The Bandwidth Challenge

- How much bandwidth are you getting from KENET?

- Is it Sufficient?

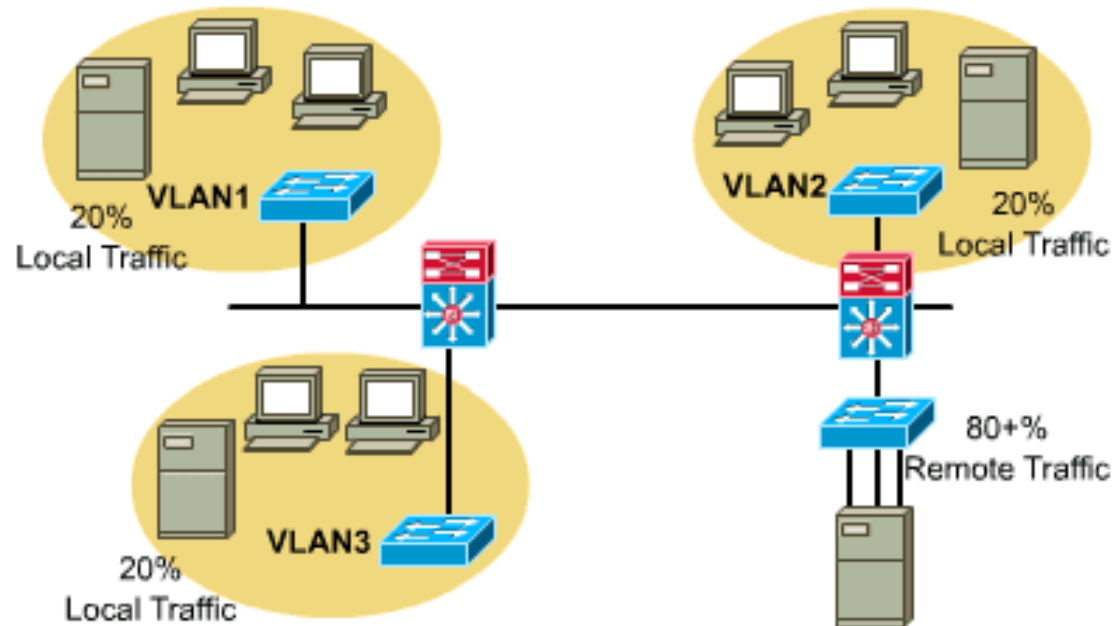The 80/20 Rule
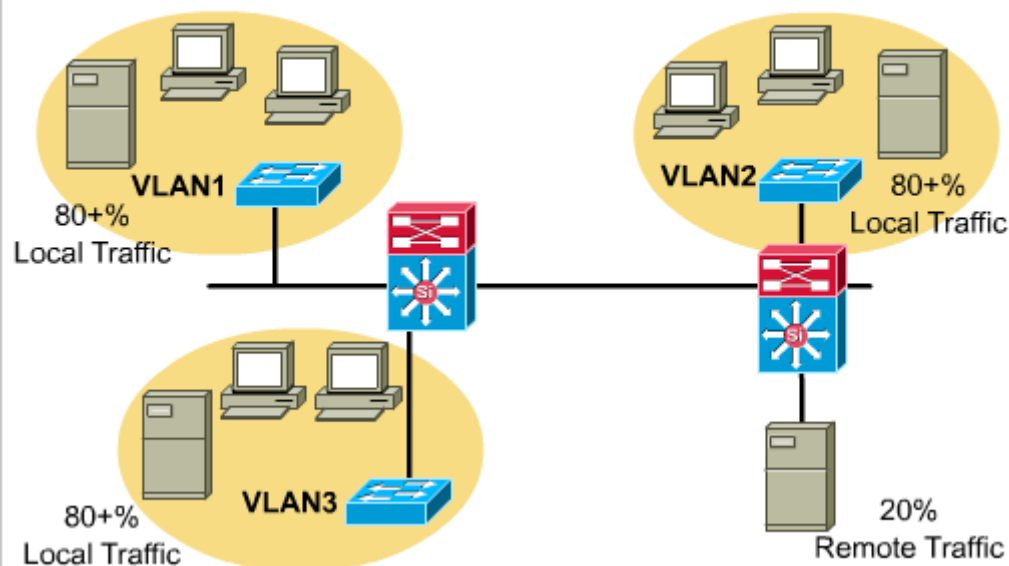
Traditional 80/20 rule

80% traffic local to subnet, 20% remote

"Remote" traffic

Traffic across the backbone or core to enterprise servers, Internet, remote sites, other subnets (more coming)

The New 20/80 Rule

New 20/80 rule

20% traffic local to subnet, 80% remote

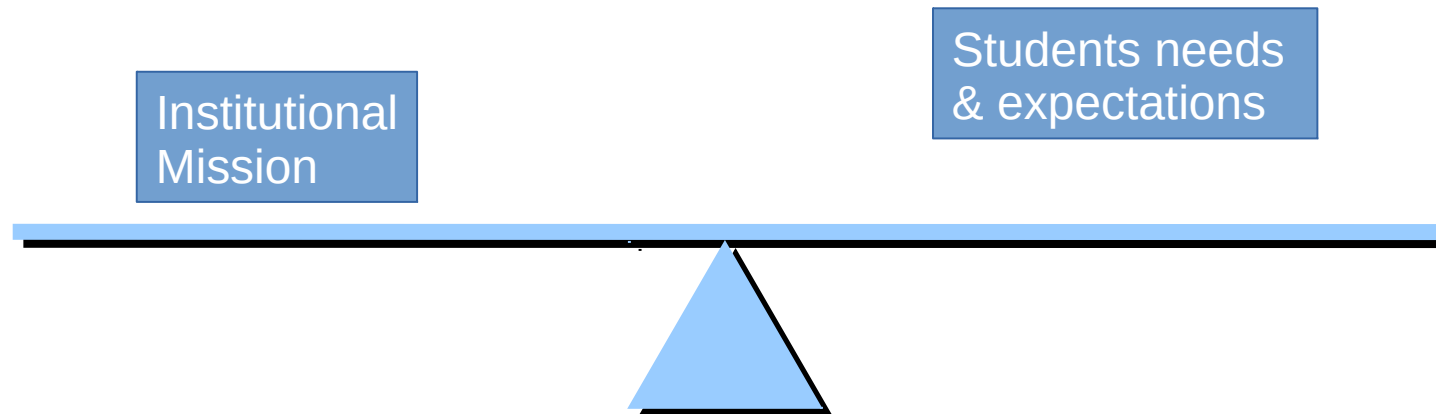Traffic moving towards new 20/80 rule due to:

Web based computing

Servers consolidation of enterprise and workgroup servers into centralize server farms, security and ease of management

A balancing Act

Striking a fine balance is key for institutional CIOs

Students needs & expectations

Institutional Mission

Ref *Kurt A. Snodgrass*

A Balancing Act for Higher Ed

- Overly tight controls limit access to technologies and information
- Curbs innovation in teaching and learning
- Will likely result in student dissatisfaction

Student Needs & Expectations

Institutional Mission
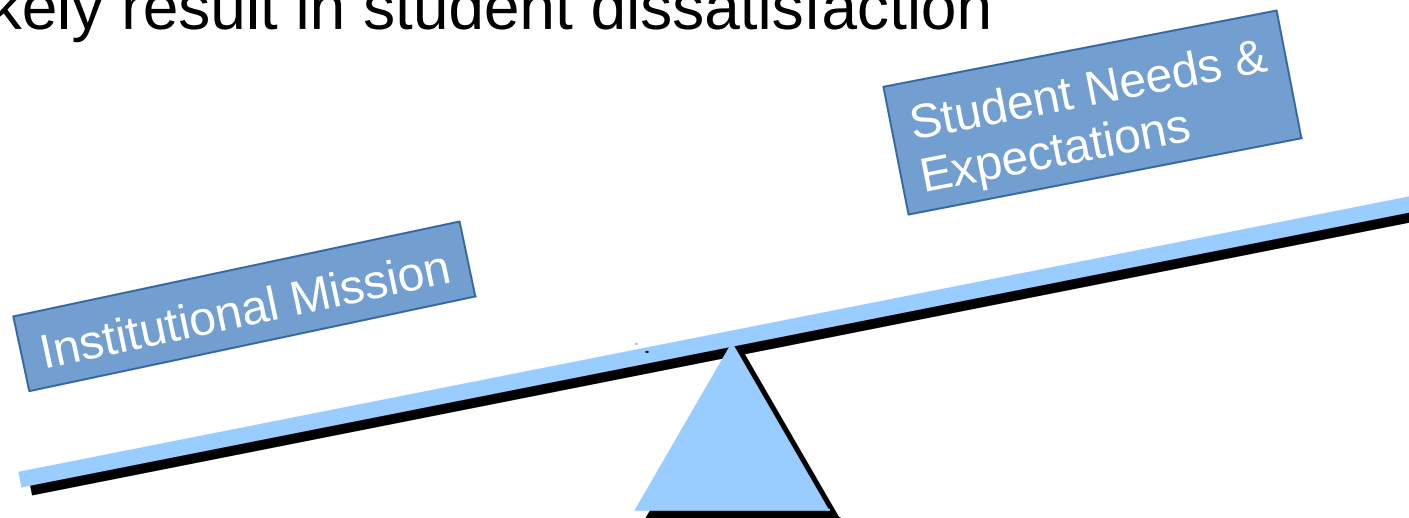
Ref *Kurt A. Snodgrass*

Challenges

- Funding

- Upgrading and Maintaining Infrastructure

- Managing on campus Bandwidth

- ?

What are the students accessing?

- YouTube videos

- Streaming Movies

- Email

- P2P file sharing

- Social Networking

Students and staff have more than one wireless device

What services are you offering on campus?

- Distance Learning

-Synchronous (2-way interactive)

-Asynchronous (Web-based)

- Wireless

-Anytime, anywhere access

- Mobile computing and communications

- Bandwidth Management

-Peer-to-Peer (P2P)

-Music and movie downloads

Thank You

www.kenet.or.ke

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