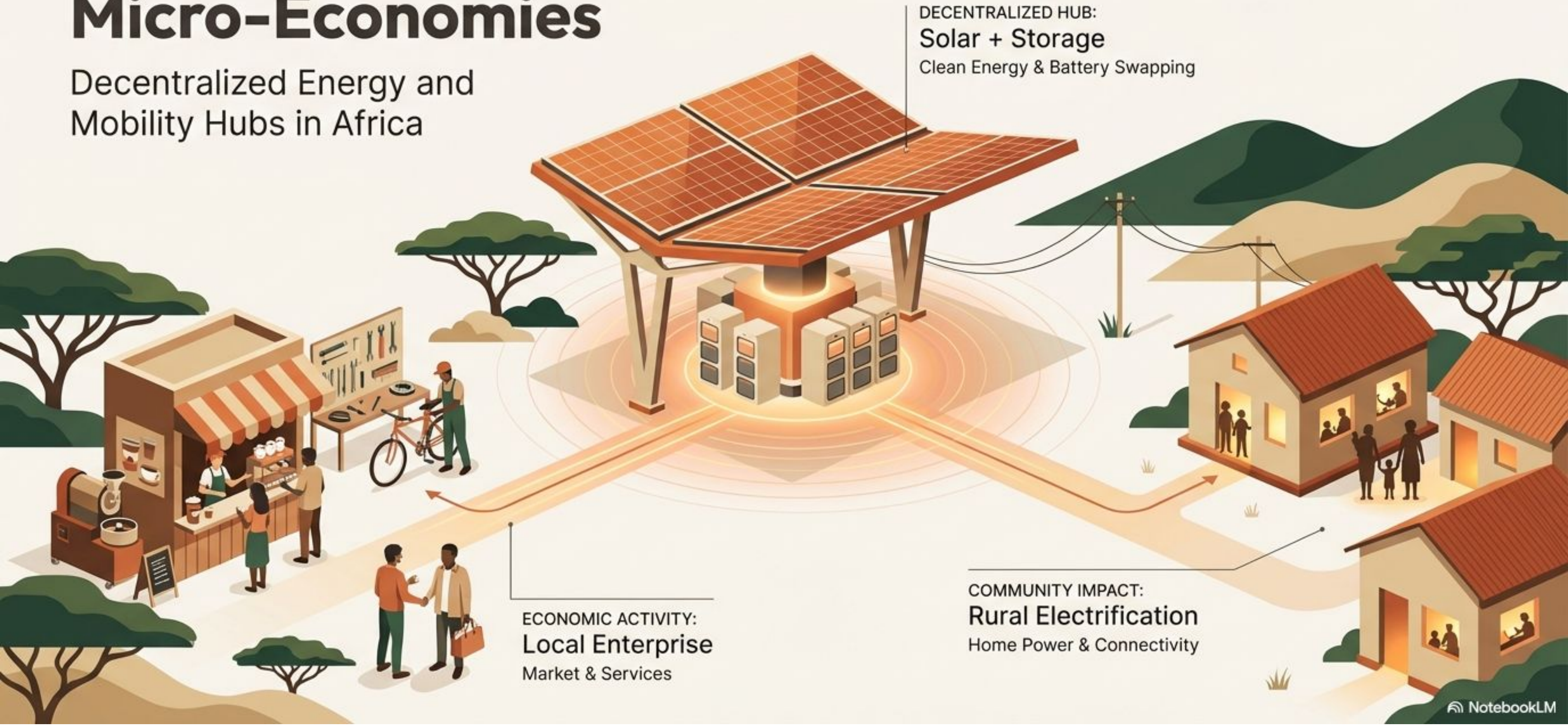


Sparking Micro-Economies

Decentralized Energy and
Mobility Hubs in Africa



The Dual Bottleneck of Rural Isolation



Agricultural Waste

Without efficient transport, up to 50% of goods spoil before reaching the market.



Energy Poverty

Unreliable or non-existent grid access stifles local enterprise and daily life.

Key Insight: Traditional grid expansion is too slow. Remote villages need an immediate, decentralized solution that solves transport and power simultaneously.

The E-Mobility Surge Requires New Infrastructure

17%

of used boda boda registrations in Kenya last year were electric



The transition is happening rapidly, replacing an estimated pool of over 3 million traditional motos. However, traditional 3-4 hour charging times are commercially unviable for taxi and delivery drivers.

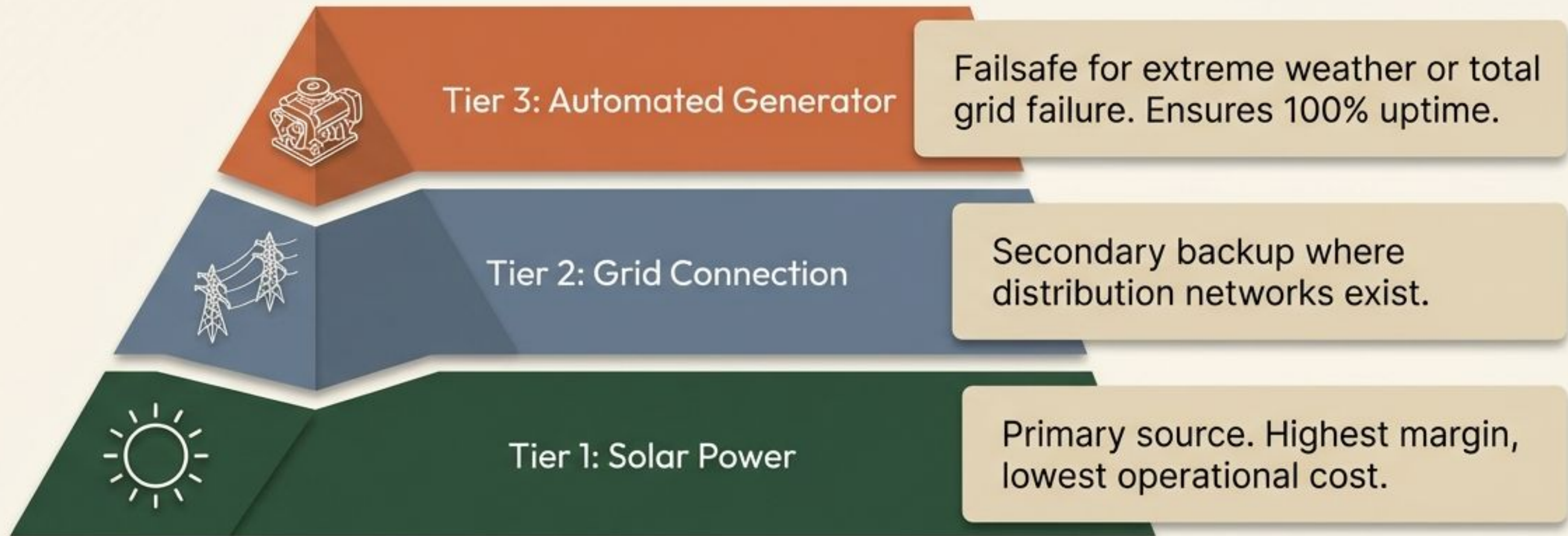
The solution is battery swapping—but it must be tailored for off-grid reality

The Solar Swapping Hub



Fully automated, decentralized, and highly scalable.

Adaptive Energy Sourcing



Key Insight: By prioritizing solar and cascading to grid/generator only when necessary, the hub guarantees reliable operation regardless of local infrastructure quality.

Beyond Mobility: The Universal Battery



E-Motos

Clean, instant power
for boda bodas.



Construction

Reliable power for heavy
tools in off-grid zones.



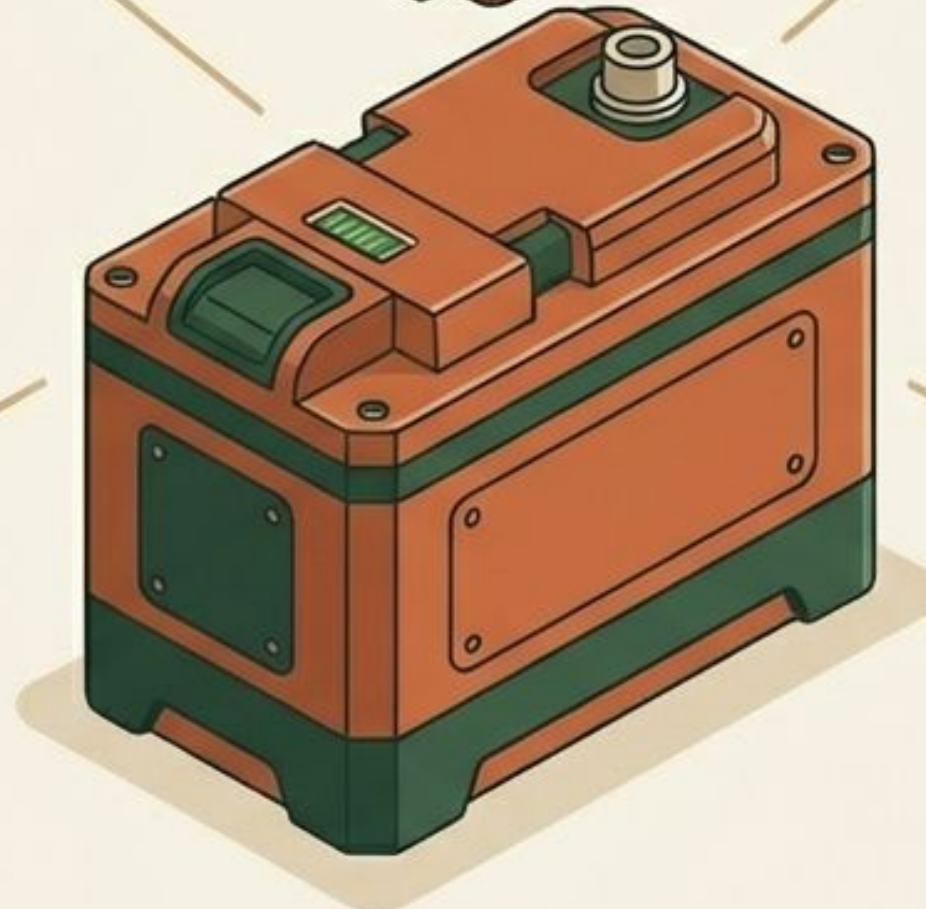
Fishing Boats

Essential for lakes where
petrol engines are restricted.



Home Use

Standard 230V socket
attachment for domestic
appliances.



Instant Rural Electrification

The same battery that powers the local economy during the day powers the home at night.



A single charged battery can provide up to 2 weeks of basic home lighting.



Easily powers domestic fans, small fridges, and essential electronics.

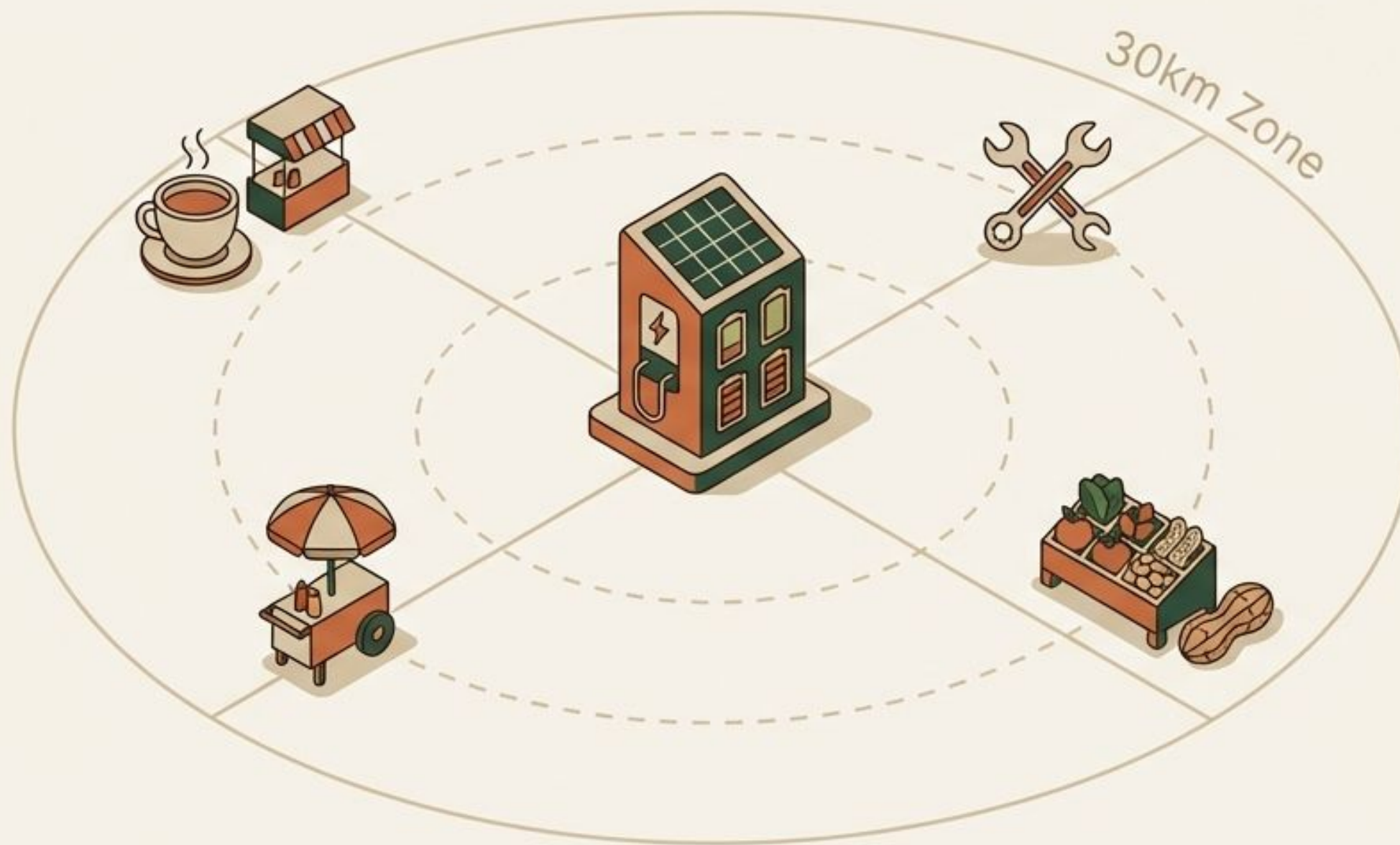


Bypasses the need for massive, slow-moving national grid investments.



The 30km Radius Effect

A swapping station is not just a utility; it instantly becomes a micro-center of local life.



The presence of reliable, continuous power and high daily foot traffic transforms isolated junctions into thriving commercial hubs.

A Job Creation Engine

1 Hub = ~20 Local Jobs



Mechanics & Technicians

Servicing e-motos
and bicycles.



Retail & Hospitality

Coffee stalls, peanut vendors,
and food stands serving drivers.



Station Operators

Local management
and security.

Takeaway: Deploying a single hardware asset organically generates dozens of sustainable livelihoods in the immediate vicinity.

Real-World Impact: Empowering Women's Cooperatives

The Pilot

Delivering 2,000 e-motorcycles and 70 swapping stations to support Kenyan Saccos.

The Impact

Solves the transport bottleneck for rural women, allowing agricultural yields to reach markets efficiently without massive spoilage.

The Multiplier

Empowers women with economic independence, local job creation, and domestic electricity.



Harvesting

Sacco (Co-op)
Aggregation

E-Moto to
Market

Smart Tech meets Micro-Finance

M-Pesa / Momo Integration



Frictionless daily micro-payments integrated directly with local mobile money networks.

Remote Hardware Control



Track batteries, enforce service cycles, or remotely disable units. Achieves ~90% security effectiveness without adding prohibitive hardware costs.

A seamless, cash-free ecosystem that protects assets while remaining accessible to the unbanked.

De-Risked Financial Architecture



Commercial Viability:

Highly profitable unit economics. Even at a 300% markup on standard grid power, the service remains highly affordable and life-changing for off-grid consumers.



The Case for Standardization

Batteries account for up to \$500—roughly half the cost of an e-moto.

Fragmented Ecosystem



Multiple companies building expensive, incompatible charging networks.

Unified Gas Station Model



A single, standardized battery network.

Strategic Angle: By pushing for a unified battery standard (currently advancing in Congo), we eliminate the massive CAPEX barrier for e-moto operators, allowing faster market adoption while securing our position as the network operator.

Strategic Deployment Footprint



Infrastructure that Transforms

Hardware

Profitable, decentralized, automated energy grids.



Economy

20+ jobs per station and zero-capex infrastructure for e-mobility operators.



Society

Women's empowerment, eliminated agricultural waste, and instant domestic electrification.



We are not just powering vehicles. We are sparking the micro-economies that will power the future of rural Africa.