LEARN
Lanka Education And Research Network

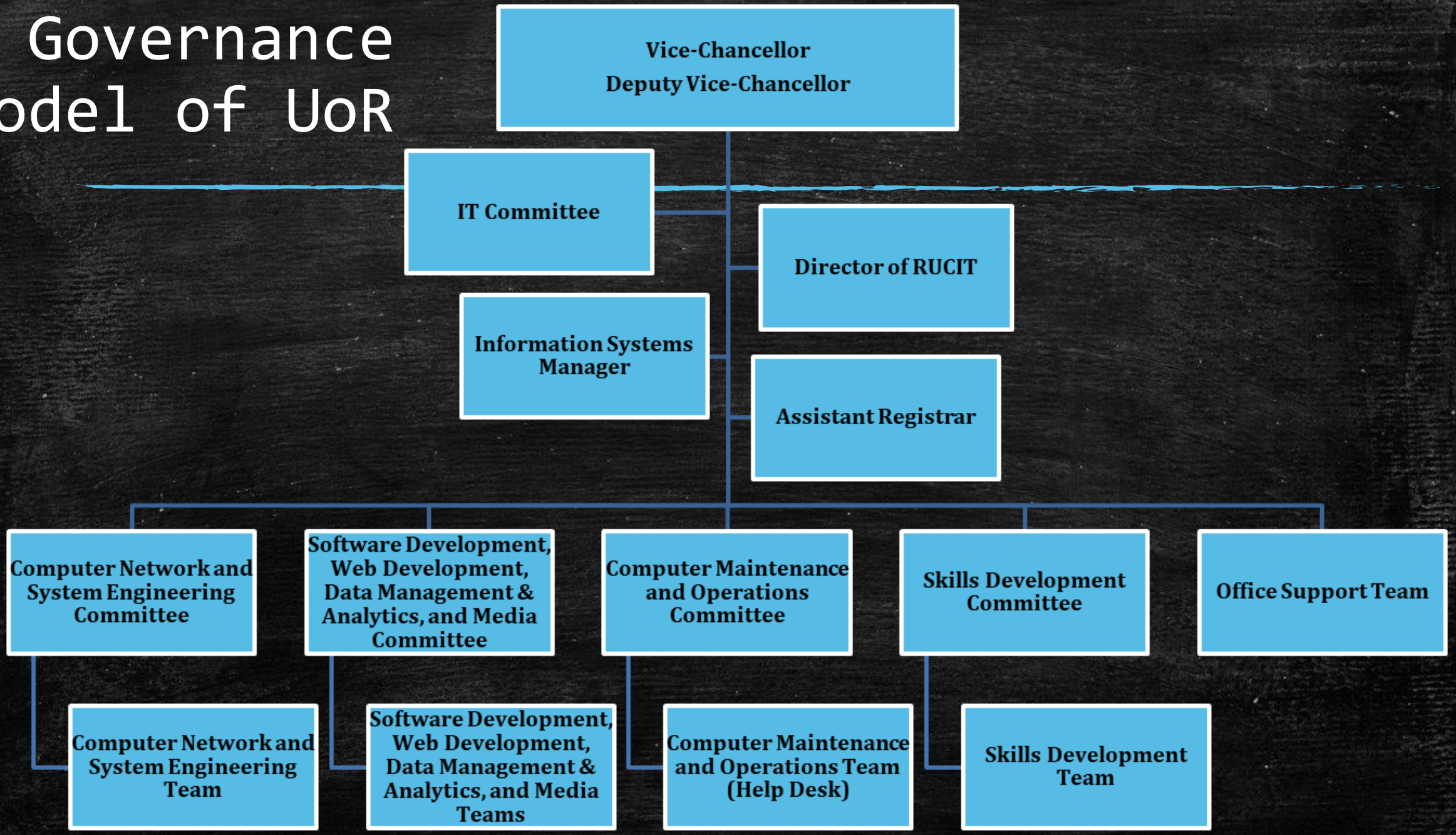
UoR Updates for the NOC Meeting of LEARN

By Harshana

Outline

- IT Governance Model of UoR
- Ruhuna University Center for Information Technology (RUCIT)
- Our Users
- UoR NOCs
- Current Network and Services of UoR
- Future Network and Services of UoR
- LEARN Connectivity Summary
- Capacity Building for IT Staff of UoR
- Way Forward
- Challenges

IT Governance Model of UoR



Ruhuna University Center for Information Technology (RUCIT)

- RUCIT was established in 2021 as the central IT entity of the university, tasked with overseeing all IT matters of UoR
- The initiative stemmed from the vision of the current VC of the University and has developed under his guidance
- RUCIT is led by a Director, with several teams, each headed by a leader under the direct supervision of the Director of RUCIT
- RUCIT offers a comprehensive range of services, including providing ICT-related infrastructural facilities for academic and administrative purposes
- As well as establishing and maintaining the university's information systems, including addressing relevant training needs

Our Users

The highest students intake in Sri Lanka

11,976 Internal Students

16,403 External Students

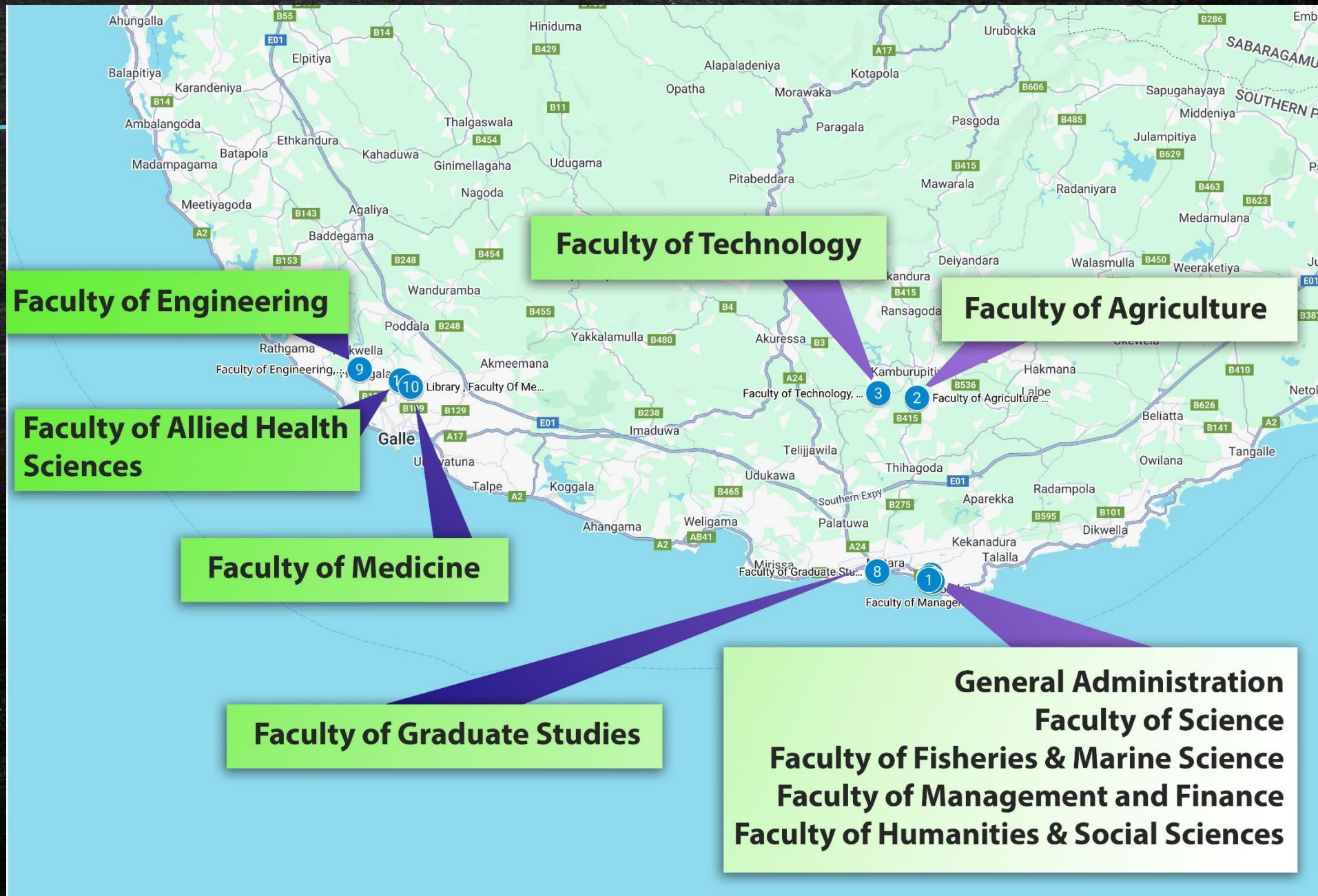
1,700 Staff

About 30,000 Users

10 Faculties

37 Degree Programmes

- Spread across different prominent locations in Southern Province



UoR NOCs

- 7 Locations
  - Connected to LEARN
    1. Main Campus (Wellamadama)
    2. Faculty of Agriculture (Mapalana)
    3. Faculty of Engineering (Hapugala)
    4. Faculty of Medicine (Karapitiya)
    5. Faculty of Technology (Kamburupitiya)
    6. Faculty of Allied Health Sciences (Karapitiya)
  - Not Connected to LEARN
    7. Faculty of Graduate Studies (Matara)

UoR NOCs

On-prem services

- MIS
- Library System (KOHA)
- LDAP
- Web Servers
- LMS (Moodle)
- Virtualization platforms (Citrix, hyper-V and VMware ESXi)
- Voice over IP (VoIP)
- Wi-Fi
- Radius

UoR NOCs

Cloud services

- Gmail (Google workspace)
- Microsoft Office 365
- Zoom
- Eduroam (Eduroam facility is available at Engineering, Technology and Agriculture faculties)

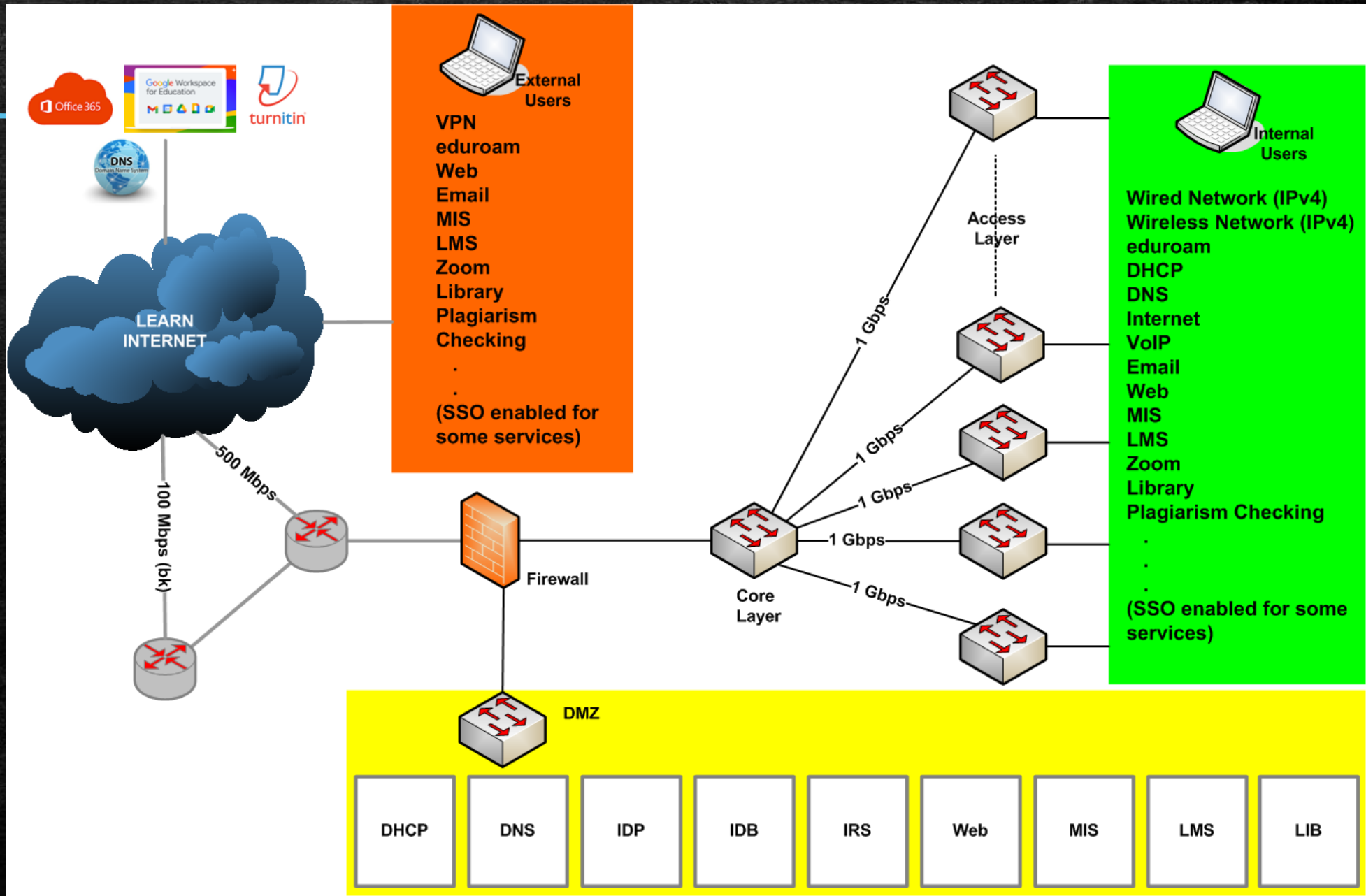
Main Campus (Wellamadama, Matara)

1

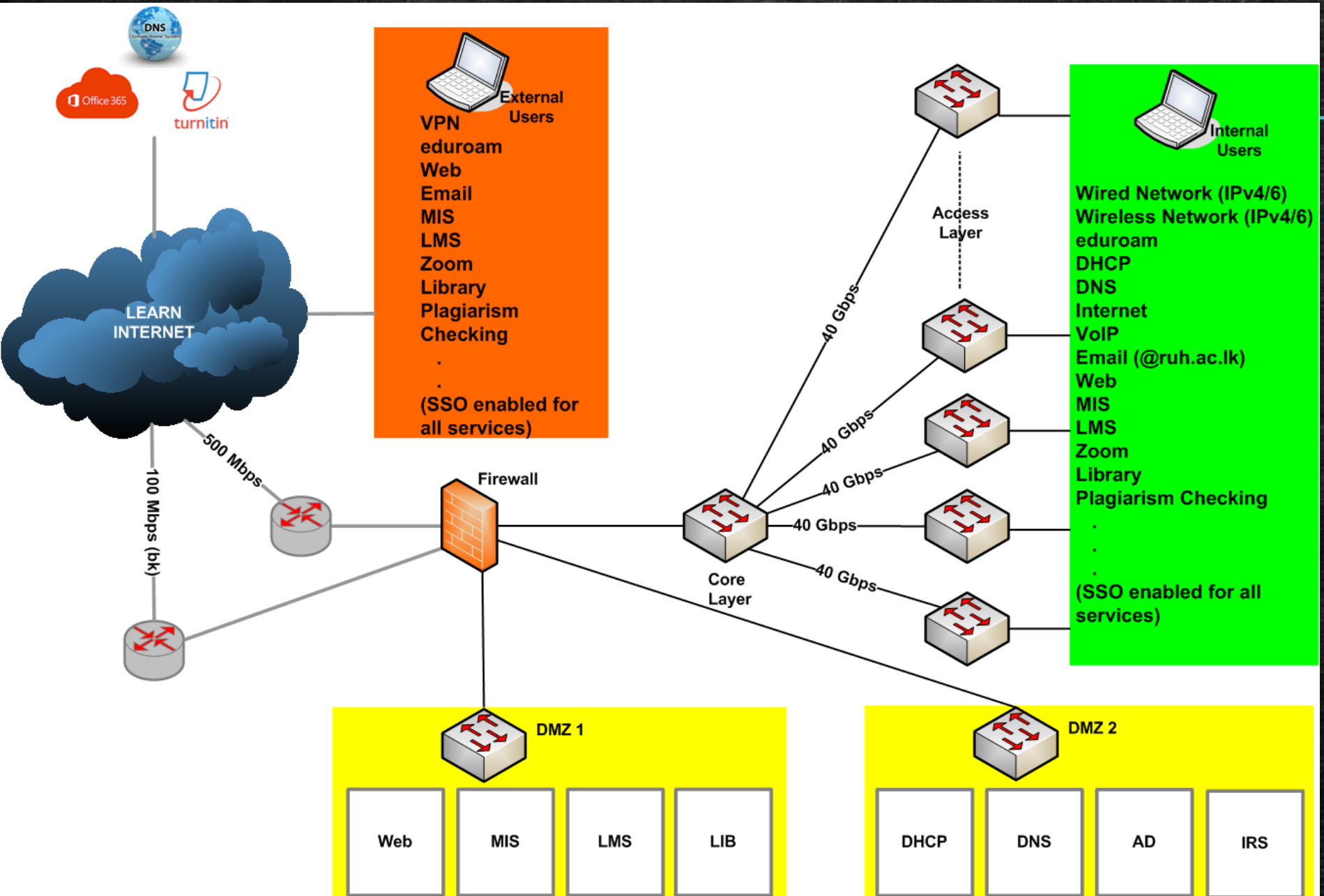
6000 Users

500 Mbps

100 Mbps Backup



Main Campus (Wellamadama)



Future Network & Services

1

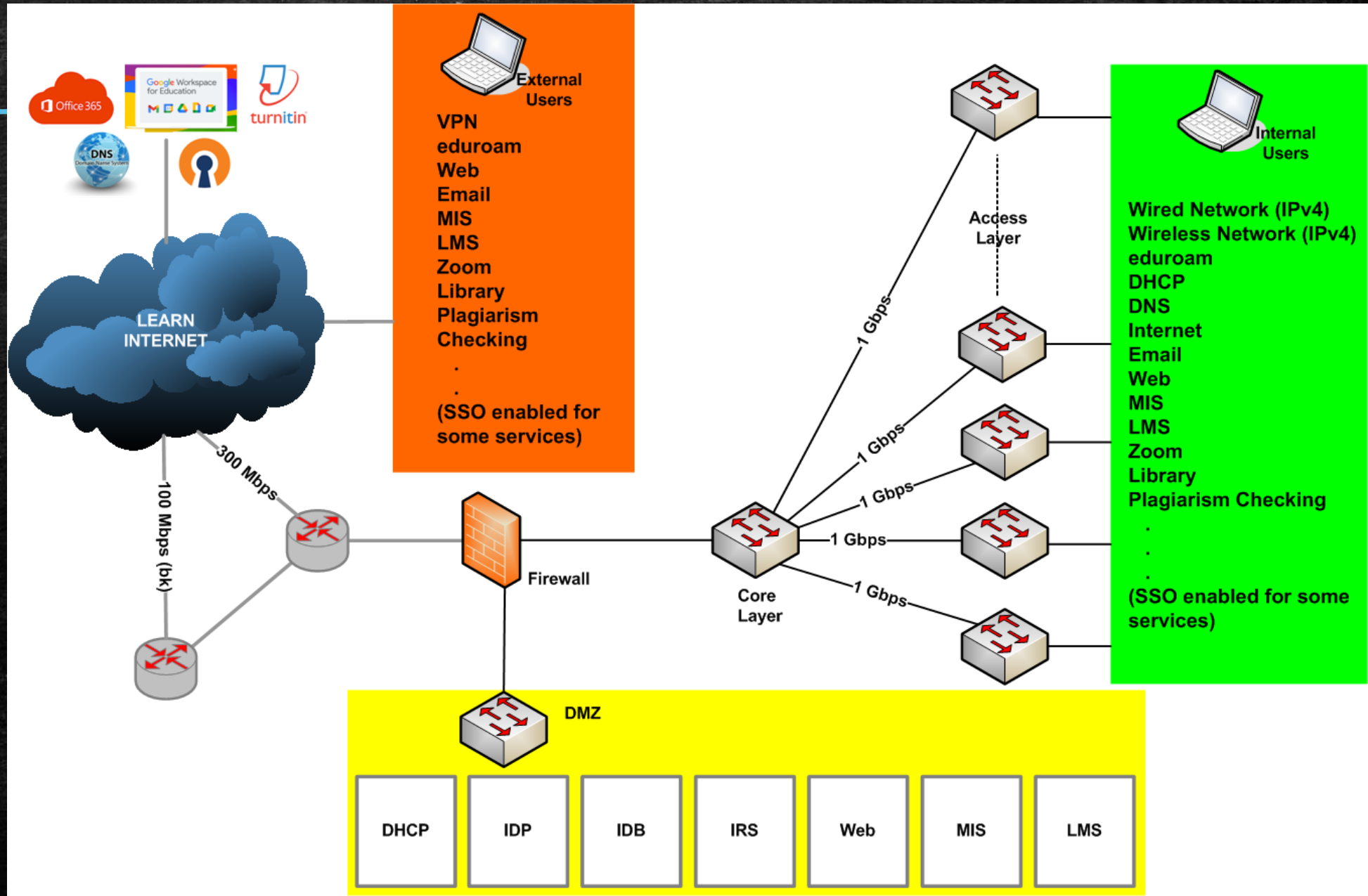
Faculty of Agriculture (Mapalana, Matara)

2

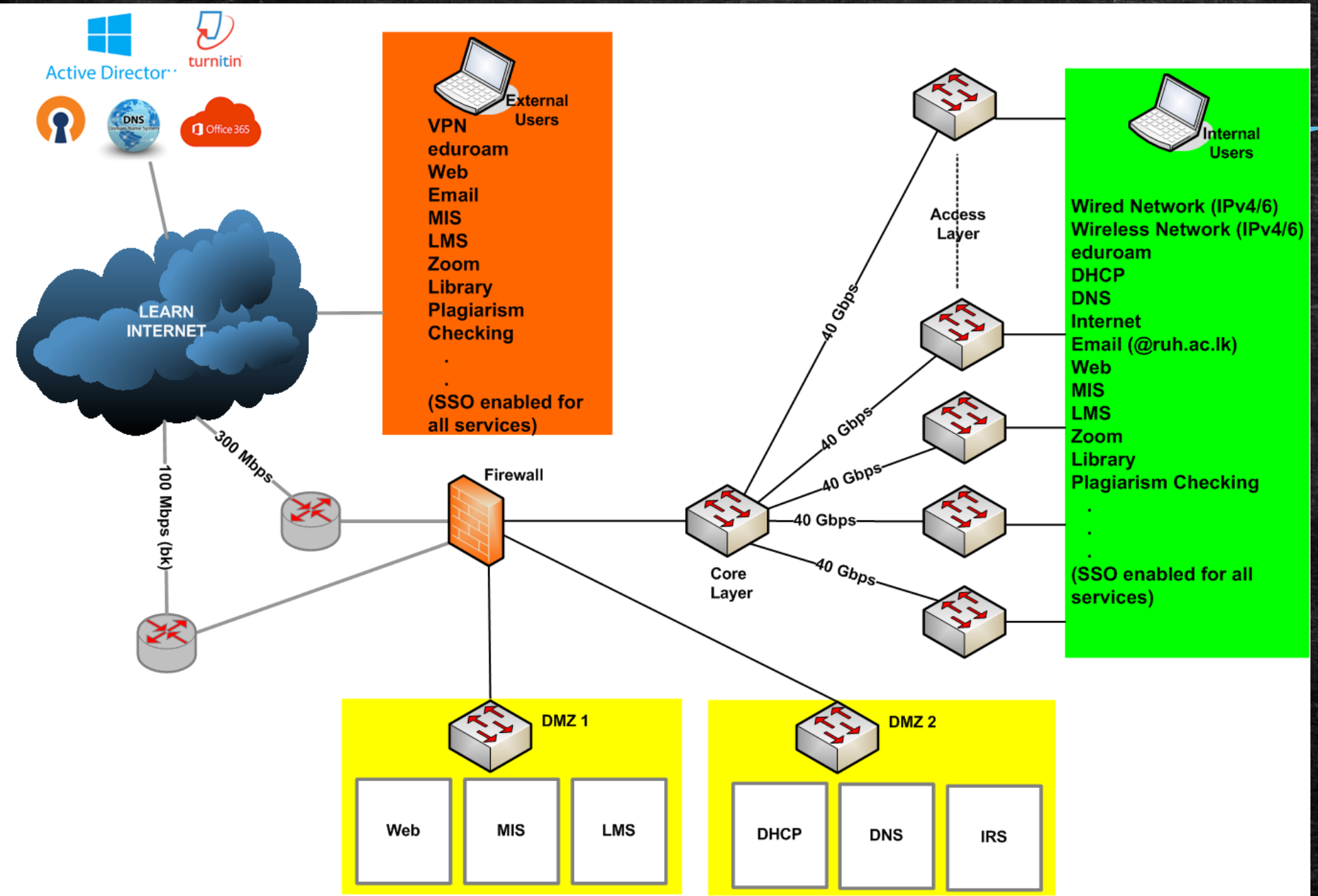
1200 Users

300 Mbps

100 Mbps Backup



Faculty of Agriculture (Mapalana)



Future Network & Services

2

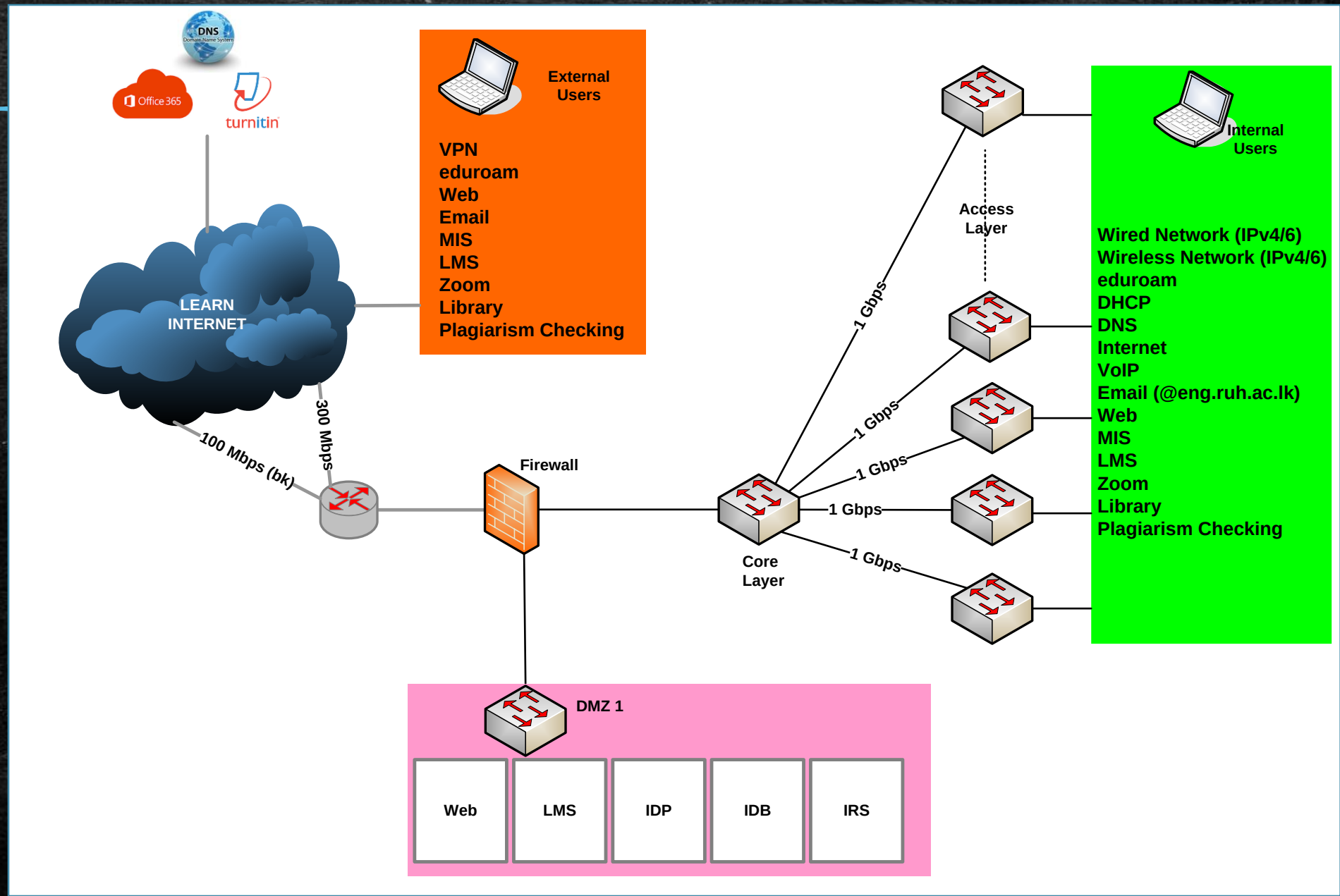
Faculty of Engineering (Hapugala, Galle)

3

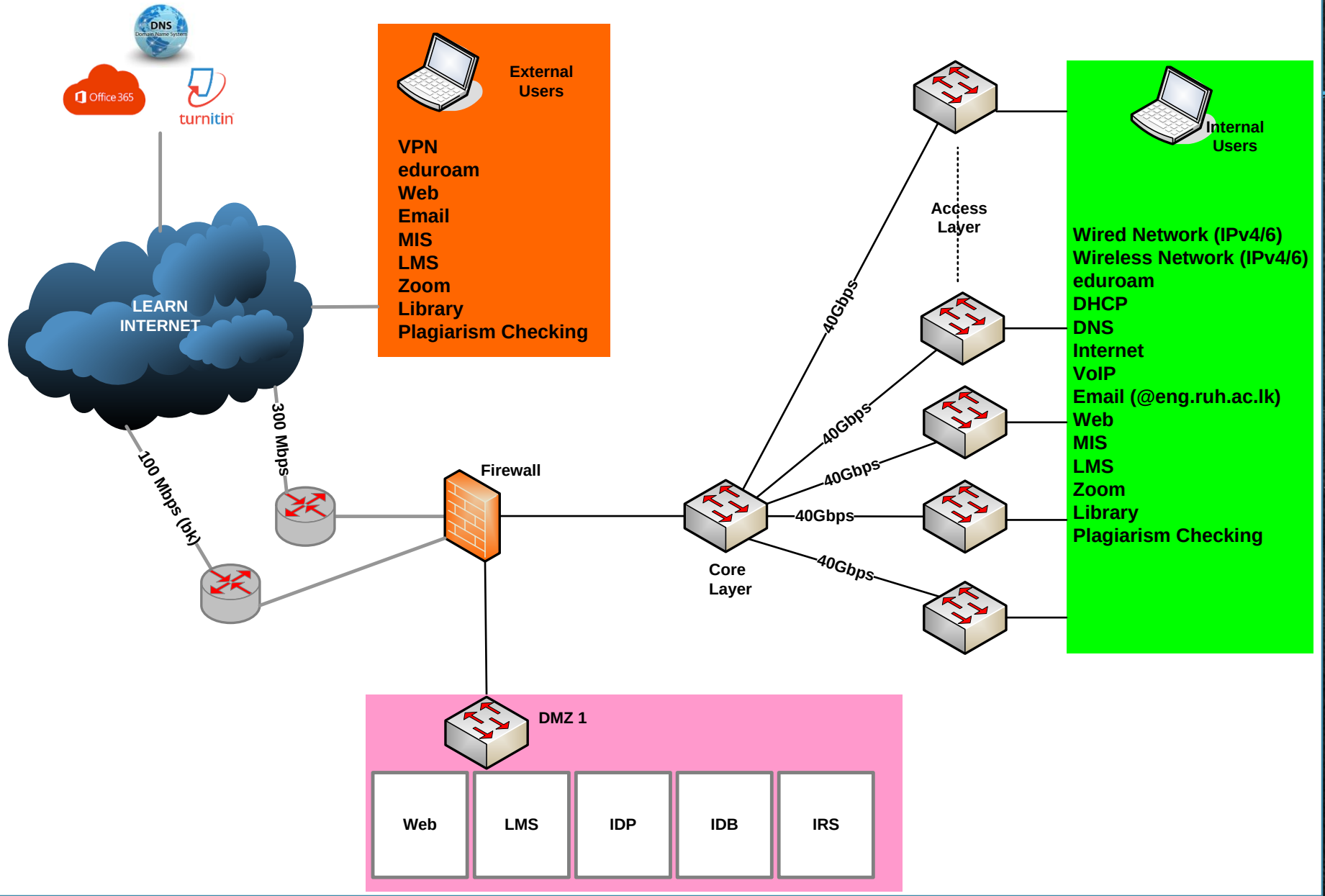
2000 Users

300 Mbps

100 Mbps Backup



Faculty of Engineering (Hapugala, Galle)



Future Network & Services

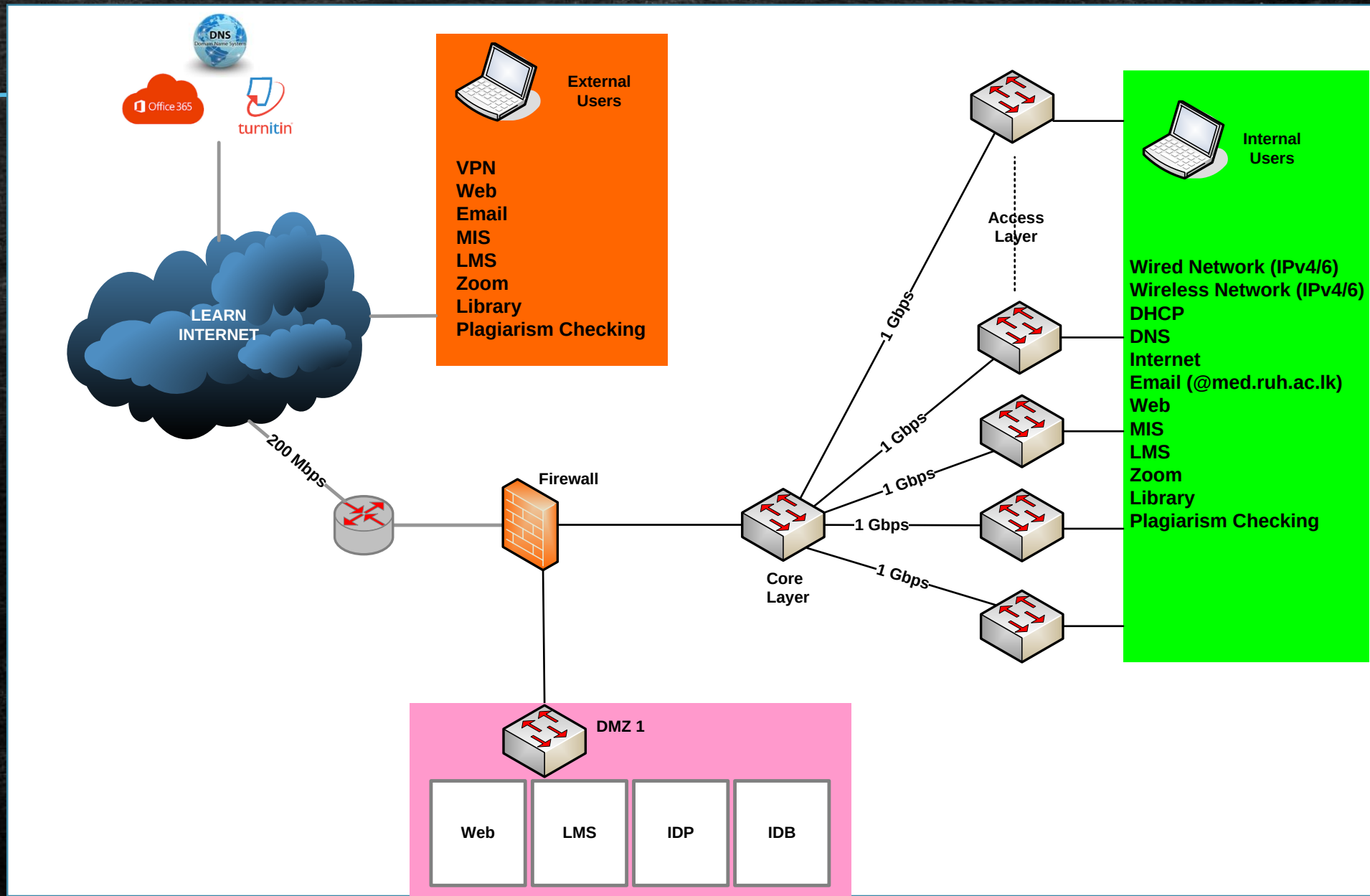
3

Faculty of Medicine (Karapitiya, Galle)

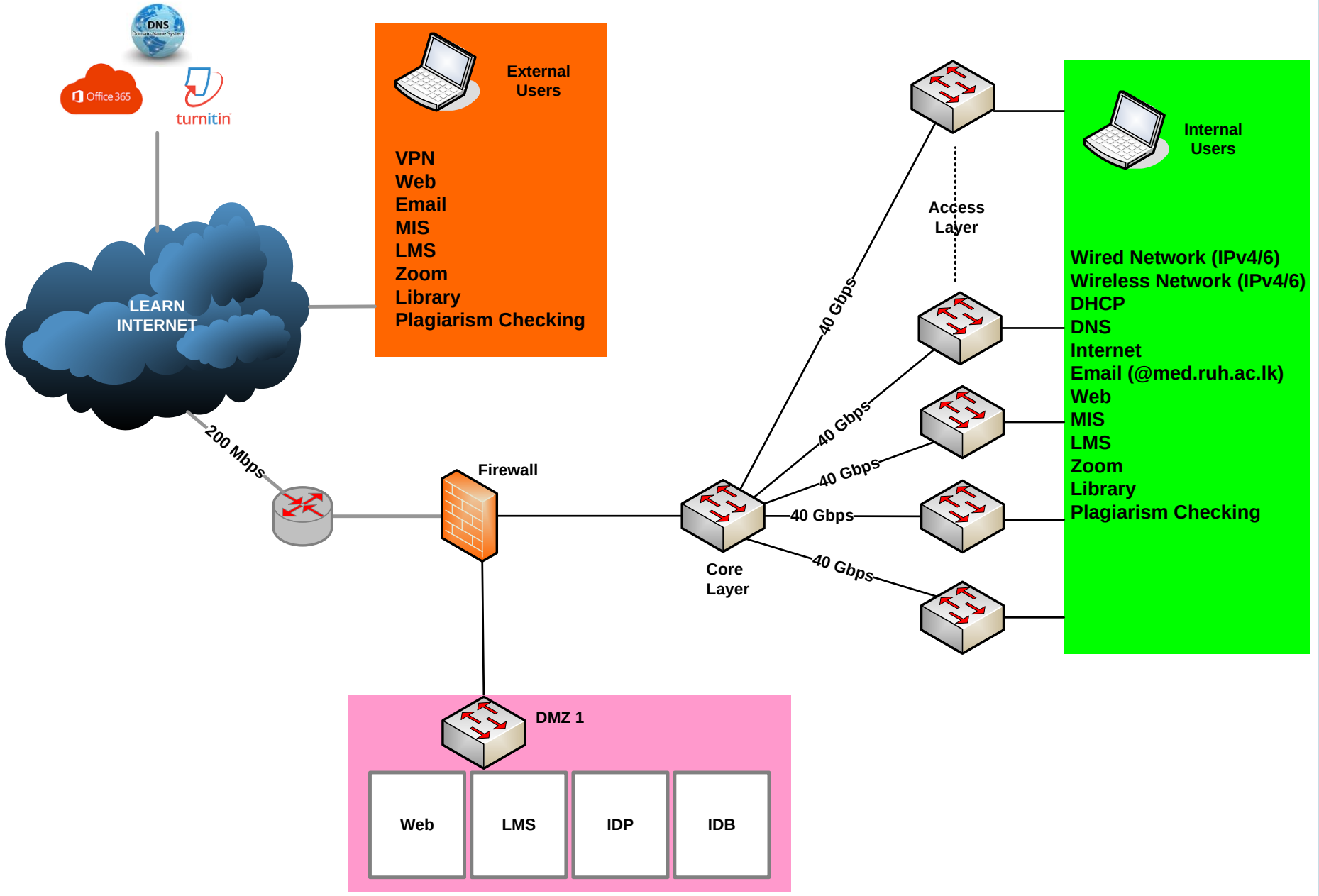
4

1000 Users

200 Mbps



Faculty of Medicine (Karapitiya, Galle)



Future Network & Services

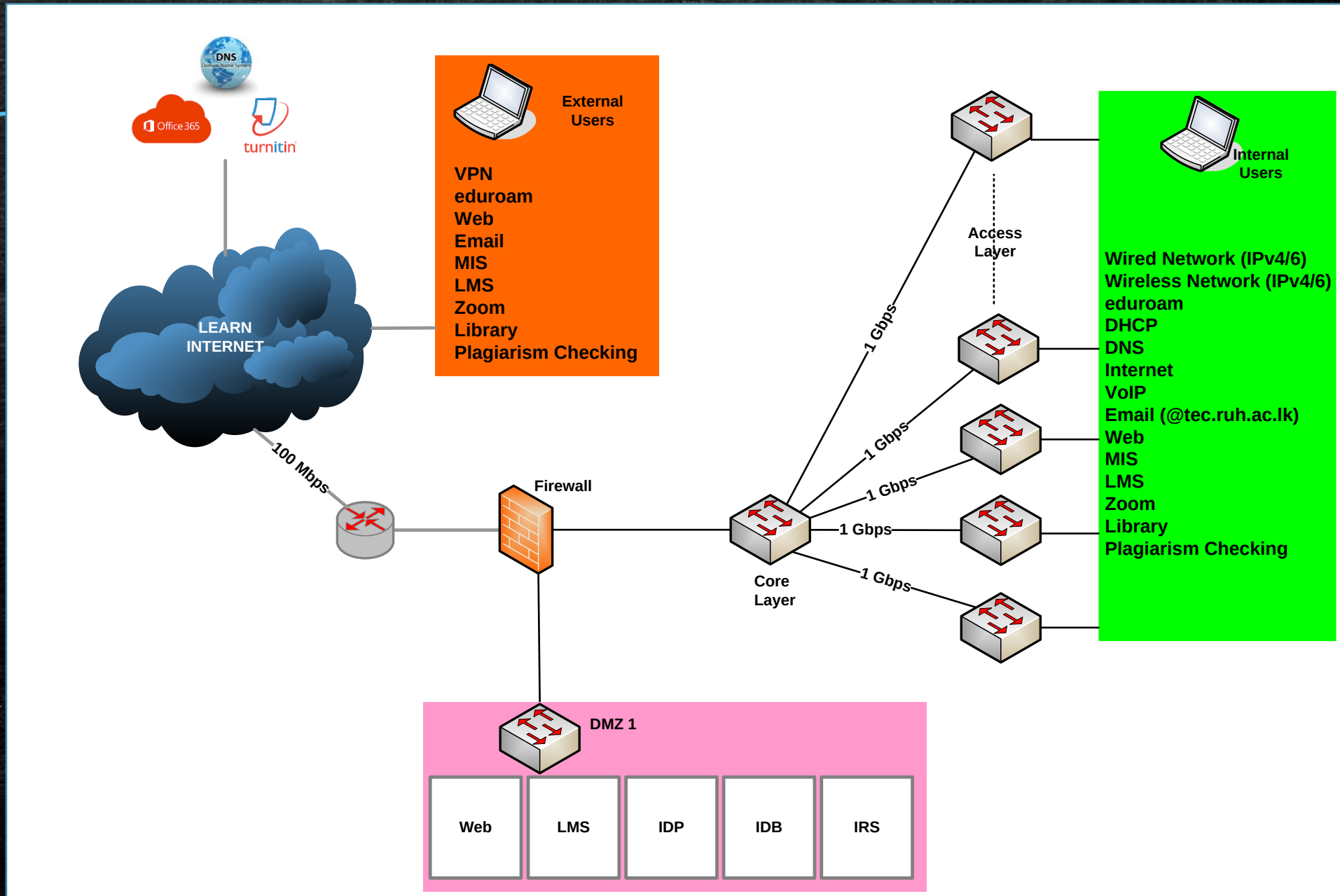
4

Faculty of Technology (Kamburupitiya, Matara)

5

1200 Users

100 Mbps



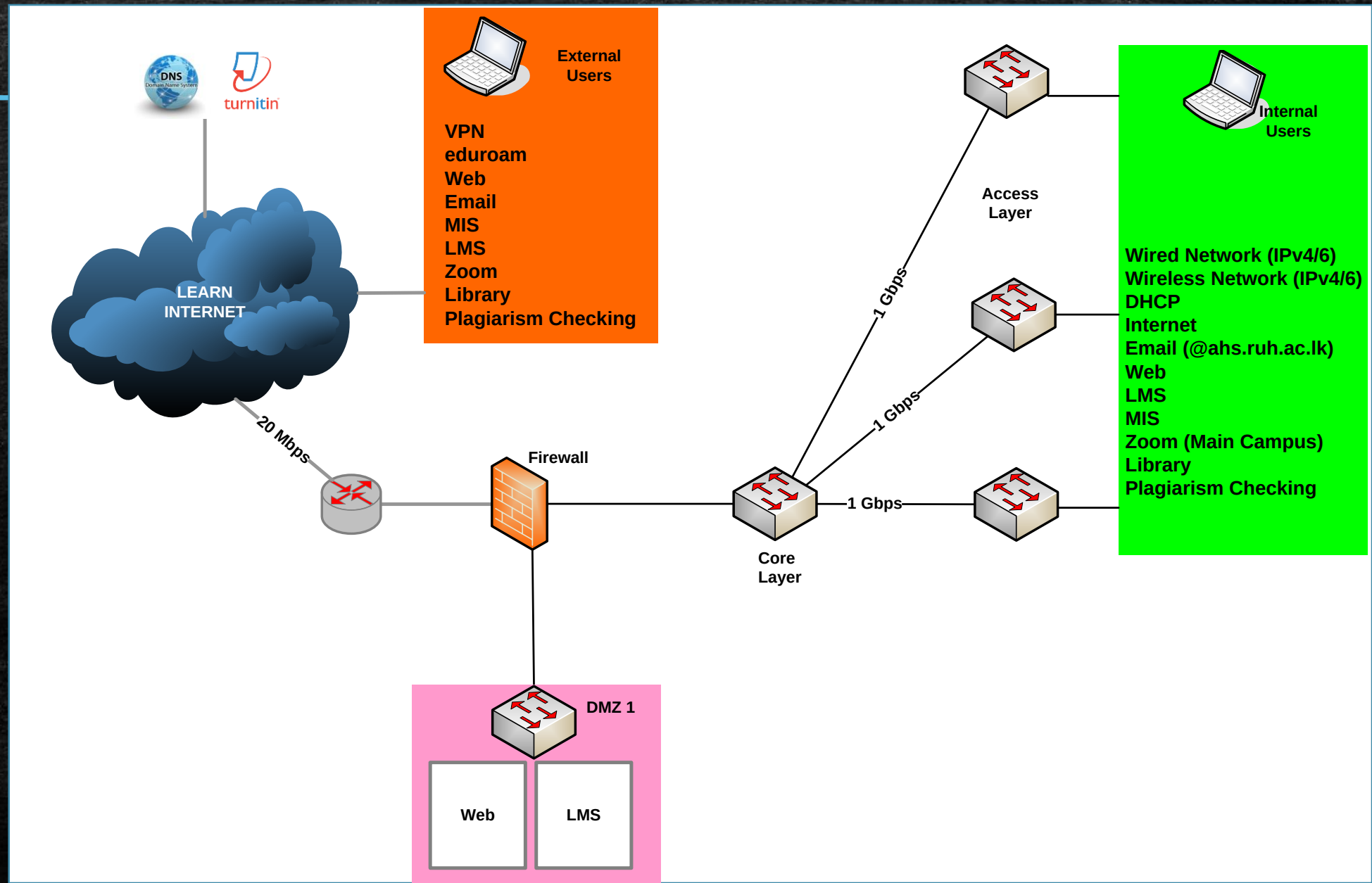
Faculty of Allied Health Sciences (Karapitiya, Galle)

6

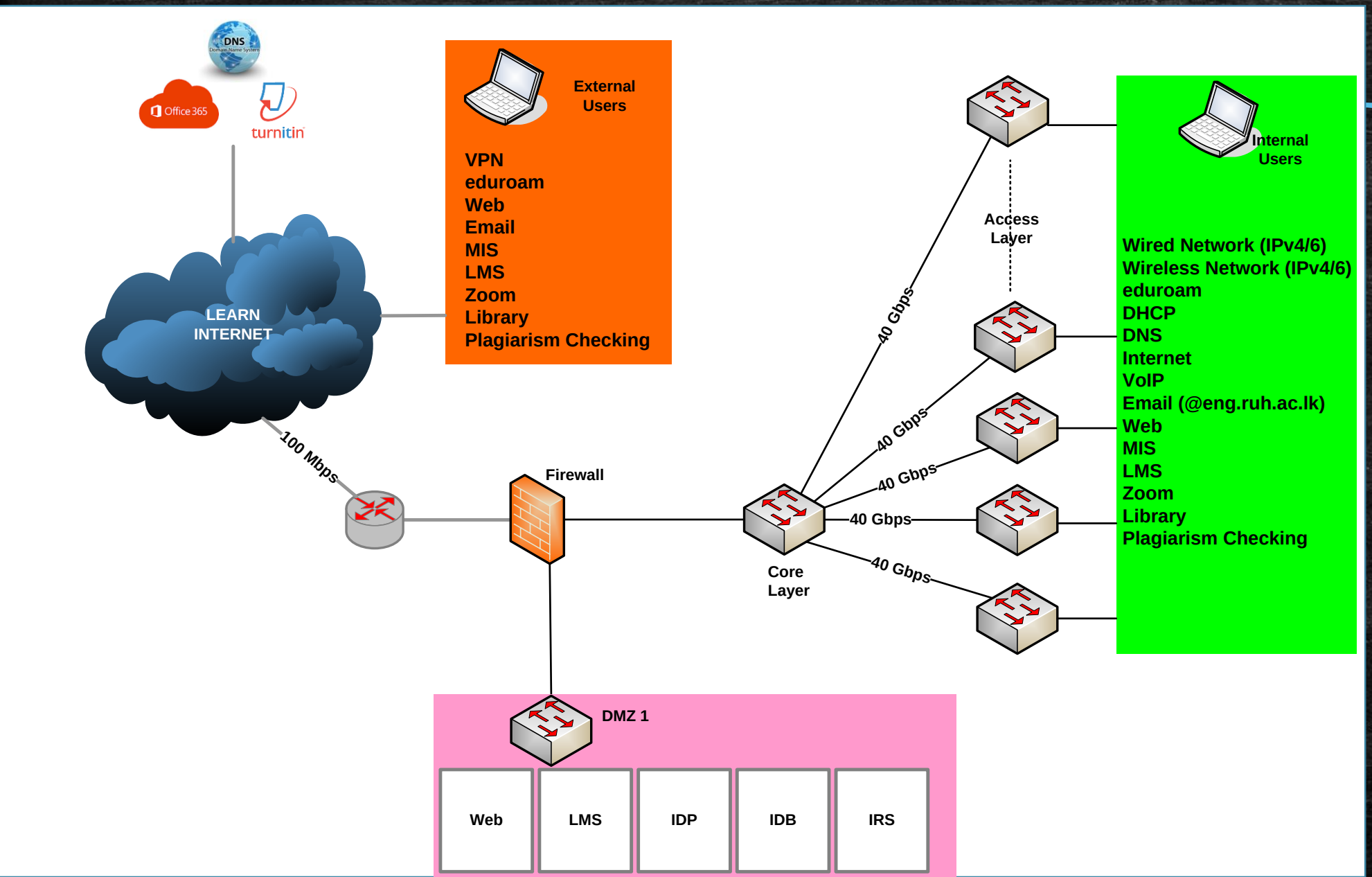
200 Users

20 Mbps

- 02 Departsments only
- Currently the faculty is located at several locations
- Planed to established entire network in the new bulding complex



Faculty of Allied Health Sciences (Walahanduwa)



Future Network & Services

6

To be Improved

1000 Users

100 Mbps

Faculty of Allied Health Sciences (Walahanduwa)

Future Network & Services

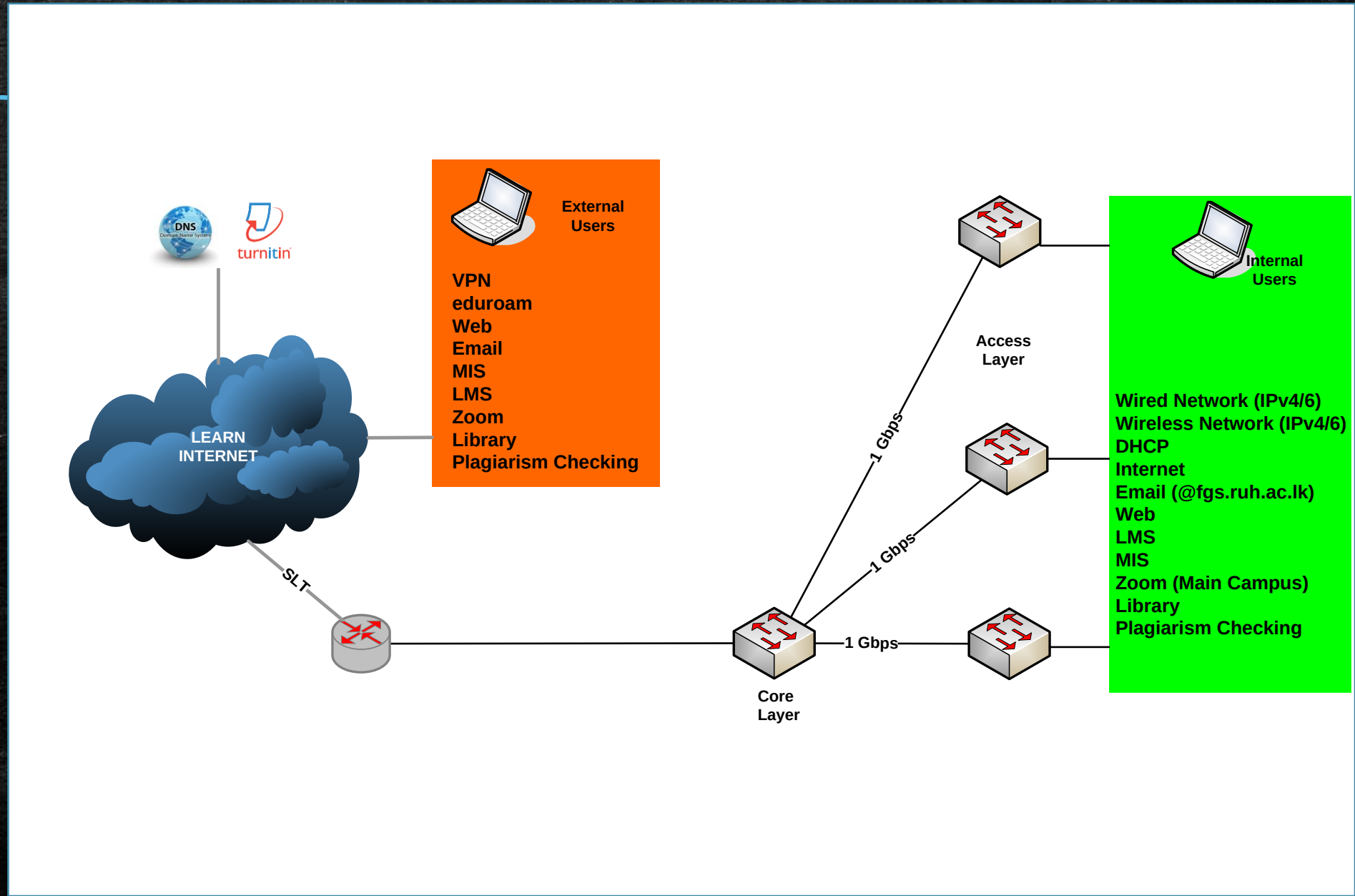
6

Faculty of Graduate Studies (Matara)

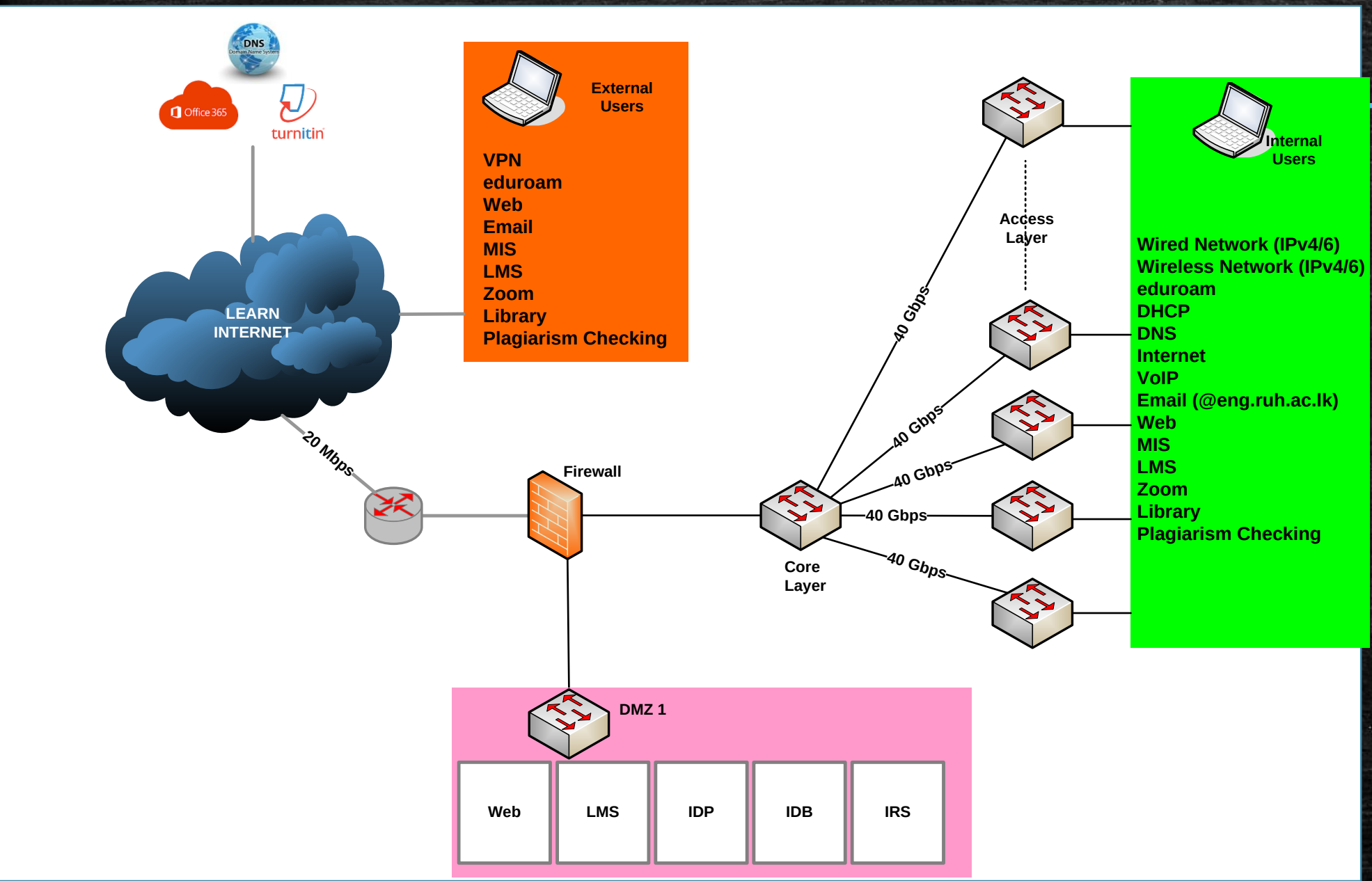
7

50 Users

Not Connected to LEARN



Faculty of Graduate Studies (Matara)



Future Network & Services

6

New

50 Users

20 Mbps

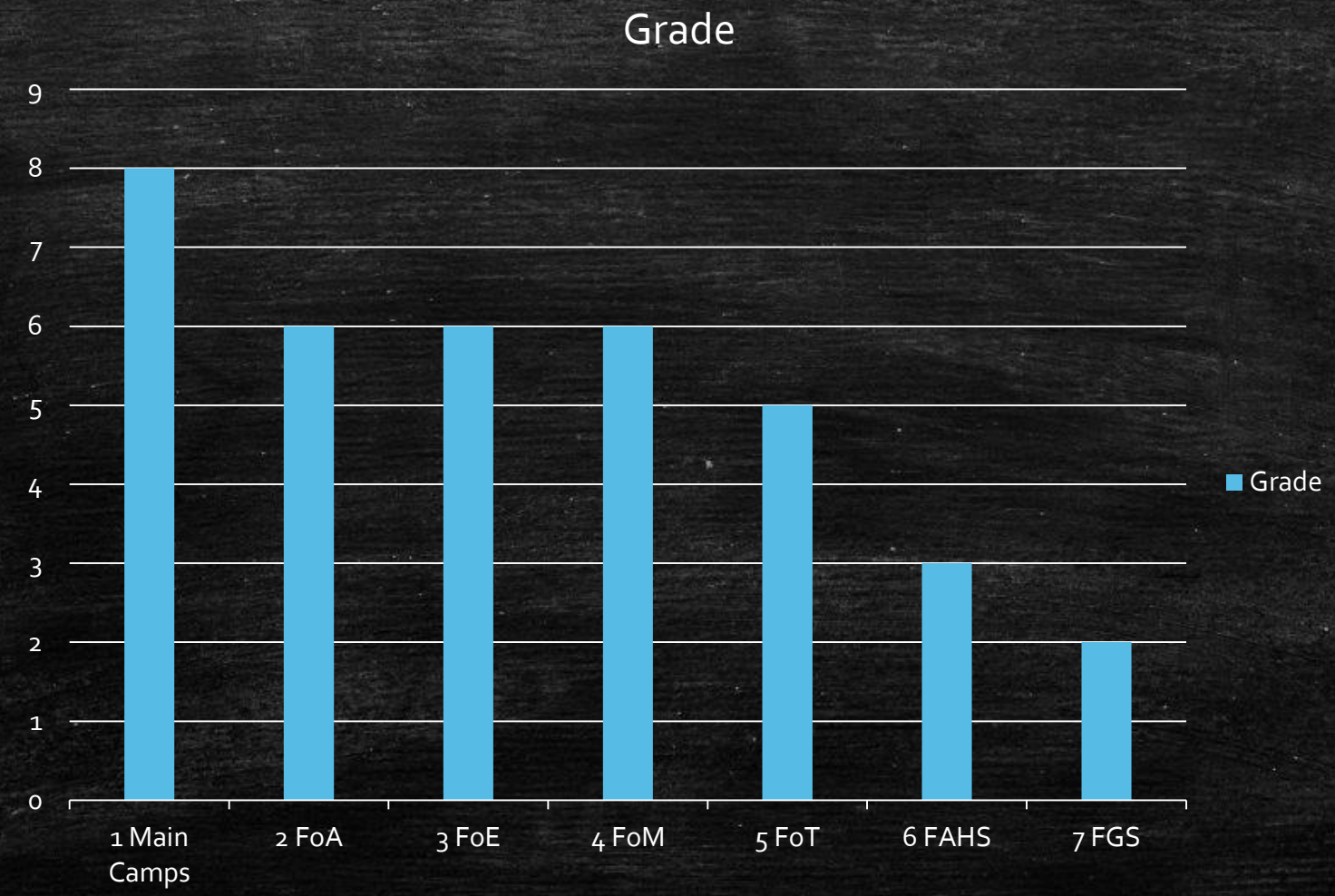
LEARN Connectivity Summary

Connectivity	Bandwidth Mbps	Bk. Bandwidth Mbps	No. of Users
Main Campus (Wellamadama)	500	100	6000
Faculty of Agriculture (Mapalana)	300	100	1200
Faculty of Technology (Kamburupitiya)	100	-	500
Faculty of Medicine (Karapitiya)	200	-	1000
Faculty of Engineering (Hapugala)	300	100	2000
Faculty of Allied Health Sciences (Uluwitike)	20	-	200
Faculty of Graduate Studies (Matara)	-	-	50

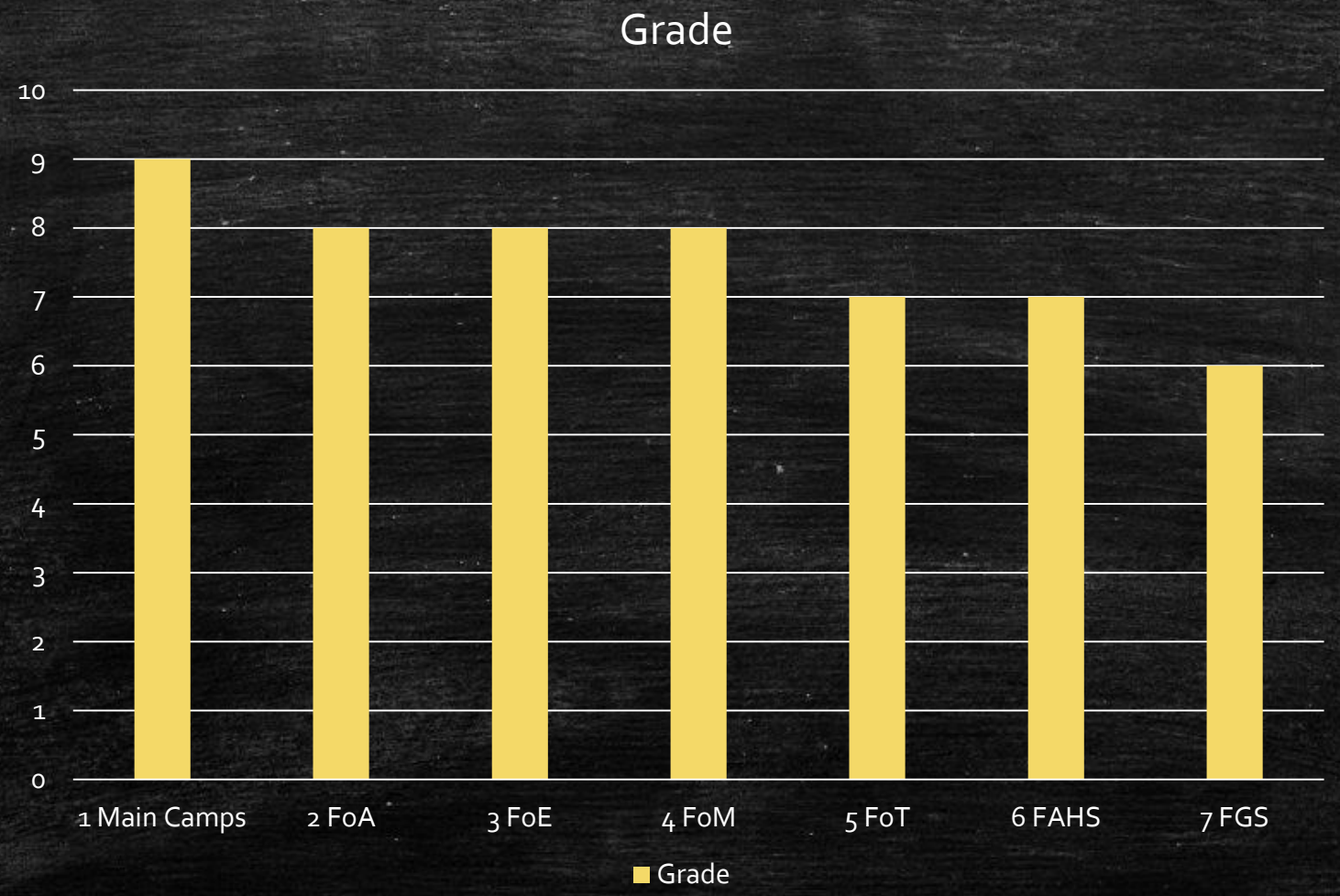
Capacity Building for IT Staff of UoR

List of Trainings
Campus Systems Linux Essentials
LKNOG6 Workshops and Conference
Workshop on Moodle Administration Essentials
Workshop on Identity Access Management Campus Essentials
Virtualization, Installation, and Administration of On-Prem Video Conferencing Platform
Conducting on-line tests with the Moodle learning management system
Computer Hardware and Electronics
Basic Electronics
Management of Aruba Network Devices
Management of Huawei Network Devices
Kaspersky Antivirus Management
Training on new Hybrid PABX
Aruba/HPE Training Session
Google Workspace for Education
etc…

Self Evaluation Statistics of Current Status



Self Evaluation Statistics of Future Developments



Way Forward

- Get UGC Recognition for RUCIT
- Improve HR Capacity of RUCIT
- Upgrade UoR Network and Services
- Establishment of New NOC at Main Campus (Wellamadama)
- Get LEARN Connectivity to the Faculty of Graduate Studies (Matara)
- Improve LEARN Connectivity of the Faculty of Allied Health Scinces (Galle)
- Complete IPv6 Deployment (Partially done)
- Introduction of Complete SSO to Access All Network Services
- Complete Automation of Business Processes of UoR

Challenges

- Decentralized nature of the University
- Unavailability of budget for new developments
- Limited /Insufficient budget for equipment maintenance
- Equipment maintenance with coastal environmental condition
- Finding human resources

Thank you