Financing Off-Grid Renewable Energy: Lessons Learned

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Addressing The Problem



 Approximately 1.6 billion people live without access to electricity, thus relying on kerosene and other biofuels for lighting



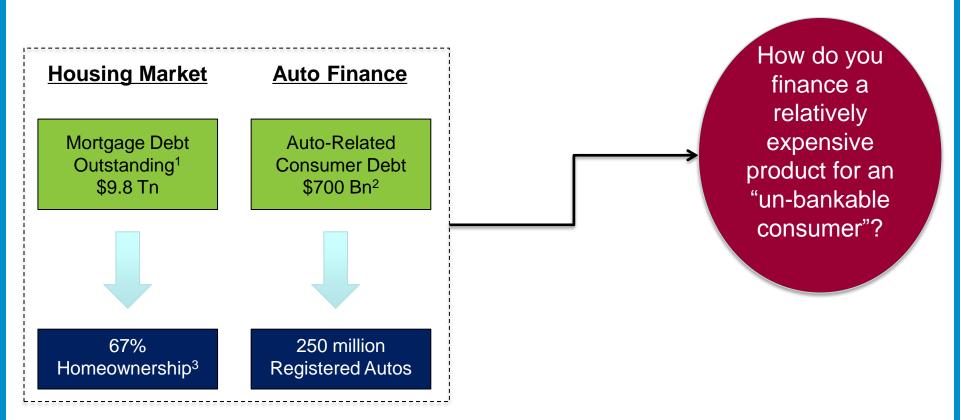
 Several good companies at work and there is tremendous potential, but worldwide penetration is only 1%



"The price of the product is the greatest concern for most respondents; due to their typically low incomes, it is difficult to pay the full purchase price at once..."



Consumer Finance Can Unlock Markets



¹Freddie Mac investor presentation. Data of as of 12/31/11.

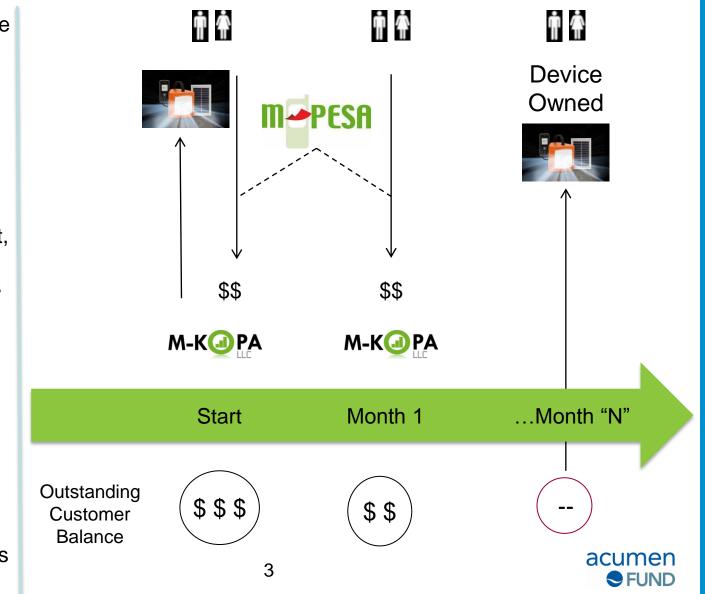
² US Bureau of Transportation Statistics, 2009.

³ US Census Data, 2010.



M-KOPA Model: "Pay As You Go"

- d.light S201 retail price of ~ \$45 is unaffordable for those without access to credit
- M-KOPA allows consumers to make a small upfront payment, followed by incremental payments over 4 – 9 months
 - M-PESA service used for payments
- Innovative technology allows M-KOPA to monitor and regulate device usage based on customer payments



Large Untapped Market to Replicate Successful Models

Technology

- + Short Message Service
- + Global Systems Mobile
- + Mgmt. Info. System

Partners

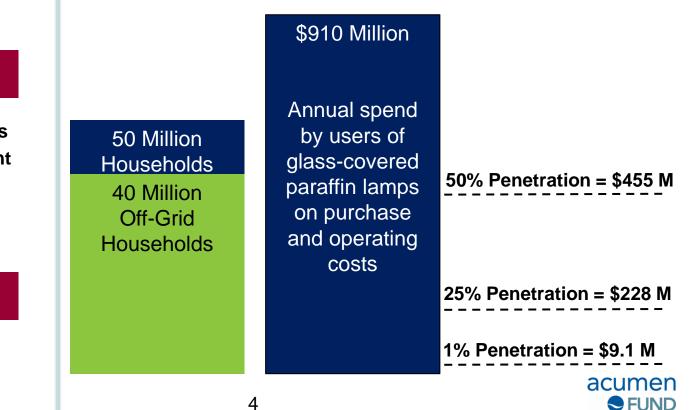
- + Incubators / advisors
- + Product development
- Retail distribution agents

Financing

- + Grant
- + Investment
- + Financial Guarantee

+ IFC "Lighting Africa" Report

 Market study of Kenya, Ghana, Tanzania, Ethiopia and Zambia

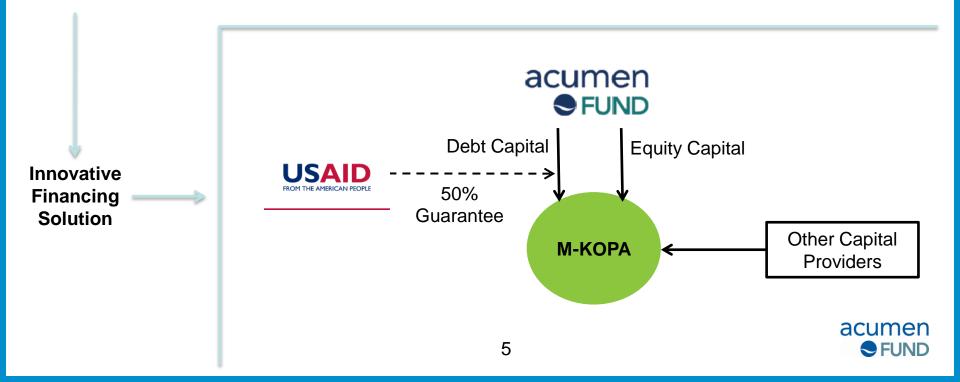


Unique Partnership for Innovative Capital Structure

+ Local commercial lenders are not willing / capable to provide funding at interest rates that are economically viable for early-stage enterprises

+ Multiple forms of capital have been utilized in the M-KOPA transaction

- Seed-stage / Grant
- Investment (equity and loan)
- Financial Guarantee



Lessons Learned

- Proving a successful model in this market has significant implications for increased penetration of clean- energy products
- + A developed and united ecosystem of technology and financing partners is required to replicate this model
- + Two significant development opportunities
 - Access to clean-energy
 - Access to consumer finance

