

EFInA Innovation Forum Challenges of Building and Operating Mobile Money Services in Nigeria

Susie Lonie: 15th May 2012



Mobile Money or Mobile Banking?

Mobile Banking

- Customer has a conventional bank account
- His money is held in his bank account
- He can choose to use his phone as a channel to make payments from his account...
- ...or he can use other channels eg bank teller, ATM, in store POS device

Mobile Money

- Customer has no regular bank account - he has a MM account linked to his phone number
- His money is held in a pooled single account at a bank
- He uses his mobile phone to make payments from his account
- The MM system tracks ownership of the money in the pooled account

MM provides REAL TIME money movement



Mobile Money is a new industry

- 123 live mobile money deployments worldwide
- 90 more are in progress











Less than 10% of Mobile Money Services are successful so far



What are the industry challenges?

Agent **Inappropriate Banking culture Business Case** regulation management **Agent Software** Relationship **Telecoms culture** Liquidity with Regulator **immaturity Shortage of Disruptive** High Wrong industry experts technology assumptions start up costs Non-Core Interoperability & Consumer M-PESA in Interconnection education **Business** Kenya MM is a new and immature industry



InA M-PESA Lessons Learned



Pilot with a limited number of participants to ensure all the business processes work and everyone knows what to do

Ensure that any transaction can be reversed by an approved operator

Make sure that every agent assistant knows what to do – train, train again and visit regularly

Have full escalation and fault resolution processes in place

Monitor Agent e-float from day one

Keep the customer offering simple and clear

Ensure that reporting is working properly before launch

Build for large scale

A core operating team who REALLY understands the system is essential



Company Assumptions – the first hurdle



Mobile Money is a new type of business and it is not easy



Company Culture – the second hurdle

- We are prudent and risk averse
- We will not upset our relationship with the financial regulator
- ...who is NCC?
- BANK BANK



- We are a young and innovative industry
- Let's get out there fast and learn as we go

...who is CBN?





Partnerships between Banks and Telcos are not without their problems



Challenges: Mobile Money Technology

Mobile Money technology is relatively new and there is not yet clear best practice for the design

- The customer experience varies by vendor and channel used
- The Agent structure and services available varies by vendor
- The back office functionality is not standardised

Telco systems are of variable quality, capacity and availability

- MM has many core Telco touch points
- The MM SLA need to be of a similar standard to the network SLA

APIs are available but the data carried may be different to bank expectations

A high level of on-going project management is needed



Challenges: Interoperability

There are two kinds of Mobile money interoperability

1. Interconnection with other Financial Systems

- APIs Allowing financial transactions to be processed in the same way as from a regular bank account
- Bill payments/ ATM integration/ Bank to MM/ MM to Bank/ POS integration
- Each vendor offers some form of integration, most need development

2. Interconnection between Mobile Money systems

Mobile Money systems are currently closed loop & do not operate on the four party model

- There are no scheme rules governing how they should operate in real time
- There are no financial rules governing how interoperability should be charged
- The business case for Mobile Money interoperability is not clear

The former can be done: the latter is not yet commercially feasible





Challenges: Connectivity

Mobile technology provides several channels for you to communicate with your customers



	SIM Toolkit / SMS	USSD Gateway	Voice Prompt (IVR)	Mobile Internet
STRENGTH	 FRIENDLY USER INTERFACE INSTRUCTIONS ENCRYPTED SMS 	AVAILABLE ON ANY MNO SIMMENU UPDATED ON GATEWAY	AVAILABLE ON ANY MNO SIMREADING SKILLS NOT REQUIRED	FRIENDLY USER INTERFACESECURE & ENCRYPTED
WEAKNESS	❖ TECHNICAL ACCESS TO SIM❖ SIM SWAP MAY BE NEEDED	LESS INTUITIVE	❖ SMS REPLIES ARE WRITTEN❖ INSTRUCTIONS NOT ENCRYPTED	❖ NEED SMART PHONE TO USE❖ NEED DATA COVERAGE

Choosing your channel is a blend of cost/ availability/ user experience



Challenges: The Agents

- Agents need to deposit their own cash to get e-money float
- ➤ In the first years there are few customers and few transactions
 Many agents make little return from this float at first
 Running out of float is common leading to poor customer service
- Plus they need vetting and training and cash float...

Strategies are needed to keep agents engaged and investing

- Reward registration of ACTIVE customers well
- Reasonable commission for transactions
- Bonuses for good performance
- Super-Agent network for fast cash/ e-money turnaround
- ...and penalties for poor performance and inappropriate practices

You need the Agents much more than they need you





Challenges: Agent Assistants



The Agent Assistant is your first point of customer contact

Agent transactions must be a happy experience for all

- Inspiring confidence in the customer that their money is safe
- Inspiring confidence in the assistant that they can do the job

The assistant is your strongest marketing resource

- An ambassador for MM within their community
- ✓ An unofficial (and free) trainer to your customers
- ✓ Providing unofficial "first line" customer care

Agent Assistants need excellent training



Challenges: Consumer Proposition

The customer proposition defines WHO you are targeting

Rural unbanked/small traders/diaspora/low paid workers...

And WHY they will want to use the service

To send money home To pay their bills easily

To store money safely To pay their staff salaries and expenses

To support their kids For emergencies For airtime

The customer proposition needs to be clear and single-minded

KEEP IT SIMPLE!

Communication needs to be "hands on" with a lot of BTL











Who is your customer and what problem are you solving for him?



Challenges: Training

Everyone must learn the customer, agent & merchant "user experience" plus...



INTERNAL

- Operations account creation and editing
- Customer Services agent and consumer account & transaction queries
- Finance especially e-money vs bank account reconciliation
- > Product & testing teams system functional architecture and usage
- > Technical system and interfaces to other services & their limitations

EXTERNAL

To train agents, merchants and assistants a field training team is necessary

> The assistants need to be trained in store - not in a classroom

Then the customers need to be taught to use the service...

Dedicated internal & external training resource is needed



Challenges: Operations

The scheme operator has many complex tasks to perform

- Recruit and set up agents
- On-going agent management
- Manage customer registration procedures
- Financial operations control account cash in and out
- Control account reconciliation
- AML monitoring and Regulatory reports
- Customer Services
- Technical operations



Agent Set Up										
Agent document collection	Agent vetting	Sign contracts	Create agent on MM system	Train managers	Train assistants	Deliver handsets & POS	Agent go live			

Full detailed Business Processes NEED TO BE USED



Challenges: Finance

The MM Finance team needs additional resource

- Reconciling e-money vs "real" money in bank
- Creating e-money when an agent deposits float at a bank
- Removing e-money when an agent requests float withdrawal
- Reconciliation & payment of agent commission
- Transfer of bill payment principal to PSPs and utilities
- Reversing mistaken transactions
- Performing reconciliations for sms, airtime sales, ussd etc

Processes are needed to minimise the sign-off process

Structure the business to minimise the number of bank transfers





Challenges: Legal

A Legal Business Structure must be agreed

And contracts between the parties signed

Then contracts need to be created for

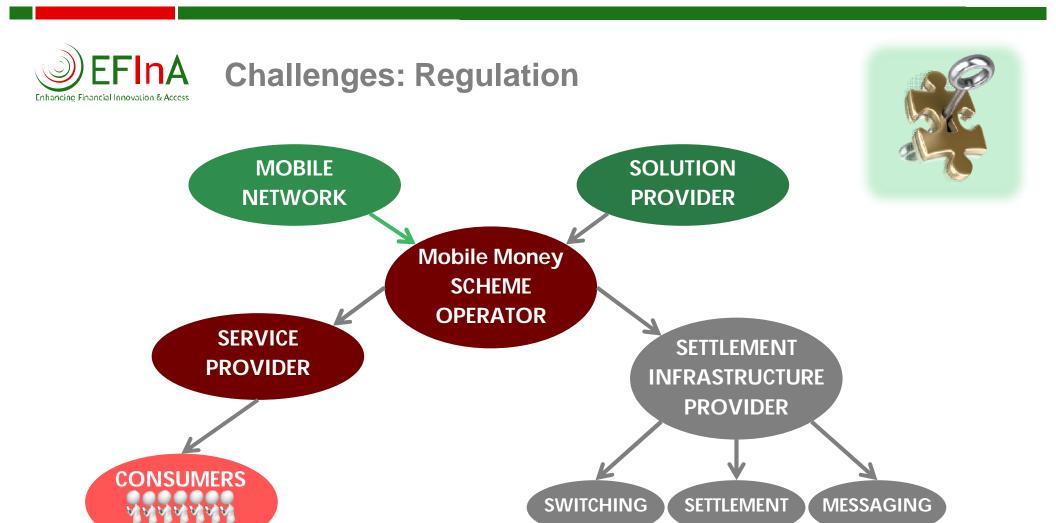
Customers

THESE MUST BE SHORT AND SIMPLE

- Agents
- Agent Aggregators
 (Expect the Agent contracts to require negotiation and amendment)
- Merchants, Utilities, PSPs (for C2B payments)
- Employers (for B2C payments)
- Switch providers
- Telecoms service providers



Legal Support requirements are significant



Who "owns" the customer? What does "own" mean?





How can EFInA help you to overcome these challenges?

- **Sharing best practices from successful mobile money services**
- Creating a working group for tackling shared issues with one voice
- **❖ Initiating/ funding projects to serve all Nigerian mobile money schemes**



Best Practice: Organisational Structure

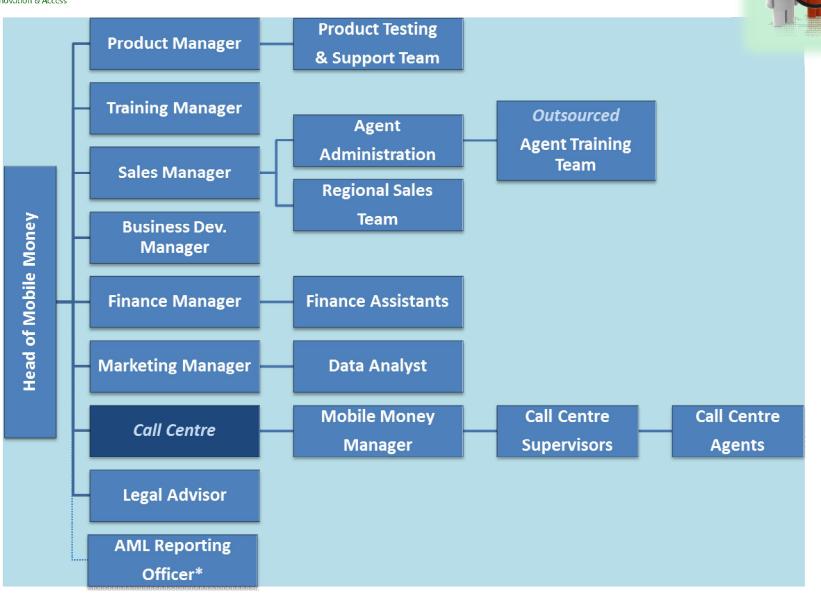
- A core team of specialists from key disciplines seconded to Mobile Money and supported by other specialist departments
- Small team of "service owners" with everything else devolved to specialist departments
- A new division with dedicated resource from all disciplines



Dedicated resource in each area is needed whatever the structure



EFInA Best Practice: Dedicated Staff for Start-up





Best Practice: Reporting and KPIs

Reliable reports must be available from the day you launch

- For regulatory compliance
- For competent business administration
- Daily reports are needed for e-money vs bank balance reconciliation
- Monthly reports on standard AML measures
- Business administration reports

Key revenue generation variables are:

number of active customers gross/ net revenue

txns per customer per month transaction split by type

registration commission agent transaction commission

No of active agents Agent quality of service

airtime discount size of control account

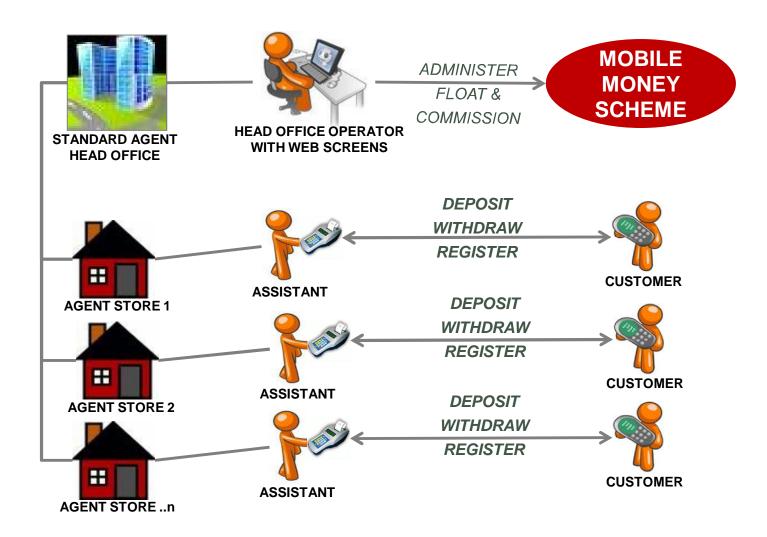
Ensuring a common understanding of minimum requirements





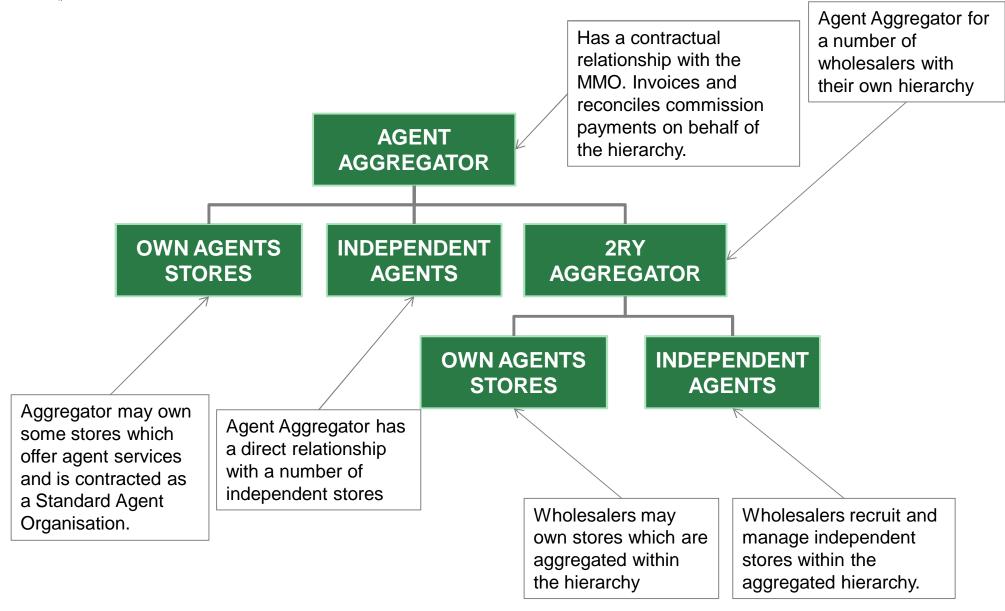
Best Practice: Standard Agents

The Agent Organisation owns several stores





Best Practice: Agent Aggregators

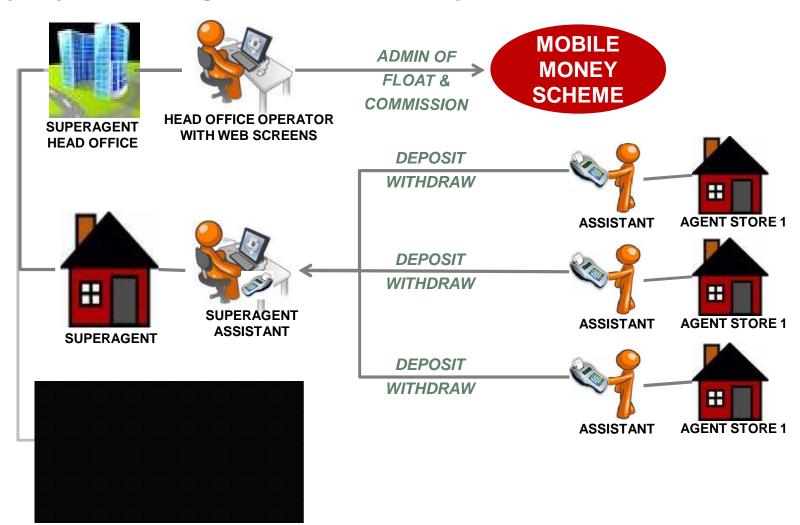




Best Practice: SuperAgents

SuperAgents act as Agents to other Agents to assist with float management

- they may also act as agents to customers if they wish





Best Practice: Business Case



There are 3 ways to earn direct income from Mobile Money

TRANSACTION

AIRTIME

*INTEREST ON

COMMISSION

DISCOUNT

E-FLOAT ACCOUNT

And 3 indirect ways

CUSTOMER ACQUISITION

*CHURN

REDUCTION

*INFRASTRUCTURE OVERHEAD

Typically a successful deployment takes at least 2 years to break-even (direct)

The business case must be built from the bottom up



Best Practice: Consumer Tariff Guidelines*



REGISTRATION

- FREE

DEPOSIT

- FREE

AIRTIME TOP UP

- FREE (NO MARK UP)

WITHDRAW (UNREG)

- FREE (SENDER PAYS)

SEND P2P (REG)

- FLAT FEE

SEND P2P (UNREG)

- STEPPED REG CHARGE (P2P + WITHDRAW) x 1.4

WITHDRAW (REG)

- STEPPED BY VALUE

ATM WITHDRAW

- 10 - 15% >AGENT W/D

PAY BILL (C2B)

- SAME AS P2P +/-
- WHO PAYS?

BULK PAY (B2C)

- SAME AS P2P +/-
- BUSINESS PAYS

MM TO BANK

- SAME AS P2P +/-
- SENDER PAYS

BANK TO MM

- FREE TO MM
- BANK CHARGES

Charged transactions must cover agent cost of deposit

* Based on current successful services



Common Forum: Regulatory Framework



The regulatory framework is very clear on some points but interpretation is required on others

- EFInA could work with CBN to create industry guidelines based upon the mobile payments framework for example
 - Customer registration requirements for each tier
 - Implement agent banking guidelines
 - Agent recruitment and qualification requirements
 - Transaction receipts and their content
 - Interoperability between mobile money schemes
- EFInA could work with NCC to ensure better collaboration between scheme operators and MNOs

Ensuring a common understanding of minimum requirements



Initiating Projects: Education



There are a number of shared training challenges

- **❖** Jargon-busting creating a common language for mobile money
- **❖** Best practice training materials templates for consumers and assistants
- **❖** Standardised AML training for agents and assistants
- High level training on telecoms infrastructure and connectivity
- High level training on financial switching infrastructure and connectivity
- **❖** Workshops on specific topics –business processes, agent sructures etc

Education is essential for mobile money to thrive



Initiating Projects: Agent Management



Agent liquidity needs to be tackled, for example by:

- Creation of low/no interest Agent Float Loan schemes
- Promoting Super Agent services to accelerate e-money recirculation
- Creating a cooperative shared agent recruitment scheme?

What are your major challenges?



Initiating Projects: Agent Management



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Proposed EFInA Actions

1. Create best practices documentation / workshops

- Jargon-busting lets agree to a common language for Mobile Money
- KPIs and reports what needs to be measured to run a successful business
- Standardised AML training for agents / assistants
- Key topic reviews agent management, tariffing, organisation structure, telecoms / banking infrastructure, business process evolution
- Training materials white labelled for you to customise

2. Create a working group for tackling shared issues with one voice

- Industry guidelines for all operational areas
- Determining HOW interoperability is supposed to work
- Collaboration with telcos via NCC

3. Initiating/funding projects

- Shared agent recruitment via aggregators
- SuperAgent engagement

