

Connectivity in a small island nation

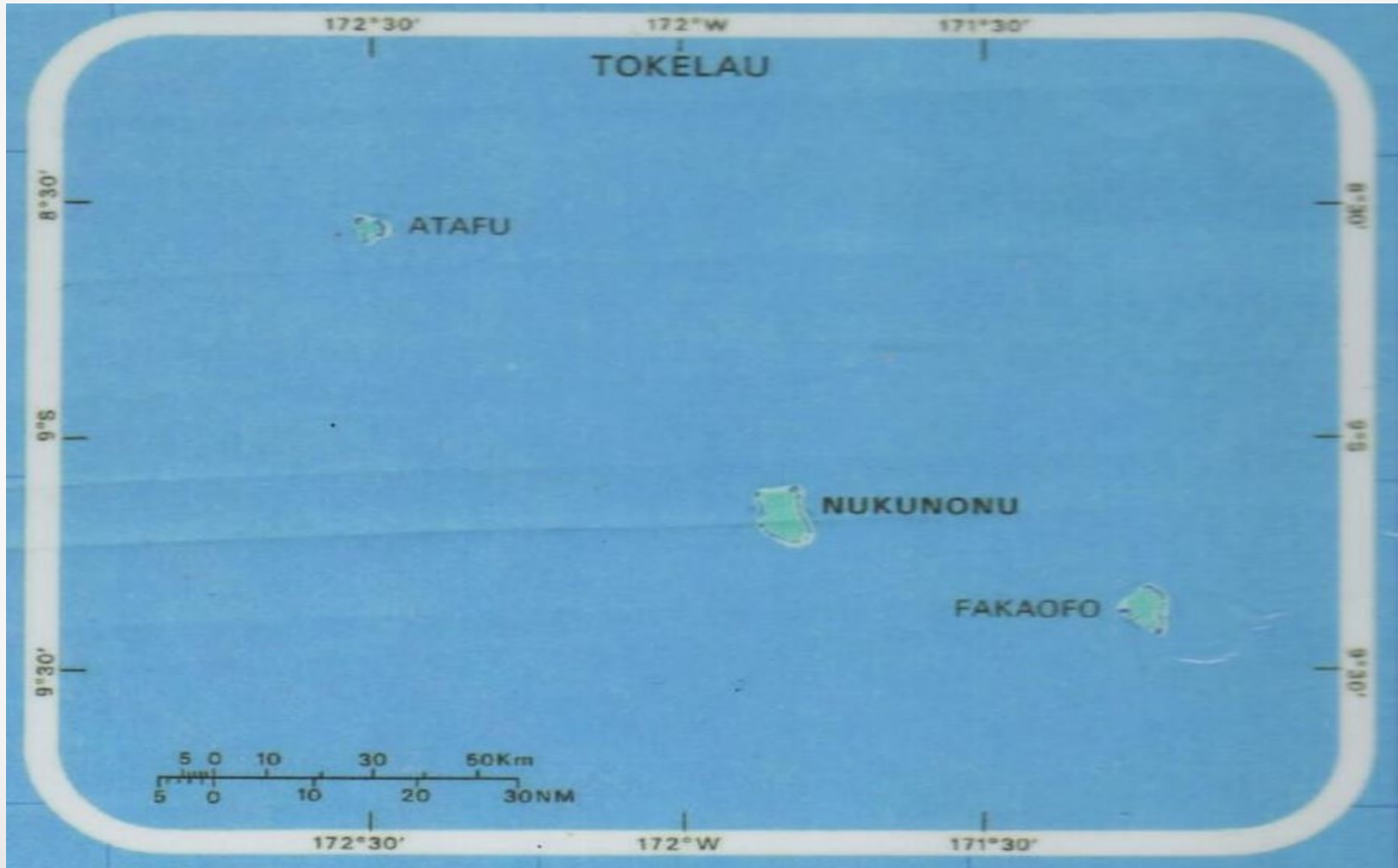


TOKELAU (Teletok) Country Report

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Map of Tokelau



Background

- Tokelau
 - Territory of New Zealand
 - 3 islands
- Teletok
 - A monopoly legislated to provide telecommunications and ICT
 - The only operator and regulator
- Population – 1400

Network status

- Fixed network
 - Copper cable
 - Voice, ADSL internet and WiFi
- Mobile network
 - 4G LTE
 - Voice, Video Call, Data, SMS, VMS etc.
- Market penetration:
 - Coverage – All 3 islands
 - Fixed – 95% households
 - Mobile – 400+ individual customers (Devices, Dongles and MiFi)

International connectivity

- Currently on satellite
 - Link to Intelsat IS18 via Spark NZ
- Current capacity
 - 32.5M Total
 - 25M Down (shared)
 - 7.5M Up (2.5M to each island)
- Future connectivity
 - Submarine cable is an ambition

Pricing of connectivity

- Current pricing
 - significantly declined since June 2015
- Present vs Future
 - From an investment perspective (at same bandwidth capacity):
 - Current satellite price is expensive than investing in cable to the next 25 years

Developments on connectivity

- Future is under review
 - High level – NZ MFAT and Teletok
- Submarine cable:
 - 2 potential providers – SX Next and the Tui Samoa
- Satellite
 - Cable prevails, satellite remains as redundancy link
 - Otherwise redundancy antennas will be put up soon straight final review

Policies and regulations

- Drivers of better connectivity:
 - New Zealand ICT road map
 - Access internet speed at least 20Mbps per citizen from 2020
 - Tokelau National Strategic Plan 2016-2020
 - Teletok Corporate Plan 2016-2020

Challenges pertaining to access cable

- Access to better connectivity on submarine cable
 - Solution
 - Geographical nature and remoteness
 - Key enabler of Tokelau national development
 - e-health e.g. telemedicine
 - e-government
 - remote education
 - video conference
 - Enables new business opportunities e.g. development of tourism
 - Makes life easier

Challenges in the islands

- Small market size
- Economies of scale (impractical)
- Low purchasing power

Affordability solution

- Ongoing reviews by NZ MFAT and Teletok
 - On practical options to resolve our challenges

The End



Thank you & Fakafetai lahi

