

# SRv6 Enables MTN Best Network in South Africa

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Position: General Manager, Network Planning at MTN



# Accelerating the PACE of Ambition 2025 Execution



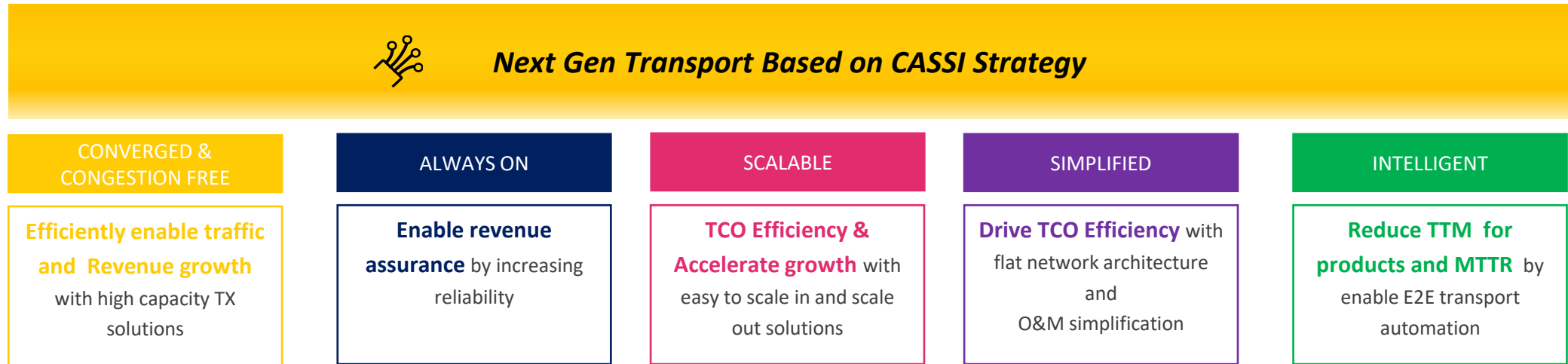
Ambition  
2025  
Enablers



PACE  
Technology  
Initiatives



CASSI  
Transport  
Strategic  
Goals



# MTN SA: Network Digital Map + SRv6 Improves Network Utilization

## Challenges



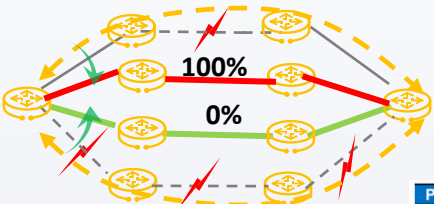
- Poor grid availability
- Fiber breaks



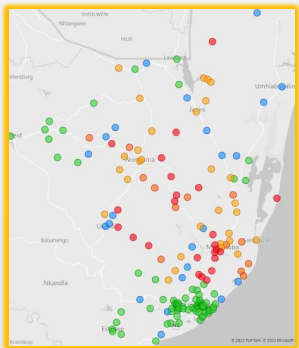
- Network congestion
- Packet loss rate ↑

## Real-time Dynamic Traffic Optimization Powered by E2E SRv6 and Network Digital Map

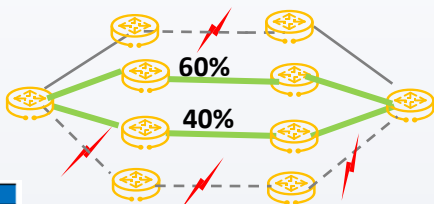
Without SRv6 + optimization  
Load-shedding cause network congestion, PLR increase



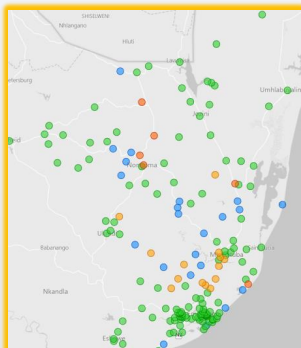
Before SRv6



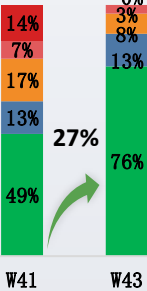
With SRv6 + optimization  
Congestion release, PLR decrease



After SRv6



PLR Level	Color
≥10%	Red
≥1%	Light Red
≥0.1%	Yellow
≥0.01%	Blue
<0.01%	Green

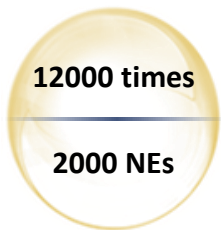


SLA real-time awareness



Automatic path optimization

## Benefits



Network Optimization per Quarter  
Fully Automatic

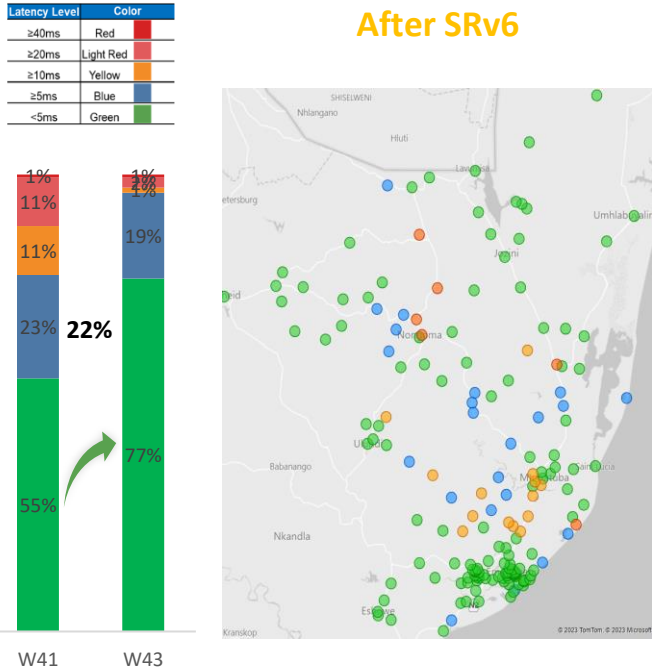
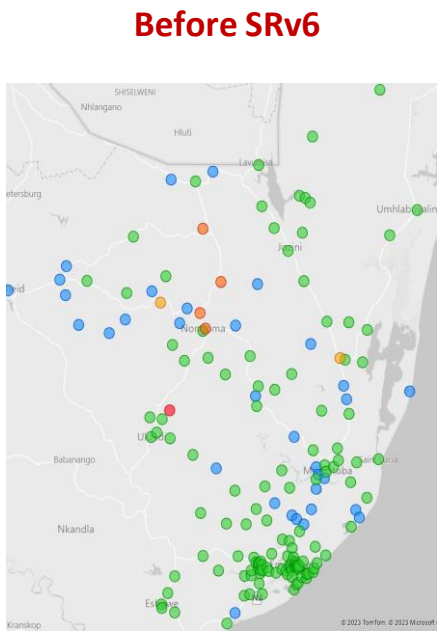
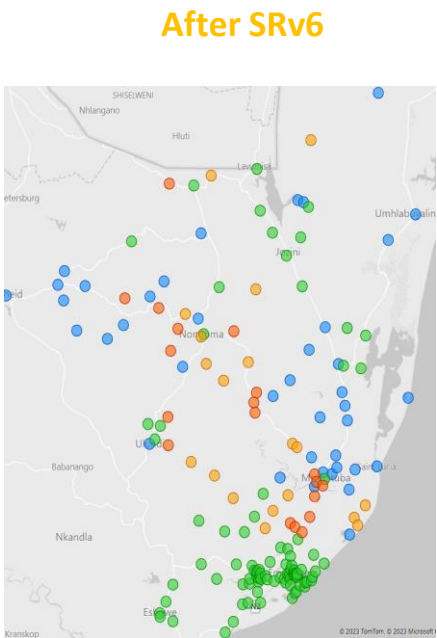
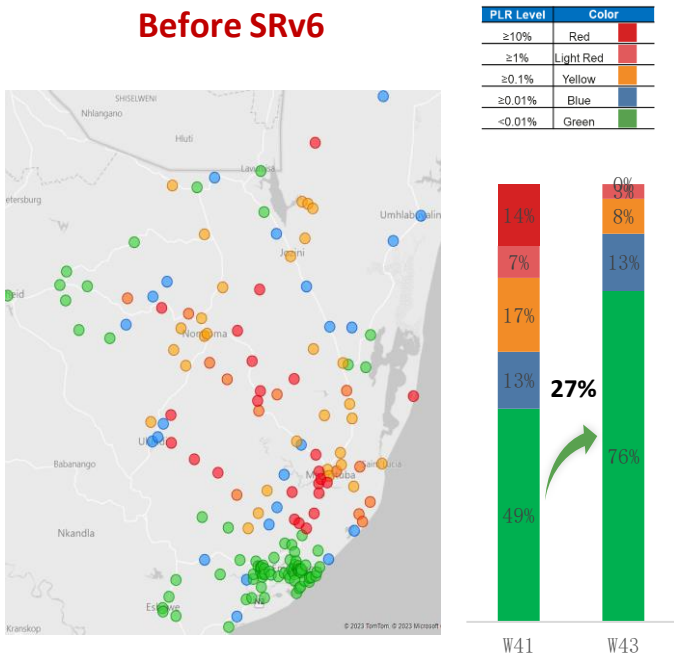
Traffic 15.4% ↑  
Average DoU 25% ↑

# SRv6 Greatly Improve Packet Loss Rate and Latency for Radio Sites



## Packet Loss Rate (PLR) Comparison

## Latency Comparison



### Principle

- SRv6 can automatically optimize network paths, which is very helpful to leverage the capabilities of the network

### Benefit

- The green part of PLR(<0.01%) is improved by **27%**, and the red part of PLR(≥10%) was eliminated
- The green part of latency(<5ms) is improved by **22%**, and the red part of latency(≥4%) was almost eliminated

# IP Strategy: Four stages towards an intelligent cloud network



- C

onverged & Congestion free

*Fiber preferred*, *Bandwidth upgradable*
- A

lways On

*Mesh Network*, *FRR Protect*
- S

calable

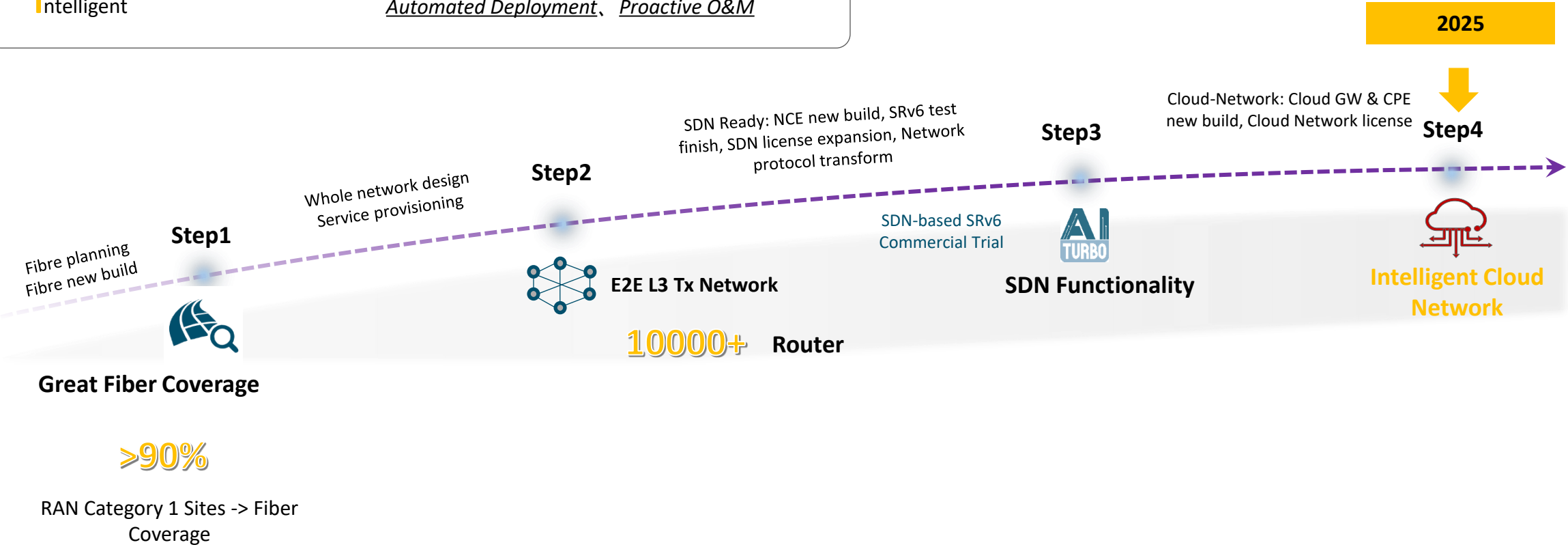
*Reliability*, *Multi-Cloud Connectivity*
- S

implified architecture

*Integrated Transport*, *IPv6+*
- I

ntelligent

*Automated Deployment*, *Proactive O&M*





# Thank you!

