mobile money an enticing possibility or an unproven concept. In the two years since the first summit, mobile money has provided millions of people around the world with access to finance, and demand continues to increase.

Over the next two years, the number of people with access to a mobile phone but not to traditional financial services is expected to grow from one billion to 1.7 billion, and Mobile Network Operators (MNOs) are poised to earn $7.8 billion in direct and indirect revenues from more than 350 million clients.

Whether it is for paying salaries, reimbursing suppliers, or sending remittances home from abroad, mobile money is allowing people to conduct transactions at lower cost and with greater efficiency than physical transactions. With mobile money, users are moving out of cash-based informal systems and are fully participating in the formal economy, making it a key way to improve livelihoods.

Clearly, mobile money is proving its potential.

But scaling up the industry to meet demand requires a deep understanding of money, individual market nuances, stakeholders, strategies, and roadblocks to success.

The Mobile Money Summit 2010 was convened to help the industry better understand how the ecosystem has grown and how each of these factors affects mobile money’s role in developing a larger e-money economy: one in which cash wallets are replaced with mobile wallets and other electronic payment instruments.

To continue its growth and begin to fulfill the promise of an e-money economy, industry stakeholders must work together to unleash convergence, drive customer acquisition, and refine enabling technology. Mobile money must have a clear appeal to consumers, the public sector, and the private sector.

The Mobile Money Summit 2010 identified a number of key lessons for all of the industry’s stakeholders. Primary among these was that mobile money’s development value rests in its ability to facilitate financial sector inclusion. To do so will require financial institutions and MNOs to work together with regulators on a country-by-country basis. Providers will need to introduce basic mobile money services where they do not already exist and foster the consumer’s appetite for more sophisticated services. Effective distribution networks must be developed in order to reach critical mass in the industry.

IFC has produced *Unleashing the Power of Convergence to Advance Mobile Money Ecosystems* to capture these and other key lessons learned during the Mobile Money Summit 2010. The report serves as a valuable resource to anyone who seeks to understand the state of the mobile money industry – or to anyone working to grow the industry further, a goal shared by IFC and the entire World Bank Group.
This report is written on the occasion of the third Mobile Money Summit, held May 24-27, 2010 in Rio de Janeiro, Brazil. The discussions at this year's summit reflect the evolution in the mobile money industry since the first summit was held two years ago. As GSMA Mobile Money Director Gavin Krugel stated, “We have evolved from hype in 2008 to regulatory and other challenges in 2009 to a deeper level of conversation based on real experience in 2010.” This experience is based on an increase in the number of mobile money deployments worldwide from 60 in 2008 to 120 in 2009 to 160 as of August 2010. Of these 160 deployments, 73 are live and 87 are expected to go live in 2010 (see Mobile Money Tracker on pages 32-33).

This increase in the number of mobile money deployments, as well as the continued diversity of speakers and participants at the Mobile Money Summit, indicate that no further convincing is needed of the mobile money opportunity. The Rio Summit brought together 58 speakers and 643 participants from 63 countries. Approximately 51% of attendees were senior management. As in previous summits, the participants represented every sector of the mobile money industry—including financial service institutions, mobile network operators (MNOs), development organizations, technology vendors, regulators and academics.

The Mobile Money Summit 2010 Report aims to provide readers with a high level summary of the key discussion points and takeaways from this year’s conference. It is based on the main conference proceedings on May 25 and 26, interviews with 23 speakers and other experts during and after the conference, and on pre- and post conference events, namely the Mobile Money for the Unbanked Working Group on May 24 and the Leadership Forum on May 27. The report explores

“Mobile money sustainability can be achieved through the development of the full ecosystem but must be done jointly: banks, governments, MNOs, merchants, regulators.”

George Held, Group Marketing Director, Zain
Mobile money services are financial services accessed via a mobile phone. The mobile phone is the newest of many vehicles used to access financial services. Credit cards are a well-established mechanism for electronic payments, and it has been possible to send money orders since the telegraph. Current mobile money deployments provide person-to-business payments, like purchasing air time top-up, or international person-to-person remittance services, for example. These services initiate an electronic transaction that is functionally similar to the act of swiping a credit card in a store or sending money with Western Union. All these services enable individuals to engage the formal financial system through electronic transactions.

However, the mobile phone is what makes mobile money services revolutionary. Mobile phones provide individuals a convenient access point to financial services, permitting the user to initiate electronic transactions from anywhere and send them anywhere, including other mobile phones. More significantly, the money used through mobile money services is fungible so that someone can loan a friend lunch money, for example, in a way that credit cards cannot possibly do. Because the store of value is maintained and potentially spent or re-sent anywhere, this describes electronic money (e-money), not simply an electronic transaction. As retailers and individuals use and accept e-money, it will become more common and more useful in the marketplace and decrease the need to cash-in or cash-out.

Mobile money describes this broad collection of financial services that are accessed by mobile phones, enabling individuals to spend, accept, store and transfer electronic money. Mobile money services will soon serve the breadth of today’s daily financial transactions, potentially making mobile phones the primary access point for daily economic transactions and electronic money the primary means of settling those transactions.

Previous Mobile Money Summit Reports focused on ‘developing’ and ‘accelerating’ mobile money ecosystem development. This report focuses on ‘deepening and broadening’ mobile money ecosystems. Cross-sector partnerships among MNOs, banks and others are leading to the emergence of deeper, more interconnected networks and new entrants are broadening these networks. Partnerships between MNOs and banks in particular facilitate the development of the mobile money industry as a whole, in a way that these individual industries may not easily accomplish. Cooperatively growing this new mobile money industry marks a critical, powerful point of convergence between banks and MNOs. In his opening remarks, Krugel asked participants to “unleash the power of convergence.” In other words, to think about what we can do together to jointly target new market segments. “It’s not you or us,” he says, “it is us together that will create a market for mobile money.” By joining forces, the telecommunications and banking industries have the power to change the way people across the globe transact, and especially to address the financial needs of the poor.

### SECTION KEY QUESTIONS

| Strategy   | • How do we unleash the power of convergence?  
|            | • What is the recipe for launching and sequencing services? |
| Marketing  | • How do you drive customer acquisition and usage? |
| Operations | • How do you develop and implement an optimal agent network strategy?  
|            | • How does technology enable a successful mobile money deployment? |
| Growth     | • How can we accelerate the acceptance of mobile money services? |
Strategic Partnerships: The key to unleashing the power of convergence is strategic partnership between banks and MNOs. Together, these partners have the infrastructure capability and institutional know-how to meet regulatory challenges and successfully launch a mobile money service. But clear roles and dedicated leadership are required for a mutually beneficial relationship.

Product Sequencing: Each market has its own demands and constraints, implying there’s no single recipe for launching a mobile money service, or even a clear answer for what that service should be. A successful service will meet customer needs and demand, but requires a deep knowledge of the market.

“MNOs have the customer base and understand mass consumer behavior. Banks want to go down-market and tap this wider opportunity utilizing more cost-effective methods of service delivery. With the aligned objectives of increasing access to financial services at lower cost, MNO-bank partnerships will be an underlying theme for the next five years.”

RIZZA MANIEGO-EALA, PRESIDENT, G-XCHANGE INC.
How do we unleash the power of convergence?

Partner for Power

“Mobile money has the potential to impact billions of people globally,” observes George Held, Group Marketing Director, Zain. This potential lies at the intersection of modern telecommunications and traditional banking. This is the power of convergence: through union between these industries, mobile money can reach emerging and developed markets alike with tremendous opportunities in the form of new services for greater financial inclusion. It is no coincidence that all successful mobile money deployments in the world today involve an MNO and a financial institution. These strategic partnerships have emerged as best practice for unleashing the power of convergence.

Partnerships combine know-how when engaging the regulator and capacity to scale service offerings. Zain’s Zap service boasts over 12 million customers in Africa and the Middle East and partnerships with CitiBank and Standard Chartered were key factors enabling this level of international scale. “The role of the financial institution gives the regulator comfort,” explains Held, making them more likely to come to the table when approached by an MNO-bank partnership than an MNO alone. Partnership with financial institutions can also help expand services and reach new customer segments. In the Philippines, for example, Globe Telecom’s mobile money platform provided by its wholly-owned subsidiary, G-Xchange Inc., has enabled millions of Filipinos living abroad to send money home to GCASH customers though partnerships with PayPal, BICS, Western Union, Xoom and numerous other large remittance companies. Rizza Maniego-Eala, President of G-Xchange Inc., describes such partnerships as huge assets for the growth and success of mobile money. These partnerships create the essential components of the foundation that will allow more financial services to be offered to mobile subscribers.

Challenges for Partnerships

There are two fundamental components of a successful mobile money deployment: infrastructure and regulatory approval. “If your mobile money strategy wants to cover a mobile area and your network doesn’t, that’s a conflict,” says Koji Ono, Chief Strategy Officer for Robi. The same type of conflict can arise when trying to launch a service that doesn’t meet compliance standards. Being compliant is seldom trivial, in part because mobile money is so new that regulators have yet to fully codify how these services need to work. The regulator’s help and support must be sought early on to identify problems and find solutions, or else it will be impossible to get the mobile money deployment off the ground. MNO-bank partnerships are a perfect match to address mobile money needs, but both must be fully committed to the project’s success. The challenges will push partners into unfamiliar territory and the mobile money service itself will likely represent a divergence from their respective core business models. Dedication from top management is a key factor for success.
Roles and responsibilities are also critical success factors. These need to be clearly defined, not only to meet regulatory challenges, but also to ensure that the partnership is based on shared risk and shared benefit. Coenraad Jonker, Director of Community Banking, Standard Bank of South Africa acknowledges that banks may be wary when approached by an MNO seeking to enter the financial services space. If the MNO seeks to provide mobile money as a value-added service to increase its margin or customer base, the bank is ready to help the partnership succeed. But if the MNO seeks to go deeply into financial services, the bank may fear competition and back away. The required commitment to cooperation and shared benefit increases as services expand and partnerships grow. For MTN Ghana, there are nine partner banks. “It was a challenge to get everyone to understand why they needed to share,” says Bruno Akpaka, General Manager, MobileMoney, MTN Ghana, “but now everyone understands their role” — and this has spelled success for the partnership, which expects over 2 million mobile money customers within the first year of deployment. In this example, MTN Ghana led the partnership due to its initiative, strong brand and customer base among a large population.

### A Strong Partnership Solves Regulatory Challenges

The Méditel-BMCE Bank partnership identified a strong opportunity for mobile banking services in Morocco, with 31% of the population banked and 76% using mobile phones as of 2008. A careful study of the market found demand for money transfer, bill payment and airtime top-up services.

However, initial regulatory requirements posed a significant hurdle: money transfer services needed to be executed in dedicated premises that included guards and security cameras. With Méditel’s agent network consisting of small grocers, these prohibitive requirements meant no widespread deployment. Other hurdles included requiring that only bank employees register new users and that cash-in transactions happen only at bank branches. Banks needed to have governance control over IT infrastructure, imposing requirements on the partnership’s business model. Finally, banks were responsible for payments accounting, but SIM cards and phones were inadequate identifiers.

Early on, Méditel and BMCE shared the project with the central bank to ensure regulation was addressed in the scope of the project. Many working sessions allowed the partners not only to comfort the central bank about security, KYC and AML concerns, but also to improve the service offer.

Thanks to strong commitment and cooperation from both Méditel and BMCE top management, the parties managed to overcome these regulatory challenges by signing an “Intermediary in Banking Operations” mandate. This mandate allows Méditel to commercialize mobile money using its own agent network to collect money from customers on behalf of BMCE.
What’s the recipe for launching and sequencing services and products?

The Killer Application

There is no recipe for launching or sequencing mobile money services. However, the ingredients are well known: success is predicated on a thorough understanding of the market and target customer, a positive regulatory environment, and the right partnerships. Knowing each country’s needs and regulatory nuances is critical to identifying the right opportunities, says Hesham Shawki, Chief Innovation and Partnership Officer for Orascom Telecom Holdings, but the use case is what ultimately drives and defines success. The problem with the use case is that the customer doesn’t always know what they need or what they want to do when it comes to mobile money services. This can particularly trouble services that target unbanked populations or those with low financial literacy, as these segments are less likely to demand formal financial tools or be familiar with their use. Herein lies the challenge of identifying the so-called killer application. But Richard Mwami, Head of MobileMoney for MTN Uganda, offers three basic principles for guidance: think big, start small, and scale fast. The right sequencing will present itself once initial services take off, says Aletha Ling, Executive Director and Global Head of Business Development for Fundamo: “Your customers will surprise you, not just on volume, but on demand for more services.”
Think Big

Mobile money services are generally categorized in terms of the transaction stakeholders: person-to-person (P2P) is perhaps the most basic and currently the most common. But many possible applications and permutations exist among governments, businesses, customers and all stakeholders within the ecosystem, both horizontally and vertically. Opportunities for mobile money exist throughout the customer spectrum, from the base of the pyramid on up, says Roberto Rittes, Director for Oi Paggo, with products ranging from traditional remittance services to microinsurance or government benefits payments.

An expanding deployment will likely offer numerous different services, but there’s no correct sequence or starting point; the only requirement is that the service meet the customer’s needs. Know the customer, know how they spend their money, and how they want to spend their money. This can also mean knowing how a customer wants to receive or send money. For Zain this meant approaching Coca-Cola in Tanzania—whose big, red trucks advertised a driver carrying cash along insecure, rural routes—and asking, “Do you have a cash collection problem?” With drivers receiving payments using mobile money, Coca-Cola’s problem found a solution and Zap stimulated the broader ecosystem.

In Kenya, Safaricom piloted M-Pesa as a service for microfinance borrowers to repay loans, but discovered that users wanted remittances. M-Pesa refocused to meet this stronger demand and quickly gained over 9 million customers. Safaricom is now expanding its offering by partnering with Equity Bank to launch M-Kesho, an interest-bearing micro-savings account held by Equity Bank and offered to M-Pesa clients. M-Kesho will be a powerful draw for customers looking for alternatives to “saving under the mattress.” First reaching a critical customer mass, Safaricom is now addressing the demand for savings products frequently seen in unbanked markets.

Developed markets need a different value proposition. O2, for example, targeted London to pilot its O2 Wallet, which combined three industries by placing an Oyster NFC transport card and a Barclay’s credit card into a NFC enabled mobile phone. This created the “3D” experience that Andy Ramsden, Head of Payment Products at O2, describes as necessary for creating a rich mobile commerce experience. Going beyond “2D” services is the sort of innovation that Ramsden believes is necessary to really excite customers and stimulate demand in developed markets, where people are highly banked and already use numerous financial services. Micro-savings accounts aren’t going to excite customers in London, and mobile wallets currently lack demand in Kenya. The right mobile money service is the one that fits the market and is introduced at the right time.
Coca-Cola wanted their drivers to receive money made it an easy entry, says George Held, Group Marketing Director, Zain, who advises: remember corporate customers too, not just end-users, when looking for market opportunities. But opportunities are everywhere, and Olga Morawczynski, Financial Literacy Project Manager at the Grameen Foundation’s AppLab, reminds us that the poor are active money managers too, who show particular demand for savings products.

Start Small

The first service should be one that enhances the provider’s image or bottom line. It does not necessarily need to be complex or game-changing. MTN Uganda introduced a straight P2P money transfer service to bring people onto the platform, says Richard Mwami, Head of MTN MobileMoney in Uganda. For now, they’re staying small, waiting for a critical mass of subscribers and double-digit penetration rates before offering more services. Rapidly introducing new products can overwhelm customers or risk diluting the service quality as managerial capacity may be forced to address competing demands across multiple new market segments. “Do a few things, but do them exceptionally well, as many customers don’t tolerate complexity and lack of focus,” says Hesham Shawki, Chief Innovation and Partnership Officer at Orascom Telecom Holdings, and “once you have gained your consumers’ confidence, and they are hooked to a simple but useful product, they will demand more from your technology.” Prompted by this demand, the evolution of a company’s mobile financial services roadmap for the unbanked could evolve as follows: sophisticated payments; money storage or accumulators; interest-bearing savings products; access to credit; and finally insurance. However, a mobile money strategy targeting a financially sophisticated customer segment or developed markets may target convenience services and develop in a totally different direction. In Shawki’s opinion, real success will happen at the crossroads of both segments. Again, there is no one recipe for product sequencing.

Scale Fast

“Achieving critical mass is difficult—but it’s the way to achieve success,” says Rittes, who recommends establishing partnerships with large merchants first, thereby providing customers with more opportunities to use the product at the earliest stages. Indeed, focusing on merchant buy-in is one way to scale a mobile money operation quickly because if the merchants are convinced, consumers will use and adopt e-money. Or in the case of Roshan, focusing on a government-to-person (G2P) strategy offers access to a large customer base. A critical mass is just the start. “You may get customer uptake with a given product; but you may not get the volume you really need without going beyond basic product offerings,” says Mark Pickens, Microfinance Specialist for CGAP. Spanning customer segments and stakeholders is a crucial next step. True scale is marked by integrating the entire mobile money ecosystem.

Who’s accountable for regulatory compliance: the bank or the MNO? Different environments have different mandates. In Mexico, banks are held accountable; in the Philippines, the MNO must see that agents follow protocol. The regulator must clearly articulate which party is ultimately responsible in order for partners to define clear roles and responsibilities.
Key Message: Know the customer to craft a message that expresses the value-add of a service in a way the customer values. Then drive acquisition and usage with a strong marketing campaign.

“Consumers today demand cash because it’s what they are used to. We have to help them understand that cash is not always the only option and perhaps not always the best option. It is our role to educate consumers that mobile money is safer, more secure and more convenient.”

ZAHIR KHOJA, EXECUTIVE DIRECTOR OF MOBILE COMMERCE, ROSHAN
How do you drive customer acquisition and usage?

**Know the Consumer: Sending the Right Message**

Understanding the market is critical for identifying strategic product opportunities, but to drive uptake and usage within the market, you must know the customer. This is a necessity for successful marketing and strategy, echoed repeatedly at the Rio Summit.

As a speaker put it, “You have to know your customers. If you do not know them, you cannot do business with them.”

Knowing what potential customers in the market already do can reveal strong levers for driving adoption of mobile money services. In Kenya and Uganda, for example, Bruno Akpaka, General Manager of MobileMoney for MTN Ghana, explains that sending money back home is already a deep cultural characteristic. Remittance services are immediately understood, and relatively little effort needs to be spent educating the customer about something they already do, already know and already value. By comparison, in many West African countries, he says, money may be remitted, but without the same cultural expectations: “It’s a help, but money transfer will not be the main driver in these markets. Each market needs to identify what will be the main driver.”

Knowing these types of cultural norms is instrumental in effecting customer uptake and demand for mobile money services. For example, Haridas Nair, Area Vice President of mCommerce at Sybase 365, Inc., points to Latin American markets, where people already do mobile airtime transfers, so they are accustomed to sending something of value via a mobile phone. This provides a lever for marketing P2P-type services. Understanding the customer goes beyond providing the right service; it means knowing how to successfully communicate with the customer by offering that service in a way that resonates with what the customer already understands, and ultimately, what he wants to accomplish.

Use-based marketing messages have proven successful for many mobile money services precisely because they appeal to what a customer already wants to do. Simple ideas, like MTN Uganda’s “now you can send money to your parents,” offer a ready solution for a customer seeking remittance services without dwelling on the service itself. However, in many circumstances potential customers may be unaware of what they can do, making lifestyle messaging a better approach. Yellow Pepper’s ad campaign offers customers “more time for yourself,” through services that provide greater convenience by limiting the time spent waiting in line at the bank or making trips to the utility company to pay bills. The advantages of these conveniences are readily understood. It’s a message that resonates with customers, and for many, “more time for yourself” means more time to earn money. For Roshan’s M-Paisa in
Afghanistan, although the service also offers time savings benefits—and even safety benefits by enabling customers to potentially avoid difficult or dangerous transit—initial marketing campaigns that focused explicitly on ideas of convenience fell short. “Marketing convenience is difficult in Afghanistan,” says Zahir Khoja, Executive Director of Mobile Commerce and Product Marketing for Roshan. “The population has never experienced it. They do not know what it tastes like.” But if you’re not going out to make a purchase or another possibly time-consuming transaction, you have more time to stay at home. Lifestyle benefits resonated strongly with M-Paisa’s customers: by staying home and spending time with his family, a father is seen as being a better father, explains Khoja. The successful marketing campaign communicates the service in terms of what the customer already values, and is characterized as providing something the customer already desires.

### Marketing, Marketing, Marketing

The right message will grab the customer’s ear, but this is only a piece of the puzzle: whether broadcasting that message (above-the-line marketing) or reaching out to individuals (below-the-line marketing), customer acquisition and usage is critically driven by traditional marketing, and lots of it.

Branding is one of the first issues to address in developing a strong marketing campaign: the customer must trust the message and the product. The strongest
REGULATORY TAKEAWAYS

• Customer acquisition may be accelerated with proportional KYC regulation. Unbanked and under-banked customers may face financial exclusion because they lack ID cards or the ability to verify IDs due to absence of faxes, photocopiers or even electricity. This segment engages in low-risk transactions, often below $20. Regulators need to consider alternative KYC requirements for these groups, allowing further customer uptake while keeping risks low.

• For providers, incentivizing an agent network as a marketing and sales force is also a KYC issue. It must be done properly, to minimize perverse incentives: agents eager to earn a new customer commission may disregard KYC requirements, presenting a risk far greater than merely signing up frivolous accounts.

MARKETING

brand in a partnership should lead in the target market, although when multiple partners are strong in the market, a co-branded mobile money service may provide a better vehicle. And while a brand name may help bring a customer to the table, the technology device or platform itself is the ultimate custodian of the marketing campaign: it is the first experience a customer has upon registration. For many customers in the mobile money space, a complex user interface can immediately undermine customer uptake and belief in the product.

Nontraditional marketing channels can often be very effective ways to reach new mobile money customers, where the target market is more receptive to below-the-line marketing. For customers who may be illiterate, who lack any experience with formal financial tools, or who simply live in rural areas difficult to reach with broadcast marketing, direct sales engagement is the most successful channel. MTN Uganda, for example, credits its direct sales model with its soaring growth. Over 2400 trained sales agents travel significant distances into rural areas to promote mobile money and educate communities. By focusing on below-the-line methods, MTN Uganda achieved just short of one million customers in its first year. MTN Ghana employs other below-the-line tools, such as viral marketing and demonstration effects, by promoting service use and word-of-mouth advertising among employees, their families and existing customers. However, one of the strongest opportunities for personal engagement is leveraging existing agent networks to both sell and aggressively promote mobile money services: for MTN Uganda 1,000 existing agents bolster its overall sales force.

Promoting ongoing service use is as critical as customer acquisition. YellowPepper encourages customer buy-in up front by charging a registration fee that preloads an equivalent amount of airtime. By putting something at stake, the customer is incentivized to try the service at least to get her money’s worth. Loyalty schemes and airtime bonuses also promote ongoing usage, as do ancillary incentives, like micro-health and burial insurance coverage that YellowPepper customers receive with their initial registration fee. However, incentivizing players in the ecosystem can have significant knock-on effects for stimulating customer uptake and usage. For example, if wholesale suppliers offer shopkeepers discounts or inventory bonuses when making purchases using mobile money, these small shops will encourage mobile money uptake among their customers simply by providing the ability to transact using mobile money services. This is the ultimate marketing tool: providing customers more opportunities to buy, spend and send using e-money. “We’re introducing a new form of money into society: electronic money,” says Andi Dervishi, Practice Lead, Electronic Payments and Marketplaces, IFC, “and every time such an endeavor has been attempted, success depended on whether sellers or merchants accept the new money as payment. Marketing that will drive acceptance by one seller can trigger adoption by a much larger number of buyers. Merchants influence consumer behavior and are the ‘queen bees’ of a transacting community.”
**Agent Network Development:** Agents are the face of the mobile money service to the customer, playing the vital roles of customer education, sign-up and transaction support. A customer’s interaction with an agent creates the trust that is critical to adoption and use. Building a trustworthy, ubiquitous, liquid and profitable agent network is key to a successful deployment.

**Enabling Technology:** The technology platform is what enables mobile money operations to succeed: processing transactions, mediating regulatory requirements and binding partners and customers together. Technology will also help spur NFC-integrated phones and broader e-money ecosystems.

“We don’t use the term ‘agents,’ but ‘merchants.’ The reason we believe the merchant is very important is the sustainability of the business model. If a person sells orange juice or magazines, and at the same time he is using mobile payments as a means of payment, it makes a sustainable business versus if his job is just to perform cash-in and cash-out.”

GEORGE HELD, GROUP MARKETING DIRECTOR, ZAIN
How do you develop and implement an optimal agent network strategy?

**Build a Trustworthy, Ubiquitous Network to Achieve Uptake**

If customers, especially the poor, are to adopt mobile money services, they must trust that their money is safe. Selecting trustworthy agents who can educate customers about the value of shifting from cash to e-money is key. This process begins when agents sign up customers and continues when they facilitate transactions. Easy access to agents for these services helps customers to experience the principal benefit of mobile money: convenience. Types of agents, however, vary by country. In some countries, it is easy to leverage the large retail footprints of supermarkets, pharmacies and fast-moving consumer goods companies. In others, mobile money providers need to build relationships from scratch with independent “mom and pop” shops or select agents within existing mobile phone airtime distribution networks. GSMA’s research indicates that successful operators grow agent networks in phases. In the first phase, an adequate number of agents need to be recruited throughout the market to support launch. In the second phase, resources need to be redirected from agent recruitment to customer acquisition. In the third and final phase, numbers of agents and customers need to grow in parallel.

**Agent Liquidity and Profitability are Key to Customer Trust**

Mobile money providers should pay strong attention to how their agents manage liquidity to ensure sufficient reserves of e-money are available for cash-in transactions, such as sending remittances, and physical cash for cash-out transactions, such as receiving remittances. An agent’s inability to perform these transactions could negatively impact customer trust. Richard Mwami, Head of MTN MobileMoney in Uganda, notes, “if your customer walks into the agent, he expects to find electronic money and cash. If he cannot find the money, he won’t come back.” Currently, customers in most mobile money deployments are performing more cash-out than cash-in transactions since there are not many places where they can use their mobile phones to pay with electronic money for daily transactions. This reality makes it important for agents to have sufficient cash on hand. Ultimately, as Serge Elkiner, President of YellowPepper, notes, “enabling customers to use the system not only to cash-out, but also to make payments and purchases, is a way to address the liquidity challenge.”

Agent liquidity and profitability are also closely related since maintaining fixed amounts of cash and e-money reserves, or float requirements, comes at a cost. An agent can face increased operating costs as a result of frequent trips to the nearest bank or other lender to withdraw cash; high interest rates on working capital loans needed to maintain float; or theft of physical cash by employees at an agent’s store. All these factors can eat into an agent’s profit margin. Recognizing that

“If a person wants to cash out his salary and the agent does not have the money, the SMS message on his phone has no value. Agent liquidity is paramount to the success of mobile money.”

Zahir Khoja, Executive Director, Mobile Commerce and Product Marketing, Roshan

MOBILE MONEY SUMMIT 2010
agents in rural areas face bigger challenges in managing liquidity, some mobile money providers are offering higher commissions for cash-out transactions to compensate these agents for the extra time, effort and money needed to maintain the float. Commissions for customer registration, cash-in, cash-out and other services to ensure a profitable agent model require judicious structuring. In general, an agent is likely to stop offering mobile money services if it’s unprofitable. This in turn may lead a customer to lose trust in mobile money’s reliability.

**Agent Training and Management Ensure a Positive and Consistent Customer Experience**

“One must build in the cost of agent training and management to ensure that agents continue to adhere to established procedures, that the system remains intact, and that customers build and maintain trust,” says Elkiner. While some providers use in-house staff for agent training and management, others outsource this function to third parties. Mobile network operator Roshan, in Afghanistan, has hired an independent company, Top Vision, to train its M-Paisa mobile money agents on KYC/AML requirements to ensure regulatory compliance; branding and marketing to increase the visibility of the M-Paisa service and customer foot traffic; and liquidity management to ensure agents have sufficient float to maintain a positive and consistent customer experience.

**Approaches to Managing Agent Liquidity Challenges**

“There’s limited trust in the banking system in Afghanistan today, due to historical losses. We have one chance to prove the value to the customer. We need to build this trust,” says Khoja. Roshan relies on a preferred agent approach on salary disbursement day to ensure that members of the Afghan National Police and employees of other entities availing of M-Paisa’s salary transfer service are able to cash out. In this approach, Roshan informs its preferred agents about the amount of money to be transferred and the locations where agents will need to have cash on hand. These preferred agents, in turn, contact other agents in their areas regarding expected cash needs. Roshan has also partnered with Azizi Bank, one of the country’s largest banks, which has extensive nationwide reach, to ease the liquidity burden. About 70% of M-Paisa agents are within reach of an Azizi Bank branch, so agents don’t have to travel far to convert e-money into cash during high demand periods. In addition, if an M-Paisa agent runs out cash, M-Paisa customers may visit the Azizi Bank branch to convert their e-money into cash, which is especially important on salary disbursement days. In areas where there are no rural bank branches, Roshan ensures that a strong emphasis is placed on liquidity management during agent training.
How does technology enable a successful mobile money operation?

The Technology Glue

“Technology is what makes these projects possible,” says Aletha Ling, Executive Director, Fundamo. But mobile money providers are not selling technology; in fact, the platform should remain largely transparent to the user. The service platform sits behind the scenes, yet acts as the glue that binds the mobile money ecosystem together. Well-established technology already connects the broader financial system and underpins global telecommunications, but two additional layers are needed for mobile money solutions: first, one to connect finance and telecommunications, and second, an applications layer that connects the customer. This applications layer bears careful consideration, both because it shapes the customer experience and because there is relatively little industry precedent to guide developers. Mobile money operations need to consider the applications layer from the outset or risk alienating customers or limiting future service offerings. “Many deployments today fall short and do not engage application developers to the extent that they should,” according to David Sharpe, Head of Products, Digicel Haiti. “Banks and MNOs need to do this, but the level of thought required for applications that sit on top of mobile money hasn’t gone in.”

Although attention must be given to

“An MNO as a carrier is an enabler. Google and Apple provide the platform, but put out to the development community for applications software. If Apple didn’t have thousands of applications, it wouldn’t succeed. The MNO needs to provide applications on top of its platform, too.”

David Sharpe, Head of Products, Digicel Haiti
NFC technology started with contactless cards and is now moving to fully-integrated mobile phones that will enable the full range of mobile and financial services that comprise the electronic wallet. ViVOtech, for example, is working to establish these electronic wallets in the marketplace by developing mobile payments, loyalty, merchandising and marketing applications software for existing and NFC-enabled mobile devices. By also deploying over 750,000 contactless and NFC payment terminals across 35 countries, ViVOtech is providing both the software and infrastructure necessary to bring mobile payments into the retail world. This will offer consumers numerous payment conveniences and give merchants new payment and marketing channels. ViVOtech’s wallet software technology drove Citi’s Tap and Pay pilot, for example, and this is helping to push payment systems to include and go beyond m-money services.

Agents play a key role in educating customers about the value of shifting from cash to e-money.

the applications layer, the first connective layer is perhaps more critical: the technical platform that turns money mobile. Here, both regulatory and business requirements are major considerations for the platform’s technical specifications. Mobile money solutions are beholden to the same security and reliability mandates as traditional financial services. “A phone call may fail,” said a speaker, “but a financial transaction cannot go down.” And this means flawlessly handling potentially millions of transactions an hour, and handling them with absolute security. “Security is the backbone of mobile money services,” says Jean-Pierre Gressin, Head of Alliances & Partnerships, Oberthur Technologies, and lack of security carries enormous

Integrating NFC into Phones and into the Market

NFC technology started with contactless cards and is now moving to fully-integrated mobile phones that will enable the full range of mobile and financial services that comprise the electronic wallet. Pilots such as Tap and Pay help demonstrate that electronic wallets implemented through NFC-integrated phones have the potential to redefine the merchant-customer relationship to be more convenient, more targeted and more personalized. Consumers will benefit by having everything in one place, be able to enjoy an enhanced shopping experience, making quick payments and seeing lower risks associated with loss, theft or fraud. Customers may also take advantage of personalized in-store offers by tapping their NFC phones to smart posters, which similarly benefits merchants, who can engage in one-to-one marketing, offer instant, individualized offers, and better track customer loyalty. With networks and mobile money services intermediating these benefits, operators will see additional revenue sources as NFC-integrated phones and related services take hold in the market.

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regulatory and financial risks. But reputational risks are even worse, says a speaker. “Lack of security destroys trust. Without trust, you do not get money or customers.” Because the technology platform is what actually executes (or denies) transactions and tracks who sent how much money where, the platform itself is what ultimately enforces AML/CFT regulations, gains customer trust, and ensures system reliability—and it is potentially the reason these requirements could fail. Complicating matters further, the regulations surrounding these issues may be different across deployments. Before launching a mobile money service, advises Haridas Nair, Area Vice President, mCommerce, Sybase 365, Inc., it is necessary to engage the regulator early on to establish a requirements plan. The best approach is to document the use case as clearly as possible, for both developers and regulators. The risk of not doing so, he says, is delayed regulatory approval, impacting launch of the service.

Going beyond m-money: e-money

The mobile wallet will be the nucleus of the electronic money ecosystem, replacing the cash wallet with an NFC-integrated mobile phone equipped with mobile money services—a transition characterized as moving one’s wallet out of the back pocket and into the phone in your front pocket. Pilot studies, such as Citi’s Tap and Pay, have created test-bed ecosystems that demonstrate enormous potential for mobile wallets, finding pilot self-adopters increased total purchase value by as much as 150% in response to the convenience afforded by their mobile wallets. E-money ecosystems are still some years away, awaiting broader infrastructure and mobile payments integration. Nevertheless, Edgar Dunn & Company, a payments consultancy, predicts that by 2015, 1.4 billion people will transact with electronic wallets.
Key message: Accelerating the acceptance of mobile money requires providers to create services for multiple customer segments. It also requires strategic partnerships with corporations, governments and other organizations that have large geographic footprints.

“Any person should be able to walk out of the house with only a cell phone and be able to buy goods, receive remittances, pay bills, repay loans, and more. This is the future we envision and are building today.”

SERGE ELKINER, PRESIDENT AND FOUNDER, YELLOWPEPPER
How can we accelerate the acceptance of mobile money services?

**More Services Bring More Users**

A “killer application” that addresses a critical unmet need with a simple value proposition—combined with a big marketing push—can bring in early mobile money adopters. These early adopters, in turn, encourage others to try the service. But in due course, new services are needed to sustain and add value to existing customers as well as to draw in more diverse new customers. The business case for each service depends on the mobile money provider’s core objectives and specific market conditions. In Afghanistan, mobile network operator Roshan’s vision to contribute to the social and economic development of the country led the company to first introduce M-Paisa for microfinance institutions. Roshan’s partnerships with Hope International and the First Micro Finance Bank Afghanistan (FMFB-A) are increasing the efficiency and security of the loan disbursement and repayment process while reducing costs. In both partnerships, M-Paisa agents are part and parcel of the value proposition of the mobile money service to the end customer. For example, Hope International’s loan officers collect loan repayments in cash from borrowers and transfer bulk payments through M-Paisa agents to the branch office. This saves them significant time and eliminates the risk of carrying cash from one end of the city to the other. FMFB-A clients can receive loan disbursements and make loan repayments directly through M-Paisa agents. This especially benefits borrowers who live a significant distance from an FMFB-A branch office. Roshan is seeing month-over-month growth of customers using M-Paisa mobile microfinance services. In addition to microfinance payments, Roshan offers P2P money transfers, airtime top-up, bill payments, and salary transfers via M-Paisa.

Although the mobile money industry has seen an increase in service variety, challenges remain in designing and implementing transformational mobile money services that go beyond money transfers and payments for the unbanked and under-banked. But Sriraman Jagannathan, CEO M-Commerce, Airtel, notes that “people will progress from payments to access to credit to savings, but first need to shift from an informal to a formal network via a digital payment mechanism. The microfinance industry has proven how low-income individuals become bankable; mobile, digital payments will have much wider impact.”

*If one side of the challenge is how many people can get onto a mobile-based payment system, the other side is how many places they can use it. To displace cash, mobile payments must gain ‘currency.’ The combination creates the network effect.*

Sriraman Jagannathan, CEO M-Commerce, Airtel
YellowPepper, a mobile financial services provider, has created a neutral, universal platform that brings together consumers, retailers, utility companies, banks, MNOs and others to issue, manage and accept mobile payments. YellowPepper has over two million active users and its operations span Ecuador, Guatemala, Bolivia, Peru, Colombia, Haiti, the Dominican Republic and Panama. Banked customers use m-banking services tied to their bank accounts to access electronic banking services, pay bills, transfer money and top-up airtime among other services. In Ecuador, YellowPepper has partnered with Banco Pichincha and Porta to offer “Pichincha – MONY,” an m-wallet tied to a pre-paid account, to provide similar services to unbanked customers. Banco Pichincha’s correspondent banking agents open and manage these pre-paid accounts. The company also offers a B2B mobile payments service to fast-moving consumer goods companies to transact electronically with small businesses in their distribution chains. In Ecuador, a pilot is underway with 11 fast-moving consumer goods companies whose products constitute 85% of the product mix of mom-and-pop stores. YellowPepper is also exploring small lines of credit to enable payment on delivery of goods. “They can’t pay the delivery truck now, but they can in two hours—with a micro-credit option there’s no need for the truck to come a second time,” says Serge Elkiner, President and Founder, YellowPepper.

Unbanked customers in Ecuador can use “Pichincha – MONY”, an m-wallet tied to a pre-paid account offered by YellowPepper and its partners.
Coca-Cola demonstrates this approach. Zain Zap’s B2B service enables mobile payments among several tiers of distributors from the large distributor to sub-distributors called Manual Distribution Centers to retailers. Each distributor in the chain can make mobile payments to Coca-Cola as soon as a truck makes a delivery, addressing the cash collection problems and security risks of delayed payments, accounting errors and counterfeit currency. Coca-Cola’s use of mobile payments with its distributors could ultimately align the incentives for retailers to promote mobile payments to end customers. And aligning incentives is important if Zain Zap is to achieve its vision for a cash-free ecosystem. Zain’s Held states that “Zain is looking at mobile commerce from a different perspective than traditional MNOs. The key differentiator is that Zain sees this service not as a one-off transaction, such as ‘send money to your mother in a remote village,’ but as a payment instrument.” Zain is also building partnerships with other corporations like Chevron, Oilcom, Shell and Nokia in keeping with its belief that the corporate customer is an extremely important part of this cash-free ecosystem.

A corporation’s adoption of mobile payments not only triggers cascading incentives across its supply or distribution chain, bringing a large number of people onto the mobile payments platform, but also enables people at different levels of the income pyramid to transact with each other more easily and efficiently. This is important because “those who are banked interact with the unbanked and no matter how wealthy they may be, they interact in the same cash economy,” said a speaker from the banking sector at the Mobile Money Summit 2010. As Hans Wijayasuriya, Chairman and Director of Dialog Telekom in Sri Lanka, elaborates, “Addressing the Base of the Pyramid (BOP) in isolation is probably a mistake. In the context of achieving financial or banking inclusion through mobile money deployments, mobilizing the Top of the Pyramid (TOP) toward interacting with the BOP is integral to the ultimate value and inclusion proposition to the BOP. The TOP and BOP need to be able to ‘talk to’ each other in terms of the underlying financial flows. This is what financial inclusion is about: integrating with the mainstream, as opposed to creating a niche application or micro-ecosystem for the BOP.”

• Regulatory frameworks should strike a balance between policies and rules that create incentives for first movers to enter the mobile money services market, and those that enable a minimum level of interoperability to increase the value of such services to the end customer. As mobile money markets evolve from emerging to expanding to maturing stages, so will levels of interoperability. Andrew Zerzan, Regulatory Projects Director, GSMA, advises regulators not to force a business model. “If customers need interoperability, there will be a business case to satisfy customer demand,” says Zerzan.
Over five billion mobile phone connections exist globally. By 2012, an estimated 1.7 billion people in developing countries will have mobile phones, but no access to formal financial services. Persistence, innovation and a level of risk-taking by current players and new entrants can bridge this gap. Research estimates mobile financial services could reach a previously unbanked market of 364 million by 2012. Providers should seek to go even further, to serve a whole range of customers as a truly inclusive mobile money ecosystem, enabling people from all walks of life to transact with each other more easily, securely and efficiently. Such an ecosystem will lead to new economic opportunities and growth across the income pyramid, reaching individuals, businesses and governments. The mobile money industry continues to draw lessons from mature deployments that are reaching millions of customers, such as M-Pesa in Kenya and G-Cash and Smart Money in the Philippines. At the same time, perspectives from Zain Zap in Tanzania, MTN in Uganda and other more recent deployments will deepen the mobile money services knowledge base. GSMA Mobile Money Director Gavin Krugel urges the industry to “be patient and give new deployments time to scale and mature so we can learn from them.” A knowledge base built on lessons from multiple deployments will help industry players identify patterns in the drivers for scale and the common characteristics of successful business models.

Overall, regulatory disparity remains a challenge for the mobile money industry. Permissible models—bank-led, MNO-led or third party-led—vary widely by country. Progressive but prudent regulatory frameworks can respond to a
dynamic industry while encouraging growth and fostering new businesses. As Airtel’s Jagannathan explains, “A regulator has two equally important abilities. One is to create inclusion in the society it seeks to regulate, but the other is to provide a secure environment for operations to be deployed, inspected and maintained. Getting these two abilities to grow simultaneously is essential. A financial regulator should also have the ability to wear two hats—one as a banking regulator and the other as a payment system regulator. Liberating payments from banking will allow widespread digital railroads to be built for banking to run on.”

The Mobile Money Summit discussions in Rio indicate that strong alliances among banks, MNOs, third party players, technology vendors, regulators and others are needed to address current and future challenges. These alliances establish a powerful convergence of industries that collectively enrich mobile money ecosystems. Summit participants indicated their commitment to build on past achievements and to forge ahead, using strategic partnerships to drive the introduction of mobile money services across the customer spectrum and keeping the customer’s needs at the center. As Khalid Fellahi, Senior Vice President of Mobile Transactions Services, Western Union, says, “The driver is consumer needs. If you have a clear and simple value proposition and you allow people to conduct their basic transactions, then you can drive growth and open up new possibilities to consumers.” These new possibilities will open doors everywhere, for all players in the ecosystem.
Annex 1 Mobile Money Summit 2010 25.05.2010

09.00-10.30 Keynote 1: Operator Heavyweights Embrace Mobile Money
Moderator: Siki Mgabadeli, Freelance Anchor and Producer, SAFM

09.00-09.20 Presentation: ‘State of MM and key developments since 2009’
Gavin Krugel, Mobile Money Director of the GSM Association

09.20-10.30 Panel: ‘Operator Heavyweights Embrace Mobile Money’
George Held, Group Marketing Director, Products and Innovation, Zain
Rizza Maniego-Eala, President, G-Xchange, Inc.
Richard Mwami, Head of MTN Mobile Money in Uganda, MTN
Gavin Krugel, Mobile Money Director of the GSM Association, GSMA
Hesham Shawki, Chief Innovation and Partnership Officer, Orascom Telecom Holdings

10.30-11.00 Networking Break

11.00-12.30 Unleashing the Power of Mobile Money: One Day in the Life of a Mobile Money Service
Moderator: Siki Mgabadeli, Freelance Anchor and Producer, SAFM

11.00-11.45 Panel: ‘MNO Board Meeting – Unleashing the Power of Mobile Money: One Day in the Life of a Mobile Money Service’
Koji Ono, Chief Strategy Officer, Robi
David Sharpe, Head of Products, Digicel Haiti
Sasha Natasha Monyamane, Group Executive: AML, Ethics and Compliance, Vodacom Group Limited
Sriraman Jagannathan, mCommerce CEO, Bharti Airtel
Bruno Akpaka, General Manager, Mobile Money, MTN Ghana

11.45-12.30 Panel – ‘Mobile Money Ecosystem Meeting-Unleashing the Power of Mobile Money: One Day in the Life of a Mobile Money Service’
Amit Mattatia, President & CEO, Trivnet
Jojo Malolos, Head of Financial Services, SMART
Coenraad Jonker, Director of Community Banking, Standard Bank of South Africa
Carlos Marmolejo, Director General, CNBV
Andi Dervishi, Practise Lead, Electronic Payments and Marketplaces, IFC

12.30-14.00 Lunch

14.00-14.20 Presentation: ‘Institutional and Regulatory Framework for Mobile Money; What Makes Latin America Different?’
Alvaro Martin Enriquez, Head of Innovation, AFI

14.20-14.40 Presentation: ‘Successfully Deploying Secure Mobile Money Services for the Banked and Unbanked’
Jean-Pierre Gressin, Head of Alliances & Partnerships, Oberthur Technologies

4.40-15.00 Presentation: ‘How Operators and Banks Partner to Enable Regulatory Approval’
Nawal Gharmili Sefrioui, Senior Marketing Manager, Medi Telecom

15.30-16.00 Networking Break

16.00-17.25 New Success Stories: Untapped Areas of Growth and Opportunities for Mobile Money
Moderator: Siki Mgabadeli, Freelance Anchor and Producer, SAFM

16.00-16.20 Joint Presentation: ‘Driving Accelerated Growth though Personal Banking and Enterprise Technology’
Richard Mwami, Head of MTN Mobile Money in Uganda, MTN
Aletha Ling, Executive Director, Global Head of Business Development, Fundamo

16.20-16.40 Presentation: ‘Creating a sophisticated product portfolio’
Roberto Rittes, Director, Oi Paggo

16.40-16.50 Mini Presentation – Panel Introduction
Olga Morawczynski, Consultant/Financial Literacy Project Manager, AppLab (Grameen Foundation)

16.50-17.00 Mini Presentation – Panel Introduction
Daryl Collins, Bankable Frontiers and Author, Portfolios of the Poor

17.00-17.30 Panel: ‘Understanding the Unbanked Customer’
Olga Morawczynski, Consultant/Financial Literacy Project Manager, AppLab (Grameen Foundation)
Daryl Collins, Bankable Frontiers and Author, Portfolios of the Poor
Mark Pickens, Microfinance Specialist, CGAP

17.30-17.35 Day 1 Wrap up
Siki Mgabadeli, Freelance Anchor and Producer, SAF
Annex 1 Mobile Money Summit 2010 26.05.2010

09.00-10.30  Keynote 2: The Case for Banks Investing in Mobile Money  
Moderator Siki Mgabadeli, Freelance Anchor and Producer, SAFM

09.00-09.15  Presentation: ‘A Financial Services Perspective: Criteria for the successful deployment of mobile money programs in emerging and developed markets’  
Jose María Ayuso, Region Head of Products for LAC, Visa

09.15-10.30  Panel: ‘The Case for Banks Investing in Mobile Money’  
Jose María Ayuso, Region Head of Products for LAC, Visa  
Andres Fontao Canovas, Head of Mobile Banking, Bankinter  
Jeff Hindle, Product and Business Development, Scotia Bank  
Ignatius E. Cobbina, Head, Transaction Banking, Fidelity Bank Limited  
Raul Moreira, Executive Manager, Banco do Brasil/ABECS

10.30-11.00  Networking Break

11.00-12.30  Strategies for Mobile Contactless Payments  
Moderator: Dr Nav Bains, Senior Projects Director, Mobile Money, GSMA

11.00-11.20  Presentation: ‘Strategies for Contactless Payments’  
Andy Ramsden, Head of Payment Products, 02

11.20-11.40  Presentation: ‘Using NFC to Enable Effective Near-Store and In-Store Mobile Marketing’  
Mohammad Khan, President and Founder, VivoTech

11.40-12.00  Presentation: ‘Results and Lessons Learnt from a Successful Trial of Contactless Payments’  
Satish Menon, Executive Vice President, Citibank

12.00-12.30  Panel Discussion:  
Andy Ramsden, Head of Payment Products, 02  
Mohammad Khan, President and Founder, VivoTech  
Satish Menon, Executive Vice President, Citibank

11.00-12.30  Emerging Business Models for Mobile Money (Part 1)  
Moderator: Siki Mgabadeli, Freelance Anchor and Producer, SAFM

11.00-11.20  Presentation: More Connections through Financial Services  
Hugo Janeba, Vice President of Marketing and Innovation, Vivo

11.20-11.40  Presentation: ‘Cash goes Mobile – A New Business Model and Open Ecosystem’  
Olivier Cognet, VP Strategy and Business Development, Nokia

11.40-12.00  Presentation: Addressing the Concerns of Regulators, Operators, Banks and Consumers’  
Staffan Ljung, Director Analytics and Payment, Ericsson

12.00-12.20  Presentation: ‘Micro Credit Market Analysis’  
Peter Lyons, Equity Research Analyst, Oscar Gruss

12.20-12.30  Q&A

12.30-14.00  Lunch

14.00-15.30  Mobile Money Applications: What’s Hot?  
Moderator: Gavin Krugel, Director, Strategic Development for Mobile Money, GSMA Association

14.00-14.20  Presentation: ‘Driving Mobile Money Uptake through Compelling Applications’  
Dave Parratt, Authorised Mobile Transactions, MTN

14.20-14.40  Presentation: ‘Commerce on the Go – Enacting the Mobile Experience’  
Jürgen Wassmann, Regional Head, Innovative Platforms, MasterCard Worldwide

14.40-15.00  Presentation: ‘Mobile Money: Overcoming Challenges to Achieve Business Success’  
Mike O’Brien, Senior Vice President of Business Development, Syniverse

15.00-15.20  Presentation: ‘Understanding the Mobile Consumer: The Future of Payments’  
Amol Patel, Head of Emerging Markets, PayPal Mobile

15.20-15.30  Q&A

14.00-15.30  Emerging Business Models for Mobile Money (Part 2)  
Moderator: Siki Mgabadeli, Freelance Anchor and Producer, SAFM

14.00-14.20  Presentation: ‘Driving mCommerce Across a Large Market’  
Sriraman Jagannathan, mCommerce CEO, Bharti Airtel

Coenraad Jonker, Director of Community Banking, Standard Bank of South Africa

14.40-15.00  Presentation: ‘Overview of Entel’s Successful Mobile Money Service’  
Christopher Collins, Head of Evolution of Services New Products, Entel PCS
## Annex 1 Mobile Money Summit 2010 26.05.2010

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>15.00-15.20</td>
<td>Presentation: ‘Capitalizing on the Wave of Mobile Wallets’</td>
<td>Anthony Belpaire, General Manager, Alcatel-Lucent Mobile Wallet</td>
</tr>
<tr>
<td>15.20-15.30</td>
<td>Q&amp;A</td>
<td></td>
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<tr>
<td>15.30-16.00</td>
<td>Networking Break</td>
<td></td>
</tr>
<tr>
<td>16.00-16.20</td>
<td>From Money Transfers to Enhanced Mobile Financial Services</td>
<td>Mike Singh, Chairman of Indus-Americas and CEO of Telkom Caribe</td>
</tr>
<tr>
<td>16.00-16.20</td>
<td>Joint Presentation: ‘The Customer Perspective: International Mobile Money Transfer’</td>
<td>Khalid Fellahi, Sr Vice President, Western Union Odilon Almeida Senior Vice President and Managing Director, South America Region, Western Union</td>
</tr>
<tr>
<td>16.20-16.40</td>
<td>Joint Presentation: ‘Orchestrating a Group Wide Mobile Money Rollout’</td>
<td>Haridas Nair, Area VP, mCommerce, Sybase 365, Inc.</td>
</tr>
<tr>
<td>16.40-17.00</td>
<td>Presentation: ‘Exploiting Niche Micro Payment Opportunities in a Western European Market’</td>
<td>Frederic Schepens, Executive Vice President, Belgacom</td>
</tr>
<tr>
<td>16.00-17.00</td>
<td>Financial Agents: Coverage, Liquidity and Profitability</td>
<td>Siki Mgabadeli, Freelance Anchor and Producer, SAFM</td>
</tr>
<tr>
<td>16.00-16.15</td>
<td>Presentation: ‘Lessons Learnt from Launching the First Mobile Wallet in Ecuador’</td>
<td>Serge Elkiner, President, YellowPepper Holding</td>
</tr>
<tr>
<td>16.25-17.00</td>
<td>Panel: ‘Financial Agents ñ The Special Ingredient for Mobile Money’</td>
<td>Lauro Gonzalez, Center for Microfinance Studies at FGV, Coordinator, FGV Xavier Faz, Senior Technical Advisor, CGAP Zahir Khoja, Executive Director of Mobile Commerce and Product Marketing, Roshan Neil Davidson, Business Development Manager, GSMA</td>
</tr>
<tr>
<td>17.00-17.05</td>
<td>Networking Break</td>
<td></td>
</tr>
<tr>
<td>17.05-17.30</td>
<td>Closing Presentations</td>
<td></td>
</tr>
<tr>
<td>17.05-17.20</td>
<td>Closing Presentation 1</td>
<td>Marcelo Erlich, Chairman, GSMA LATAM</td>
</tr>
<tr>
<td>17.20-17.30</td>
<td>Closing Presentation 2</td>
<td>Pablo Montesano, Director, New Businesses, Telefónica</td>
</tr>
</tbody>
</table>

_Closing remarks:_

Siki Mgabadeli, Freelance Anchor and Producer, SAFM
Gavin Krugel, Director, Strategic Development for Mobile Money, GSMA Association
# Annex 2 Mobile Money Tracker

## About the Mobile Money Tracker

The GSMA Mobile Money for the Unbanked programme (MMU) was launched in 2009 to accelerate the availability of mobile money services to the unbanked and those living on less than US$2 per day.

Supported by a grant from the Bill & Melinda Gates Foundation, MMU has the goal of reaching 20 million people by 2012. The MMU has launched the Mobile Money Tracker in order to track the progress towards reaching this goal – and ultimately making mobile money a mainstream business. This live tracker may be accessed at [http://www.wirelessintelligence.com/mobile-money](http://www.wirelessintelligence.com/mobile-money).

## BRAZIL

<table>
<thead>
<tr>
<th>Mobile Money Deployments</th>
<th>Oi Paggio (2007)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market Characteristics</td>
<td></td>
</tr>
<tr>
<td>Mobile Penetration</td>
<td>94.90%</td>
</tr>
<tr>
<td>Financial Services</td>
<td>43.00%</td>
</tr>
<tr>
<td>Urban Population</td>
<td>80.75%</td>
</tr>
<tr>
<td>Adult Literacy Rate</td>
<td>90.51%</td>
</tr>
<tr>
<td>GDP PPP</td>
<td>$10,466</td>
</tr>
<tr>
<td>Domestic Financial Flows</td>
<td></td>
</tr>
<tr>
<td>Cash Payments</td>
<td>$525,592 million</td>
</tr>
<tr>
<td>Direct Credits</td>
<td>$1,668,874 million</td>
</tr>
<tr>
<td>International Remittances</td>
<td></td>
</tr>
<tr>
<td>Inbound % of GDP</td>
<td>0.32%</td>
</tr>
<tr>
<td>Inbound Total</td>
<td>$5,089 million</td>
</tr>
<tr>
<td>Top Inbound Countries</td>
<td>Japan, United States of America, Spain</td>
</tr>
<tr>
<td>Outbound Total</td>
<td>$1,191 million</td>
</tr>
<tr>
<td>Top Outbound Countries</td>
<td>Lebanon, Portugal, Spain</td>
</tr>
</tbody>
</table>

[Map of Brazil showing mobile money deployments and market characteristics]
KENYA
Mobile Money Deployments
yu (Essar Telecom)
Zap (Zain [Hart Airtel] (2009))
M-PESA (Safaricom) (2007)
Market Characteristics
Mobile Penetration 56.39 %
Financial Services 10.00 %
Urban Population 45.00 %
Adult Literacy Rate 85.10 %
GDP PPP $1,712
Domestic Financial Flows
Cash Payments $10,990 million
Direct Credits $80 million
International Remittances
Inbound % of GDP 4.90 %
Inbound Total $1.692 million
Top Inbound Countries
United Kingdom
Tanzania
United States of America
Outbound Total $157 million

PHILIPPINES
Mobile Money Deployments
GCash (Global)
SMART Money (Smart [PLDT])
Market Characteristics
Mobile Penetration 86.51 %
Financial Services 26.00 %
Urban Population 63.00 %
Adult Literacy Rate 93.40 %
GDP PPP $3,515
Domestic Financial Flows
Cash Payments $78,580 million
Direct Credits $380,190 million
International Remittances
Inbound % of GDP 11.20 %
Inbound Total $18,643 million
Top Inbound Countries
United Arab Emirates
United States of America
Saudi Arabia
Outbound Total $3,559 million
Top Outbound Countries
China
United Kingdom
United States of America

This map presents the number of planned and live deployments tracked on the Mobile Money Tracker as of August 25, 2010. The numbers in circles are the number of mobile money deployments in the country.
Annex 3 Endnotes


4. As defined by the authors for use in the Mobile Money Summit 2010 Report.

5. As defined by the authors for use in the Mobile Money Summit 2010 Report.


9. Wijayasuriya, Dr. Hans, Director and Chief Executive Officer, Dialog Telekom PLC. 2008. Personal communication (interview), May 14.

Annex 4 Useful references


Eijkman, Frederik., Jake Kendall, and Ignacio Mas. 2009. “Bridges to Cash: The Retail End of M-PESA.”


GSMA.2010. “Mobile Money Definitions.”


Websites:

Bank for International Settlements, Committee on Payment and Settlement Systems: www.bis.org/cpss

CGAP Technology Blog: http://technology.cgap.org

GSMA Mobile Money for the Unbanked Blog: http://mmublog.org

Annex 5 List of Interviewees

Aletha Ling, Chief Operating Officer and Executive Director, Fundamo
Amit Mattatia, President & CEO, Trivnet
Andrew Zerzan, Regulatory Projects Director, GSMA
Bruno Akpaka, General Manager, MobileMoney, MTN Ghana
Clara Veniard, Financial Services Associate Program Officer, Bill and Melinda Gates Foundation
David Sharpe, Head of Products and Pricing, Digicel Haiti
Gavin Krugel, Mobile Money Director, GSMA
George Held, Group Marketing Director, Zain Zap
Haridas Nair, Area Vice President, mCommerce Products, Sybase 365
Khalid Fellahi, Senior Vice President, Mobile Transaction Services, Western Union
Koji Ono, Chief Strategy Officer, Robi
Michael O’Brien, Senior Vice President, Business Development, Syniverse Technologies
Mohammad Khan, President and Founder, ViVOTech, Inc.
Pierre-Laurent Chatain, Lead Financial Sector Specialist, World Bank Group
Odilon Almeida, Senior Vice President & Managing Director, South America Region, Western Union
Richard Mwami, Head of Public Access and Mobile Money, MTN Uganda
Rizza Maniego-Eala, President, G-Xchange, Inc.
Santiago Vásquez, Central Bank of Ecuador
Serge Elkiner, President and Founder, YellowPepper
Sriram Jagannathan, M Commerce – CEO, Bharti Airtel Limited
Wagner Fierro, Director of National Banking Services, Central Bank of Ecuador
Wameek Noor, Consultant, Finance and Private Sector Development, World Bank Group
Zahir Khoja, Head of Mobile Commerce – M-Paisa, Roshan
THE CSR INITIATIVE, HARVARD KENNEDY SCHOOL
Under the direction of John Ruggie (Faculty Chair) and Jane Nelson (Director), the CSR Initiative at Harvard’s Kennedy School is a multi-disciplinary and multi-stakeholder program that seeks to study and enhance the public contributions of private enterprise. It explores the intersection of corporate responsibility, corporate governance, and public policy, with a focus on the role of business in addressing global development issues. The Initiative undertakes research, education, and outreach activities that aim to bridge theory and practice, build leadership skills, and support constructive dialogue and collaboration among different sectors. It was founded in 2004 with the support of Walter H. Shorenstein, Chevron Corporation, The Coca-Cola Company, and General Motors and is now also supported by Abbott Laboratories, ExxonMobil Corporation, InterContinental Hotels Group, Microsoft Corporation, Nestlé, and SAP. www.hks.harvard.edu/m-rcbg/CSRI

INTERNATIONAL FINANCE CORPORATION
IFC, a member of the World Bank Group, fosters sustainable economic growth in developing countries by financing private sector investment, mobilizing private capital in local and international financial markets, and providing advisory and risk mitigation services to businesses and governments. IFC’s vision is that people should have the opportunity to escape poverty and improve their lives. IFC invests in innovative local mobile operators and financial services institutions, while leveraging its international corporate relationships to develop, scale and replicate successful models throughout the developing world, with a focus on frontier markets. IFC also provides advisory services to enterprises that play vital roles in the development of sustainable mobile money ecosystems, including its investment clients and relevant SMEs, such as cash-in/cash-out agents and merchants. In FY10, IFC committed $12.6 billion and mobilized an additional $5.3 billion through syndications and structured finance for 528 investments in 103 developing countries. In the same year, advisory service expenditures totaled $268 million of which 61 percent went to IDA countries. www.ifc.org

The GSMA represents the interests of the worldwide mobile communications industry. Spanning 219 countries, the GSMA unites nearly 800 of the world’s mobile operators, as well as more than 200 companies in the broader mobile ecosystem, including handset makers, software companies, equipment providers, Internet companies, and media and entertainment organisations. The GSMA is focused on innovating, incubating and creating new opportunities for its membership, all with the end goal of driving the growth of the mobile communications industry. For more information, please visit Mobile World Live, the new online portal for the mobile communications industry, at www.mobileworldlive.com or the GSMA corporate website at www.gsmworld.com.

The Technology Program at CGAP works to expand financial services for the poor using mobile phones and other technologies and is co-funded by the Bill & Melinda Gates Foundation, CGAP, and the UK Department for International Development (DFID). CGAP is an independent policy and research center dedicated to advancing financial access for the world’s poor. It is supported by over 30 development agencies and private foundations who share a common mission to alleviate poverty. Housed at the World Bank, CGAP provides market intelligence, promotes standards, develops innovative solutions and offers advisory services to governments, microfinance providers, donors, and investors. Learn more at www.cgap.org

DFID, the Department for International Development, is the part of the UK Government that manages Britain’s aid to poor countries and works to get rid of extreme poverty. We work towards achieving the Millennium Development Goals – a set of targets agreed by the United Nations to halve global poverty by 2015. DFID works in partnership with governments, civil society, the private sector and others. It also works with multi lateral institutions, including the World Bank, United Nations agencies and the European Commission. DFID works in over 150 countries worldwide. It’s headquarters are in London and East Kilbride. www.dfid.gov.uk