



Mobile money: the world and PNG

Mobile Money Summit
Port Moresby 21-22 October 2008



Outline

- What are mobile money models?
- What is happening in the rest of the world?
- What is the potential here in PNG?



Definitions

MOBILE MONEY

M-PAYMENTS

Use of mobile to effect payment

M-BANKING

Use of mobile for banking transactions

M-COMMERCE

Purchase of goods and services using mobile

E-BANKING

Use of electronic channels for banking (such as internet, ATM)



Branchless banking involves a mix of instruments, devices and channels



Instruments

- Cash
- Check
- Money order
- Debit order
- Mag card
- Smart card
- Mobile phone



Devices

- ATM
- PC
- Dedicated terminal
- Kiosk
- Point of sale device
- Mobile phone



Channels

- Branch
- Bank staffed branch
- Mobile bank
- Internet
- Mobile phone
- Merchant/ agent
- ATM

Comms channels

- Wireless
 - 2G:
 - SMS,
 - **USSD**
 - 2.5G:
 - **GPRS**
 - •3G
- Fixed line
- VAN
- Satellite

The mobile phone cuts across, causing confusion but is one among many approaches



What does the client require? Phone vs card





What type of handsets do clients have?





- Handset capability:
 - Standard phones
 - Advanced:
 - Feature phones
 - Smart phones



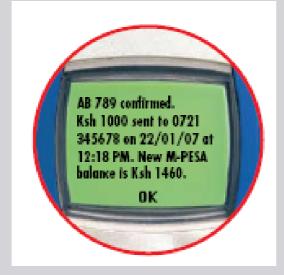
- Also:
 - which networks are they on?
 - how reliable is the coverage?

How does it work—MPESA?



In your M-PESA menu pick "send money" & enter

- 1. Recipient phone number
- 2. How much you want to send
- 3. Your secret PIN





You both receive SMS confirmation of the transfer

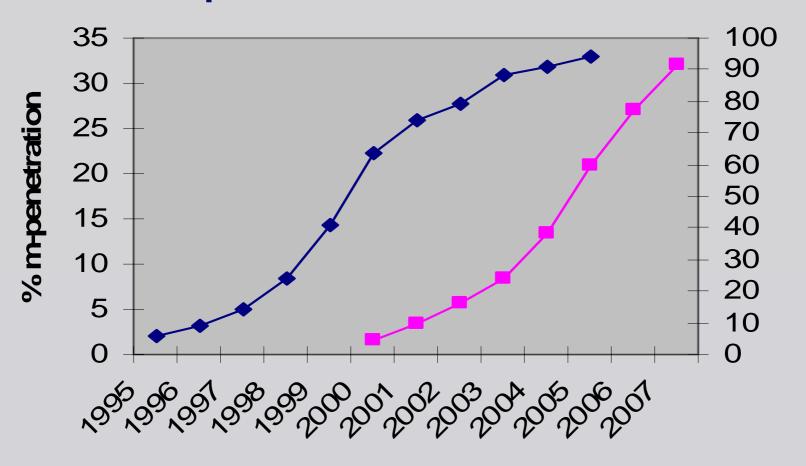


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Mobile penetration follows the S-curve

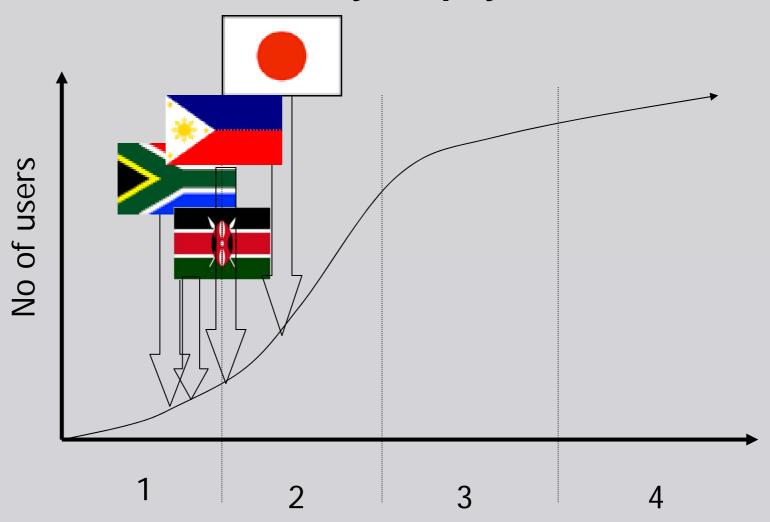


Indonesia LHS — Western Europe RHS

Source: ITU 2004/ WI 2007

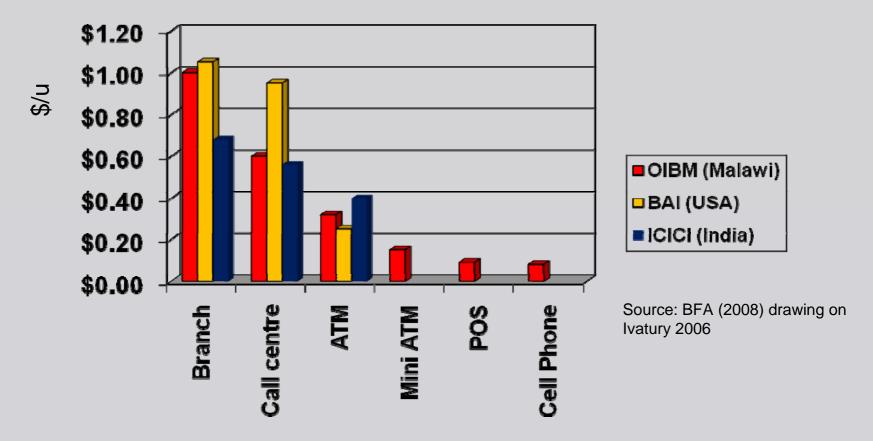


Current reality: m-payments





The main motivation is reducing transactions costs



But for telcos—also to increase ARPU & reduce churn



Who is eligible? A basic segmentation

		Client has mobile phone?		
5490 1234 5678 SHOULD THE		Yes	No	
Client has bank account?	Yes	Additive (13%)	Growth (6%)	
	No	Transformational (13%)	Future market (68%)	

% are for Kenyan adults 2006 Source: FinAccess Kenya 2006



A mobile money model comprises:

Legal liability	Who is legally responsible for the store of value?
Brand	Whose brand is at risk?
Access points	Where can the service be started and Where can it be accessed?
One or any carriers?	Is it linked to one MNO or none?



1. Bank driven

Legal liability	Bank	
Brand	Bank	
Access points	Bank	
One or any carriers?	Any	
Examples	FINB First National Both How can we help you?	



2. Joint venture (NonBank/ Bank)

Legal liability	Bank	Bank	
Brand	Bank	Joint—non- bank	
Access points	Bank	Bank + new agents	
One or any carriers?	Any	One	
Examples	FNB First National Book How can we help you?	Banking A division of Standard Stand	



3. Payment platform

Legal liability	Bank	Bank	Multiple banks	
Brand	Bank	Joint—non- bank	Own	
Access points	Bank	Bank + new agents	Bank + new agents	
One or any carriers?	Any	One	One or any	
Examples	FNB First Notional Book How can we help you?	Banking A division of Standard Black	Smart Money	



4. Non-bank driven

Legal liability	Bank	Bank	Multiple banks	Non Bank
Brand	Bank	Joint—non- bank	Own	Non Bank
Access points	Bank	Bank + new agents	Bank + new agents	Agents
One or any carriers?	Any	One	One or any	One
Examples	FINB First National Back How can we help you?	Banking A division of Standard East.	Smart Honey	M-PESA



Summary

	1. Bank driven	2. JV	3. M- payment platform	4. Non-bank driven
Legal liability	Bank	Bank	Multiple banks	Non Bank
Brand	Bank	Joint—non- bank	Own	Non Bank
Access points	Bank	Bank + new agents	Bank + new agents	Agents
One or any carriers?	Any	One	One or any	One
Examples	FINE First National Books How can we help you?	MIN Banking A division of Standard Bank	Smart Honey	M-PESA



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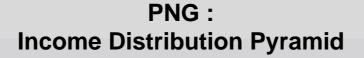


There is strong demand for transactional banking products

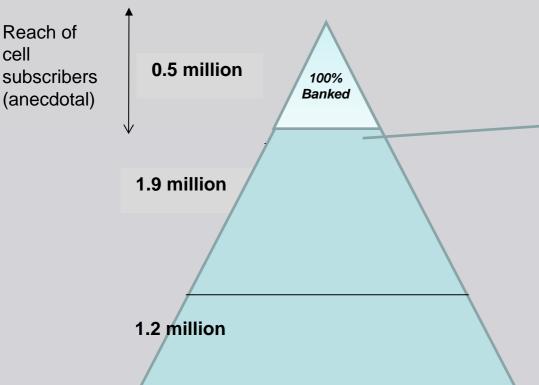
- Takeup: e.g. BSP debit card, microfinance
- Attitudes towards formal institutions: seem positive
- Remittances: currently low but likely to rise
- Alternatives for domestic transfers limited



The additional market may be 1.9m adults



Population= 6m Adults (15+)=3.6m



Microfinance banks/S&L: +200,000 with no electronic access:



Benchmarking access in PNG

	PNG ***	Kenya	Philippines
1.GNI pc (US\$ current)	\$850	\$680	\$1620
2. Area 000 km2	452	569	298
3. % Rural	87%	79%	36%

Bankable Frontier Associates

PNG is close to LIC norms for banking

	PNG	Kenya	Philippines
3. % banked	16%e	19%	26%
4. % mobile penetration	10%e	30%	50%
Per 100,000: 5. Branches	1.3	1.4	9
6. ATM	3.2	2.3	7.5
7. EFTPOS	64	6.8	55
8. Touch pts/000 km2	9.25	4.1	223

Source: I4: WDI

L3,5,6,7: PNG: interviews; other countries: various



The outlook for m-banking is favorable, but with risks

- Both MNOs can technologically support m-banking
- Coverage already of large proportion of additional market (80%); coverage & acquisition race is expanding addressable market
- The regulatory environment does not block innovation but may be too uncertain in some respects
- All major banks have expressed intention to implement mbanking
- Broader economic and social environment supports move to ecash and P2P





Thank you!

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The regulatory implications of mobile money

Mobile Money Seminar
Port Moresby 21-22 October 2008

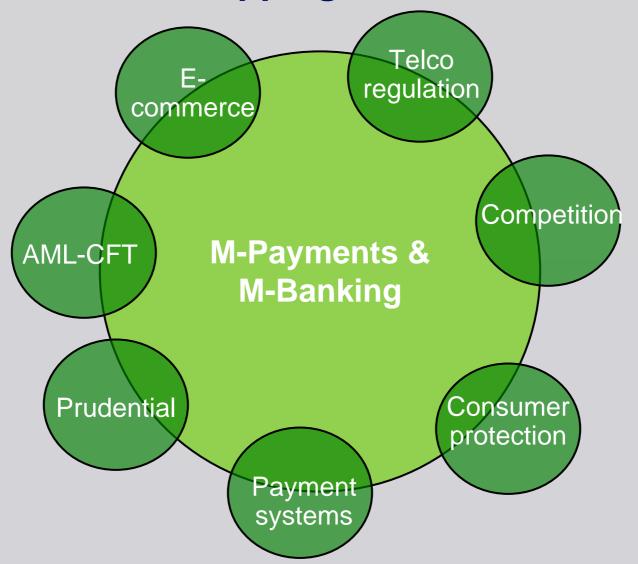


Contents

- What are the key policy & regulatory issues?
 - How to ensure financial integrity and avoid money laundering?
- How to create effective cross-sector regulation?
- How best to engage regulators?



There are overlapping domains & issues



There are two 'necessary but not sufficient' preconditions

- Authorization to use retail 'agents' as the cash-in/cashout point and principal customer interface
- Risk-based approach for combating money-laundering and terrorist financing adapted to realities of remote transactions conducted through agents



Next generation topics

- Regulation to mitigate risk of catastrophic failure
- Issues that will affect scaling up and sustainability of branchless banking

Issues:

- Appropriate regulatory space for the issuance of *e-money* and other stored-value instruments
- Effective consumer protection (on a variety of fronts)
- Inclusive payment system regulation and effective oversight as branchless banking reaches scale
- Rules governing competition among providers and promoting interoperability

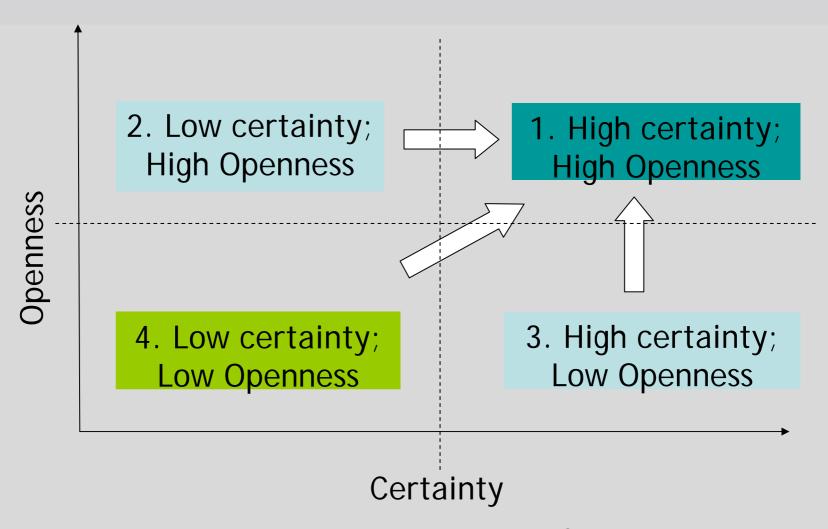


What constitutes a proportionate regulatory approach?

- Existing regulation not drafted with convergence of banking, payments and telecommunications in mind
 - So it is both over- and under-protective
- Pace of change (including change in scale) can be rapid
- Proportionate regulation balances openness to innovation with sufficient certainty for providers and consumers as to costs and risks



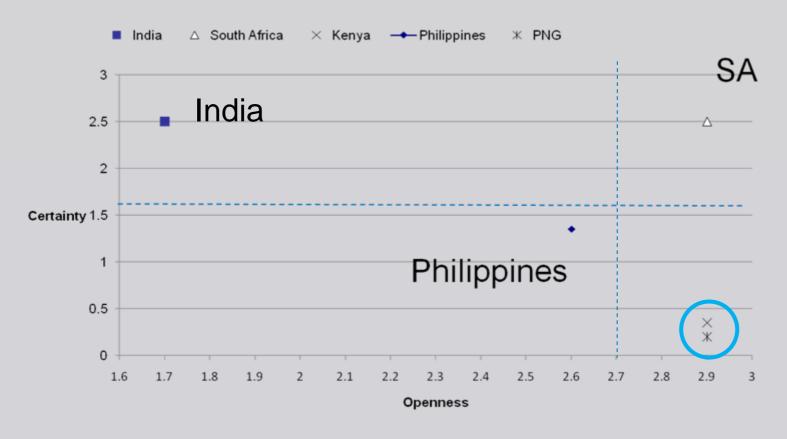
What is an enabling environment?



Source: BFA 2006

The regulatory environment in PNG is highly open to TBB but quite uncertain

TBB ratings





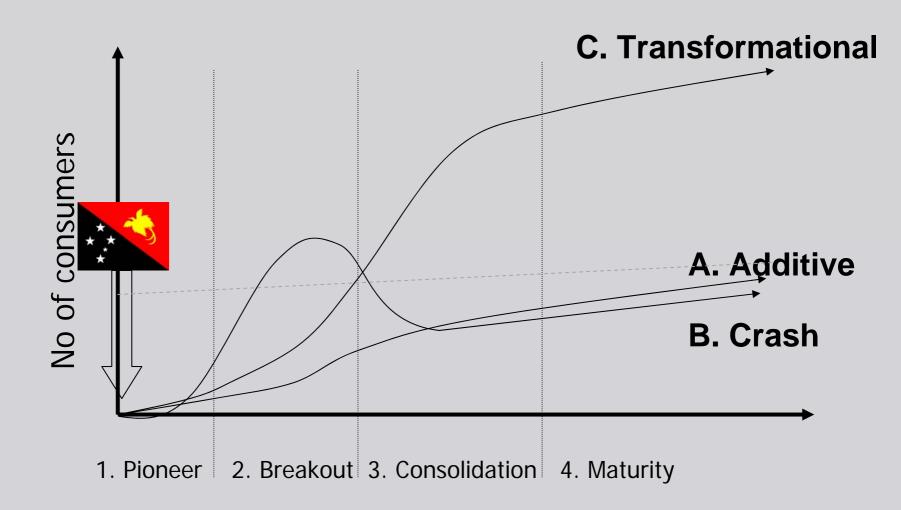
Engaging regulators

Regulators differ in their authority and in their attitudes towards innovation, but:

- Good practice: engage early
 - E.g. Philippines
- When is authorization or no objection required?
 - E.g. Kenya
- Maintain good practice even when not required to do so
 - E.g. Vodafone



On which trajectory is PNG?





Thank you!

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