



# FTTX Council Africa

Creating NEXT GENERATION NETWORK  
Autonomous Self Healing & Learning Networks

Cape Town 2017



# SA-Connect

High Speed Intercity Network With  
Metro & Access  
IoT – Ready





# 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





## IoT deployment

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







**Kilobit/Sec**  
1980-1990

**Megabit/Sec**  
2000 – 2020

**Gigabit/Sec** 2022

**Terabit/Sec** – 2030



Virtual Appliances



Container

Micro Services

VM

Data Center to Data Center

Connectivity

Cloud Platform

Application Layer



Cloud

Analogy: Google Map- Wayze

Agile Networks

Telecom Traffic Analytics

Autonomous Networks





Network Function Virtualization  
Orchestration  
Containers

Micro-services  
v-CPE  
Virtual Appliances



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



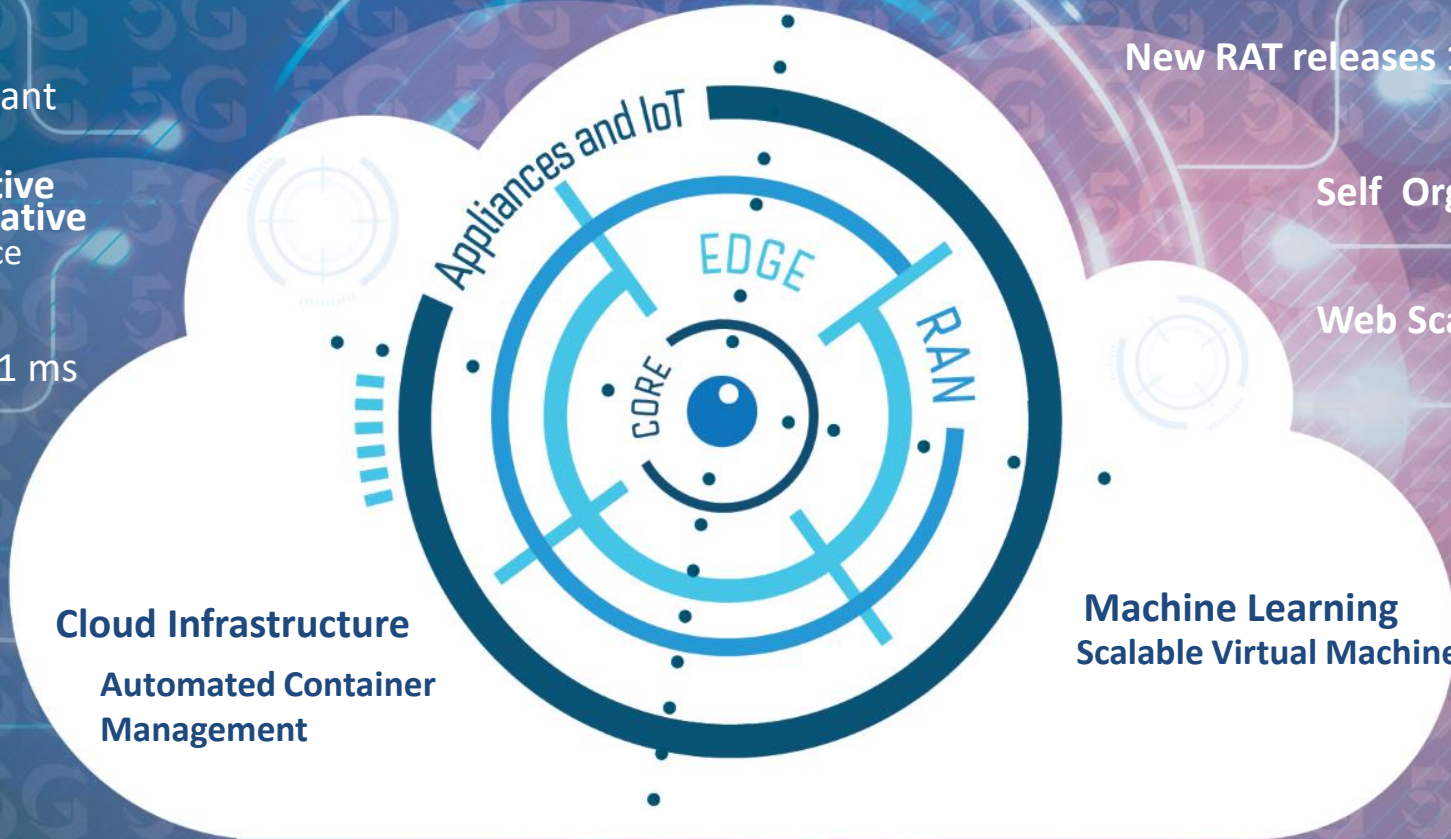
Changing Business Models

Multi Tenant

Cloud Native  
Cloud Native  
Open Source

Latency 1 ms

Cloud Infrastructure  
Automated Container  
Management



Transport Agnostic

New RAT releases 15 - 17

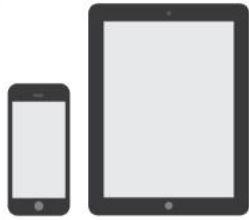
Self Organizing

Web Scale Tech

Machine Learning  
Scalable Virtual Machines



Microwave



WHY?  
WHAT?  
HOW?



To REGULATE  
1st, 2nd, 3rd & 4th  
Generation Tech

Voice & Data

Optic Fibre



WHY?  
WHAT?  
HOW?  
To ENABLE

5G



Cloud, IoT, A.I, Video & Drones

# Dev-Ops



**GitHub**



# The changing face of the **Datacenter**

## Cluster Manager / Orchestration Engine

**Application**

Cluster 3

Cluster 4

**Application**

Cluster 1

Cluster 2

**Application**

**Virtual Machine**

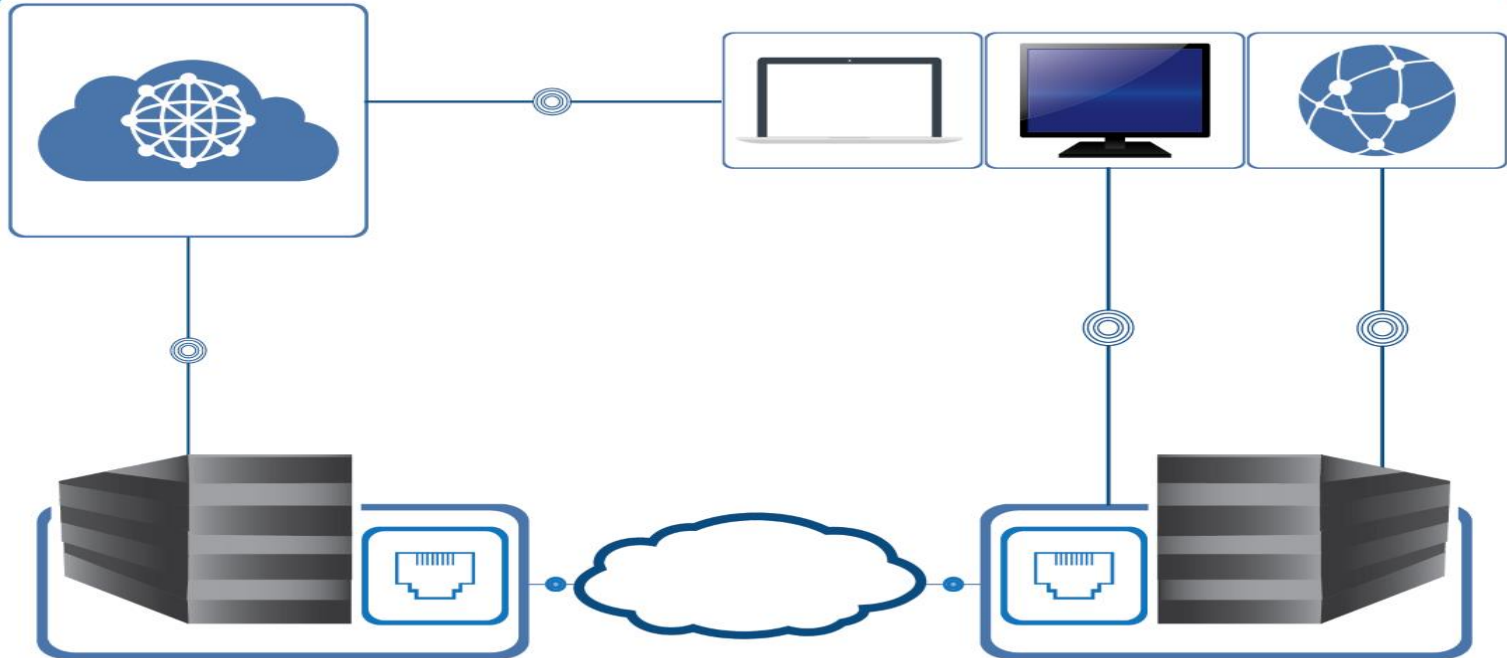
**Physical Infrastructure**

**Transport Layer**



Open-Flow  
Open-Stack

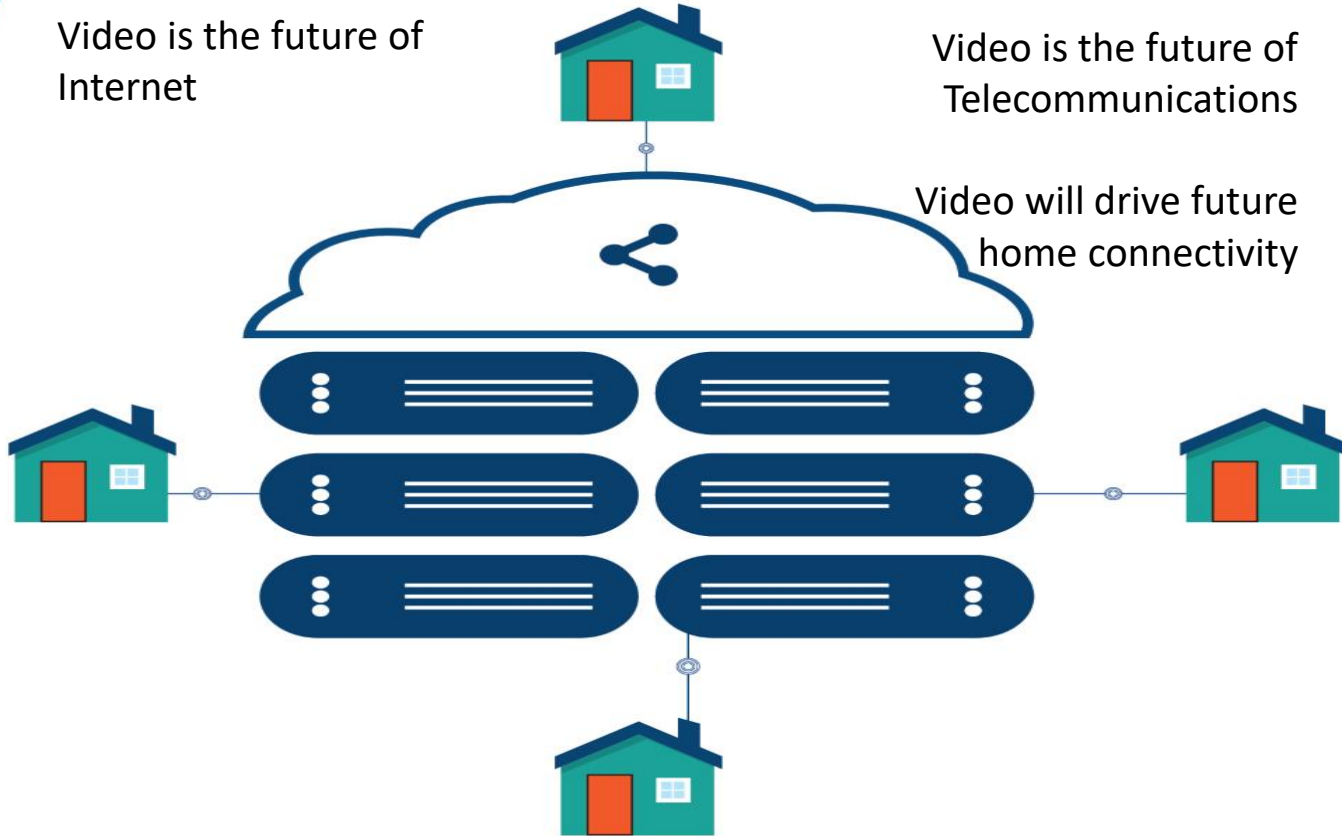
SDN  
Software driving future networks



Video is the future of Internet

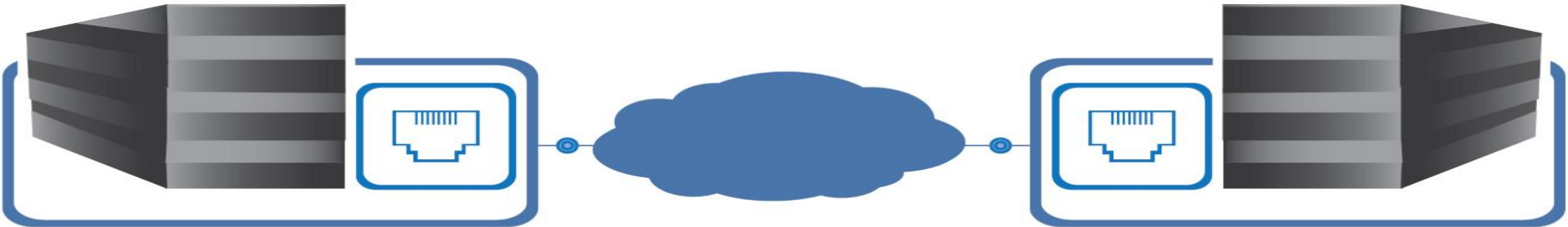
Video is the future of Telecommunications

Video will drive future home connectivity



Legislation  
Policy  
Regulation

Self-Regulation  
Standards  
Enablers







# General Data Protection Regulation GDPR

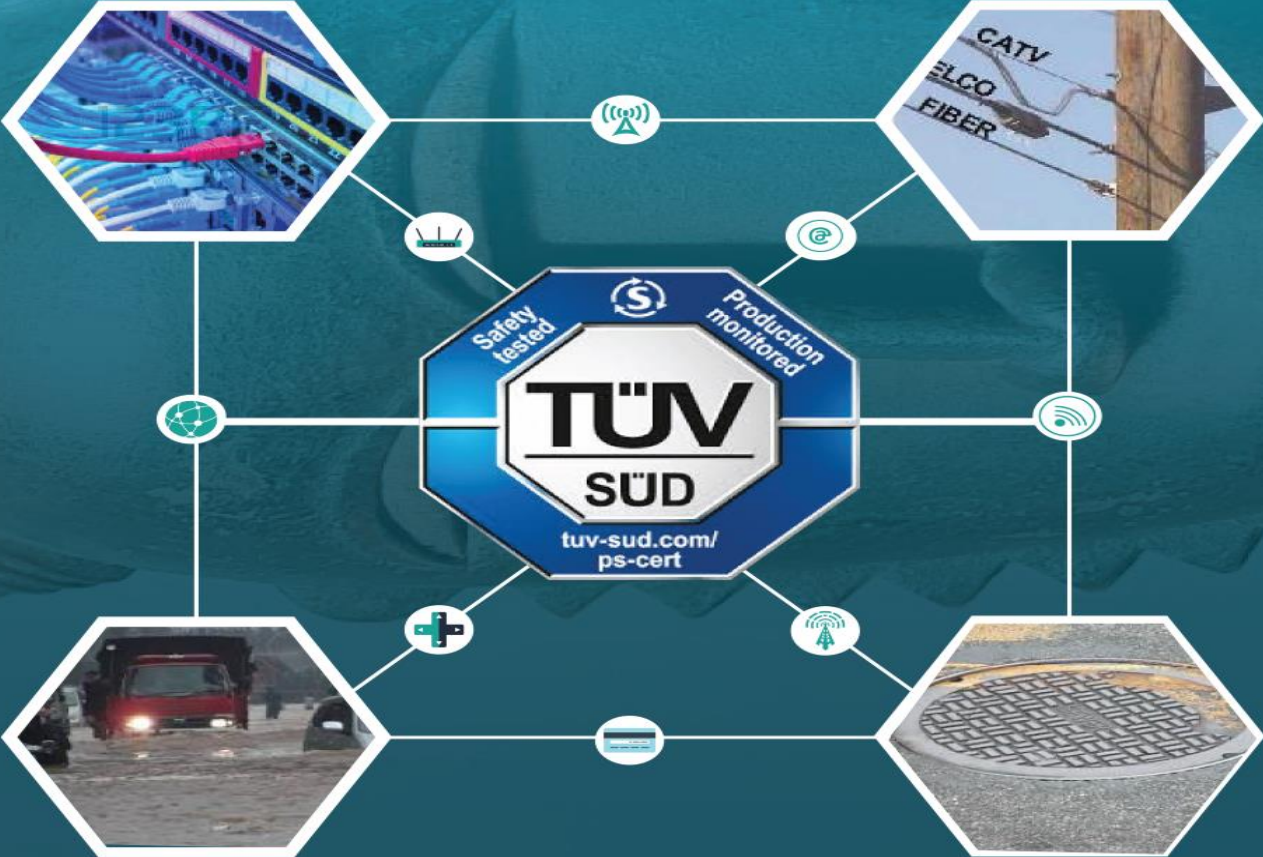


Effective date: May 2018

# Who must be aware?

Contact Centre and Businesses  
Processing Organizations  
Data Centre and Carriers  
Internet Companies  
Application and Search  
Online Advertising

# Total Quality Management



# Thank You

**Minister** Dr S. Cwele

Ministers from SADC

Members of Parliament

**SALGA CEO** – Xolile George

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