



“Everything-as-a-Service” Platform for Scaling Access to Renewable Energy

10th ICEF 2023, Concurrent Session 3
“Innovative Use of Renewables”

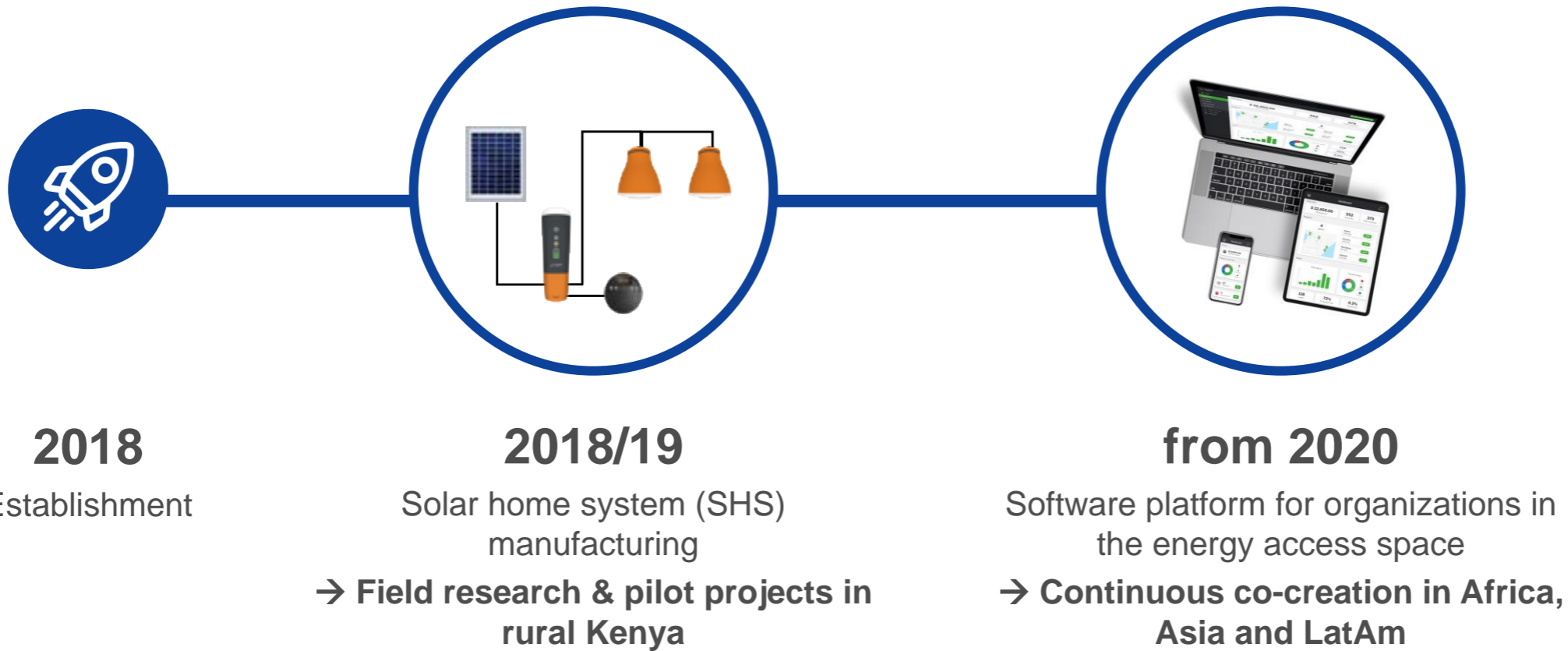
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Co-founder & CMO PineBerry



INTRODUCTION

PineBerry is a German-Kenyan social business with a mission to **scale access to clean energy with digitalization**.



1 BILLION PEOPLE

in the world are left in the dark at night.



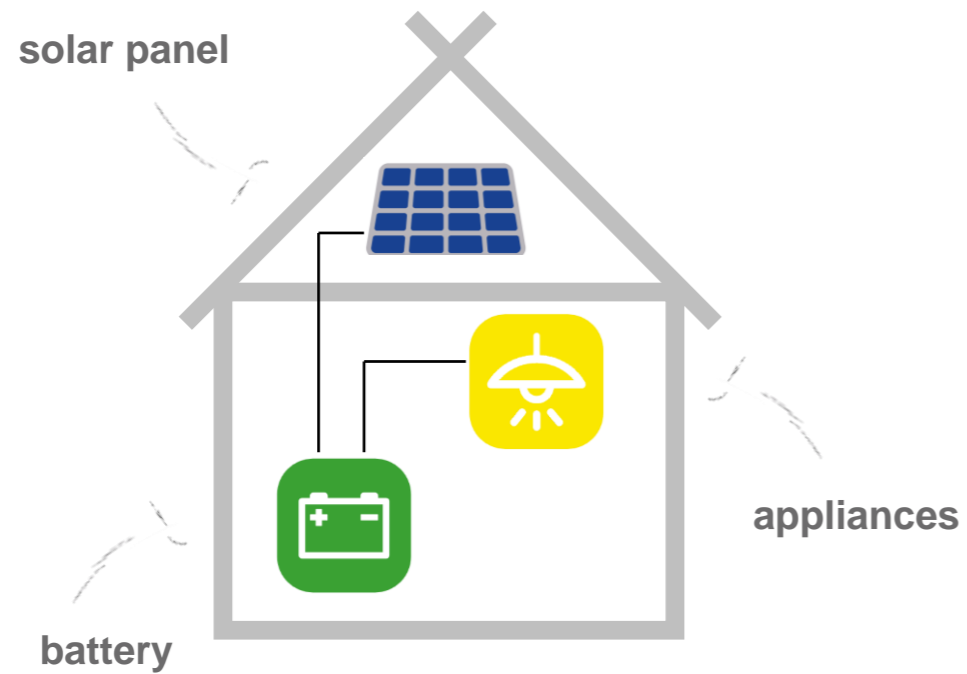
KEROSENE



PROBLEM

A market evolved which serves communities “off the grid” with stand-alone, clean energy.

Example: Solar home system






An aerial photograph of a rural village built on a hillside. The houses are constructed from mud-brick with brown roofs, some of which are corrugated metal. The village is surrounded by lush green vegetation and trees. In the background, there are large, forested mountains under a cloudy sky. A semi-transparent dark horizontal bar is overlaid across the middle of the image, containing white text.

BUT: THE ENERGY ACCESS SECTOR FACES SEVERAL CHALLENGES.

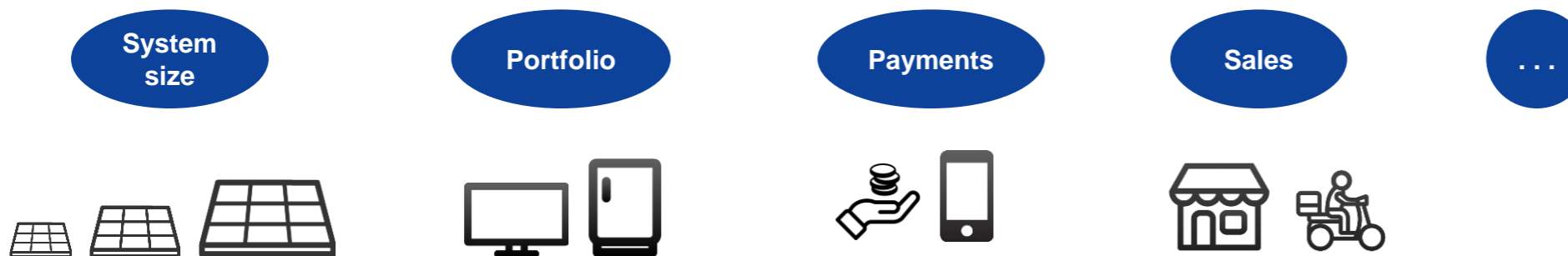


CHALLENGES IN THE ENERGY ACCESS SPACE

According to co-creation studies with 50+ participants, energy access providers need...

-  to ensure energy is **affordable** for consumers
-  to manage all **products** and **payments** in the field
-  to reach **economic viability** in challenging settings

The energy access market is **heterogeneous**:



SOLUTIONS WITH DIGITALIZATION

These pressing challenges can be solved with digital solutions for energy access providers that...



are **customizable**: Features, roles, logo, colors



offer inclusive **“Pay-As-You-Go” financing** options for consumers and different **payment types**: Mobile money vs. cash, rent-to-own vs. leasing



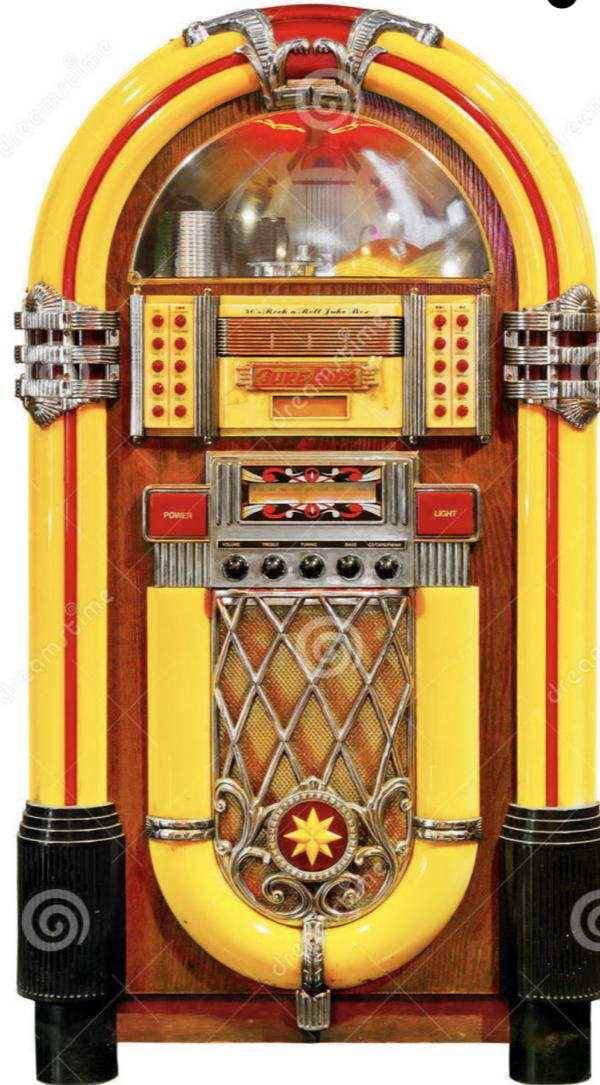
can be **integrated** with existing ecosystems and the (IT) landscape of clean energy providers

→ **Every operating model is special** and has special needs to operate most cost-efficiently.





**PINEBERRY TURNS
SOLAR SYSTEMS**



connected



INTO JUKEBOXES.



SOLUTIONS WITH DIGITALIZATION

THE “JUKEBOX PRINCIPLE”



1 Insert coin



2 Music on... for 30 minutes



3 Music off

SOLUTIONS WITH DIGITALIZATION

THE "JUKEBOX PRINCIPLE"



1 Insert coin



2 Music on... for 30 minutes



3 Music off



1 Pay instalment



2 Solar system on... for 1 week



3 Solar system off

SOLUTIONS WITH DIGITALIZATION

PineBerry has developed the first **Everything-as-a-Service platform** that enables clean energy providers to **manage their operations** in 1 central platform, **save costs and time** while scaling their **business and impact**.



Energy players can...



... manage all customers & products
in **1 central place**



... be sure their **customers are paying**
(thanks to the “Jukebox”)



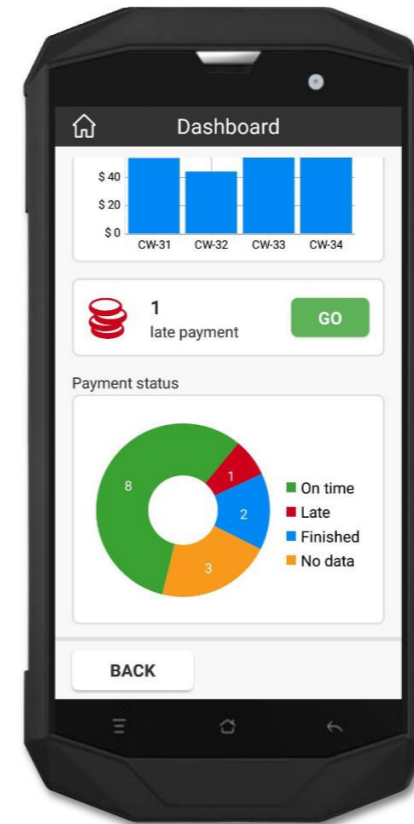
... keep **full control** over all
connected products



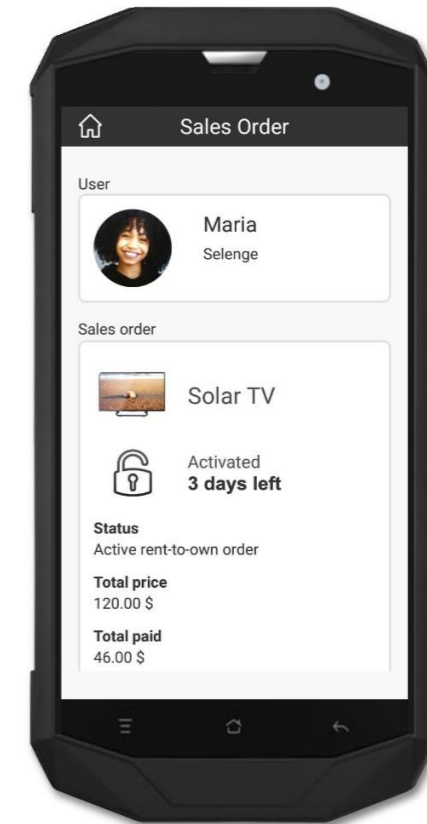
LAST-MILE-AS-A-SERVICE

SELLING SOLAR PRODUCTS

Last-Mile-as-a-Service



Dashboards:
All key insights in 1 place



Remote product control



MINI-GRID-AS-A-SERVICE

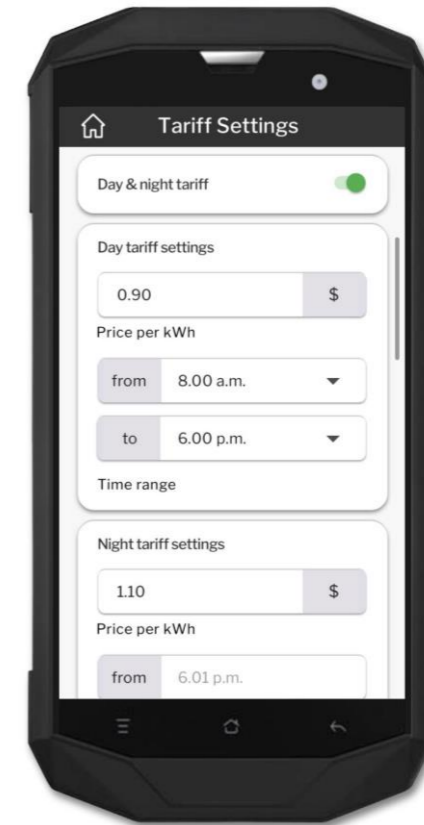
SELLING SOLAR ELECTRICITY



Mini-Grid-as-a-Service



Smart meter connections



Flexible tariff management

any product

PINEBERRY TURNS SOLAR SYSTEMS INTO JUKEBOXES.



An aerial photograph of a village built on a hillside. The houses are made of mud-brick with brown roofs, some of which are corrugated metal. The village is surrounded by lush green vegetation and trees. In the background, there are mountains under a cloudy sky. A semi-transparent dark grey box is overlaid on the center of the image, containing white text.

**ENERGY PLAYERS CAN
EXPAND THEIR BUSINESS MODELS.**

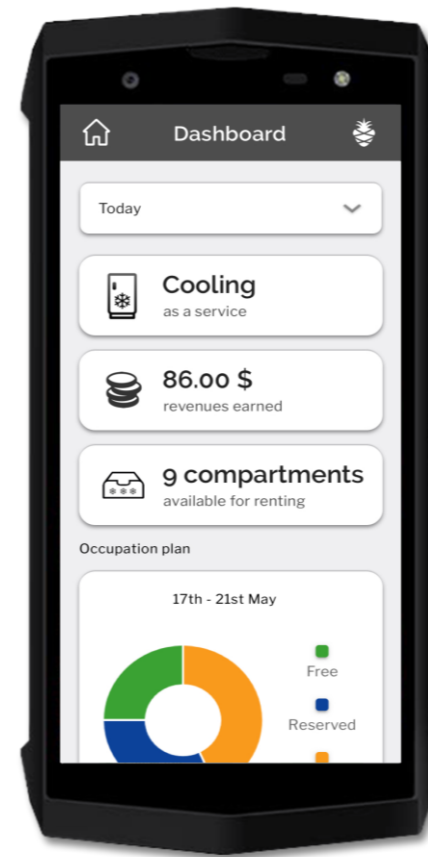


COOLING-AS-A-SERVICE

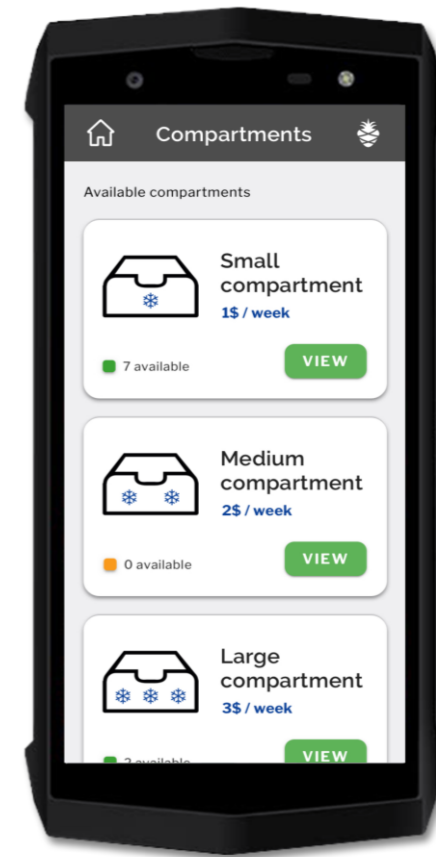
RENTING COOLING COMPARTMENTS



Cooling-as-a-Service



Dashboards:
All key insights in 1 places



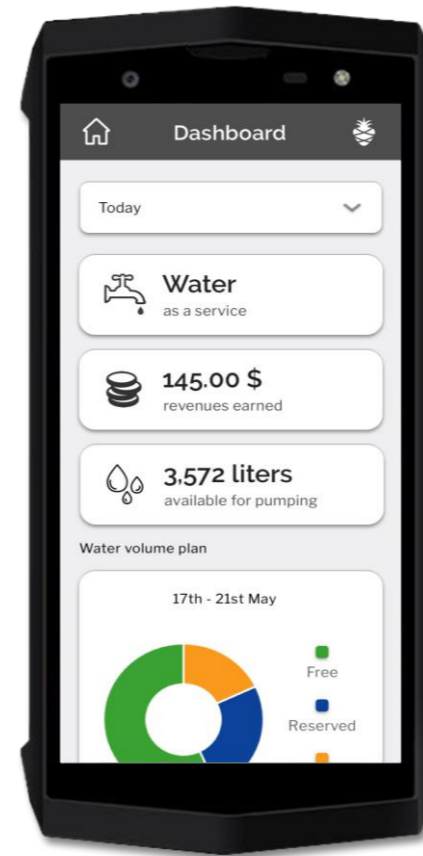
Flexible **cooling** renting

WATER-AS-A-SERVICE

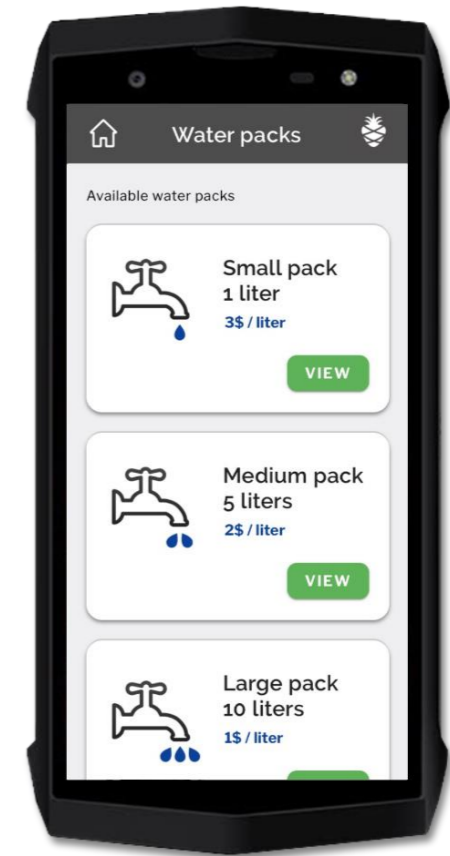
SELLING WATER FOR DRINKING & IRRIGATION



Water-as-a-Service



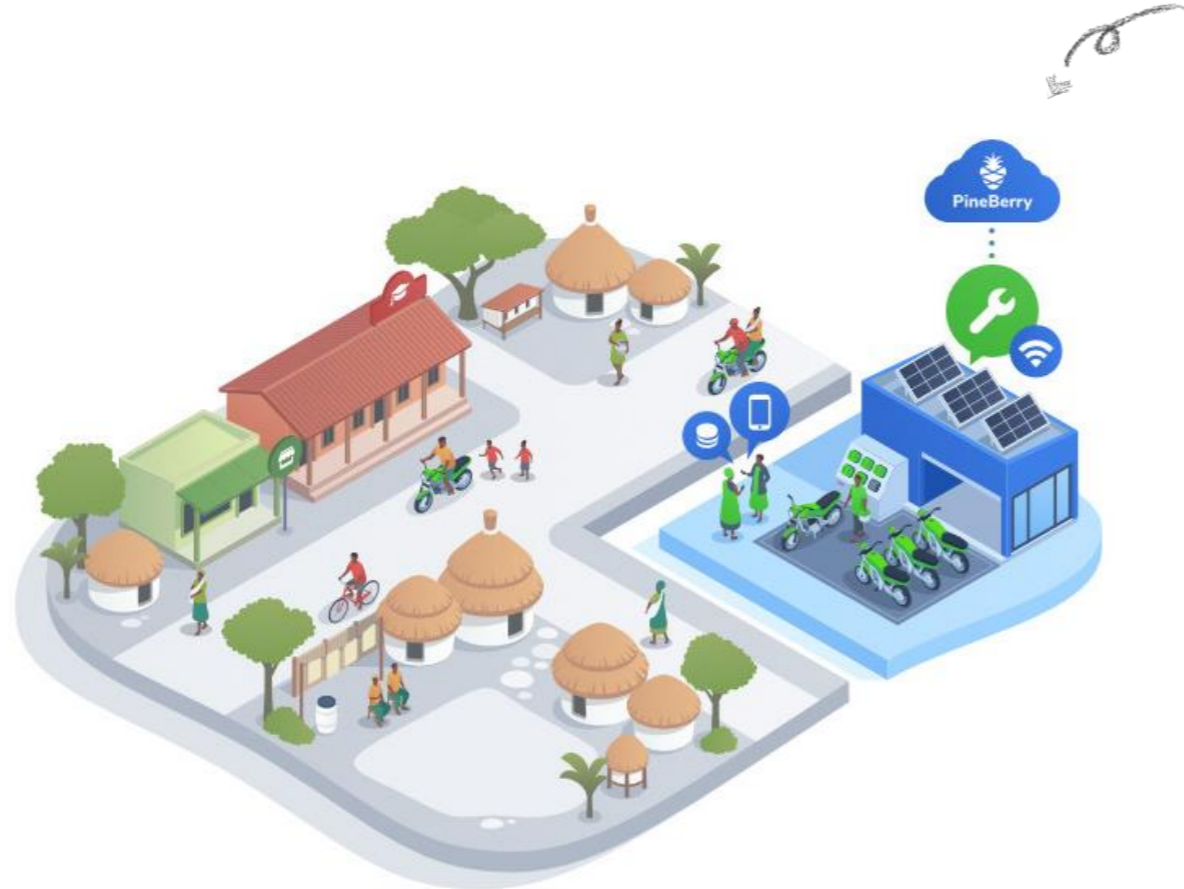
Dashboards:
All key insights in 1 places



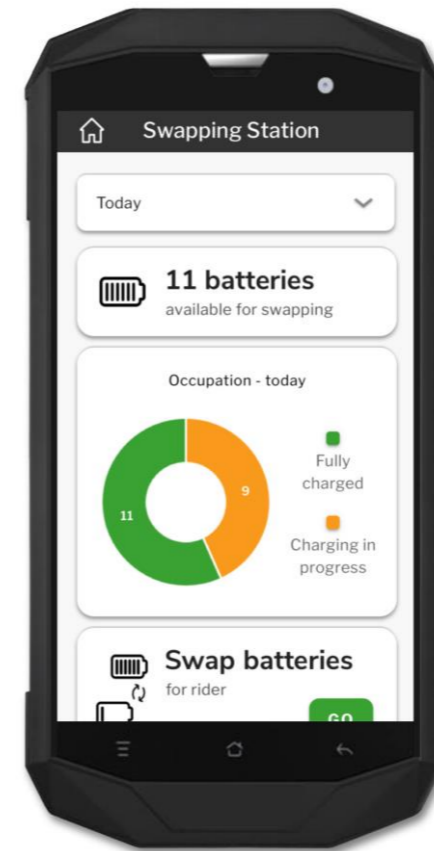
Flexible water
selling

E-MOBILITY-AS-A-SERVICE

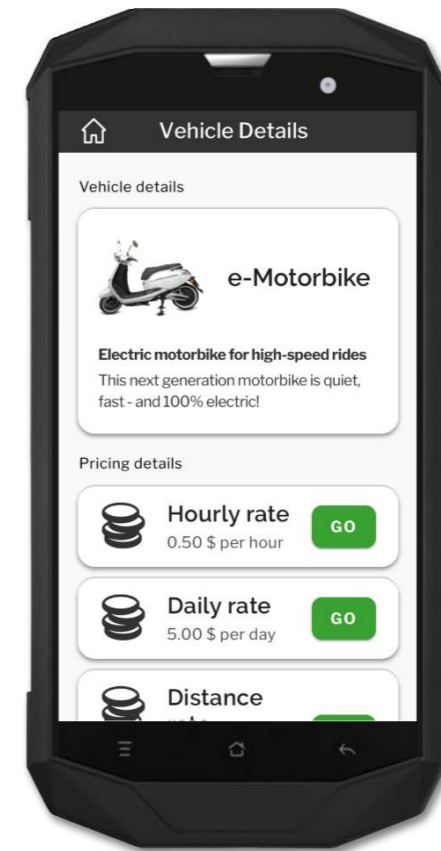
SELLING & RENTING E-VEHICLES, SWAPPING BATTERIES



E-Mobility-as-a-Service



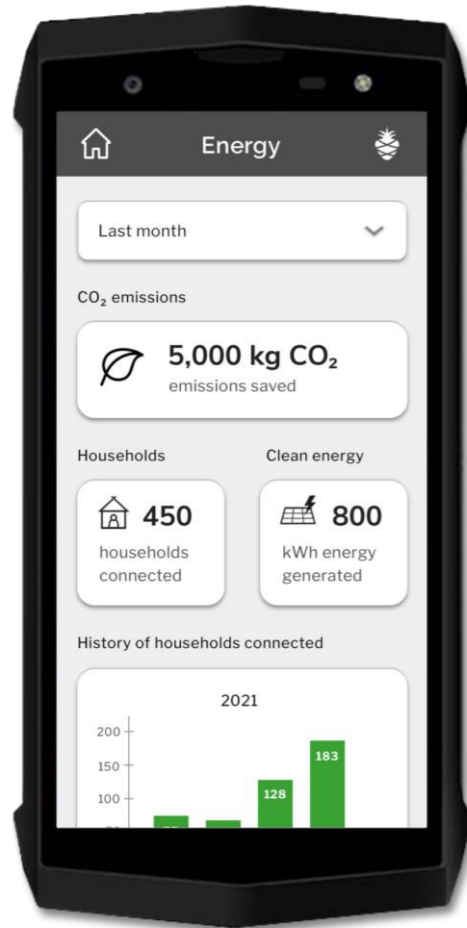
Dashboards:
All key insights in 1 places



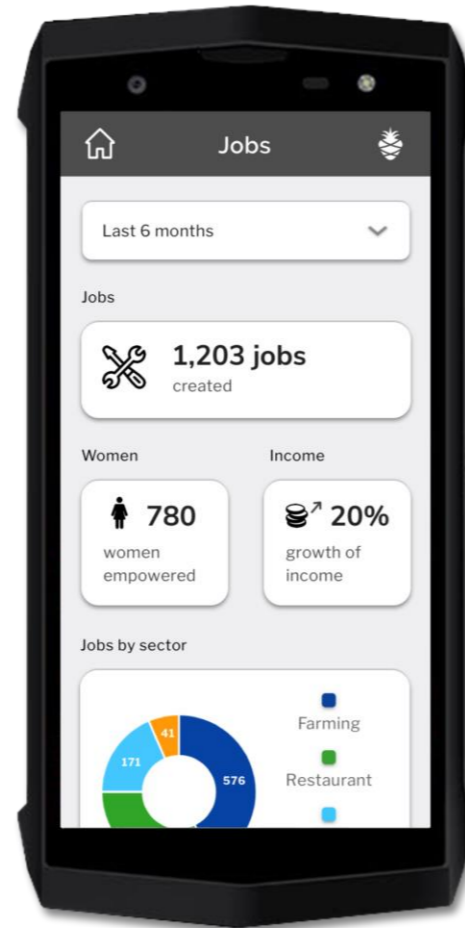
Flexible **vehicle**
selling & renting

IMPACT-AS-A-SERVICE

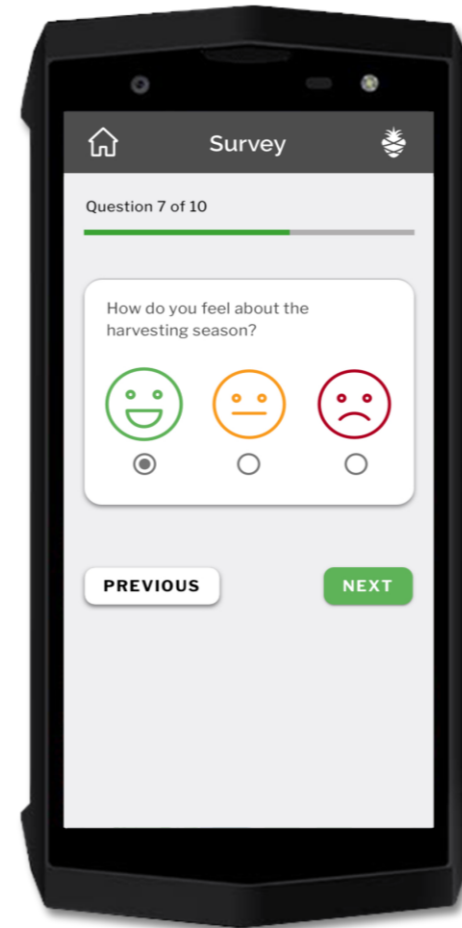
MEASURING THE IMPACT CREATED



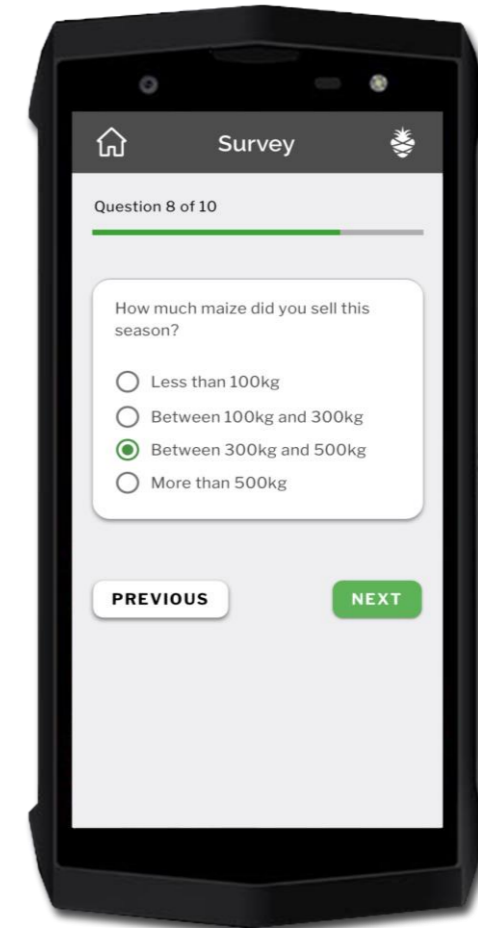
Impact metrics on
clean energy and climate



Impact metrics on
jobs creation and gender



Surveys for **qualitative**
impact metrics



Surveys for **quantitative**
impact metrics

An aerial photograph of a densely packed village built on a hillside. The houses are constructed from mud-brick with brown walls and dark brown corrugated metal roofs. The village is nestled against a backdrop of lush green mountains under a sky filled with heavy, grey clouds. In the foreground, a dirt road winds through the houses, and a few people can be seen walking. A large, white speaker icon is visible in the bottom right corner of the image.

**OFF-GRID VILLAGES ARE TRANSFORMED
INTO FULLY CONNECTED VILLAGES ...**



API &
3rd PARTIES



ENERGY AS A SERVICE

DISTRIBUTION AS A SERVICE

WATER AS A SERVICE

E-MOBILITY AS A SERVICE

COOLING AS A SERVICE

MILLING AS A SERVICE



TEAM & VISION

Co-founders



REBECCA



MANUEL



DANNY

Team members



OLAF



ANNE



WARINGA



JOHN



GREGORY



JULIA





LET'S CONNECT!



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