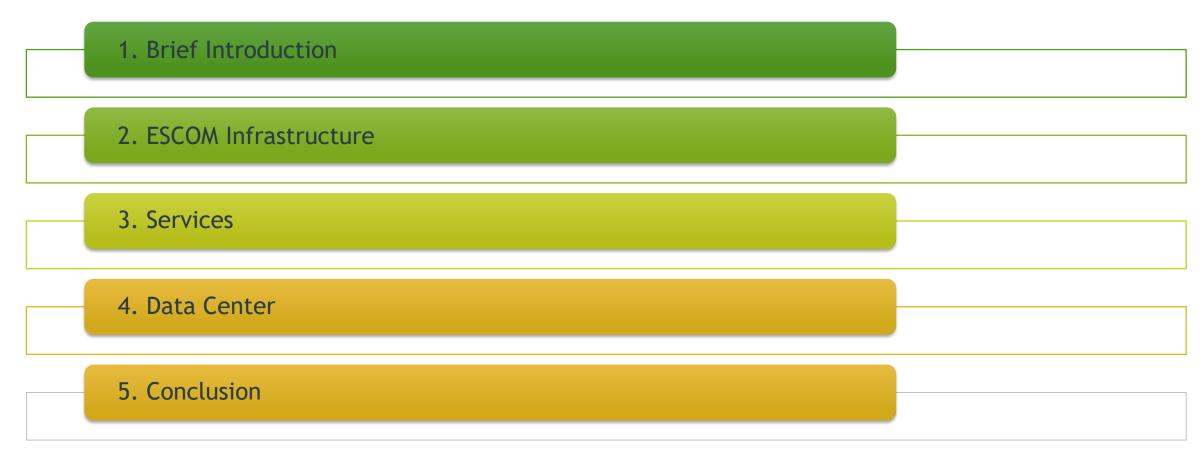




## OPTIC FIBRE COMMUNICATIONS BUSINESS

07<sup>th</sup> October 2025

### **Presentation Outline**

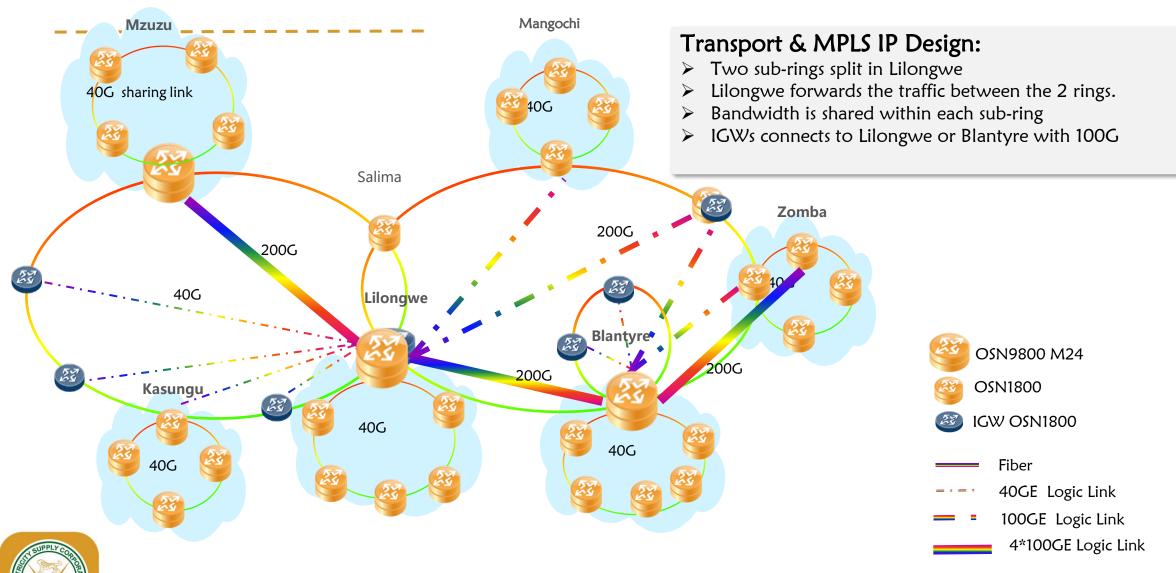




## 1.0. Brief Introduction

- > A Telecommunication Arm in ESCOM housing both passive and active Telecommunication infrastructure.
- ESCOM has had fibre on its network since 2004 for both earthing of its electricity network poles and Supervisory Control and Data Acquisition (SCADA) as well as tele-protection usage.
- In 2009, A resolution was passed to commercialize the spare fibre strands, as such a department was established to manage the commercial side of optic fibre.
- ➤ Hooked on electricity poles, further investment happened in 2017 and 2021 where coverage was extended to all districts in Malawi including Likoma Island.
- > Both the Transport system and the MPLS backbone operate in 2 big rings and thus offering resilience.
- ➤ Enabled with 3 licenses namely: Carrier, international and ISP licenses, ESCOM has been offering Infrastructure as a service to MNOs and ISPs until 2024.

## 2.0. ESCOM Infrastructure



# 2.1. Backbone (DWDM & MPLS)





### 2.2. Metro

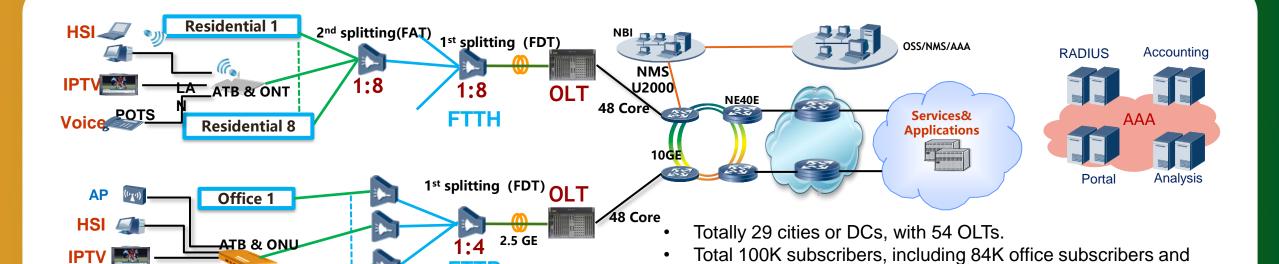
- > Available in Blantyre, Lilongwe, Mzuzu, Zomba, Mangochi, Salima, Dedza, Kasungu, Karonga and Thyolo districts.
- Network in Blantyre, Lilongwe Mzuzu and Zomba is fully protected with a ring
- > Network is IP based with 200G bandwidth capacity
- > Active sites include:-
  - □ Blantyre 7 Sites
  - □ Lilongwe 6 sites
  - Mzuzu 3 sites
  - □ All other districts 1 site each



## 2.3. Access

- Available in Blantyre, Zomba, Lilongwe and Mzuzu cities with a capacity to connect 100,000 connections.
- The network is fully protected with a 40G ring expandable to 100G
- ► Available sites include:-
  - □ Blantyre 7 sites
  - ☐ Lilongwe 6 sites
  - Mzuzu 3 sites
  - □ Zomba 2 Sites





16K home subscribers.

ONU/ONT/Drop Cable will be installed by Client during retail.

**FTTB** 

FAT(Before building)

Office 4

City	Total User Qty.	OLT For high density Office	OLT For low density Office	OLT For Home	ONU-Terminal for Office (First Batch)	ONT-Terminal for Home (First Batch)	Fiber Cable (KM, ADSS)	Drop Cable (KM) (First Batch)
Lilongwe	25191	2	8	3	130	420	371	240
Blantyre	21914	2	6	3	100	420	331	180
Mzuzu	9012	2	0	1	60	200	126	100
Zomba	5940	1	0	1	60	200	84	100
Mangochi	2048	1	0	0	15		18	6
Kasungu	2048	1	0	0	15		18	6
Salima	2048	1	0	0	10		18	6
Karonga and other 22 towns	1024/512	0	22	0	210		198	88
Total ·	100096	10	36	8	600	1240	1193	726



**IP Phone** 

# 2.4.Infrastructure -Network Coverage

#### **➤** National Fibre Backbone Network

- > 7000 km
- > All districts including Likoma island
- ➤ 4\* International gateways

### ➤ Metropolitan and Access Network

- > All cities
- ➤ 10 major towns
- ➤ 100,000 possible broadband end connections

#### Data Centre

- Tier 3 Data Centre
- Cloud computing
- Video Conferencing System
- ➤ 12 Video Conferencing Units
- > 500 IP phones





# 3.0. Business Offering

#### Carrier of carriers

- Backbone Capacity
- Metro Capacity
- > Metro dark fibre
- > VPN

#### Data Centre:

- Cloud services
- Physical Data Centre Hosting
- Virtualization services
- Connectivity and cross connecting

#### Teleconference services

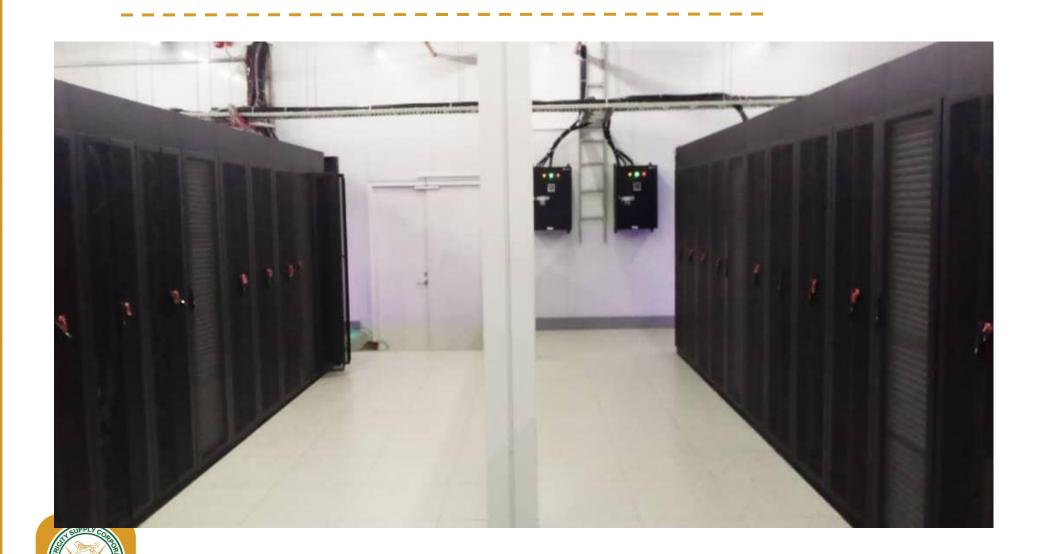
Video Conferencing in the major cities

#### Internet Services

- Wholesale Internet (IPT)
- Dedicated literal internet
- Shared Internet (FTTx)



## 4.0. ESCOM Data Centre



## 4.1. ESCOM Data Centre

A 3 Tier Data Centre with 2 Modules of 21 Racks – 42U, 6kw/rack With Memory of 20.209TB CPU of 6964 Cores, Storage of 595TB and uptime of 99.98%

### The facility offer the following services

- ▶1.1. Cloud Computing: Providing access to computing resources such as virtual machines, storage and applications delivered over the internet.
- ▶1.2. Physical Data Centre Hosting: Renting physical space, Rack Hosting and Bare Metal Server Hosting.
- ▶1.3. Virtualization services: Enables the creation of virtual servers, storage and networks to optimize resource utilization. Key Features include server virtualization, network virtualization, storage virtualization.

## 5.0. Conclusion

- > Our objective is to improve connectivity and meet the increasing demands of the digital landscape by offering services that are based on cutting-edge technology and robust infrastructure.
- > Committed to service delivery with uptime of 99.5% on connectivity and 99.97% on Data Centre services.
- > As OFC we are committed in ensuring that our clients experience minimal disruptions and that businesses can rely on our services for their operations.
- > By leveraging cutting-edge technology and robust infrastructure, we aim to enhance connectivity and support the growing demands of the digital landscape
- > Metro fibre network installed in 10 districts
- > Access Network installed in 4 major cities and will bring fibre to the business and home

