Country Presentation - Papua New Guinea
Introduction

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Profile of PNG

- Population - 7.9 mil
- Area - 462,000 sq.km
- 820 languages:
  - Official Languages - English, Tok-Pisin, Hiri-Motu
- Government System - Westminster
- Resources - Gold, Gas, Oil, Fisheries,
Market Overview

Fixed-line
- Telikom PNG

Mobile
- B-Mobile
- Digicel (PNG)
- Telikom PNG

ISP
- Daltron
- Datec
- DataNets
- Global Technologies

Market penetration rates
- Fixed-line penetration: 2%
- Internet Users: 10.3%
- Mobile: 50%

Mobile subscribers: 3 million

Satellite Usage:
- NSS-5&6
- IS-701, PAS-8/IS-8
- Optus A2
- 03B

Submarine Cable
- APNG-2
- PPIC
## ICT Market at a Glance

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<th>Fixed Line</th>
<th>Mobile</th>
<th>Television</th>
<th>ISPs</th>
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<td>Radio</td>
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<td>Pay TV</td>
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**note:** Numbers 18, 9, and 22 are placeholders for actual data.
Policy Reforms

- 1994: National Policy on Information and Communication (NPIC)
- 1996: Corporatization of Post & Telecommunication Corporation (PTC)
- 2002: Introduction of dual regulatory regime
- 2007: Liberalization of mobile market
- 2008: National ICT Policy Phase 2 Reforms and NICT Act 2009
- 2009: National ICT Policy And amendments to Telecom Act
ICT Legislation

National Information and Communications Technology Act 2009

- Operator Licensing Regulations 2010
- Radio Spectrum Regulations 2010
- UAS Rules and Regulations (yet to be approved)
- Cybercrime Regulations (in drafting)
- SIM Registration
NICTA

- Chairman
- NICTA CEO
- International Expert
- Private Sector Rep

Ministry for Communication and Information Technology

NICTA Board

CEO

Engineering & Resource Planning

Licensing & Enforcement

Economics, Consumer and International Affairs

Corporate Services

UAS Secretariat

- Regulator
- Licensing Authority
- Government Representative
- 70 staff

UAS Board
Background - PNG and Satellite Filing

1980
- Pacific Star Project
- PTC filed for Pacstar-1 & 2 (167.45E & -175)

1996
- PTC engaged Loral Skynet
- Pacstar-3 & 4
- Pacstar -L1 - L4 (98E, 122E, 130E, 121W)

1997
- PTC was corporatized
- PANGTELF was established
- Logohu-V series were filed
Background - PNG and Satellite Filing

2003
• Pacstar-L4 (Telstar-13) was brought into use

2005
• PANGTEL filed for New Dawn series

2009
• PANGTEL filed Pacifisat & Raggiana Series
Need for Satellite Communication

- Satellite vital for International Links
- PNG rugged terrain
- Domestic backbone network may still rely heavily on satellite
- 80% of the population in rural areas
- Satellite the easiest and quickest way to connect rural areas
Satellite Pilot Project

Rural Internet Connectivity System (RICS)

- Project Commenced in 2009
- Joint Funding SPC & AusAid
- 8 pilot sites
- Vsat Technology
- Installed in Schools & Church run community centres.
- 3 currently operational (Minj, Ulagunan, Monoitu)
RICS sites

Aitape, West Sepik
Timbunke, East Sepik
Minj, Jiwaka
Gaire, Central
Vula’a, Central
Ulagunan & Duke of York, East New Britain
Monoitu, Autonomous Region of Bougainville
Issues and Challenges

Lack of infrastructure i.e. roads
High illiteracy rates
Rugged topography
Sparse population
Land issues
Lack of awareness
Lack of grid power

In most cases satellite technology is our only option when all else fails
Thank You