



# **Vodafone Fiji Network Transformation**

**Building a Resilient, Intelligent and  
Future-Ready Digital Network**

**Ashnil Bali**

# Enabling Fiji's Digital Future



**Access Network**



**Core Network**



**Security**

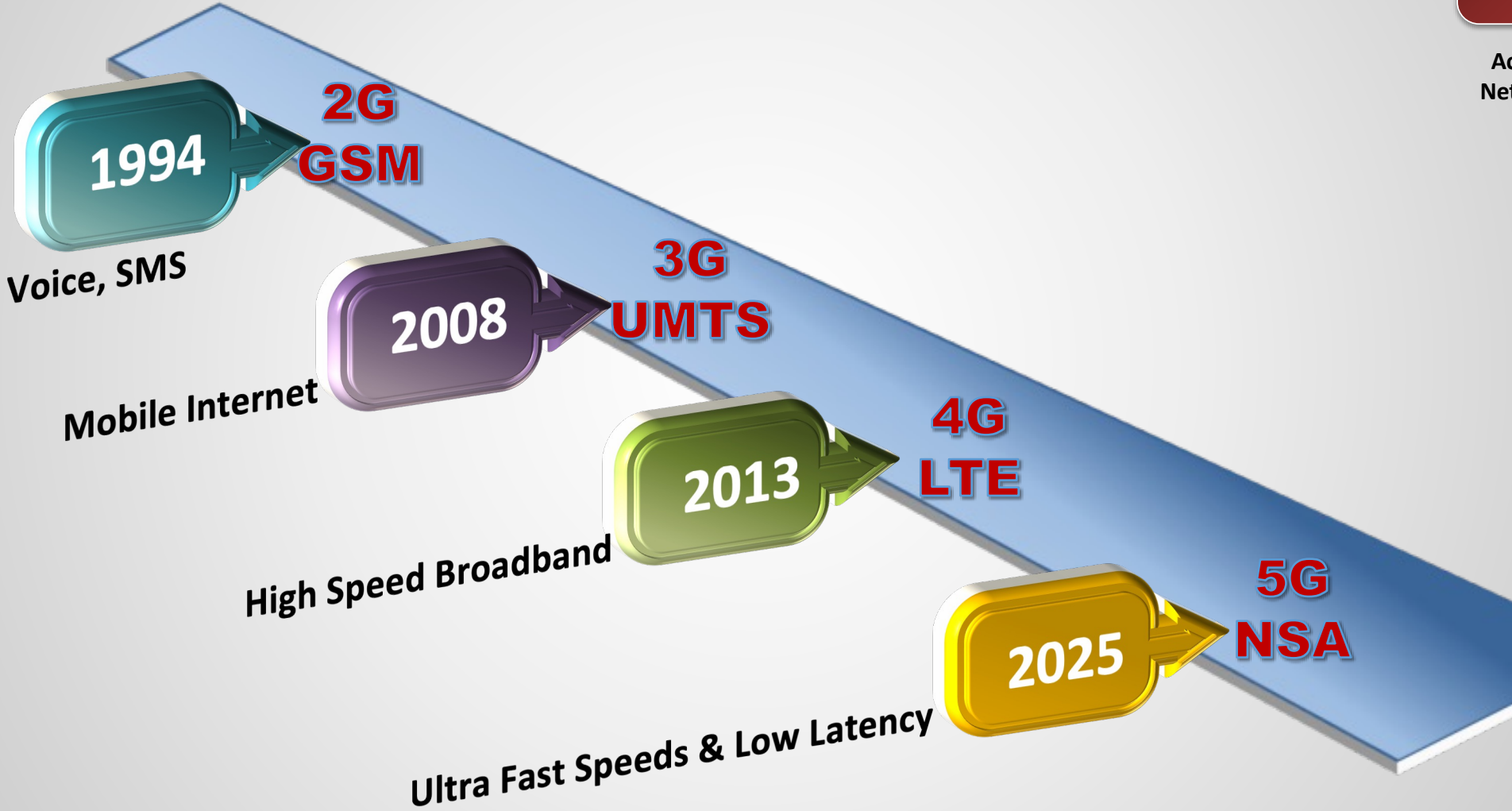


**Network Operation**

# Vodafone Fiji Network Evolution



Access  
Network



# Evolving to a High-Capacity Network



Access  
Network

## Key Drivers

- Rapid growth in mobile data consumption
- Increased demand for digital services, video streaming & online gaming
- Rising customer expectation



## Strategic Initiatives

- Additional 4G Carrier
- 2G/3G upgrade to LTE 4G
- Expansion of 4G coverage across urban and rural areas
- Boost 4G capacity via Massive MIMO
- Radio Network Optimization



## Outcomes

- Higher network capacity
- Improved customer experience
- Better service quality

# Accelerating Fiji's 5G Transformation

Vodafone Fiji  
delivering 5G services in  
accordance with the  
Government's licence  
obligations across key  
economic and  
population centres

## Phases

1

Completed (Year 2025)

- Suva
- Nadi
- Lautoka
- Denarau

2

Work In Progress (Year 2026)

- Nasinu, Nakasi
- Lami
- Labasa, Savusavu

3

Planning (Year 2027)

- Nausori, Sigatoka, Navua

4

Future (Year 2028)

- Ba, Tavua, Rakiraki
- Korovou, Tailevu

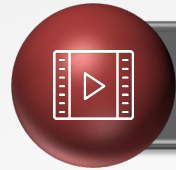


Access  
Network

# Bridging the Digital Divide



Access  
Network



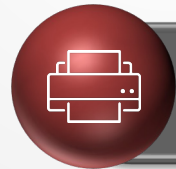
Digital Inclusion



Improve access to essential services



Strengthen national connectivity

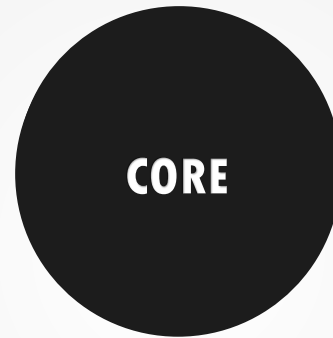


Enable sustainable socio-economic growth

# Modernising the Core Network



Core  
Network



**4 Key Pillars of Core  
Network**

# Modernising the Core Network



Core Network



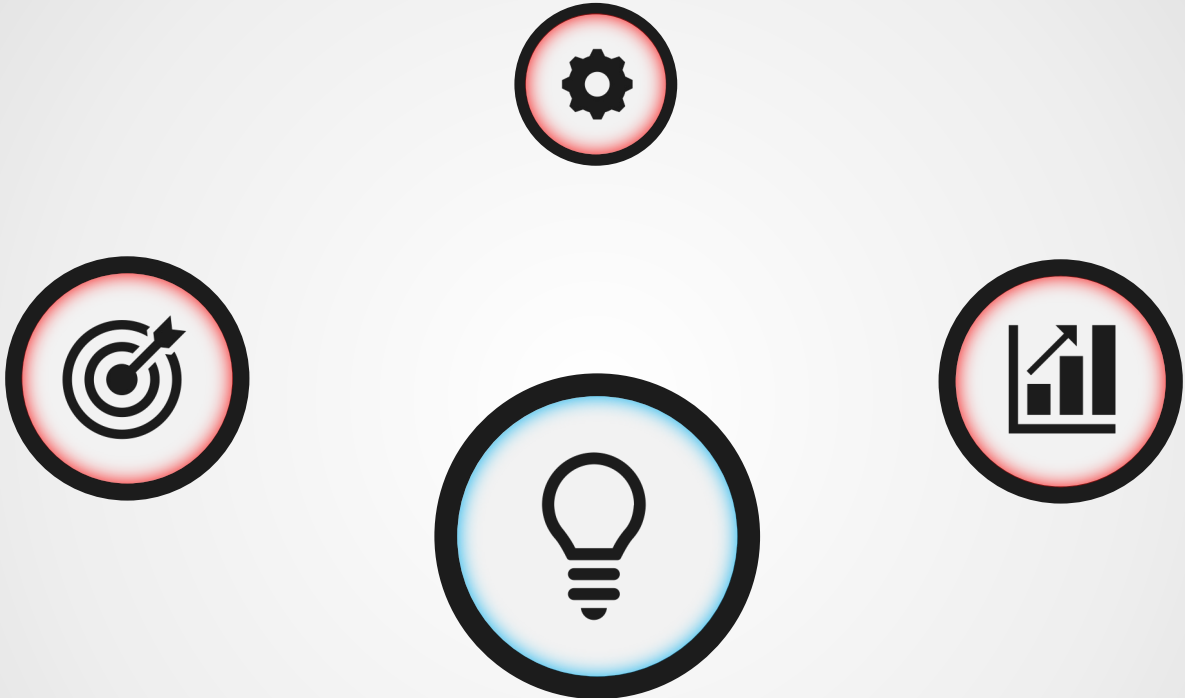
## Cloud Native Core

Virtualised Common Core (Voice + Data)  
Containerised Network Functions

# Modernising the Core Network



Core Network



## Intelligence Transport Layer

Segment Routing & MPLS

EVPN / VXLAN

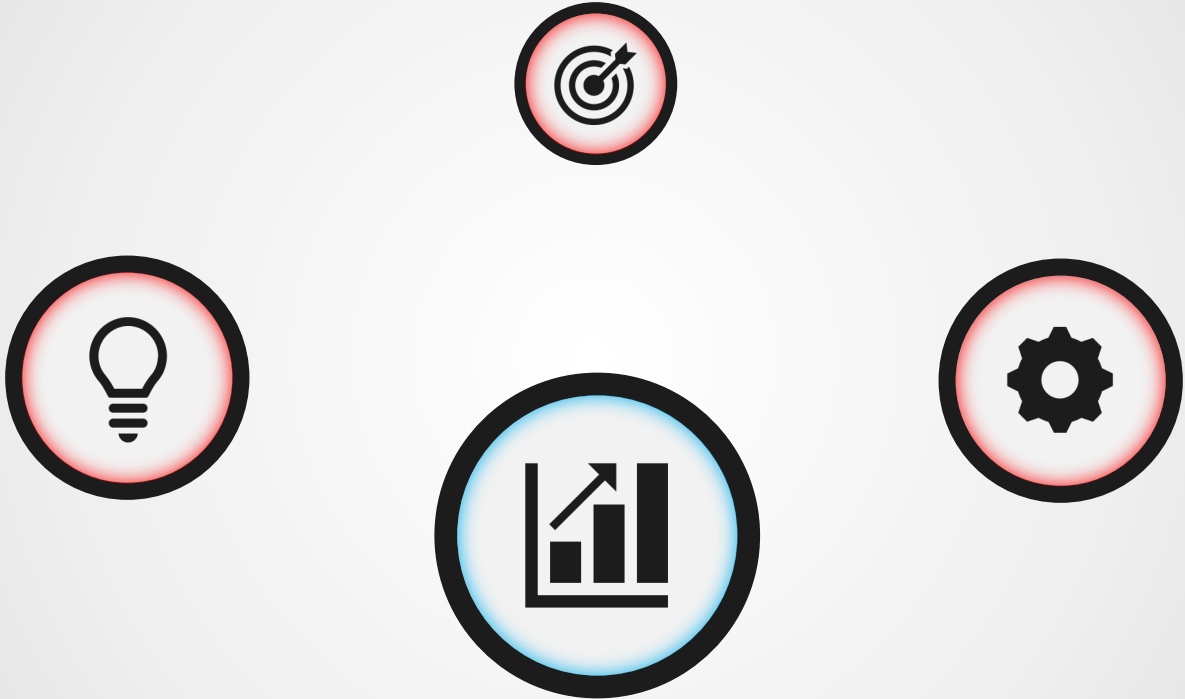
Dual stack IPv4 / IPv6

100G Backbone – Core & Upstream Connectivity

# Modernising the Core Network



Core Network



## Resilience & Availability

- Active-active data centres
- Geographic redundancy (Suva & Lautoka)
- Fast failover & disaster recovery

# Modernising the Core Network



Core Network



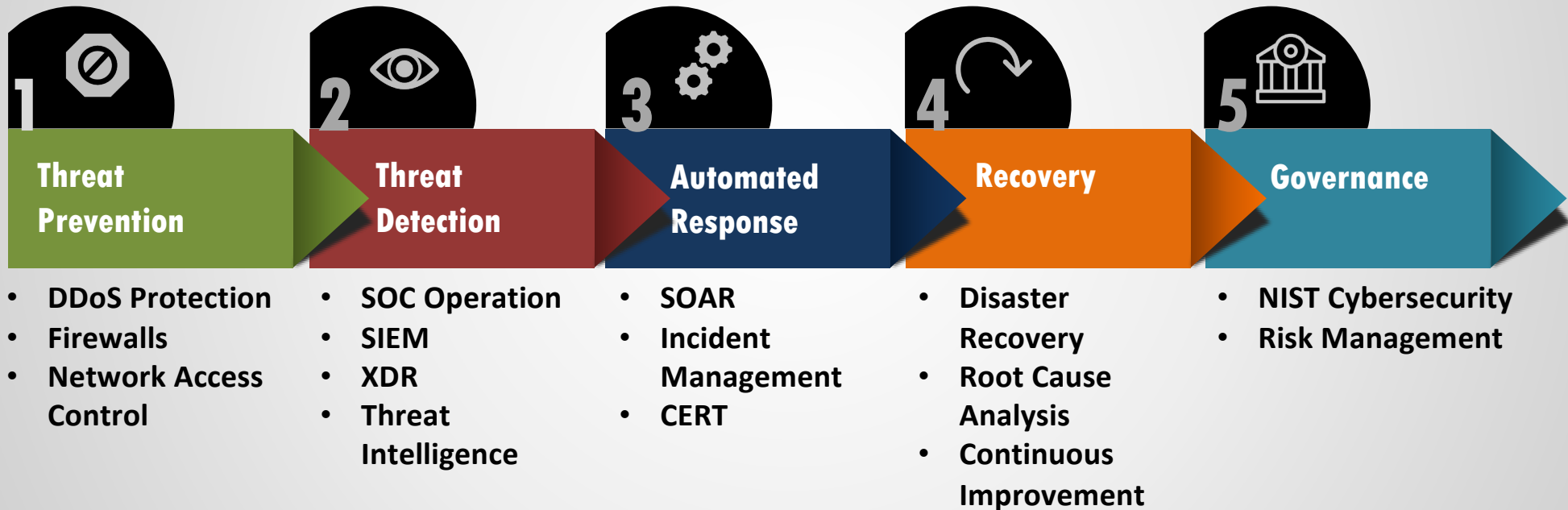
## Customer Experience

- Local CDN deployment – Lower latency, faster content delivery
- VoLTE - HD voice quality
- Intelligent traffic engineering

# Securing the Digital Network



Security



# Intelligent Network Operations



Network  
Operation


### Operational Challenge

- Multi Vendor Environment
- Operational Complexity
- Limited Visibility




### Unified Service Assurance Platform

- Single Plane of Glass
- Alarm Correlation
- Root Cause Analysis
- SLA Reporting



### Business Value

- Greater Efficiency
- Faster MTTR
- Better customer experience



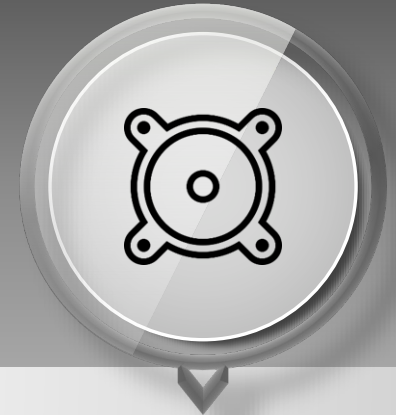
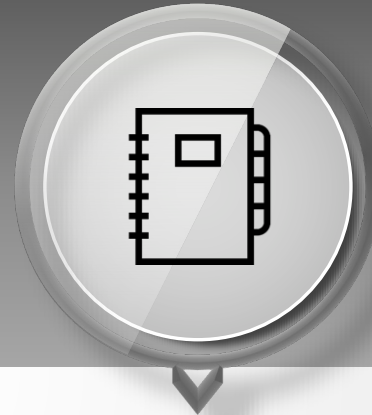
# Future Network Roadmap

**Today & Beyond**

**2026 - 2027**

**2027 - 2029**

**2029+**



## **4G Capacity Expansion**

- Massive MIMO
- LTE Carrier Aggregation
- Rural Coverage

**Stronger Capacity & Wider coverage**

## **5G Expansion**

- Complete Phase 2 rollout
- Extend coverage to high population areas
- New 5G use case: Fixed Wireless Access (FWA)

**Accelerate 5G adoption & customer experience**

## **2G Sunset**

- Sunset 2G in phased approach
- Re-farm spectrum to 4G
- Improve network performance

**More Spectrum for 4G growth**

## **Cloud Native**

- 5G Standalone
- (SA) Core
- Edge computing expansion

**Agile, scalable & future ready network**

# Thank you



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