OPERATIONAL CHALLENGES, A COUNTRY CASE PERSPECTIVE ON KEY TRENDS, CYBERSECURITY EVOLVING THREATS, SKILLS GAPS AND NEED FOR TRANSPARENCY AND COLLABORATION.

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KEY TRENDS

5G Deployment and Innovative Applications

- 5G is revolutionizing connectivity with high-speed, low-latency networks.
- Pacific countries are adopting 5G to enable smart cities, IoT, telemedicine, and remote education.

Digital Transformation and Emerging Technologies

• Cloud computing, Al, edge computing, and network virtualization (NFV, SDN) are reshaping the telecom ecosystem, making networks smarter, faster, and more adaptable to dynamic demands.

Fiber Optic and Submarine Cable Expansion

• The Pacific relies heavily on undersea cables for international connectivity. Major investments in submarine cables are boosting global bandwidth, while FTTH (Fiber-to-the-Home) deployments are improving last-mile connectivity in urban and suburban regions.

Rural and Remote Connectivity Solutions

• Bridging the digital divide is a critical focus for governments and operators. Satellite internet (e.g., Starlink) and other innovations are bringing connectivity to underserved areas.

EVOLVING CYBERSECURITY THREATS



CHALLENGES

Limited Availability of Skilled Professionals

• The region often lacks a pool of professionals trained in advanced telecom and IT skills, particularly in fields like network engineering, cybersecurity, and cloud computing.

Impact

- Reliance on foreign expertise, which can be costly and lead to delays in addressing technical challenges.
- Difficulty in maintaining and upgrading networks to meet global standards.

Retention of Skilled Workers

• Talented professionals often migrate to larger markets offering higher pay and better career opportunities.

Impact

• High turnover rates disrupt continuity and institutional knowledge

CHALLENGES

Slow adoption of Emerging Technologies

 Skill gaps slow the adoption of Technologies like 5G, IoT, and AI, which are critical for modern telecom operations

Impact

- Delays in deploying advanced services that can boost economic growth and connectivity.
- Reduced competitiveness with telecom providers in more developed regions

Lack of Transparency

- Organizations are wary of sharing information due to various reasons **Impact**
- Hard to determine how prevalent an attack is
- Slow response to threats

OUR APPROACH



RECOMMENDATIONS

Strengthened Infrastructure Development

- Open communications about funding needs, timelines and capabilities ensures stakeholders understand priorities.
- Joint investment and maintenance of shared infrastructure, reduce costs and improve service reliability.

Ensuring Regulatory Compliance

- Helps in maintaining integrity and avoid penalties or restrictions
- Enables cooperative approaches to data protection, privacy, and consumer rights.

SUMMARY

Need for Transparency and Collaboration

- Enable telecom companies in the Pacific to overcome resource limitations.
- Build resilience against threats.
- Foster trust with stakeholders.
- Vital for promoting connectivity, economic development, and digital inclusion across the pacific region.

ANY QUESTIONS?