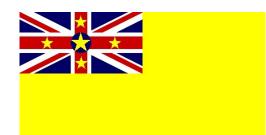
Niue Island Overview Bula Vinaka!!





Niue Island Government











Niue Island. Niue's Current Situation



Niue has an existing fibre ring with ten MSANs spread out over the island. This is currently being used for Mobile, Voice, and Data.

Population:	1700
2G Mobile Users	970
Fixed phone lines	700
Government Users	400
ADSL Customers	400
Leased Fibre Customers:	10
Tourists per year	10,000

Using Geostationary Satellite on IS18 @40/8 Mbps using Spark.

Niue pushes approximately 1.8 Terabytes through the satellite per month

Leased fibre internet lines available to Businesses in capacity of 1-5Mbps price dependant on contract term.

Niue Island.

Current pricing - Prepaid Plan sample Ad









Niue Island. Current Local Challenges





We can expect a Data Explosion once 4G onboarded

With 4G being delivered the data requirement will increase as public consume more.

Affordabilty

The cost of Satellite is still high >\$700USD per Mbps, any savings are passed down to our customers however one third of our fixed line customers are not using broadband yet.

Reliable Power

Niue is mainly run off diesel fuel with a small percentage of Solar. Power is stable but contingency must be built into local systems i.e Generators, batteries, spares, diesel, = increased TCO.

Harsh climate

Niue is prone to lightning strikes . Because Niue is made up of limestone it is difficult to get good grounding. This is a national problem and is exacerbated with any electrical equipment.

Ageing Hardware

Telecom Niue has a mixture of Legacy Network Equipment in its Core, Distribution and Access layers which makes it hard to manage.

Niue Island

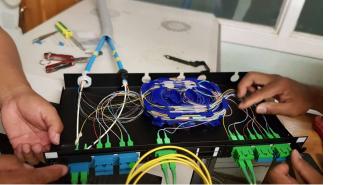












Upgrade of 1Gb to 10Gb Core, Distribution Layers in preparation for Submarine Fibre.

Rollout Access layer of GPON and FTTH to all homes and business', i.e replace Copper network And increase speed from 4Mbps DSL to 100Mbps

The roll out of a new 4G VoLTE Mobile network to increase access speed to 150Mbps to mobile devices

Increase utilization of Layer 7 Caching, Packet shaping, Packet filtering, and provide local content to enhance user experience

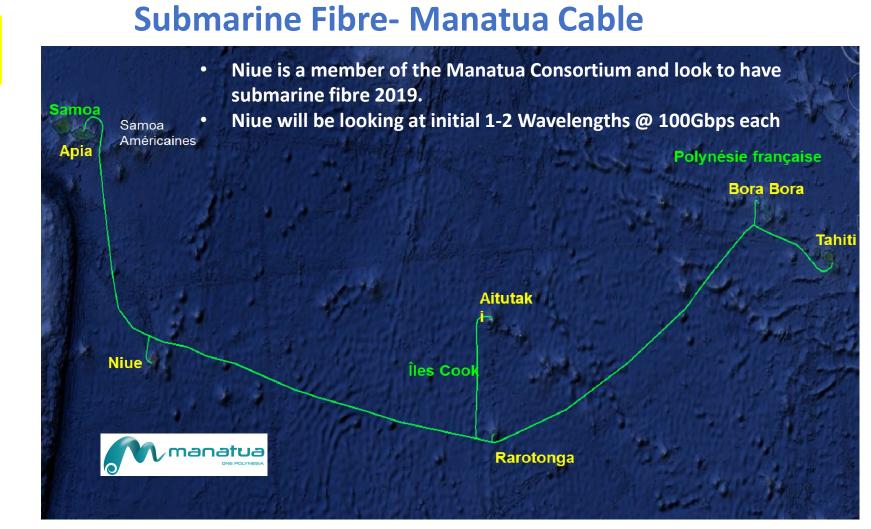
Investment in Fibre and 4G seen as climate friendly

Niue Island



elecom

Aiue



Niue Island Submarine Fibre Challenges





Consortium Agreements, Treaties, MoUs, Tech specs, SoW, C&MA, tender.

Upfront Capex and the proportion of megahertz allocation based on investment.

Niue is a raised Coral atoll so the Technical logistics of landing the cable is complex and Social Economic impacts critical to the small potential areas.

CLS preparation.

Terrestrial network preparation



Niue Island Regulatory Framework





Telecom Niue is the incumbent Telecommunications licenced operator.

Regulations are set and managed by Niue Law:

Niue Communications Act 1989.

All public, private, radio, telecommunication licences are granted by Cabinet.

Supporting Policies: Cyber security Niue ICT policy







Thank you to all Sponsers Fakaaue lahi Vinaka vakalevu







Come Visit us!

Hibbard & McCann Consulting International







SCCL – Southern Cross Cables



Hawaiki Submarine Cables CIENA