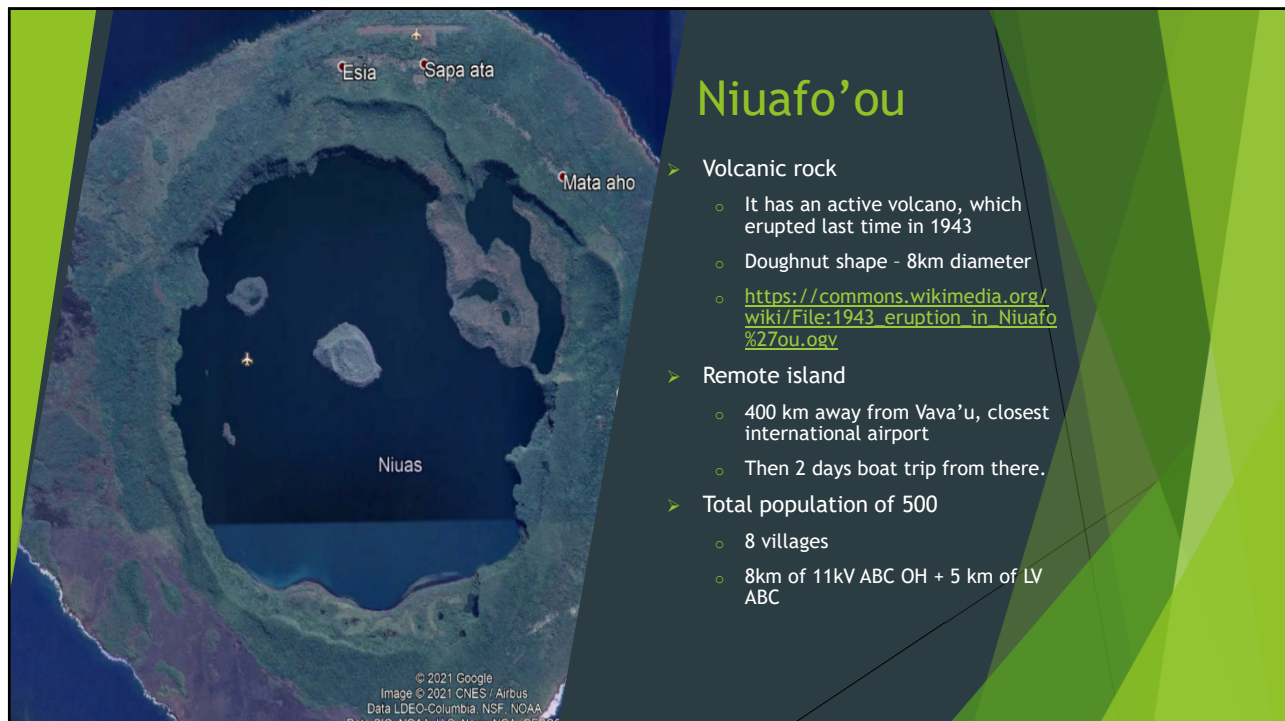
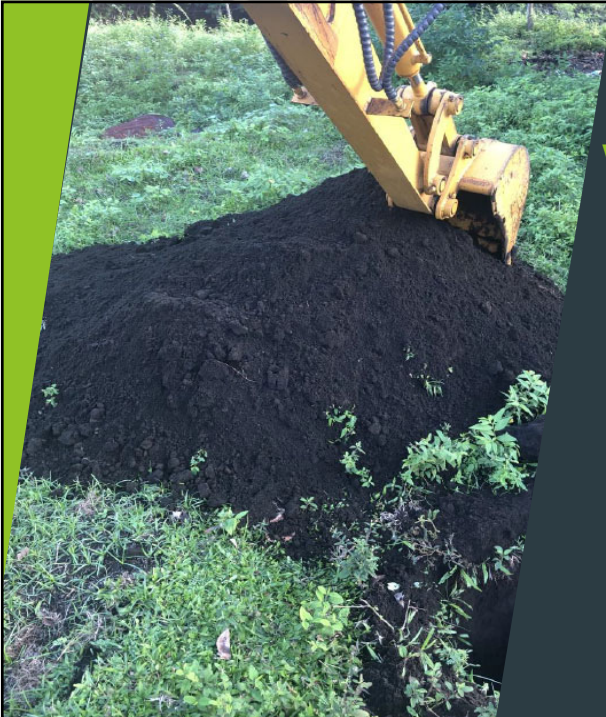


1



2



Weather Conditions

- Soil pressure: Average of 2200 kPa
 - Peaks of over 5000 kPa
- Annual average temperature: 27° C
- Wind pressure: 1325 Pa (169 km/h) - 25 RP wind
- Very densely vegetated
- Fairly flat (ish)

3

Nobody Said it was Easy



4



Equipment Needed

- 200 x 11m 12kN SW poles
- Cable Drums
 - 8 km of 3c 95mm² 11kV ABC (with catenary wire)
 - 5 km of 4c 95mm² LV ABC
- 9 x Tx's
- 90 x Service Pillars
- 250 x House Switchboards
- 70 x Streetlights
- 570 x Solar Panels

5



Plant and Crew

Plant

- Hiab
- Truck
- Excavator (6 Tn)
- Rock wrecker
- Trailer
- EWP
- Jinker
- Tools
- Fuel

Crew

- 2 teams of 3 people
- Another crew for wiring + UG

Estimated Timeframe

- Handling poles: 30 working days
- Pole preparation: 15 working days
- Standing poles: 40 working days
- Running cable: 30 working days
- Mounting tx: 10 working days
- Earthing: 25 working days

Total: 150 working days (~6 months)

6

Safety in Design

Feedback from the client:

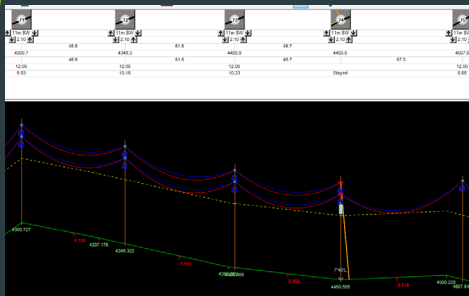
- Drowning etc in transit to site
- Mosquito borne disease
- Water unavailable on site (likely to be rainwater)
- Animals on site causing damage (i.e. wild pigs)
- Dog bite
- Tidal wave and cyclone
- Flooding
- Heatstroke
- Communications unavailable to islands in case of major faults
- Illegal connections/electrocution
- Vandalism



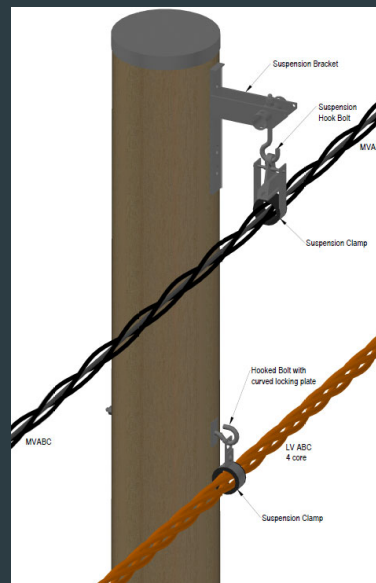
And... Don't get seriously hurt because the closest doctor is 2 DAYS away

7

Final Product



- Max span:
 - 50m for MV and LV spans
 - 67m for MV (@ 15% EDL)
 - 65m for LV (@ 5% EDL)
- Max angle free standing pole:
 - 4° for MV and LV
 - 6° for MV



8

Thank you! Any questions?

