

INTRODUCTION TO NETWORK OPERATING CENTER

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WHAT IS TERNET

- It is a consortium

**“A consortium is an association of two or more individuals, companies, organizations or governments (or any combination of these entities) with the objective of participating in a common activity or pooling their resources for achieving a common goal.
By Wikipedia”**

WHAT IS TERNET

An extended group of people with similar interests or concerns who interact and remain in informal contact for mutual assistance or support

It is the network of people
Researchers
Academicians
Students

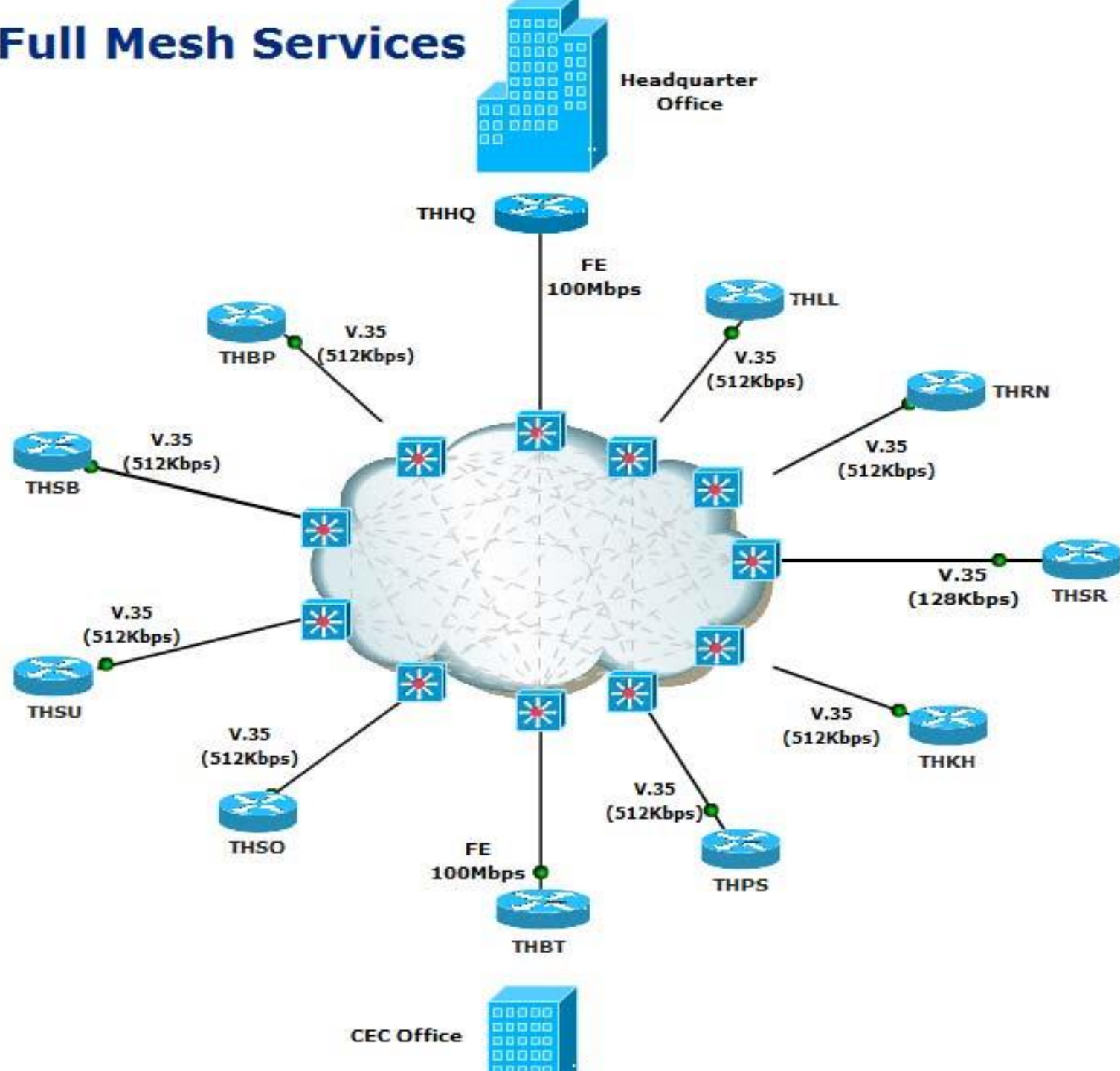


TERNET AS Infrastructure

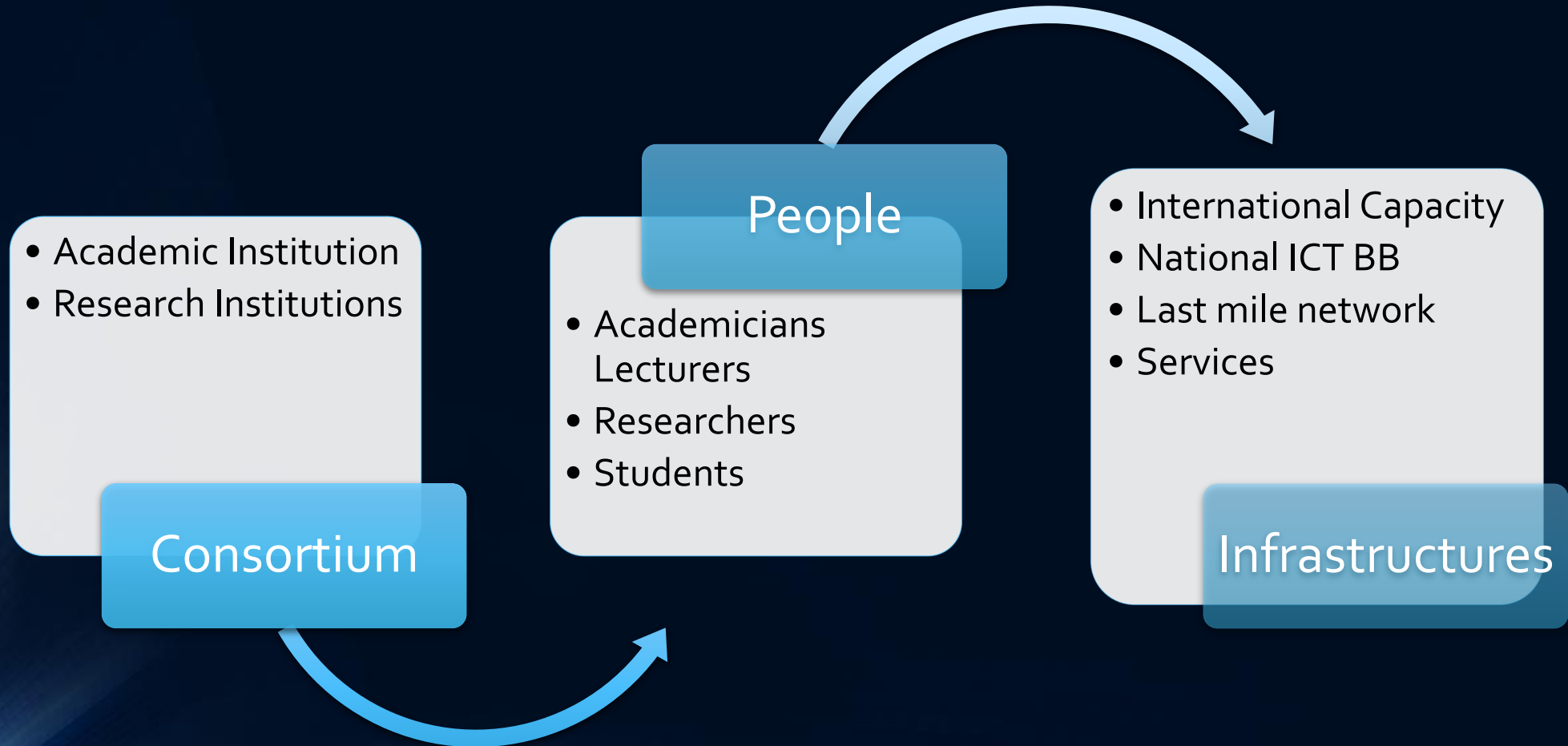
Is the Full mesh network
Infrastructure
Connected via National
ICT backbone

Connecting Research and
Academic Institutions

Full Mesh Services



WHO IS TERNET





WHY TERNET INTRODUCED

OBJECTIVE

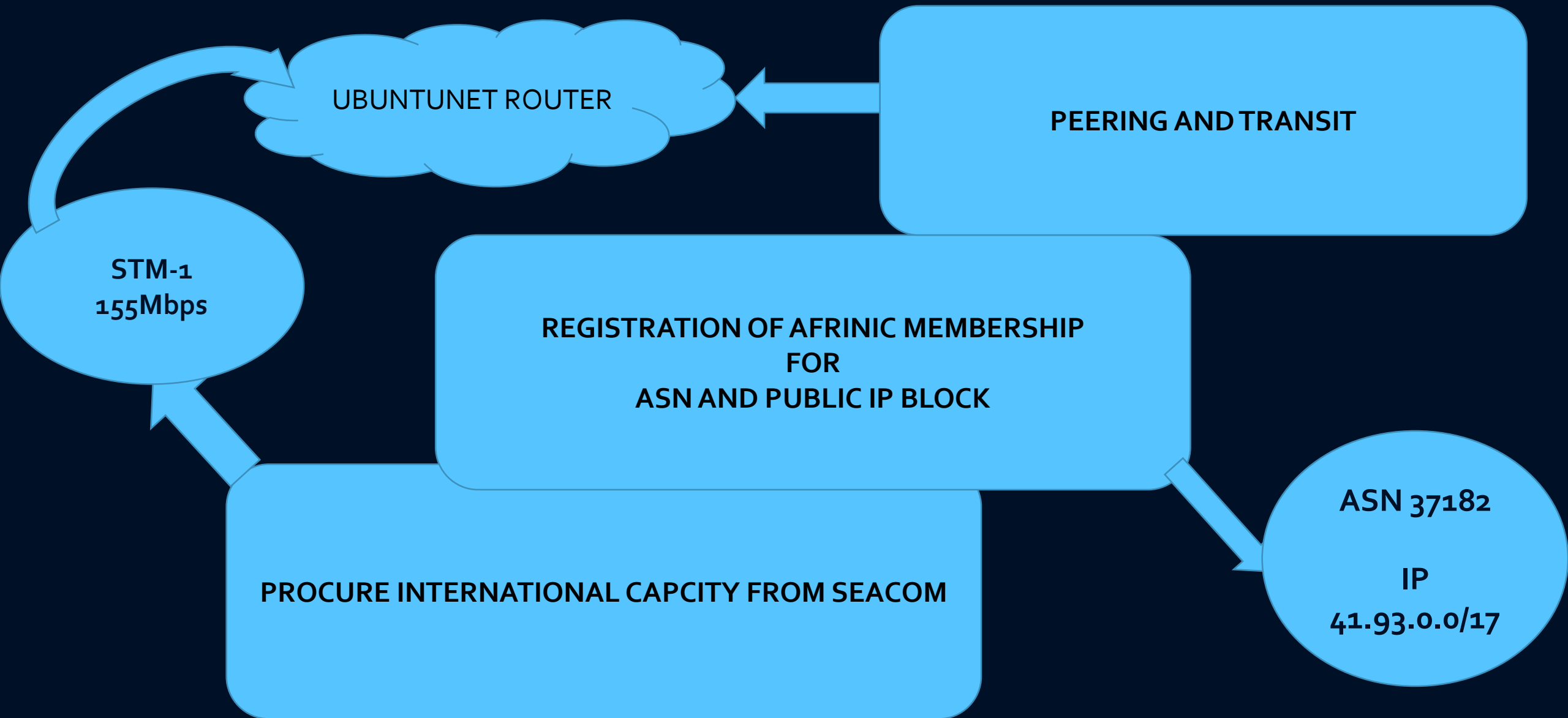
NETWORK

- To establish a sustainable and high capacity network infrastructure connecting educational and research institutions in Tanzania

SERVICE

- To support the establishment and sharing of teaching and learning resources among educational and research institutions in Tanzania

NETWORK GENERATION



STM-1
155Mbps

UBUNTUNET ROUTER

PEERING AND TRANSIT

REGISTRATION OF AFRINIC MEMBERSHIP
FOR
ASN AND PUBLIC IP BLOCK

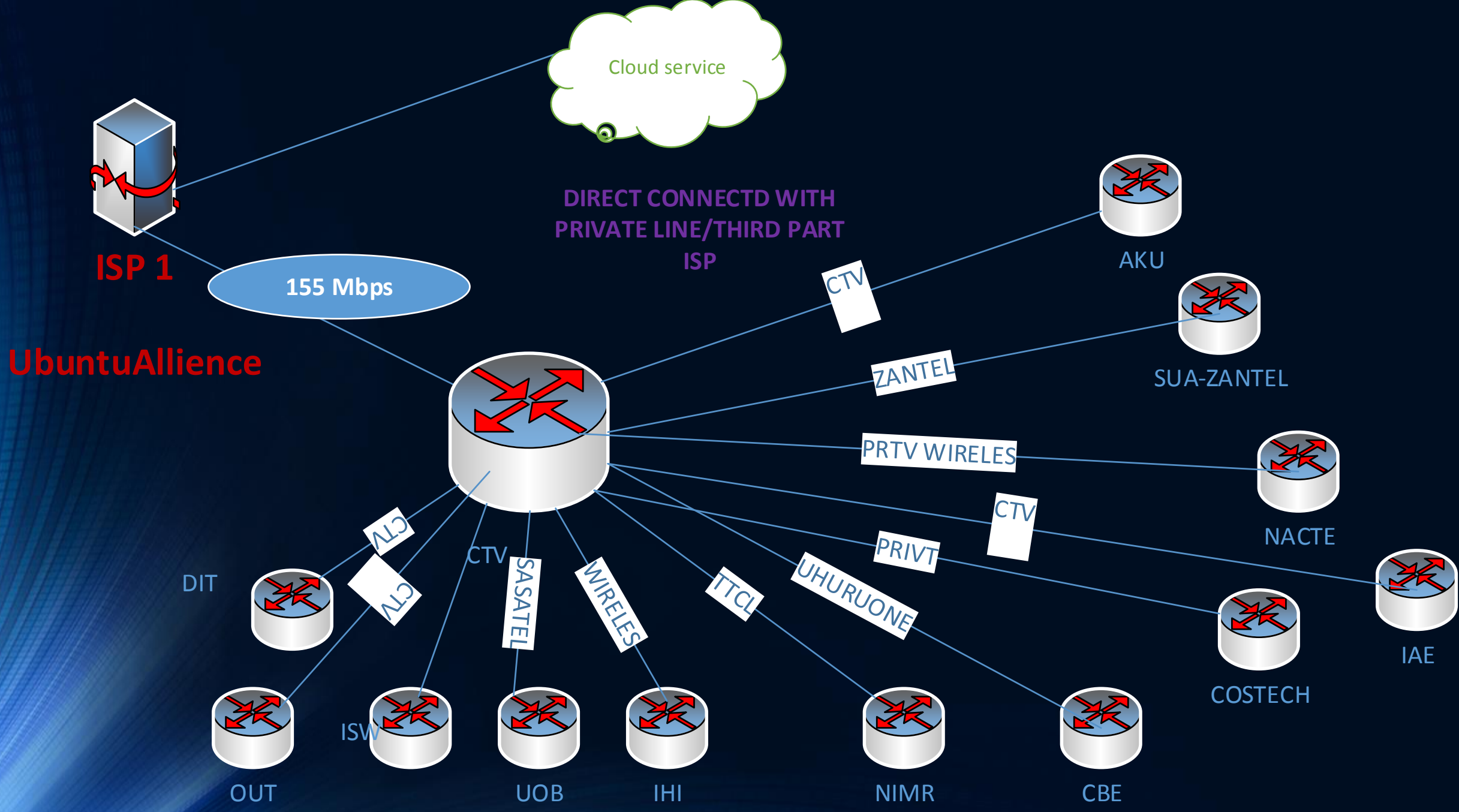
ASN 37182

IP
41.93.0.0/17

PROCURE INTERNATIONAL CAPACITY FROM SEACOM

NETWORK SERVICES CONNECTIVITY

- LAST MILE CONNECTION
- NATIONAL ICT BACKBONE
- POINT OF PRESENCE



DIRECT CONNECTD WITH
PRIVATE LINE/THIRD PART
ISP

155 Mbps

UbuntuAllience

ISP 1

Cloud service

AKU

SUA-ZANTEL

NACTE

IAE

COSTECH

CBE

NIMR

IHU

UOB

ISW

OUT

DIT

PRIVATE LASTMILE CONNECTIVITY

CHALLENGES:

- EXPENSIVE
- UNRELIABLE
- NOT SCALLABLE
- ONLY DAR ES SALAAM MEMBERS

HIGH EDUCATION RESEARCH INSTITUTIONS NETWORK

HERIN

A full meshed network infrastructure

A PROJECT FOR EXTENDING NETWORK AND SERVICE

MPLS NETWORK via National ICT backbone

Enable more Institutions to be connected

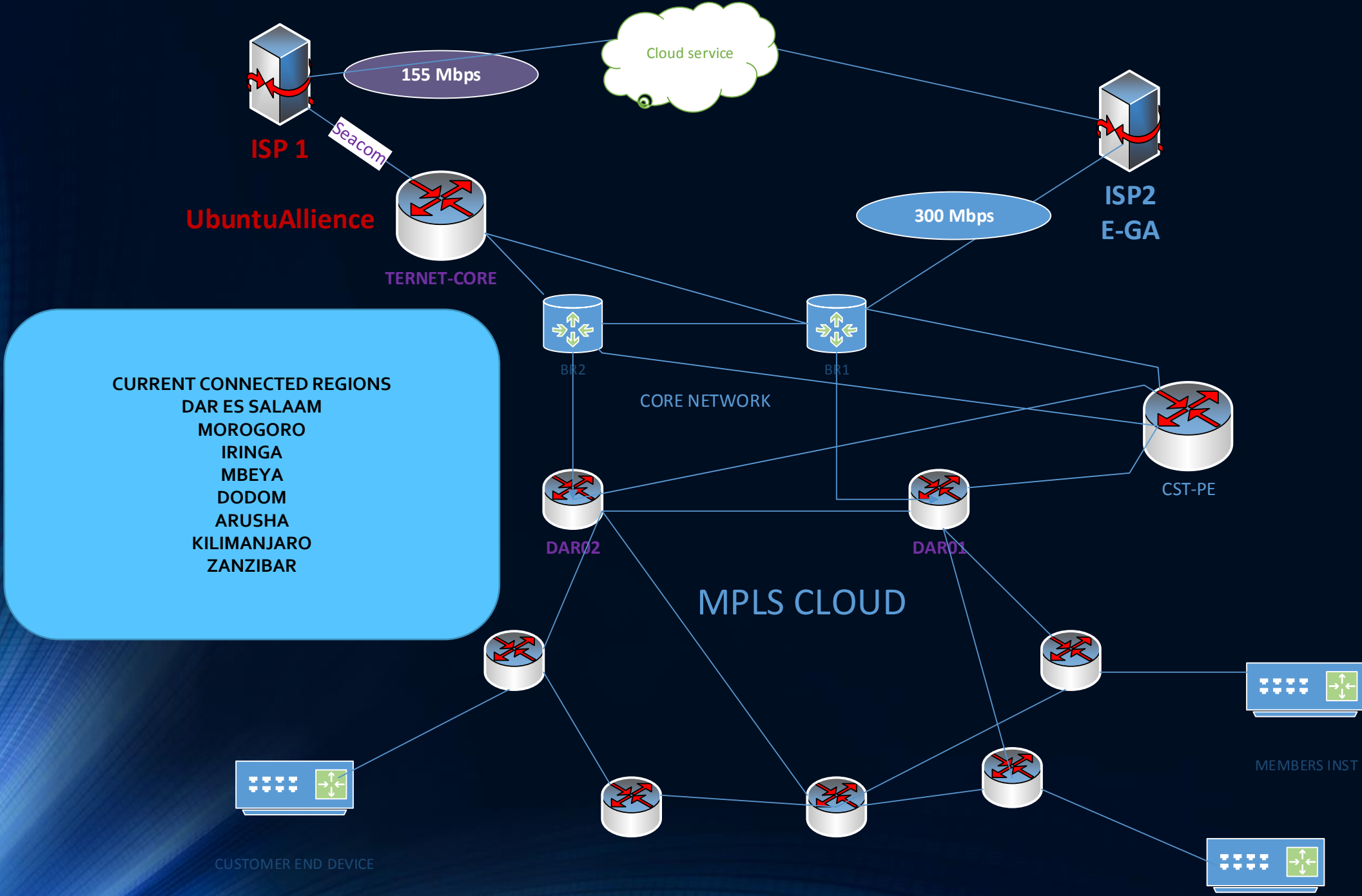
More service can be shared

Scalable Network Infrastructure

Multi-homed network

Video conference can be can be achieved

Distributed services



Value Added Service

- ✓ Edurom - Education Roaming,
- ✓ Super Computer and
- ✓ Institutional Repository
- ✓ Backups
- ✓ Colocation
- ✓ Cloud Services

A yellow smiley face with two dots for eyes and a curved line for a mouth. A light blue speech bubble is attached to the top of the smiley face. The background is dark blue with a radial gradient of light blue lines emanating from the left side.

**END of
session**

thanks