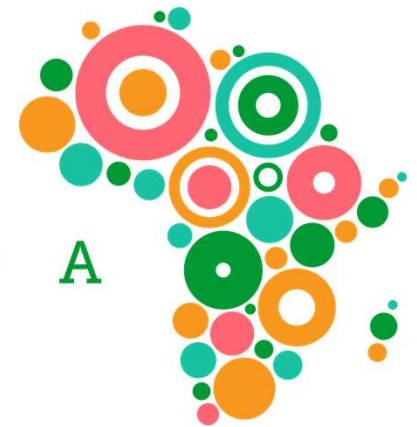


SMART RBF
*for achieving radical scale-up of
Minigrids in Africa*

Shell Foundation | 

A M D A



Overview

- Background
- Key Principles
- Why we need this facility
- Experienced Developers
- Subsidy and simplicity
- SMART RBF

- Previous RBF programs in Kenya and Tanzania pioneered by DFID, SIDA & others helped companies in “learn by doing”

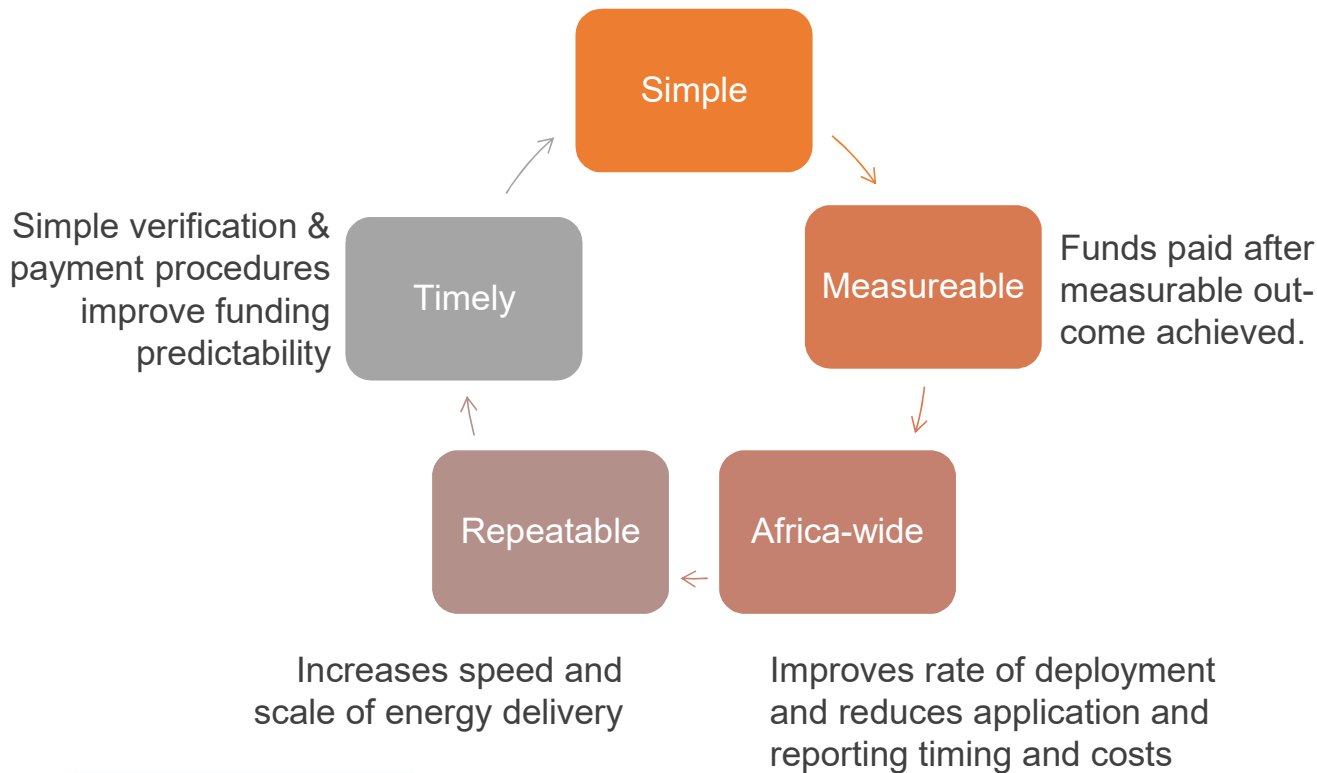
Key learnings and challenges emerging from these included:

- Average time from announcement of subsidy programs to first deployment is >3 years
- Companies (especially small ones) can't sustain their business while waiting for concessional funds to be deployed
- Payment challenges also created uncertainty for investors that these programs were meant to be crowding in.
- While waiting for concessional money it is very hard to hard to raise funding and build sites (it's common for developers to spend 2+ years to raise funding for 2-3 sites. This will not scale)
- Due diligence was heavy and at times incredibly cumbersome, as was time spent helping consultants design the program

Background on Previous RBF Programs:

Principles of SMART RBF

Subsidy is fixed and available after installation, eligibility is clear.



Truly results-based – no funding until the connection has been made

Specifically scale-up subsidy, so developers need a technically-sound, operating site to pre-qualify

SMART RBF aims to leverage smart technology to reduce costs and provide transparency

WHY DO WE NEED THIS?

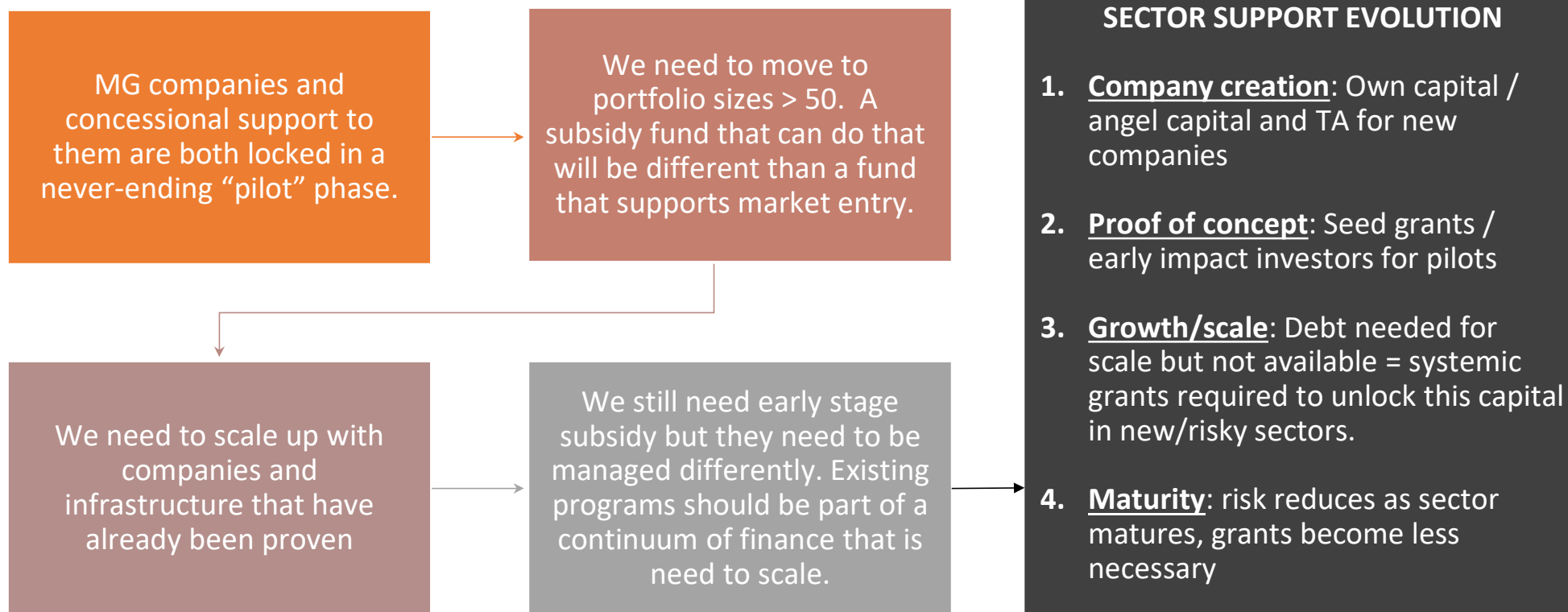
Rural Energy Access requires subsidy. ***Universal Electrification has never been achieved without it.***

Current Subsidies in Africa are slow, uncertain, & non-repeating – which deters private investment

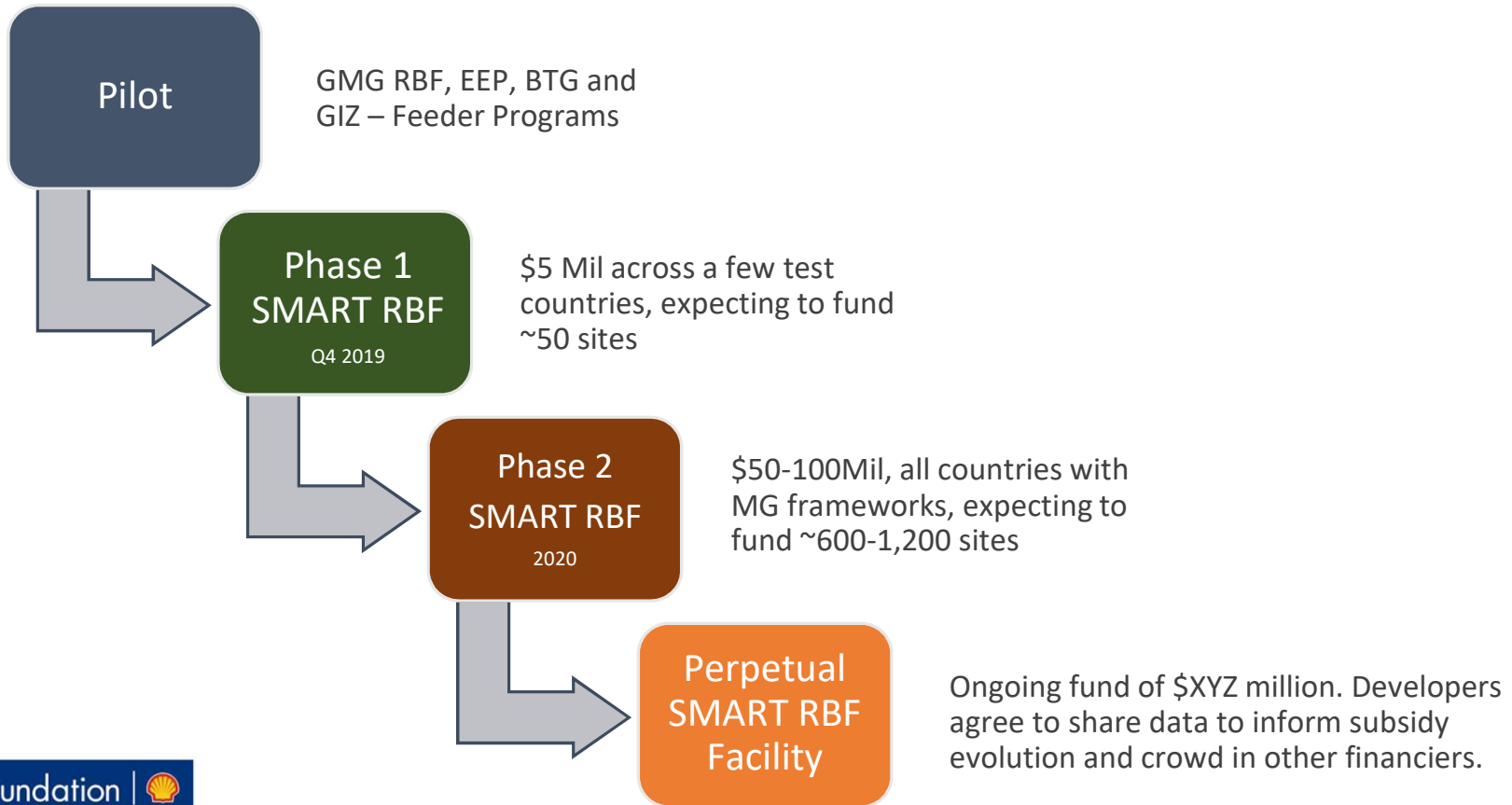
Predictability on how & when funds will be deployed provides confidence to investors

To create radical scale, funds need to be at scale as well, and must be long term and reliable to unlock private capital.

Why Experienced Developers



Fund Evolution



Subsidy simplicity

SMART RBF will start at \$500 per connection – based on prior amounts & reflective of modeling by RBF Task Force.

Amount will be modified as market data improves (economies of scale, Company IRR's, Tariff Pricing & regulatory risk)

This imperfect amount will be a smaller % of CAPEX for some sites and larger for others, but its consistency is important for simplicity and scale

As more sites are built, improved data will allow complexity and refinement to promote minigrids in even the hardest to reach areas.

Cost reduction will be built in with pre-scheduled reductions to create discipline but allow developers time to refine business models

How it works

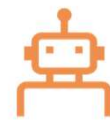


Scale-up Subsidy – The initial fund is only for experienced developers

The facility would like to partner with earlier-stage subsidy programs who will help first-time developers qualify for SMART RBF. (GIZ, EEP)



Subsidy is managed through a web portal with smart meter integration



Pre-Qual

Operating Existing sites (where possible verified through smart meters)

Legally registered in the application country(s)



Regular Calls for Proposal (for initial Phase 1&2)

Scored on Facility Rubric (currently being finalized)

Once the fund is sufficiently large enough this will become a rolling application



Award and Earmarking



Developers have a limited period of time to implement



New connections will be remotely verified through smart technology

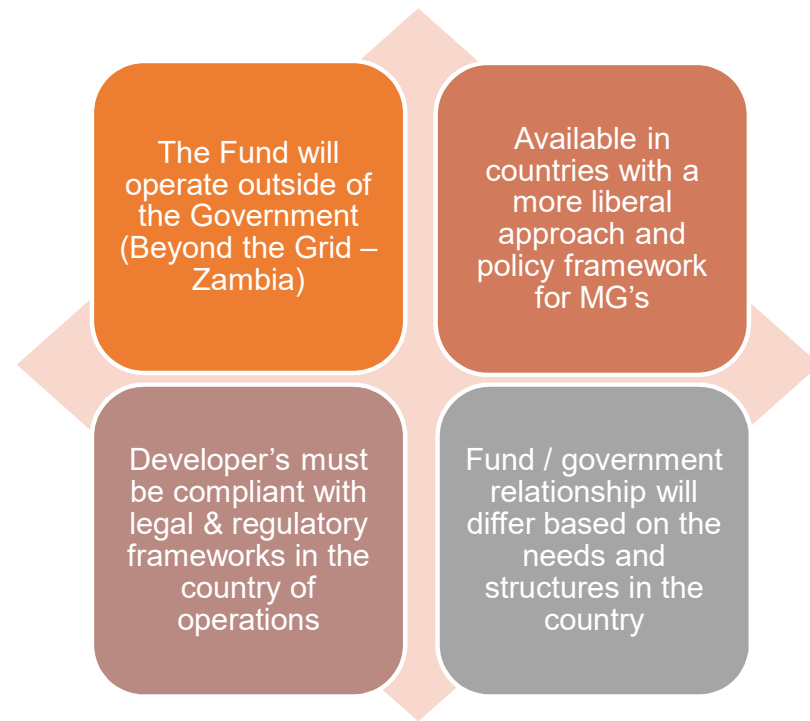


The Facility will conduct random audits on connections



The Facility will have zero-tolerance policy for fraud by subsidy recipients

How SMART RBF works with Government



Thank you



Why Pan-Africa RBF

(and not country specific)

- Developers work regionally and have expansion plans beyond a single country
- Consistency in how concessional money is deployed improves the rate at which sites are developed and provides consistency in the application process
 - This in-turn helps ensure technical consistency and standards across the continent

WHEN WILL LOW COST TENDERS BE VIABLE?

- When there is data to better understand the real costs of operating and deploying sites in these markets (particularly to rural customers)
- Predictability in the policy and licensing (so developers have predictability in revenue's to support a bid)

What you have in traditional Utilities Low Cost Tenders

- Historical Cost Data
- Government Offtake Guarantees
- Forex Risk Adjustment
- Reliable information on Offtake(s)

Mini-grids are currently stuck in a 'doom loop': need (i) improved unit economics, (ii) finance to scale and (iii) government support to thrive

