FTTX Council Africa

Creating NEXT GENERATION NETWORK
Autonomous Self Healing & Learning Networks

Cape Town 2017
Connecting Cities of Africa
Ocean and Land based optic fiber
Towards a 200 – 400 Gigabit/Sec
Wavelength
SA-Connect
High Speed Intercity Network With
Metro & Access
IoT – Ready

A.I
Big Data
Bridging the Digital Divide
With high speed optic fiber – Future internet is Video

Who are the generators of video content?
IoT deployment
Optic fiber is the “rail road” of future internet
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Optic fiber is the “rail road” of future internet

Cyber Defense Platform
Security as a Service (SaaS)
Infrastructure as a Service (IaaS)
From MPLS to NFV & SD-WAN
Connected `Homes, Government, Hospitals & Schools

Network of the Future
Giga - Home

Giga-Gov - (Gov-Cloud)
Giga - School
Cloud
Analogy: Google Map - Wayze
Agile Networks
Telecom Traffic Analytics
Autonomous Networks
Microservices
v-CPE
Virtual Appliances

Network Function Virtualization
Orchestration
Containers
26 GHz Trails

[WRC19] – 2 years away. Countries are preparing policies, regulations and infrastructure investment models.

28 GHz Trails

Cloud Native

5G is a Platform – not Spectrum based network.

26 & 28 GHz Trails
Changing Business Models

Multi Tenant

Cloud Native
Cloud Native
Open Source

Latency 1 ms

Cloud Infrastructure
Automated Container Management

Transport Agnostic

New RAT releases 15 - 17

Self Organizing

Web Scale Tech

Machine Learning
Scalable Virtual Machines
Microwave

Optic Fibre

Why What How?
To REGULATE
1st, 2nd, 3rd & 4th Generation Tech

Voice & Data

Cloud, IoT, A.I., Video & Drones

Why What How?
To ENABLE 5G
Dev-Ops
The changing face of the **Datacenter**

Cluster Manager / Orchestration Engine

- Application
- Cluster 1
- Cluster 2
- Cluster 3
- Cluster 4

**Virtual Machine**

**Physical Infrastructure**

**Transport Layer**
SDN
Software driving future networks

Open-Flow
Open-Stack
Video is the future of Telecommunications

Video will drive future home connectivity

Video is the future of Internet
Self-Regulation Standards Enablers

Legislation
Policy
Regulation

[Image of network connections and standards logos]
General Data Protection Regulation (GDPR)

Effective date: May 2018

Who must be aware?

- Contact Centre and Businesses
- Processing Organizations
- Data Centre and Carriers
- Internet Companies
- Application and Search
- Online Advertising
Total Quality Management

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Thank You

**Minister** Dr S. Cwele

Ministers from SADC

Members of Parliament

**SALGA CEO** – Xolile George

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