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Mobile Financial Services (MFS) entered the market in 2007, yet **only 0.1% of Indonesian adults** have ever used mobile money, leaving the financial landscape driven by banks and nonbank financial institutions.

Why has it failed to scale?



Poor Design Limits Scalability and Interoperability

Arising from non-intuitive UX, fragmented technology interfaces & technology design lead by disjoint and closed loop legacy systems

"Everything I know about using my cellphone comes from my children" *-IGN Sentana Suastika*

WHAT THEY GET

"We tried purchasing a 6k Rp soft drink at modern mart POS using mobile money, ended up spending **25 minutes** to transact!" -Amdocs research team

- Technology should be the enabler, NOT the disabler needs to be affordable, secure and simple
- The branchless banking pilot was largely aimed at the unbanked customers, who tend to be less technologically savvy
- Agents need to be empowered with low investment, intuitive tools for education and to efficiently perform assisted transactions for low sophisticated users

- Non-intuitive merchant checkout with disjoint interfaces results in high transaction processing times and long ordering queues
- Non-standardized Legacy merchant systems increases onboarding complexity, integration costs and limits interoperability
- Technology-driven design 26 digits USSD string!

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Ordering code that doesn't directly relate to the product's value, forcing users to make extra association

Resulting in products that fail to meet consumer needs

And outperform incumbents like cash and informal financial services



No one has yet figured out what consumers want

Although business interests and regulatory objectives are clearer, all stakeholder interests must align for MFS to reach scale



How can HCD help?

Which insights from the field can we leverage to deliver value?

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THE STORY OF INDONESIA'S PRODUCTIVE POOR

https://www.youtube.com/watch?list=PLnlezJPLlxqvcNS2LXNyZofjzdLDhyejm&v=XaP00 Xynfjk



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Financial Diary for the Daily Saver

High volatility in income flow, daily active-savings discipline, poor financial literacy and multiple open lines of credit



Financial Diary for the Daily Saver

Majority household income is locked in liabilities and multiples open lines of credits for managing daily liquidity



Implications for Product Design

Daily Savings and short-term financing devices help smooth volatility but unable to lift her from the cycle of credit and provide long-term financing to create a lasting impact

- Higher concentration of income in liabilities versus savings with multiple open lines of credit and poor awareness of interest rates
- Savings are put to work in 'Active' Savings in ROSCA (Arisan) with tangible benefits of interest payout - either for self or for community
- Patience to wait out for longer period yields
 higher interest payout
- Low propensity to store savings in 'liquid' or 'idle' form
- Match income to immediate spending in assets even with unexpected incomes
- Financing options for longer-term investments are limited to make a lasting impact to livelihood enhancement

Financial Literacy Tools to **build financial capability,** manage repayment schedules and achieve savings goals



The poor need **active savings products** that **yield interests** or **auxiliary benefits** like helping achieve savings goals for **self and community**



Access to Longer Term Financing Options with affordable cost of credit to realize lasting impact on livelihoods

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ACTIVATING 'CHANGE' AGENTS

Transform existing retail infrastructure into low-cost community banking outlets

Mobile + Agent Banking lowers costs for financial inclusion

For sustainable financial inclusion products for micro-entrepreneurs like Ibu Gusti



(2 deposits, 2 withdrawals, 1 transfer in agent channels)

1. Micro-loans: Short term liquidity shots

Emergency loans products help smooth income volatility and manage short-term liquidity needs



FI – Telco partnership model



- Data analytics for risk assessment
- Underwrites credit from their balance sheet and bears risk for defaults



- Serves as initial source for data
- Provides distribution channel for credit provision



- Key data points are level and frequency of mobile money transactions and loan repayments for repeat users
- Call data and demographics do not play as important a role



2. Build comprehensive credit history via digital footprint

A self-learning 'big data scoring' algorithm that perfects over time and minimizes risk



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Integrated decision engine gathers inputs from multiple digital touch-points

3. Extending long-term financing options

Leveraging new age risk assessment models for non-collateralized lending that can make significant impact to the lives of productive poor



4. Digitizing Informal Micro-finance & ROSCA models

Leveraging group wallets, group savings and group lending for increased credit worthiness



5. Community based P2P Lending

Crowdsourcing Funds from friends, family and marketplace lenders



Create wish list



Invite friends and family to contribute to wish list and set recurring payments



Track and Redeem Wish (Instant Buy from retailer website)

6. Pooled Savings as Pre-Cursor for Financial Capability

Increase Deposit Base for FI to further increase priority lending , increase interest payouts and build financial literacy

1. Create group wallet with term period and savings target defined by group admin

3. Admin invites members to join the group account by linking to existing customer reference number (mobile, email, etc.). Members accept invite to join

4. UNLOCK: In case of emergency cash-out by a member, group rules define approval terms by all members. Individual contributions will then be transferred to individual wallets



2. Savings rate is automatically calculated based on group wallet definitions

5. Group members automatically transfer recurring amount from principal savings account into group wallet based on rule definitions at product creation

6. Members earn interest on daily/monthly basis against the total wallet balance as per savings terms

7. Financial Literacy and finance management solutions

Intuitive UX, alerts and gamification to seamlessly build financial capability



To summarise...

All stakeholders must align for MFS to reach scale while keeping the customer in the forefront



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LENDING PRODUCT

1 Baseline delivery costs for lending product

an of \$180	Annual cost per Ioan, \$US	Key activities	Comments
vistribution & customer acquisition ²	1.0 - 3.5	 Credit officer conducts customer education with potential applicants (e.g., financial literacy training) Marketing and advertising 	 Very little marketing and advertising cost as most new customers come through referrals
Loan application	3 - 5.5	 Credit officer meets with applicant to take in application documents and meet guarantors Credit officer and branch manager review applications 	 Applicants typically must come for multiple visits because they do not have all documents and guarantors on first visit
Loan processing	5.5 - 6.5	 Admin officer enters applicant info into database Head office or branch manager reviews application Loan is entered into lending platform Credit officer gets final customer signature and disburses funds 	 Steps can vary according to bank model (e.g., level of centralization, use of technology)
rigination and underwriting	10 - 20	 Credit officer conducts home visit to assess riskiness and collateral Transport costs for home visit Credit committee (3+ people) meets to review loan 	 Home visit the primary cost driver Separate in-branch credit committee only exists for some banks
Loan servicing	5 - 9	 Cashier collects loan payments once / month Credit officer checks in on borrowers over the phone or in-person 	 Some banks use mobile payments, lowering cashier costs Some banks check-in regularly to monitor business performance
n maintenance	~0.5	 Accountant manages portfolio, prepares books, and files internal and external reports (e.g., audit) 	•
п	2 - 2.5	 Labor and infrastructure costs on maintaining core loan management system 	•
Collection	1.5 - 7	 Credit officer calls and text borrower Credit officer visits home of borrower to collect collateral and track down guarantors 	 Cost varies significantly with share of loans in default at a given time and intensity of collections operation
Risk cost	9 – 11	Losses from write offs	 Loss rate of 5-6%, typical across business offering microloans
Total	40 - 65		

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