Remote Monitoring to Accelerate Access to Clean Energy Productive Use of Electricity

By Grace Nanteza.
Co-founder Run Automations
Limited

A5 Webinar - Digitisation

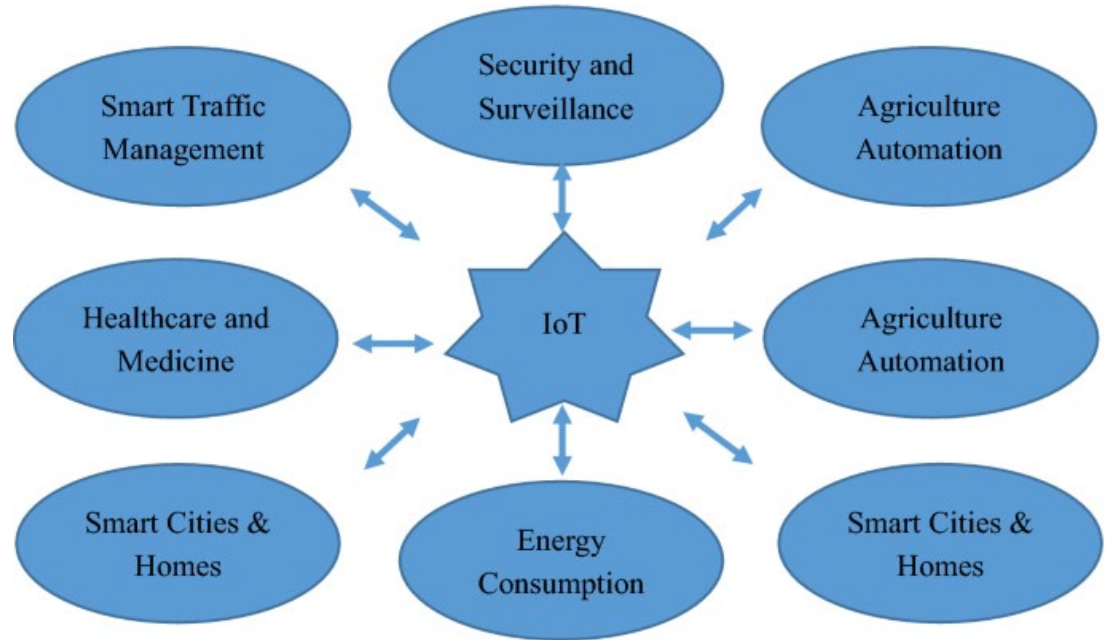**Run Automations**
The Best Monitoring Experience

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What is Productive Use of Electricity (PUE)?

Internet of things (IoT)

- The internet of things (IoT) describes the network of physical objects (things that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet.
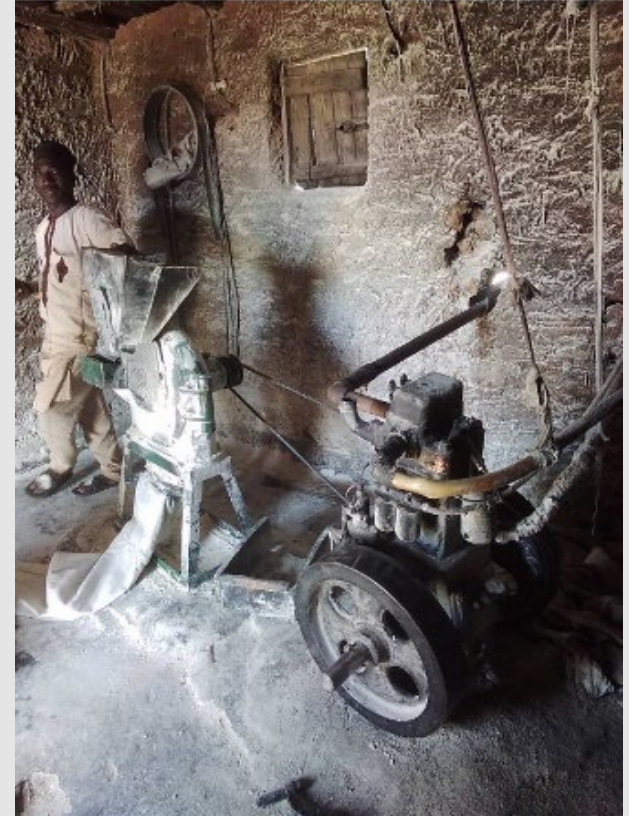
Context

 47% of the Africa's rural population live on with less than 1.90 U.S. dollars a day, ([Mariam Saleh, 2022).](#)

Access to electricity is nearly **60%** of the population in urban areas, while in rural areas is still limited to **18%,** although increasing.

https://powerafrica.medium.com

Increased energy access may not always directly lead to improved livelihoods and economic development but integrated with PUE.

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The Problem

Affordability of PUE and RE systems.

Limited Access to finance in rural areas.

High cost of financing operations in rural areas.

Lack of knowledge on real time location of issued assets.

Lack real time predictive maintenance and Asset health monitoring.

https://www.worldbank.org/en/news/feature/2016/07/07

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Introducing Run Automations ltd

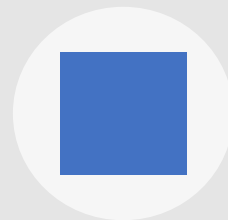- Run Automations builds low cost IoT devices:

Remote switching.
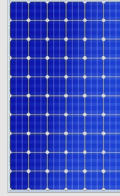
GPS tracking.

Monitor usage and health of the asset

Enable Pay- Go

- Run Automations enables end consumers own valuable PUE assets using pay as you go mode of payment.

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The Product

Pay-Go

Real time GPS tracking

System fault detection

Overload detection and protection

PUE appliance power monitoring

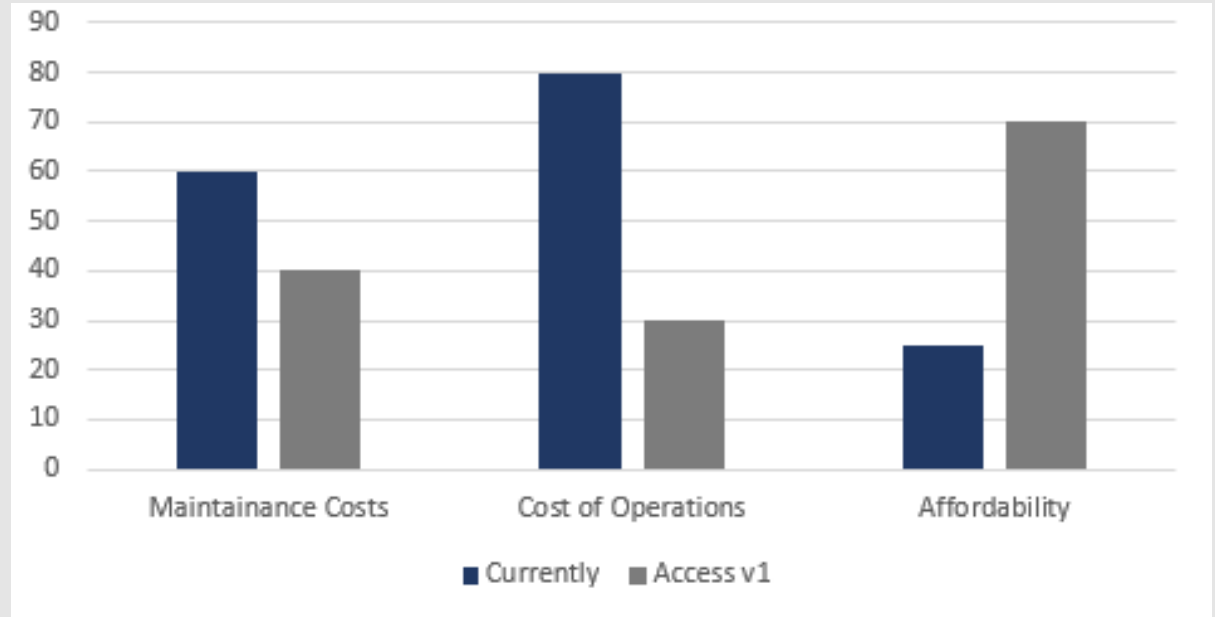Remote switching on/off

internet

Uniqueness

Integratable with any hardware

The technology is locally designed and developed

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The analytics platform

Customer Value Proposition

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Market.

Mini-Grid Developers.
Over 300 mini-grids with over 40,735 connections done. AMDA

PUE Researchers

Solar Companies.
Over 450M USD has been invested in over 5000 solar businesses GOGLA

Micro Finance Institutions
Over 300 micro finance institutions in Africa

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Achievements

Four prototypes

Protype testing

Web analytics platform

Company Registration

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Where are we?

Hardware Development

- Reducing the size of the device
- Improve accuracy
- Reducing cost of production
- Electronics lab tools

Software Development

- Invest in user experience
- Data protection
- Develop more features on the platform
- Scalable for many customers

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Team Members

Grace Nanteza

Co- Founder

MSC, Physics

Charles Nkonwa

Co- Founder .

Hardware Engineer

Joel T Muhanguzi

Co- founder

Computer Scientist

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Thank you

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