- Huge distances
- Limited populations
- Isolation issues
- Need for cheaper and faster bandwidth
- Satellite bandwidth price over 1500 USD / Mbps
- **Southern Cross**: Sydney - Auckland - Hawaii - US west coast - Suva - Sydney
  - Capacity: 6 Tb/s
  - End of life: 2020

- **Endeavour (Telstra)**: Sydney - Hawaii
  - Capacity: 1,2 Tb/s
  - End of life: 2034

- **Gondwana**: Nouméa - Sydney
  - Capacity: 640 Gb/s
  - End of life: 2033

- **Honotua**: Tahiti - Hawaii
  - Capacity: 640 Gb/s
  - End of life: 2035

- **ASH**: Pago-Pago - Hawaii
  - Capacity: 1 Gb/s
  - End of life: 2014 / 2015 ? (no more spare parts)
  - SAS cable: Apia - Pago Pago
Hawaiiki cable project overview

- **Project summary**
  - Provide international bandwidth to Australia + New Zealand + Pacific Islands
  - Propose point to point capacity via 100 Gb/s wavelengths
  - System design capacity : 20 Tbps
  - 2 step project

- **Time schedule**
  - Q1 2013 : signature of supplier contract
  - Service date : 2015

- **Project development by Intelia** ([www.intelia.nc](http://www.intelia.nc))
  - Leading telecom integrator
  - Partnership with Ericsson, ZTE, Telstra, Prysmian, etc...
  - 2011 turnover > USD 40M
  - Commercial references :
    - Supply and installation of 3G+ mobile network in NC
    - IP transit service for Gondwana cable in Sydney
  - Submarine cable experience - in partnership with ASN:
    - New Caledonia cable : Gondwana in 2008 - 2 100 km
    - French Polynesia cable : Honotua in 2010 - 4 500 km
Hawaiiki Cable Step 1
Main backbone / Strategic route
Hawaiiki Cable Step 1
Potential spurs for Pacific Islands

- OADM branching unit
- Cable spur
Hawaiiki Cable Step 1
System specifications

- Link Sydney - Auckland - Hawaii (approx. 10 200 km)
- Including potential spurs: Norfolk Island, Nouméa, Port Vila, Suva, Vava’u, Wallis, Apia and Pago Pago
- 2 fiber pairs, design capacity of 20 Tb/s
- Latency Sydney – Hawaii: 91 Ms
- Latency Auckland – Sydney: 21 Ms
- Cable life expectation: 25 years
Hawaiiki cable Step 2
Hawaii – California link
Hawaiiki Cable Step 2
System specifications

- **Step 2 specifications**
  - Link Hawaii – US West Coast (approx. 4 100 km)
  - Configuration: 2 fiber pairs, design capacity of 20 Tb/s
  - Latency Sydney – Hawaii – US West Coast = approx. 140 Ms
  - Cable life expectation: 25 years
Company structure

System design
RFP supplier contract

System supplier
TBD

Hawaiki Cable Ltd
Registered in Auckland - NZ
System owner and operator

Project development

Financial and Tax services

Legal services

Capacity contracts

Funding