Regional GSM
Pacific Vision
This presentation is about:

- Centrally located Mobile network hub/core for the Pacific region and will assist the enabling of:
  - USO implementation
  - Regional coverage
  - Disaster Recovery

- Integrates with NSN ‘Village Connection’ & RICs programmes
Why not before.....

- Cooperation at regional level
- Vendors
- Operators
- Technology
  - Power requirements
  - Transmission (connecting sites to core network)
  - Local switching
  - Multiple ‘countries’ within one network
Regional Mobile Communication System

Application A
Whole Community/Country

Application B
Remote Region / USO

Application C
Disaster Recovery

Regional Hub
MSC, BSC, HLR, SMSC, etc
International Interconnect

RICS
Regional Mobile Communication System

- Suitable for larger population areas (1000+ people) with no existing mobile coverage
- Potentially complete country mobile network
- Can migrate to existing domestic operators when/if required
- Multiple Networks able to be run at same time
- Examples of application – Nauru, Niue
Regional Mobile Communication System

- Solution for countries with small distributed isolated populations
- Integrates with RICS
- Migrate solution to domestic operators as required
- Network still appears to be part of country
Regional Mobile Communication System

- Reduces disaster response from weeks to hours
- Simple to implement
- Rethink of traditional solutions
- Technically the same as the other applications
- Actually can functionally replace the destroyed infrastructure
- Modest investment
Regional Mobile Communication System

Application A
Whole Community/Country

Application B
Remote Region / USO

Application C
Disaster Recovery
Project Proposal

• To determine support for a project that
  – Is a GSM version of RICS
  – Managed by SPC
    • To provide GSM Switching and Billing services at cost
    • To provide subsidised coverage solutions for uneconomical sites
    • ‘Owned’ by the Pacific Nations
  – Integrates with other similar projects - RICS
Remote e-Village Demo

- IP connectivity through PACRICS
- Surf the Internet on a laptop
- Wifi hotspot
- VOIP phone & SIP service
- GSM calls
Demonstration of Regional GSM Solution

RICS – Rural Internet Connectivity System

Tonga Remote site

VSAT

Internet

Melbourne Hub

TCP/IP

TCP/IP

TCP/IP

Base Station – ‘Village Connection’

GSM Access Point (GAP)

RFI 2105

6768782610

6768782639

67687826xx

‘Regional Hosted Core’ [CN office test plant]

PSTN

PBX

MSC

Access Centre (AC)

61388782610

61388782630

613887826xx

613887826xx

613887826xx