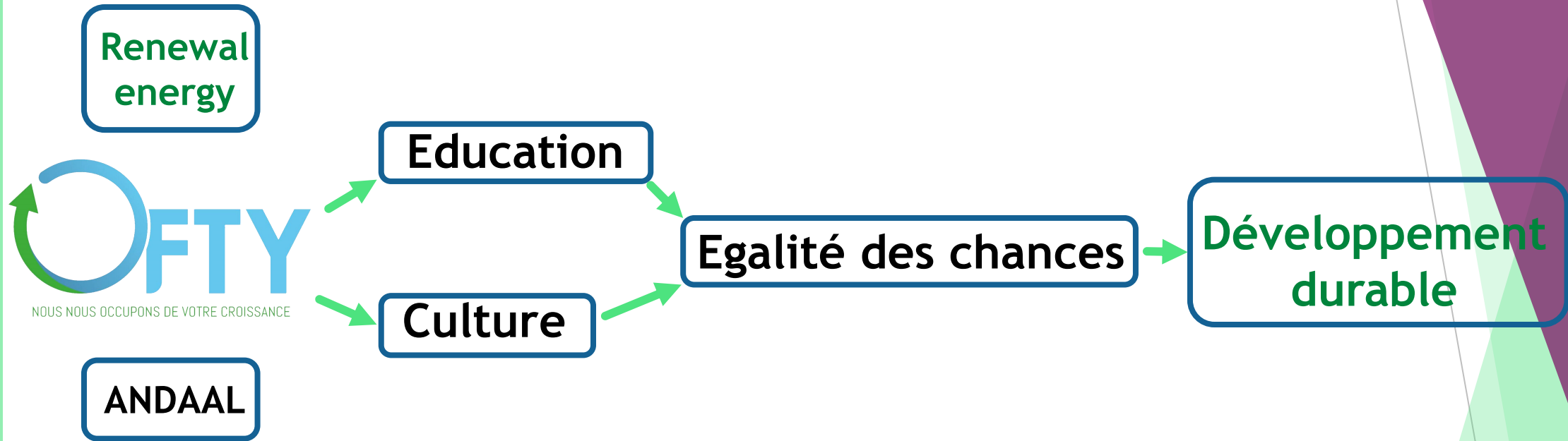




NOUS NOUS OCCUPONS DE VOTRE CROISSANCE

Electricity for sustainable development

Who?

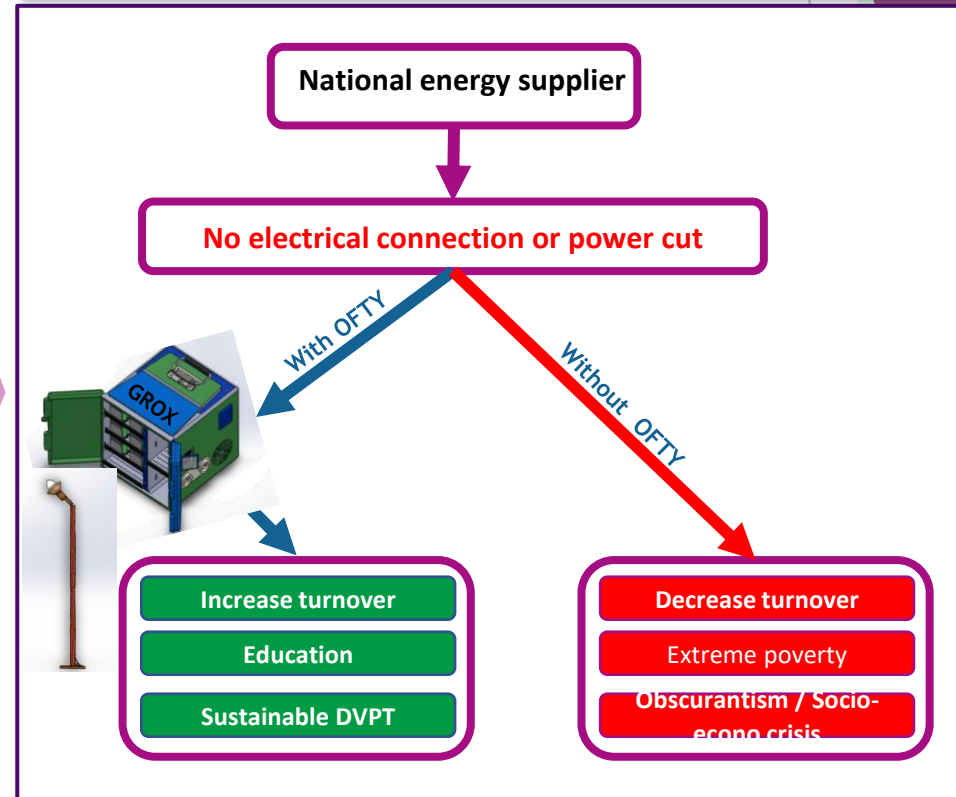


Context and Objectives

What and Why?

- Although home to nearly 1/5th of the world's population, Africa accounts for just over 3% of the world's electricity demand. About 600 million people in sub-Saharan Africa (one in two people) lack access to electricity in 2022. Similarly, about 80% of businesses in sub-Saharan Africa suffer from power cuts, resulting in average annual losses of about 8% of turnover.
- The African population is growing at twice the global rate. About 530 million people (one in three) will still have no electricity by 2030. Electricity demand in sub-Saharan Africa expected to quadruple by 2040.
- Developing a sustainable, green and affordable energy supply to fuel economic development is the major challenge.
- In this context, OFTY has developed a green box (GROX), INDLU, SNETBEE as an environmentally friendly and affordable energy solution to ensure the continuity of services in case of electrical shedding for SMEs.
- The ETUL lamps, powered by a solar powerbank, will be able to regulate social inequalities by allowing students to have a light once night falls, no matter where it is on the continent.

Objectives



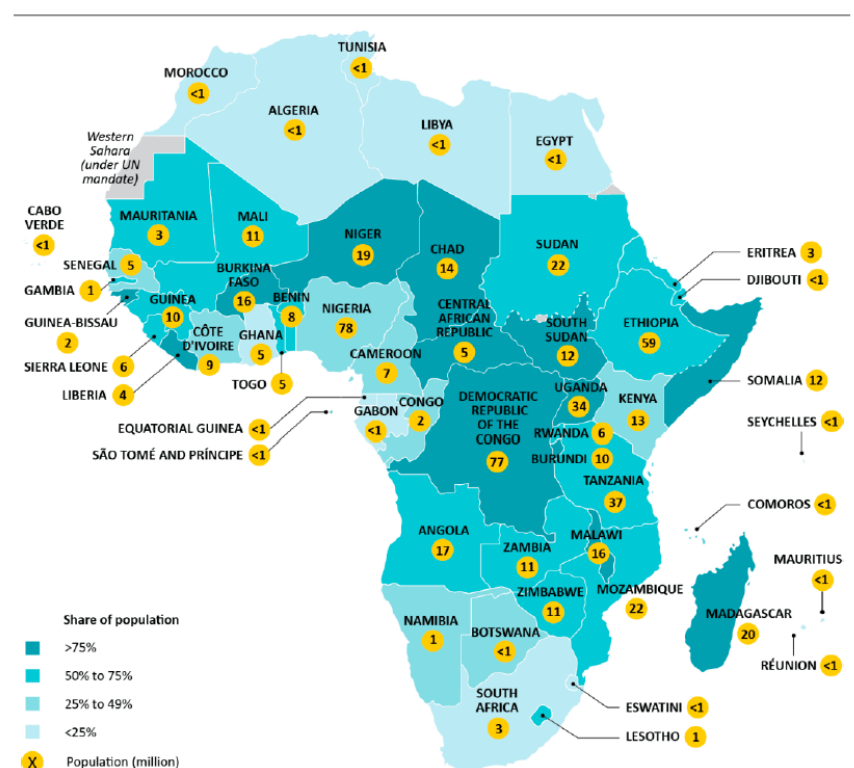
ETUL & GROX, INDLU, SNETBEE as green, targeted and affordable solutions for African sustainable development

Problems

1) Darkness causes obscurantism, illegitimacy and inequality of opportunity

2) Lack of affordable solutions to ensure continuity of service in the event of a outage

Figure 1.10 ► Population without access to electricity by country in Africa, 2018



In sub-Saharan Africa 55% of people lack access to electricity; in thirteen countries, more than three-quarters of the population do not have access to electricity



80% of companies in sub-Saharan Africa are suffering from power cuts



53% of Sub-Saharan African companies own or share a generator



8% average annual loss of sales in connection with power cuts.

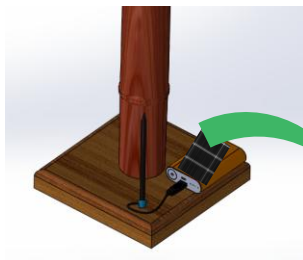
16 % for the informal sector.

Solutions : A clean and cheaper lighting for everyone

1) **ETUL lamps** : efficient, accessible and affordable lighting solution for all households regardless of income, residential areas (rural and urban) → **NDJO'O LIGHT !!!**



Floor lamp powered by solar powerbank



Power Bank

Models	Product description
E	5m cable, Bulb, fixtures & Affordable
G	Floor lamp, adjustable (2m high) & Prix abordable
A	Chic and decorative design Floor Lamp powered by PowerBank
L	Chic, bohemian, made of African natural sources (Bambou, Rotins)

Solutions : A clean and cheap light for everyone

1) ETUL Model E :



 Capacité/ Capacity	10000mAh <input type="checkbox"/>				20000mAh <input type="checkbox"/>				30000mAh <input type="checkbox"/>			
	0	1	2	3	0	1	2	3	0	1	2	3
N° Panneaux solaires/ Solar panels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Composition: AMPOULE 5W, CÂBLE de 5m, Power bank, Dispositif de Montage

Poids : 0.96kg

R & D : FRANCE & CAMEROON

Fabriqué à : PRC



par OFTY



Local competition

Lampe/Bougie



PROS

- Very Affordable (3500/125 FCFA) and accessible lampant oil
- Portable, simple to use, reliable and long lasting
- No Maintenance

CONS

- Very low lighting (harmful to the eyes)
- Can be messy and causes fire hazards
- Toxic Product (High Benzene and Sulphur and carbon monoxide)
- Soot and Smoke which dirty walls
- Heavy maintainance

ETUL - MODELE E



PROS

- Affordable (from 9 500 FCFA)
- Very good luminance and brightness and long lifespan
- Maintenance (Powerbank & bulb can be changed independently)
- Mounting flexibility
- Mobile powerbank can be either charge everywhere by solar cells or wall socket
- Solar powerbank can be used to charge other devices (Phone)

CONS

- Solar powerbank takes long time to charge via sun light
- Need human intervention to charge

Lampe solaire



PROS

- Less expensive (about 12000 FCFA On average)
- Can be recharged either by solar cells or wall socket
- Portable
- Little maintainance

CONS

- Poor luminance
- Lighting time very low
- Limited flexibility and short lifespan
- Need human intervention to charge

Lampes d'urgence LED



PROS

- Less Power consumption and longer lifespan
- Have a good luminance
- Very handy, flexible and portable

CONS

- Less affordable and poor lifespan (about 6 months)
- Heavier maintainance (bulbs and batteries can't be replaced)
- Heat sensitivity which reduces lifespan
- Poor lighting time (less than 4 hours)
- Contains hazardous materials which requires proper disposal
- Need human intervention to charge

Système lampes solaires



PROS

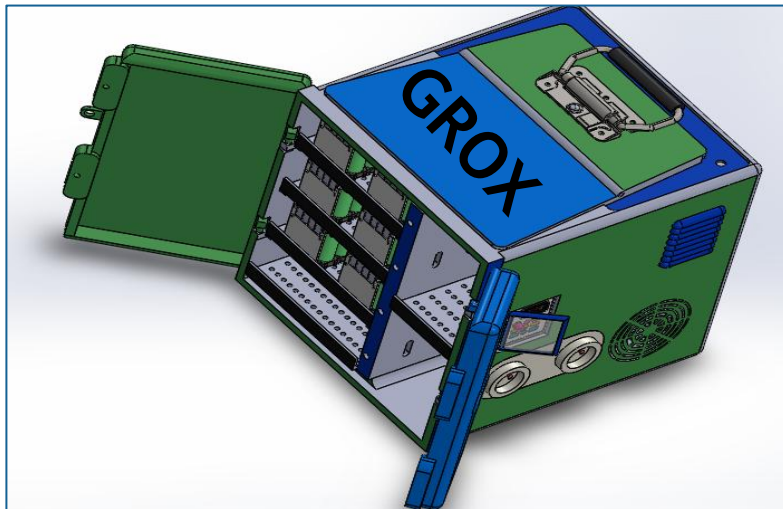
- Have a Good luminance
- Charged by solar cells
- Good endurance and autonomous
- Can charge other devices like phones etc

CONS

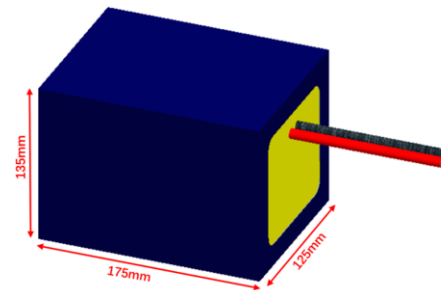
- Very expensive (as high as 85000 FCFA)
- Requires a technical team for installation
- Heavy maintainance

Solutions : A clean battery, cheaper and easy to install

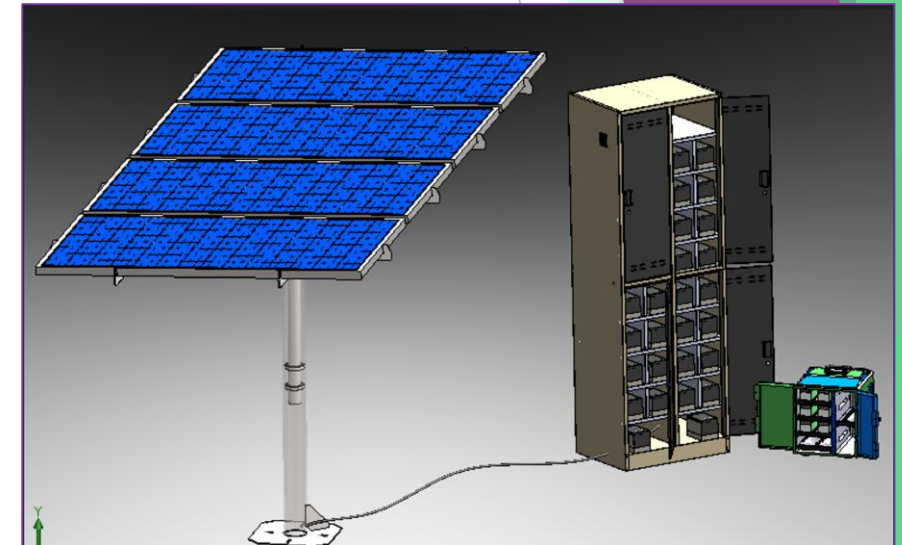
2) GROX (Green Box); cheaper, scalable and accessible solution to ensure continuity of service in case of electric shedding for MPMEs, events & utilities



BOX power supply containing modular batteries & inverters



Lithium Ion batteries

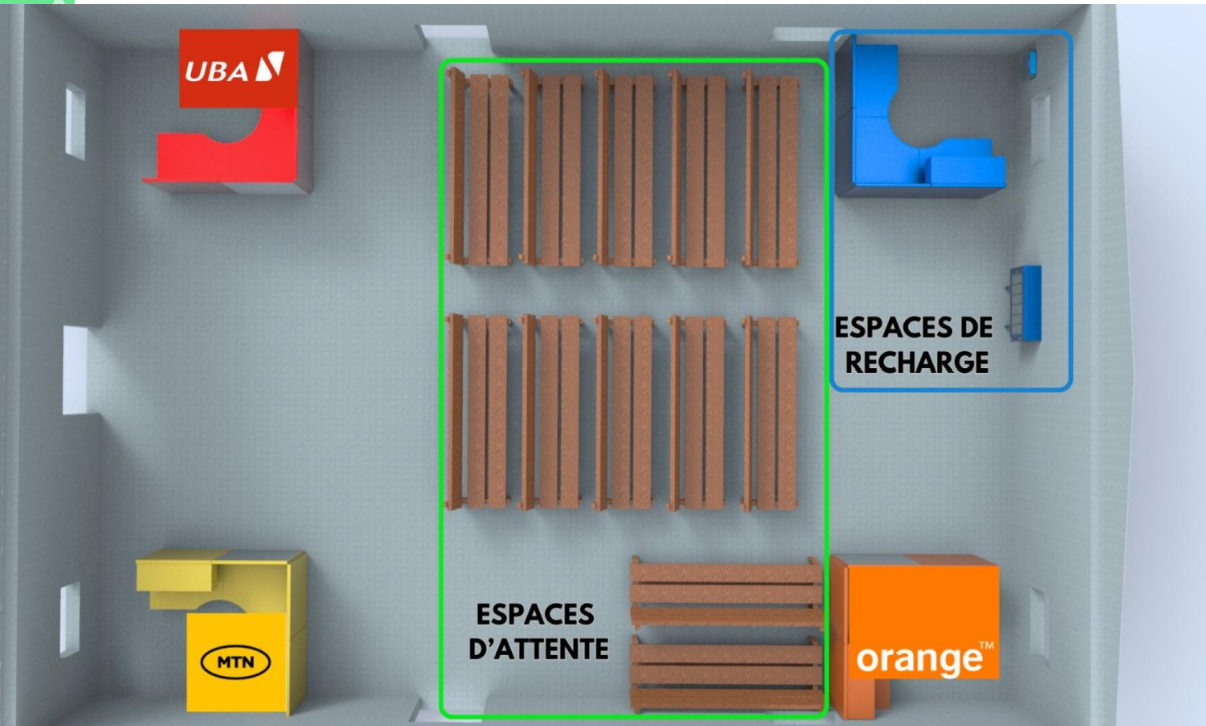


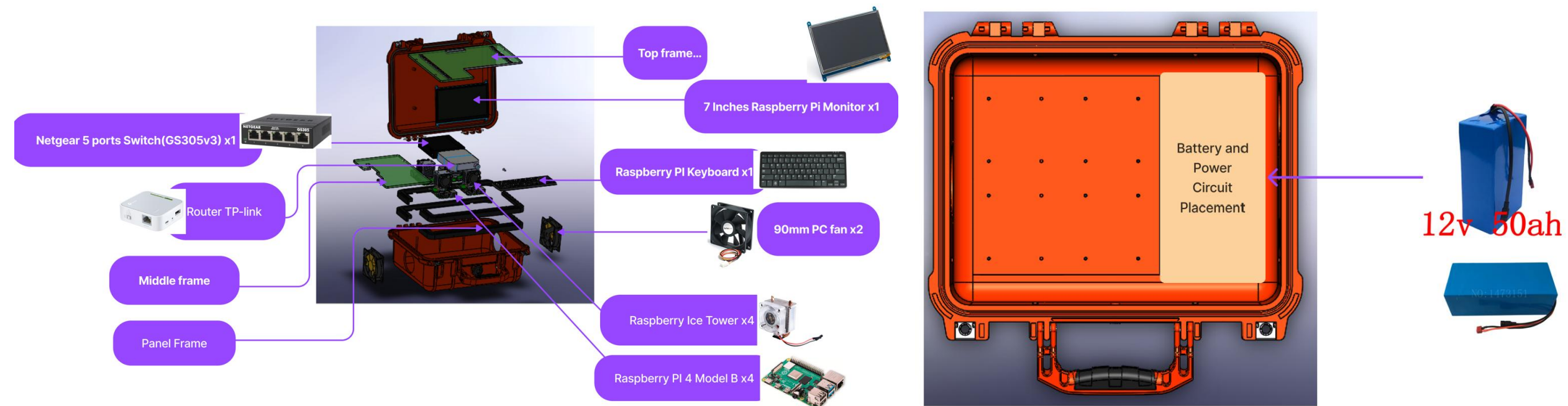
Solar battery charging station

Solutions : Community multimedia & business center

3) INDLU: « Arbre à palabre »

PARTNERSHIPS: Public-Private





Solutions : Sustainable development via technology

4) SNETBEE ; Mini & autonomous datacenter

SOLUTION DE RECYCLAGE DE BATTERIE

PAR ITOK STEVE HECTOR
INGENIEUR GENIE ELECTRIQUE
OFTY CAMEROUN



WE CARE ABOUT YOU

