

# Vianne Refrigeration

Healthier and more productive communities in Africa by the means of effective vaccines conservation

# The Summary

- **Background: Vaccination and laboratory tests:**

The integrity of both vaccines/medication and lab test reagents must be preserved:

- Most health centers especially in rural and urban areas cannot guaranty the cold chain for vaccines effectiveness.
- Misdiagnosed diseases because the lab test reagents are not stored properly in refrigerators.

- **Challenge:**

Poor electricity and reliable refrigeration to guaranty cold chain (2 to 8°C or at -20 °C) to maintain:

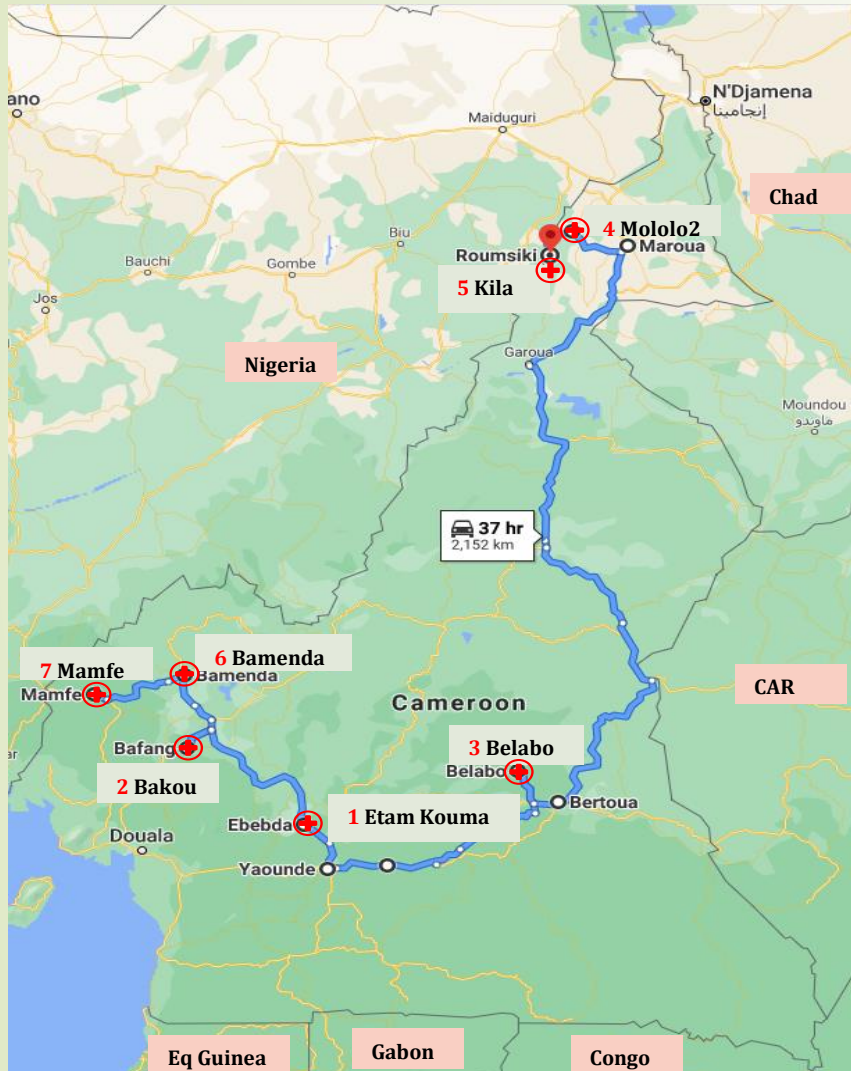
- The potency of vaccines, serums, antibiotics, insulin, blood etc.
- The efficacy of the lab test reagents to provide accurate diagnostic of diseases.

- **Solution:**

Autonomous solar-powered high quality refrigerators with controlled and monitored temperatures

- Meet WHO performance requirements for vaccine storage, 2-4 less the price

# Deployment in Cameroon October 2020



## 7 installations overview

- 7 Health centers across Cameroon in October 2020
- 3 weeks, 4000 miles, crew of 6
- Each health center with refrigeration, lighting and more power

## 7 installations targeting specific challenges

1. Etam Kouma: Bring back a failing health center with Vaccination
2. Bakou: Poor grid quality keeps damaging refrigerators
3. Belabo: Vaccinations to address CAR refugees and tuberculosis cases
4. Mokolo2: A blown transformer cut the vaccination rate in half
5. Kila: No grid electricity, gas powered refrigerator is costly and unreliable
6. Bamenda: New health center for displaced population fleeing unrest
7. Mamfe: Using cooler to store vaccines and change ice daily

Vianne Refrigeration for Vaccine conservation in Health center Cameroon, October 2020



# Cameroon: health centers field deployments October 2020

Dates	Qty	Description of installations	Location	Division	Region
3-Oct-2020	1	Solar-powered refrigeration with temp recorder, Lighting & more	Etam-Kouma	Lekié	Centre
5-Oct-2020	1	Solar-powered refrigeration with temp recorder, Lighting & more	Bakou	Haut-Nkam	West
9-Oct-2020	1	Solar-powered refrigeration with temp recorder, Lighting & more	Belabo	Lom-et-Djerem	East
12-Oct-2020	1	Solar-powered refrigeration with temp recorder, Lighting & more	Mokolo2	Mayo-Tsanaga	Far North
13-Oct-2020	1	Solar-powered refrigeration with temp recorder, Lighting & more	Kila	Mayo-Tsanaga	Far North
21-Oct-2020	1	Solar-powered refrigeration with temp recorder, Lighting & more	Bamenda	Mezam	North West
22-Oct-2020	1	Solar-powered refrigeration with temp recorder, Lighting & more	Mamfe	Manyu	South West

