⊖ ODYSSEY

# Remote monitoring & control in sub-Saharan Africa

Who We Are

ODYSSEY

Odyssey is the largest climate tech platform enabling energy companies and financiers to develop more projects faster.

How

Odyssey works across the distributed energy ecosystem to **streamline** each stage of the project development process.

In doing so, we reduce operational risks, **foster capital deployment**, increase ROI, and help solar companies achieve economies of scale.

Financiers

Solar Companies

Equipment Manufacturers

Odyssey streamlines transactions across DRE ecosystem
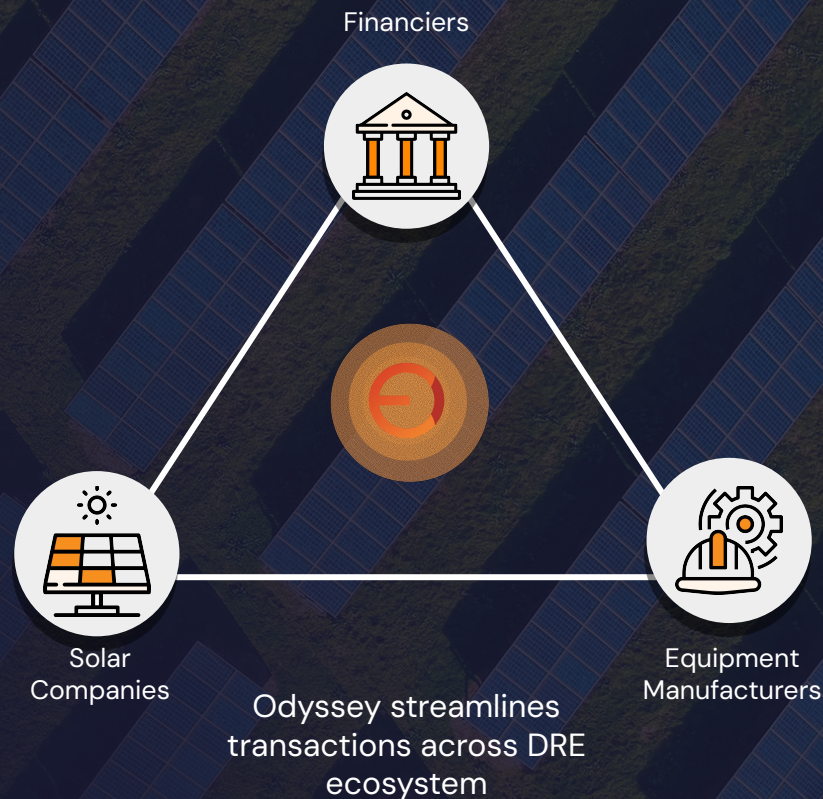
ODYSSEY

Odyssey in Numbers

2600
platform members

USD 1.6B
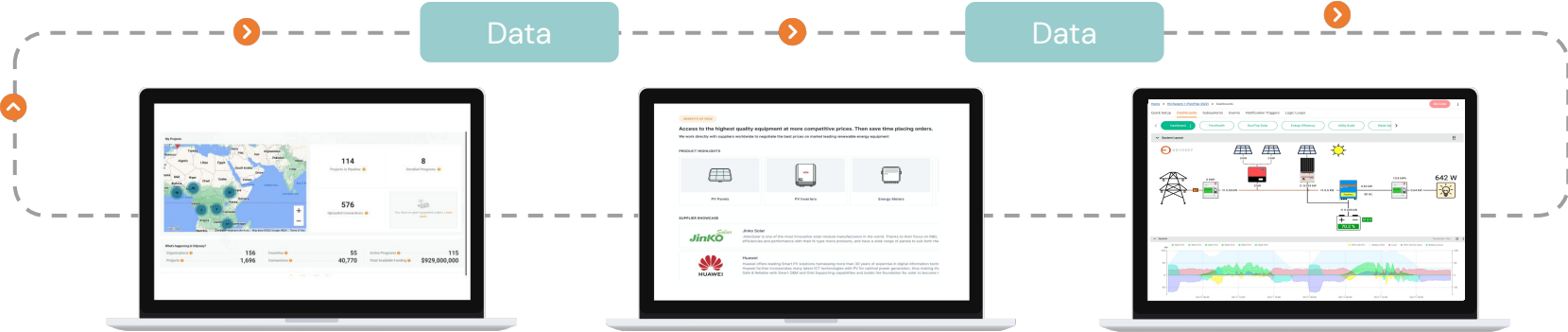capital available

30+
OEM partners

2.3 million
connections facilitated

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Odyssey Capabilities
Remote monitoring & control

Data

Data

Finance
Project finance platform for financiers and developers

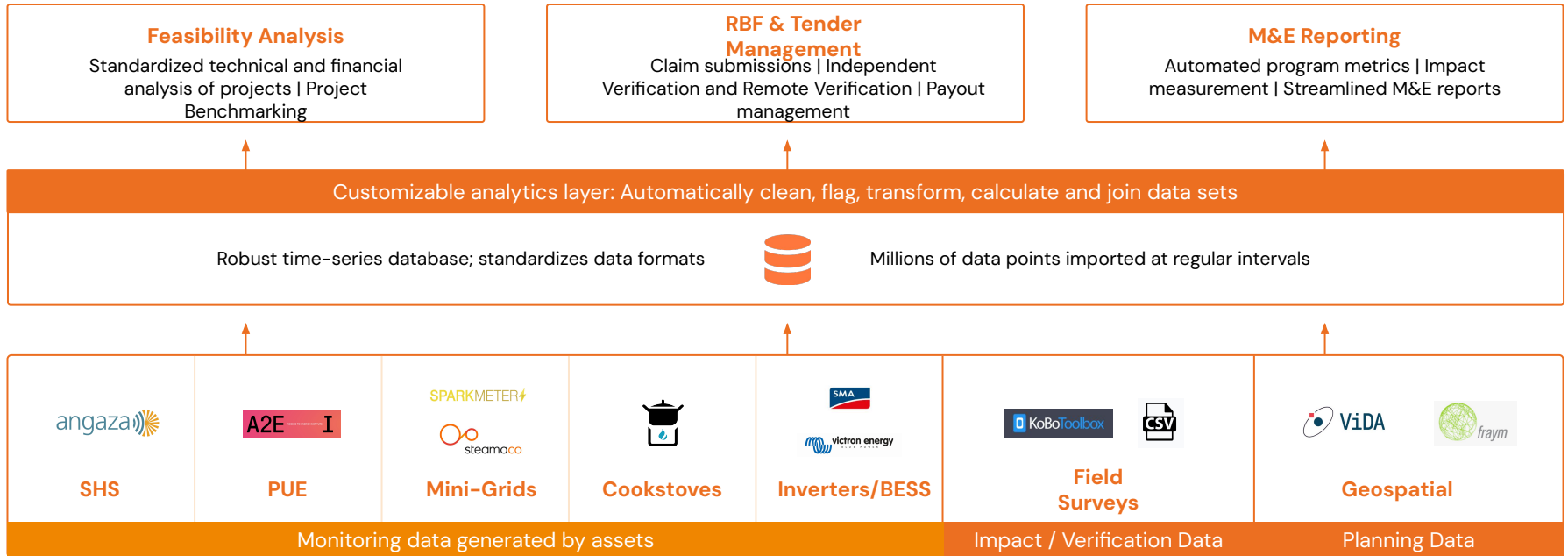**Procure**
Equipment financing, marketplace and supply chain support

Operate
Remote management and control tech

Freemium asset management platform to standardize, aggregate, streamline.

Odyssey integrates data from all key data sources in order to streamline management and M&E

Feasibility Analysis

Standardized technical and financial analysis of projects | Project Benchmarking

RBF & Tender Management

Claim submissions | Independent Verification and Remote Verification | Payout management

M&E Reporting

Automated program metrics | Impact measurement | Streamlined M&E reports

Customizable analytics layer: Automatically clean, flag, transform, calculate and join data sets

Robust time-series database; standardizes data formats

Millions of data points imported at regular intervals

SHS	PUE	Mini-Grids	Cookstoves	Inverters/BESS	Field Surveys	Geospatial

Monitoring data generated by assets | Impact / Verification Data | Planning Data

Remote management product suite

1

FernControllers

High resolution, reliable data collection from all system components and sensors

2

FernBox

Pre-tested monitoring kit for turn-key or plug-play solutions

3

FernView

Single portal to remotely monitor and control entire portfolio + perform cross-system analytics

4

FernSensors

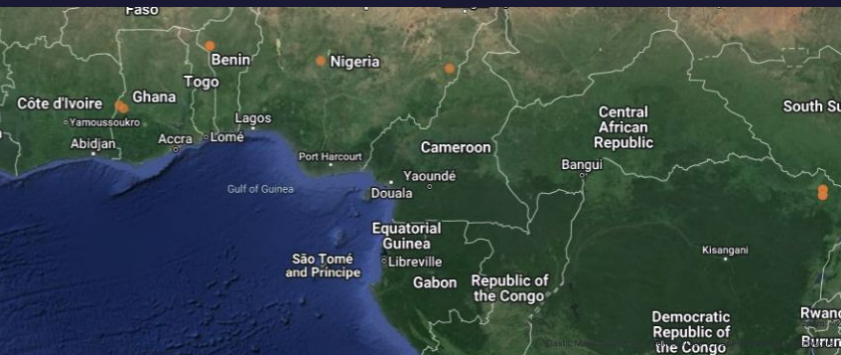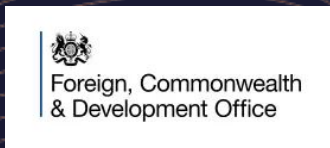Accessories to measure fuel and water usage, temperature, solar irradiation, AC/DC power

5

FernMeter

Power Monitoring for energy audits or small systems

Data Analytics and Monitoring
health electrification

Shell Foundation

USAID FROM THE AMERICAN PEOPLE | POWER AFRICA | A U.S. GOVERNMENT-LED PARTNERSHIP

Foreign, Commonwealth & Development Office

Context

41% of health facilities in sub–Saharan Africa have unreliable electricity access, while **15%** are without access
PV sustainability is a problem (not well maintained)

Pilot Scope

Testing new service and ownership **models**
11 health facilities, **6** developers in **4** countries
Baseline survey data from each clinic
Remote Monitoring and survey data into a dashboard to visualize level of service

Health Facility Electrification (HFE): Critical monitoring data to ensure system performance

FernHealth

- In 2022, Odyssey launched FernHealth to provide critical technologies that will enable streamlined finance for health center electrification initiatives

- FernHealth includes a data logger / controller tailored for HFE projects and standardized dashboards for tracking HFE project performance

- FernHealth is designed to facilitate critical HFE financing initiatives that rely on monitoring results – from results-based financing to guarantee funds – to ensure system performance
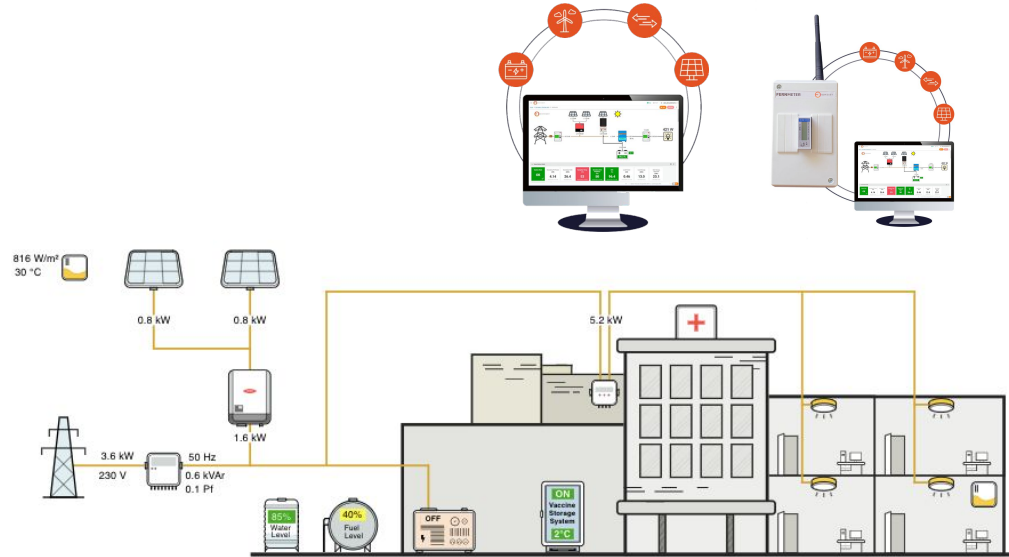
Monitoring dashboards identify challenges instantly for remote troubleshooting

- Data integrity assurance

- Event logging

- Notification channels

1 **Data integrity assurance**

Data sent through API will periodically stop transmitting data. Long laborious manual entry to backfill missing data is eliminated through Odyssey's automatic historic data backup.

2 **Event logging**

Ability to show critical events that have occured and very useful for O&M team.

3 **Notification channels**

Set up notifications on status of systems and also create specific systems for different user groups especially when dealing with 100s of systems.

Powergen Ijebu Eye Clinic

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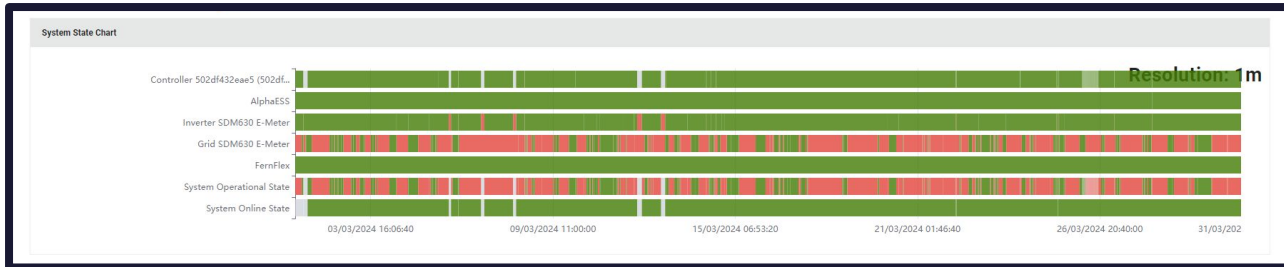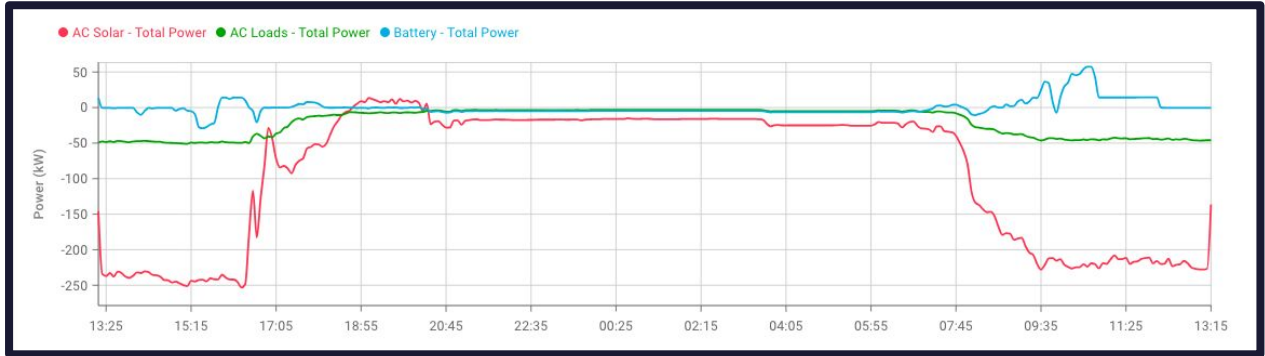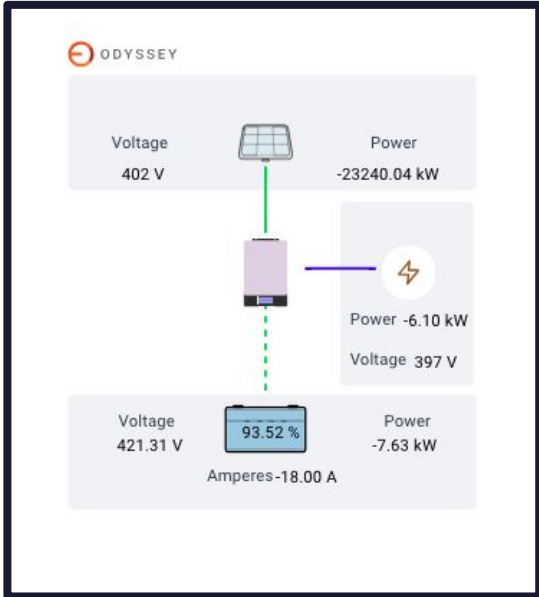
Health and Impact Analytics
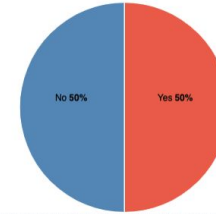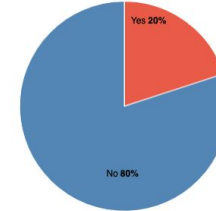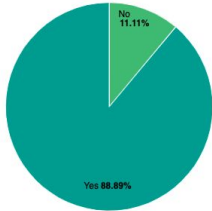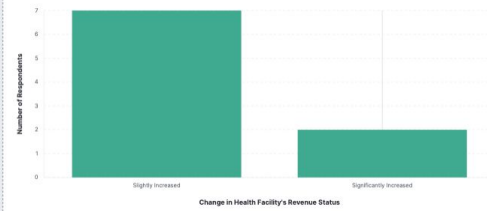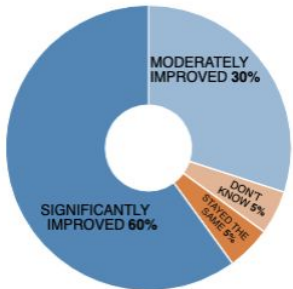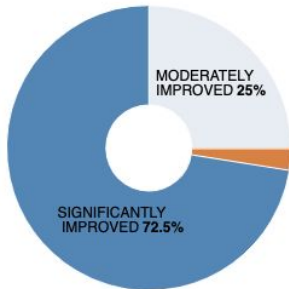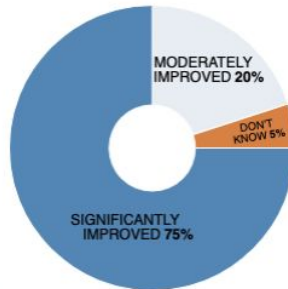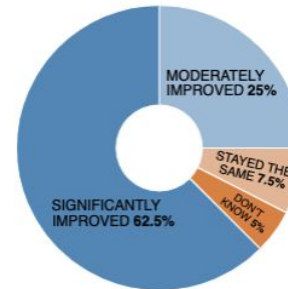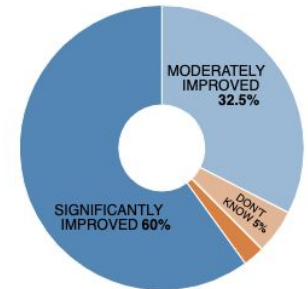
Solutions for diverse assets globally

FernGrid
Mini-grid

FernC&I
Commercial, Industrial & Residential

FernAqua
Water

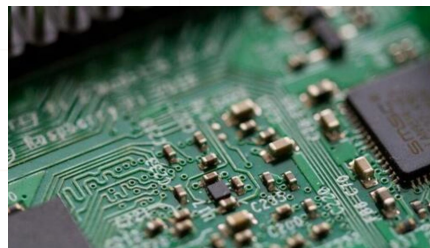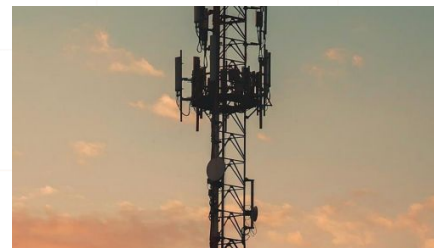**FernHealth**
Small & Medium Health Centres

Mobile power

Green hydrogen

OEM manufacturer

Telecom

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ODYSSEY

Distributed Energy at Scale
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