



KENET

KENYA EDUCATION NETWORK



KENET –The Kenya Education and Research Network

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<http://www.kenet.or.ke>

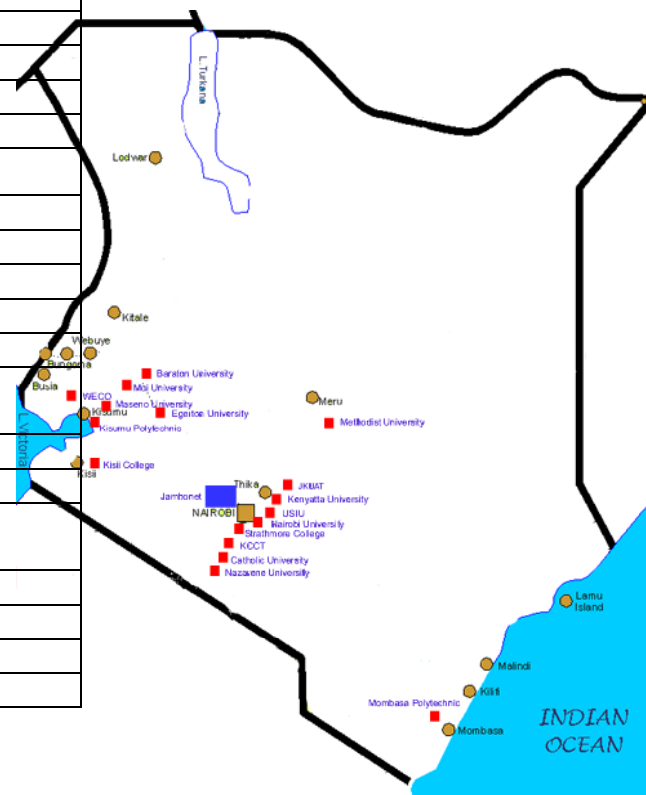


Goal

“To establish sustainable communication and networking among educational & research institutions in Kenya that will facilitate wide use of ICTs in teaching, learning, research and sharing of other information resources to the general populace at affordable cost”.

Coverage/member institutions

Group and No	Institutions	Province	Dist. from the Capital to Sites	
Group 1	1	Kenyatta University	Nairobi	20 minutes ride
	2	Mombasa Polytechnic	Coast	1 hour flight
	3	Strathmore College	Nairobi	10 minutes ride
	4	Kisumu Polytechnic	Nyanza	1 hour flight
	5	USIU	Nairobi	10 minutes ride
	6	Kenya Polytechnic	Nairobi	10 minutes ride
	7	KIM	Nairobi	10 minutes ride
	8	University of Nairobi	Nairobi	city centre
Group 2	1	Catholic University	Nairobi	20 minutes ride
	2	African Nazarene	Rift Valley	20 minutes ride
	3	KCCT	Nairobi	20 minutes ride
	4	Baraton University	Rift Valley	1 hour flight
	5	JKUAT	Central	30 minutes ride
	6	Moi University	Rift Valley	1 hour flight
	7	Kimathi Technical Training Institute	Central	2 hour flight
Group 3	1	Kisii College	Nyanza	4 hour ride
	2	Maseno University	Nyanza	1 1/2 hour flight
	3	Scott Technology College	Eastern	1 hour ride
	4	Methodist University	Eastern	3 hour ride
Group 4	1	Egerton University	Rift Valley	2 1/2 hours ride
	2	Daystar -Athi River	Eastern	1 hour ride
	3	WECO	Western	2 hour flight





KENET's Vision

...To spearhead the deployment of technology in **educational** and **research** for the development of the information economy in Kenya and the region



KENET's Mission

...To provide **quality** and **cost-effective network services** through a **sustainable, high-speed** and **reliable** national educational and research network

Objectives

- ✓ To establish a high –speed national IP-based network interconnecting all learning and educational institutions.
- ✓ To provide sustainable and permanent Internet access to all institutions
- ✓ Create at least one learning center in each institution to support e-learning
- ✓ To develop a comprehensive national education portal with an appropriate e-learning platform
- ✓ To train faculty and ICT support staff



Opportunities

- ✓ Partnerships & Resources mobilization (systems & human capital):
 - Different players –government, private & public sector
 - Sharing resources –institutional alliances, community involvement



Opportunities cont.....

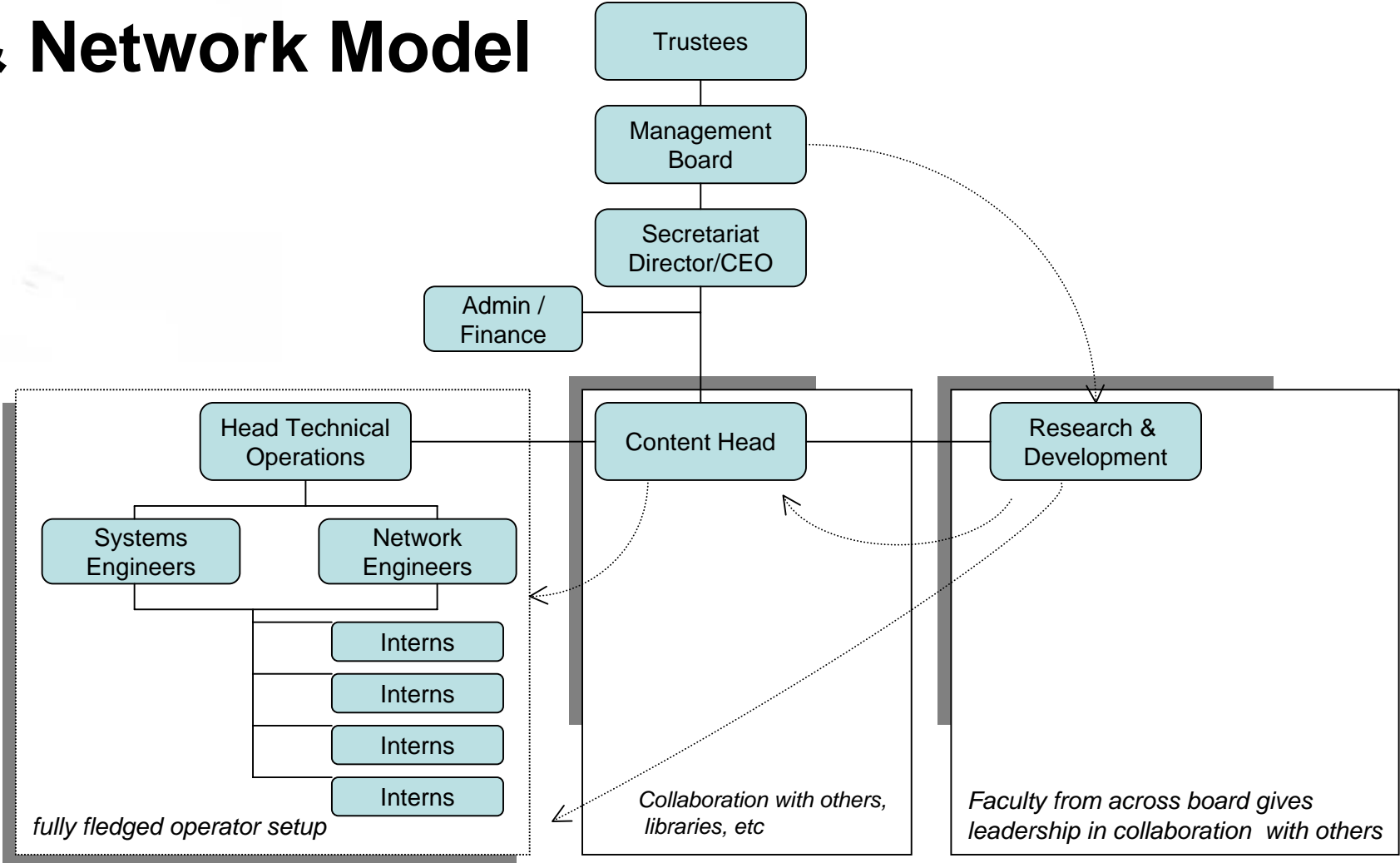
- ✓ Policy & Strategies:
 - An all inclusive approach
 - Integrated into the core teaching and learning approaches
 - e-rates
 - Open Source encouragement
 - Legal implications –IP, Copyright,
 - Ethical considerations
- ✓



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Institutional Framework & Network Model

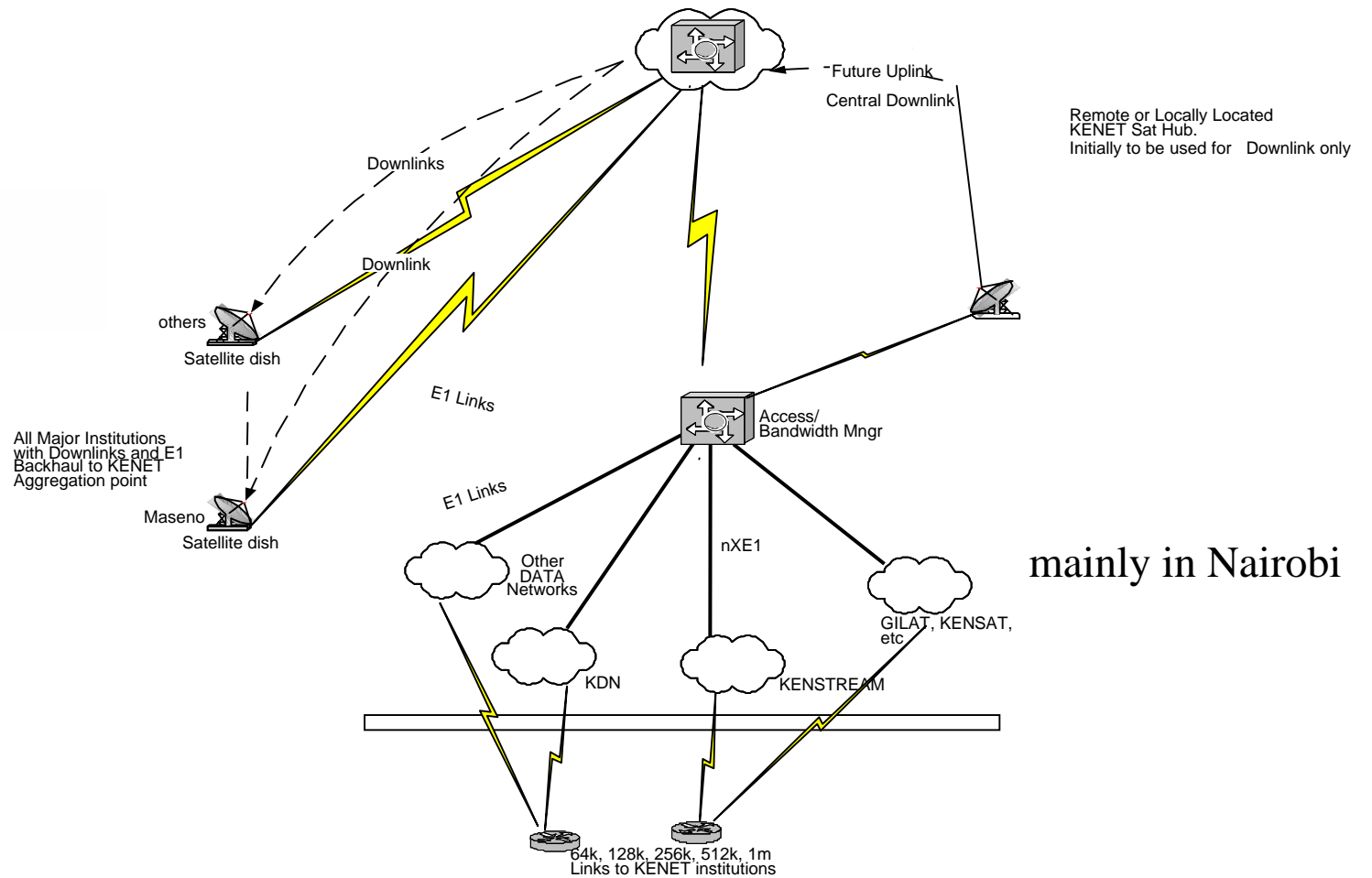


Connectivity Strategy

Implementation Approach

Connectivity Levels	Description	Responsibility Domain	Investment
International Gateway	Internet connectivity thro' JamboNet, Jamii, KDN, Own Gateway, etc	Users collectively, alliances with others like AVU, PAREN, etc	Contributions polled together
National Connectivity	PoPs in all regions to ensure easy distribution, connection to KIXP for 'National Internet'	KENET in partnership with local loop operators, building of wireless links, etc	Members through contributions & support
Institutions Networks	Computer Labs & Networks in all institutions	-institutions -KENET -partners, etc	By all stakeholders

Current Structure



mainly in Nairobi

Content strategy

Content Availability	Description	How?	Required
Institutional Level Networks	Aim at institutions accumulating 40% of their content requirements internally	Developing an e-platform with a CMS, elearning support, MIS module, etc	Collaborations, focused platforms cutting across board, e.g ITDawn, Content Mall, etc
National Level	Develop shared content nationally by hosting (available content), harnessing new content – aim/fill 60% requirements	Extend the pool of partnerships eg KARI, AJOL, ICIPE, TTCs, MOEST Agencies, etc	<ol style="list-style-type: none"> 1. Structured content developing & hosting 2. Tying up of the content availability
Others (outside networks access)	Be able to get what one needs	All collectively	Negotiate with others (NRENS), mirror servers, etc

Implementation Approach

Milestones/Achievements

- ✓ Established a fully functional institutional framework -2001. Currently boasts 51 member institutions comprising of universities, polytechnics, research institutions & colleges
- ✓ Realized connectivity for all universities (public & private) in Kenya –August 2003
- ✓ Piloted and tested collaboration model for content delivery for teaching between member institutions faculty

Milestones cont.

- ✓ Trained over 55 technical support staff for the institutions (in routing technology, systems admin, network mngt)
- ✓ Trained some of the faculty on e-learning deployment
- ✓ Currently working on our 3rd generation network architecture to allow for connectivity scaling and efficient content delivery

Thanks to the following partners/support

- ✓ The Government of Kenya
- ✓ Public and Private Universities/institutions
- ✓ Research Institutions in Kenya (KARI, ILRI, ICIPE, etc)
- ✓ USAID –Leland/EDDI Initiatives
- ✓ Communication Commission of Kenya (CCK)
- ✓ Telkom Kenya Ltd (TKL)
- ✓ Kenya Internet Exchange Point (KIXP)
- ✓ Kenya Data Network (KDN)
- ✓ Tufts University, USA (under the CCD project)
- ✓ Partnership for Higher Education in Africa
- ✓ NSRC –University of Oregon



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Thank You...