



COUNTY GOVERNMENT OF NAKURU

ENERGY, INFRASTRUCTURE AND ICT SECTOR

ICT AND E – GOVERNMENT SUB SECTOR REPORT

MTEF 2020/2021 – 2022/23

JANUARY 2020

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ACRONYMS/ABBREVIATIONS

ADP	Annual Development Plan
CSK	Computer Society of Kenya
ICT	Information Communication Technology
IFMIS	Integrated Financial Management Information Systems
IPPD	Integrated Personnel Payroll System
LAIFOMS	Local Authorities Integrated Financial Management System
LAN	Local Area Network
MTEF	Medium Term Expenditure Framework
PPPs	Public Private Partnerships
WAN	Wide Area Network

EXECUTIVE SUMMARY

The County Government of Nakuru recognizes the Energy, Infrastructure and Information, Communication Technology (EII) sector as a key enabler for sustainable economic growth.

This document discusses ICT and e-Government as a sub-sector in the sector. ICT sub-sector draws its mandate from the Governor's executive order No. 2 of 2017. In this regard, the sub-sector's mandate is to promote e-Government services, provide ICT services to other county departments, enhance ICT training and standards, promote public communication and dissemination of public information as well as provide public relations services.

This sector plan covers the background of the sub-sector which discusses widely the formation of the sub-sector, the current status and also its vision, mission, goals and objectives. The background also recognizes key stakeholders who play a key role in support of the department.

This plan also brings out the performance and key achievements of the sub-sector since FY 2016/17 to FY 2018/19. The department has been able to set up various infrastructural projects such as establishment of Local Area Networks in several sites, internet connectivity at the county headquarters and various departments, operationalized two digital centres at Subukia and Kuresoi south, establishment of Wide Area Network and installation of free Wi-Fi at Naivasha bus park, Molo market, Gilgil town and Kabazi market.

In chapter three, the prioritization of programmes and sub-programmes is discussed. The programmes prioritized for the MTEF period 2020/21, 2021/22 and 2022/23 are; administration and planning services, information and communication services and ICT infrastructural development. The chapter discusses ICT Infrastructure development, Public digital empowerment through establishment of digital centres and enhancement of e-Government services as its main area of focus. The resource requirement for MTEF period 2020/21, 2021/22 and 2022/23 is 1,752,069,673.10 while the resource allocation for the period is 456,094,895.42.

ICT cuts across all sectors within the county as discussed in chapter four. This is due to the fact that ICT is an enabler and provides support function to all sectors. The main role of ICT is to provide ICT technical advice during procurement and provision of ICT support to other departments. This plan thus reviews the inter-relationships of ICT with all other sectors.

ICT is faced with various challenges and dynamic emerging issues which pose threats and opportunities in the sub-sector. The major challenges being decentralization of ICT functions within the departments, dynamic changes in the technological world and insufficient coverage of high performing infrastructure like fibre within the County.

CHAPTER ONE

1.0 INTRODUCTION

1.1 Background

ICT sub-sector falls under the department of Education, ICT and e-Government and the larger sector of Infrastructure, Energy and Information Communication Technology.

Since FY 2016/17 to FY 2018/19, the sub-sector has been able to undertake several projects like installation of local area connectivity and internet at various county offices and sub counties, operationalization of the two digital centres with internet and training of the youth on online jobs. These centres have enhanced access to e-government services. The department has also undertaken establishment of Wide Area Network and installation of free Wi-Fi at Naivasha bus park, Molo market, Gilgil town and Kabazi market.

The sub-sector report gives an overview of the sub-sector's previous performance and its aspirations for the next financial year. This will help in preparing a budget that will be able to facilitate implementation of the proposed programmes. The sub-sector plans to undertake the following projects during the MTEF period 2020/21, 2021/22 and 2022/23:

1. Establishment of a data centre;
2. Establishment of 6 free Wi-Fi sites across the county;
3. Establishment of 6 digital centres across the County;
4. Procurement of an ERP system;
5. Expand WAN connectivity.

It is also a report that helps the sub-sectors to do an in depth analysis and determine their growth in terms of development. The report dissects the ICT sub-sector and its mandate and how it relates to the other stakeholders. It also presents the performance review of FY 2018/2019 and the expenditure analysis; projects undertaken in the previous years and its key performance indicators.

Finally, the report tackles the emerging issues and challenges faced by the ICT sub-sector. The sub-sector requires huge capital allocation to enable it to achieve its planned projects. The technological world is a fast paced one where emerging trends are frequent. For the sub-sector to align itself with these emerging technologies, there is need to allocate more resources to trainings and workshops for its staff so that they are equipped to deliver the planned projects. Another challenge faced by the sub-sector which is hindering its delivery of mandate is the decentralization of ICT functions at the departments. There is need to centralize ICT functions at the County to ensure standardization of products and services. Centralization will also ensure that the County benefits from economies of scale when ICT products are purchased in bulk.

1.2 Sub-sector Vision and Mission

Vision

The preferred choice for the delivery of innovative and integrative ICT solutions and digital services.

Mission

To be the best providers of ICT strategies and services, which deliver long term solutions, based upon our citizens' requirement.

1.3 Strategic Goals/Objectives of the Sector

To automate all county government operations.

Objectives of the sub-Sector

1. To improve ICT human capital and workforce development in Nakuru County.
2. To promote public digital literacy among the Nakuru County citizenry.
3. To improve digital connectivity within Nakuru County.
4. To enhance data access, protection and sharing.
5. To enhance provision e-Government services in the County.

1.4 Sub-sector Mandate

The sub-sector is mandated to:

- Promote e-Government services
- Provide ICT services to other County departments
- Enhance ICT training and standards
- Promote public communication and dissemination of public information
- Provide public relations services.

1.5 Role of Sector Stakeholders

	STAKEHOLDER	ROLES OF STAKEHOLDERS
1.	Office of the Governor	<ul style="list-style-type: none">• Provides the general leadership and political goodwill• Release the Executive order that give departments mandates and core functions• Through the Governor's press unit, they create awareness of department's projects.
2.	County Assembly	<ul style="list-style-type: none">• Legislation formulation• Review and approval of budget• Oversight in implementation of the budget.• Approval of Bills.
3.	Telecommunication Industry	<ul style="list-style-type: none">• Provision of backbone ICT infrastructure.
4.	Media	<ul style="list-style-type: none">• Dissemination of information to the public
5.	Non- State actors	<ul style="list-style-type: none">• Participates in consultative forums.
6.	Information and Communications Technology Authority of Kenya (ICTA)	<ul style="list-style-type: none">• Develop and enforce ICT standards.• Enhancing the supervision of the electronic communication.

	STAKEHOLDER	ROLES OF STAKEHOLDERS
7.	Communications Authority of Kenya (CA)	<ul style="list-style-type: none"> •Regulatory body for the sector in accordance with the relevant provisions of the Constitution of Kenya, 2010. •Regulation of broadcasting and licensing
8.	Local community	<ul style="list-style-type: none"> •Participating in decision making •Cooperation •Ownership and involvement
9.	Professional Bodies e.g. CSK	<ul style="list-style-type: none"> •Enforcing ICT standards •Raising awareness on emerging ICT issues
10.	Line Departments	<ul style="list-style-type: none"> •Offering ICT technical support

CHAPTER TWO

2.0 PROGRAMME PERFORMANCE REVIEW FOR THE MTEF PERIOD 2016/17-2018/19

2.1 Review of Sector Programmes/Sub-Programmes/projects-Delivery of Outputs/KPI/ targets

The following table summarizes Programme planned targets for the years 2016/17, 2017/18 and 2018/19 and their achievements. Key achievements of the department for this period were: operationalization of digital centres, installation of free Wi-Fi and Wide Area Network.

Table 1: Sector Programme Performance Reviews

Programme	Key Output	Key Performance Indicators	Planned Target			Achieved Target			Remarks
			2016/17	2017/18	2018/19	2016/17	2017/18	2018/19	
Programme 1: Administration and Planning Services									
Outcome: Improved service delivery									
Sub-Programme 1.1: ICT Support & Human Resource	Efficient service delivery	No of staff trained.	25	25	20	10	32	5	The courses were: SLDP, SMC KISM tender evaluation & Supervisory
		No. of trained beneficiaries	50	50	500	50	50	700	Use of revenue collection system Ajira online work
Sub-Programme 1.2: Administration and Support Services	ICT Policy developed	No of policies developed	County ICT Policy	-	-	-	County ICT Policy	-	
Programme 2: Information and Communication Services									
Outcome: Increased public digital literacy									

Programme	Key Output	Key Performance Indicators	Planned Target			Achieved Target			Remarks
			2016/17	2017/18	2018/19	2016/17	2017/18	2018/19	
Sub-Programme 2.1: Public communication and media Services	Digital centers established	No. of digital centres established	2	-	-	2	-	-	<ul style="list-style-type: none"> ▪ Operationalized the existing centres.
Programme 3: ICT Infrastructure Development									
Outcome: Improved infrastructure and increased number of automated services									
Sub-Programme 3.1: Hardware & Software Platforms	ICT equipment procured	No. of ICT equipment and accessories procured	100	50	10	25	50	5	
Sub-Programme 3.2: Network Infrastructure	Connectivity improved	No of sites connected to LAN.	1	1	2	1	-	2	<ul style="list-style-type: none"> ▪ Old town hall ▪ Njoro Polytechnic
		No. of sites connected with internet	-	2	13	-	2	13	
		Percentage of county offices linked with WAN	11	10%	10%	-	-	10%	<ul style="list-style-type: none"> ▪ County HQ ▪ Regional Coordinator's offices ▪ Governor's office - Milimani ▪ Water & Environment ▪ Lands & Housing
		IP Phones installed	No. of IP phones installed in offices.	100	-	40	-	-	40

Programme	Key Output	Key Performance Indicators	Planned Target			Achieved Target			Remarks
			2016/17	2017/18	2018/19	2016/17	2017/18	2018/19	
									<ul style="list-style-type: none"> ▪ Lands & Housing ▪ County HQ ▪ Governor's office - Milimani
	Firewalls installed	No. of Firewalls installed	-	-	1	-	-	1	
	CCTV Cameras installed	No. of sites covered with CCTV Cameras	-	-	1	-	-	1	
	Data centre established	Percentage of data centre established	-	-	30%	-	-	-	▪ Data centre project rolled over to 2019/20
Sub-Programme 3.3: E-government services	Automated systems installed	No. of systems automated	2	-	1	2	-	1	▪ The bursary system was developed internally

2.2 Expenditure Analysis

2.2.1 Analysis of Programme expenditures

The table below gives a breakdown of programmes expenditure for the FY 2016/17, 2017/18 and 2018/19.

Table 2: Programme/Sub-programme Expenditure Analysis

ANALYSIS OF PROGRAMMES BY ECONOMIC CLASSIFICATION						
Economic Classification	APPROVED BUDGET			ACTUAL EXPENDITURE		
	2016/17	2017/18	2018/19	2016/17	2017/18	2018/19
PROGRAMME 1: ADMINISTRATION AND PLANNING SERVICES						
Sub-programme 1:						
ICT Support & Human Resource	29,627,004	30,618,858.00	38,975,654	27,375,619	26,130,133.67	38,975,654
Sub-programme 2:						
Administration & Support Services	14,606,518	12,916,730	5,000,000	7,693,055.80	12,794,409.19	3,586,740
TOTAL PROGRAMME	44,233,522	43,535,588	43,975,654	35,068,675	38,924,543	42,562,394
PROGRAMME 2: INFORMATION AND COMMUNICATION SERVICES						
Sub-programme 1:						
Public Communication & Media Services	6,900,000	4,910,547	16,000,000	1,820,072	1,514,785	4,536,054
TOTAL PROGRAMME	6,900,000	4,910,547	16,000,000	1,820,072	1,514,785	4,536,054
PROGRAMME 3: ICT INFRASTRUCTURE DEVELOPMENT						
Sub-programme 1:						
Hardware & Software Platforms	15,000,000	2,000,000	-	0	2,453,525	0
Sub-programme 2:						
Network Infrastructure	25,000,000	6,630,912	30,000,000	36,464,212	8,046,120.70	3,893,785
Sub-programme 3:						
E-government Services	40,000,000	2,000,000.00	-	0	-	0
TOTAL PROGRAMME	80,000,000	10,630,912	30,000,000	36,464,212	10,499,646	3,893,785
TOTAL VOTE	131,133,522	59,077,047	89,975,654	73,352,959	50,938,974	50,992,233

2.2.2 Analysis of Programme expenditures by economic classification

The table below gives a summary of the approved budget for the FY 2016/17, 2017/18 and 2018/19 versus their actual expenditure by economic classification. The analysis indicates that the programmes are able to utilize the funds allocated effectively.

Table 3: Programme Expenditure Analysis by Economic Classification

ANALYSIS OF PROGRAMMES BY ECONOMIC CLASSIFICATION						
Economic Classification	APPROVED BUDGET			ACTUAL EXPENDITURE		
	2016/17	2017/18	2018/19	2016/17	2017/18	2018/19
PROGRAMME 1: ADMINISTRATION AND PLANNING SERVICES						
Current expenditure:						
Compensation of employees	27,375,618.90	30,618,858	38,975,654	27,375,619	26,130,133.67	38,975,654
Use of Goods and services	11,757,903	10,841,183	-	5,970,940.9	11,023,137.38	-
Grants and other transfers	-	-	-	-	-	-
Other Recurrent	5,100,000	2,075,547	-	1,722,114.9	1,771,271.81	-
Capital Expenditure						
Acquisition of Non-financial Assets	-	-	5,000,000	-	-	3,586,740
Capital Grants To Governmental Agencies						
TOTAL PROGRAMME	44,233,522.00	43,535,588.00	43,975,654.00	35,068,674.80	38,924,542.86	42,562,394.00
PROGRAMME 2: INFORMATION AND COMMUNICATION SERVICES						
Current expenditure:						
Compensation of employees						
Use of Goods and services	6,900,000	4,910,547	3,000,000	1,820,072	1,514,785	2,929,614
Grants and other transfers	-	-	-	-	-	-
Other Recurrent	-	-	-	-	-	-
Capital Expenditure						
Acquisition of Non-financial Assets	-	-	13,000,000	-	-	1,606,440
Capital Grants To Governmental Agencies	-	-		-	-	-
TOTAL PROGRAMME	6,900,000	4,910,547	16,000,000	1,820,072	1,514,785	4,536,054

ANALYSIS OF PROGRAMMES BY ECONOMIC CLASSIFICATION						
Economic Classification	APPROVED BUDGET			ACTUAL EXPENDITURE		
	2016/17	2017/18	2018/19	2016/17	2017/18	2018/19
PROGRAMME 3: ICT INFRASTRUCTURE DEVELOPMENT						
Current expenditure:						
Compensation of employees						
Use of Goods and services	1,775,000	1,875,000	2,000,000	2,107,195.70	1,600,125	1,928,675
Grants and other transfers	-	-	-	-	-	-
Other Recurrent	1,000,000	1,000,000	1,000,000	-	853,400	20,640
Capital Expenditure						
Acquisition of Non-financial Assets	77,225,000	7,755,812	27,000,000	34,357,016	8,046,120.70	1,944,470
Capital Grants To Governmental Agencies	-	-	-	-	-	-
TOTAL PROGRAMME	80,000,000	10,630,812	30,000,000	36,464,212	10,499,646	3,893,785
TOTAL VOTE	131,133,522	59,076,947	89,975,654	73,352,959	50,938,974	50,992,233

2.2.3 Analysis of Capital Projects

The department implemented several projects during the financial year 2018/19. The total number of projects were twelve.

S/No	Projects status	Total Number	Amount
1	Projects awarded	12	28,943,497.60
2	Not Awarded	1	10,000,000.00
3	On- going	4	18,691,136.60
4	Paid Projects	5	6,500,810.00
5	Projects awaiting payment	2	3,751,551.00

For a detailed breakdown of the projects, kindly refer to Appendix 1 and Appendix 2.

2.3 Review of Pending Bills

In the FY 2018/19, the department incurred total pending bills of Kshs. 4,257,592. This was as a result of incomplete projects by the contractors.

2.3.1 Recurrent Pending Bills

The Recurrent pending bills for the FY 2018/19 was Kshs. 506,038

S/N	Details	Contract amount	Payments	Outstanding Balance	Remarks
1	Maintenance of photocopiers	506,038	NIL	506,038	
	TOTAL	506,038		506,038	

2.3.2 Development Pending Bills

The Development pending bills for the FY 2018/19 was Kshs. 3,751,554

S/N	Details	Percentage of Completion	Project cost	Payments	Outstanding Amount	FY
1	Installation and configuration of local area network at Njoro polytechnic and old town hall	100	3,000,000	NIL	2,975,748	2018/19
2	Supply and delivery of concrete benches	100	800,000	NIL	775,806	2018/19
	TOTALS		3,800,000		3,751,551	

CHAPTER THREE

3.0 MEDIUM TERM PRIORITIES AND FINANCIAL PLAN FOR THE MTEF PERIOD 2020/21 – 2022/23

3.1 Prioritization of Programmes and Sub-Programmes

The ICT sub-sector draws its mandate from the Governor's executive order. In addition the programmes for FY 2020/21 will be funded through ceilings defined in the County Budget Review Outlook Paper 2019.

The main focus areas in order of priority for the F/Y 2020/21-2022/2023 are:-

1. ICT Infrastructure Development
2. Public digital empowerment through establishment of digital centres.
3. E-government services

Focus area 1 and 3 will be implemented under the ICT infrastructure development while 2 will fall under Information and Communication Services programme.

3.1.1 Programmes and their Objectives

PROGRAMME	OBJECTIVE
PROGRAMME 1: ADMINISTRATION AND PLANNING SERVICES	To improve efficiency in service delivery in Nakuru County.
PROGRAMME 2: INFORMATION AND COMMUNICATION SERVICES	To promote public digital literacy among the Nakuru County citizenry.
PROGRAMME 3: ICT INFRASTRUCTURE DEVELOPMENT	To improve on digital connectivity in Nakuru County so as to enhance access to e-Government services.

3.1.2 Programmes, Sub-Programmes, Expected Outcomes, Outputs, and Key Performance Indicators for the Sub-Sector

For the MTEF period FY 2020/21 to 2022/23 the department intends to implement various projects cutting across all programmes. These will include; improving public digital literacy through establishment of digital centers at sub-county level and development of ICT infrastructure across the County.

Table 4: Programmes, Sub-Programmes, Expected Outcomes, Outputs, and Key Performance Indicators for the Sub-Sector

Programme	Delivery Unit	Key Outputs	Key Performance Indicators	Target (2018/19)	Actual achievement (2018/19)	Baseline 2019/20	Target 2020/21	Target 2021/22	Target 2022/23
PROGRAMME 1: ADMINISTRATION AND PLANNING SERVICES									
OUTCOME: IMPROVED SERVICE DELIVERY									
SP 1 ICT support and Human Resource	Department of ICT and e-Government	Efficient service delivery	No. of staff trained	20	5	25	30	35	40
			No. of ICT staff recruited	-	-	10	5	5	5
SP 2 Administration and support services	Department of ICT and e-Government	ICT Policy developed	No. of policies developed	-	-	-	Disaster recovery policy	-	-
		Vehicles purchased	No. of vehicles purchased	-	-	1	1	1	1
PROGRAMME 2: INFORMATION AND COMMUNICATION SERVICE									
OUTCOME: INCREASED PUBLIC DIGITAL LITERACY									
SP 2.1 Public communication and media Services	Department of ICT and e-Government	Improved communication and awareness of county activities	Re-designing the county website	-	-	-	By June 2021	-	-
			No. of e-signage boards installed	13	10	-	-	-	
			No. of digital centres established	Piloting of existing digital centres	2	3	5	5	5

Programme	Delivery Unit	Key Outputs	Key Performance Indicators	Target (2018/19)	Actual achievement (2018/19)	Baseline 2019/20	Target 2020/21	Target 2021/22	Target 2022/23
		Increased use of e-Government platforms	No. of sites installed with free Wi-Fi	2	5	3	5	5	5
		Improved resolution of ICT complaints	One (1) Call Centre established	-	-	-	-	By June 2021	-
PROGRAMME 3: ICT INFRASTRUCTURE DEVELOPMENT									
OUTCOME: IMPROVED INFRASTRUCTURE AND INCREASED NUMBER OF AUTOMATED SERVICES									
SP 3.1 Hardware & Software Platforms	Department of ICT and e-Government	ICT Equipment procured	No. of ICT equipment and accessories procured	20	20	100	100	100	100
SP 3.2 Network Infrastructure	Department of ICT and e-Government	Improved ICT infrastructure	No of sites connected to LAN	2	2	1	-	-	-
		WAN installed	No. of sites connected to WAN	5	-	10	10	5	10
		Internet installed	No. of sites installed with internet	11	5	10	10	5	10
		Data Centre established	Percentage establishment of the data centre	10%	-	30%	60%	100%	-
		Offices installed with IP phones	No. of offices installed with IP Phones	40	40	-	10	10	10
SP 3.3 e-Government Services	Department of ICT and e-Government	County services automated	No. of services automated	2	-	1	-	1	

3.1.3 Programmes by Order of Ranking

1. Administration and Planning Services
2. ICT infrastructure development
3. Information and Communication Service

3.2 Analysis of Resource Requirement versus allocation by Sector:

3.2.3 Analysis of Resource Requirement by sub-sector

The following table gives a summary of the recurrent budget requirements of the period 2020/21 to 2022/23.

Table 5c: Analysis of Resource Requirement by Sub-Sector – Recurrent

ANALYSIS OF RECURRENT RESOURCE REQUIREMENT VS ALLOCATION								
Sub-Sector Name:		Approved	REQUIREMENT			ALLOCATION		
ICT & e-Gouvernement		2019/20	2020/21	2021/22	2022/23	2020/21	2021/22	2022/23
Vote and Vote Details	Economic Classification							
	Compensation Of Employees	25,065,155	47,160,541.34	51,876,595.47	57,064,255.02	27,262,971	29,989,268	32,988,195
	Use Of Goods And Services	44,749,000	83,338,644.07	91,672,508.48	100,839,759.30	63,162,500	69,478,750.00	76,426,625.00
	Grants And Other Transfers				-		-	-
	Other Recurrent	3,050,000	15,477,000.00	17,024,700.00	18,727,170.00	6,000,000	6,600,000.00	7,260,000.00
TOTAL		66,096,021.00	145,976,185.41	160,573,803.95	176,631,184.30	96,425,471	106,068,018	116,674,820

Sub-Sector Development

The following table gives a summary of the Development budget requirements for development of the period 2020/21 to 2022/23.

Table 5d: Analysis of Resource Requirement by Sub-Sector – Development

ANALYSIS OF DEVELOPMENT RESOURCE REQUIREMENT VS ALLOCATION								
		Approved	REQUIREMENT			ALLOCATION		
Sub-Sector Name:		2019/20	2020/21	2021/22	2022/23	2020/21	2021/22	2022/23
ICT & e-Government								
Vote and Vote Details	Description							
	Acquisition Of Non-Financial Assets	55,066,066	383,350,000	421,685,000	463,853,500	44,086,582	48,495,240	53,344,764
	Capital Grants To Governmental Agencies							
	Other Development							
TOTAL		55,066,066	383,350,000	421,685,000	463,853,500	44,086,582	48,495,240	53,344,764

3.2.4 Programmes and Sub-programmes Resource Requirement (2020/21 – 2022/23)

The following table summarises the department's programme and sub-programme expenditure resource requirements for the FY 2020/21 to 2022/23

Table 6: Analysis of Resource Requirement by Programmes and Sub-Programmes

ANALYSIS OF PROGRAMME EXPENDITURE RESOURCE REQUIREMENT (AMOUNT KSH MILLIONS)									
	2020/21			2021/22			2022/23		
	Current	Capital	Total	Current	Capital	Total	Current	Capital	Total
Programme 1: ADMINISTRATION AND PLANNING SERVICES									
Sub-Programme 1: ICT support and Human Resource	47,160,541	-	47,160,541	51,876,595	-	51,876,595	57,064,255	-	57,064,255
Sub-Programme 2: Administration and support services	9,881,564	-	9,881,564	10,869,721	-	10,869,721	11,956,693	-	11,956,693
TOTAL PROGRAMME	57,042,106	-	57,042,106	62,746,316	-	62,746,316	69,020,948	-	69,020,948
Programme 2: INFORMATION AND COMMUNICATION SERVICE									
Sub-Programme 1: Public communication and media Services	39,526,258	153,340,000	192,866,258	43,478,883	168,674,000	212,152,883	47,826,772	185,541,400	233,368,172
TOTAL PROGRAMME	39,526,258	153,340,000	192,866,258	43,478,883	168,674,000	212,152,883	47,826,772	185,541,400	233,368,172
Programme 3: ICT INFRASTRUCTURE DEVELOPMENT									
Sub-Programme 1: Hardware & Software Platforms	24,703,911	115,005,000	139,708,911	27,174,302	126,505,500	153,679,802	29,891,732	139,156,050	169,047,782
Sub-Programme 2: Network Infrastructure Development	24,703,911	115,005,000	139,708,911	27,174,302	126,505,500	153,679,802	29,891,732	139,156,050	169,047,782
Sub-Programme 3: E- government services									
TOTAL PROGRAMME	49,407,822	230,010,000	279,417,822	54,348,604	253,011,000	307,359,604	59,783,465	278,312,100	338,095,565
TOTAL VOTE	145,976,185	383,350,000	529,326,185	160,573,804	421,685,000	582,258,804	176,631,184	463,853,500	640,484,684

3.2.5 Programmes and sub-programmes Economic classification.

The following table summarises the department's Recurrent and Capital expenditure for each programme for the FY 2020/21 to 2022/23

Table 7: Programme and Sub-Programmes Allocation by Economic Classification

ANALYSIS OF PROGRAMME EXPENDITURE BY ECONOMIC CLASSIFICATION						
Economic Classification	REQUIREMENT			ALLOCATION		
	2020/21	2021/22	2022/23	2020/21	2021/22	2022/23
PROGRAMME 1: ADMINISTRATION AND PLANNING SERVICES						
Current Expenditure:						
Compensation Of Employees	47,160,541.34	51,876,595.47	57,064,255.02	27,262,971	29,989,268	32,988,195
Use Of Goods And Services	8,333,864.41	9,167,250.85	10,083,975.93	6,316,250.00	6,947,875.00	7,642,662.50
Grants And Other Transfers						
Other Recurrent	1,547,700.00	1,702,470.00	1,872,717.00	600,000.00	660,000.00	726,000.00
Capital Expenditure						
Acquisition Of Non-Financial Assets	-	-	-	-	-	-
Capital Grants To Governmental Agencies	-	-	-	-	-	-
Other Development	-	-	-	-	-	-
TOTAL PROGRAMME 1	57,042,105.75	62,746,316.32	69,020,947.95	34,179,221.00	37,597,143.00	41,356,857.50
PROGRAMME 1.1: ICT support and Human Resource						
Current Expenditure:						
Compensation Of Employees	47,160,541.34	51,876,595.47	57,064,255.02	27,262,971	29,989,268	32,988,195
Use Of Goods And Services	-	-	-	-	-	-
Grants And Other Transfers	-	-	-	-	-	-
Other Recurrent						
Capital Expenditure	-	-	-	-	-	-

ANALYSIS OF PROGRAMME EXPENDITURE BY ECONOMIC CLASSIFICATION						
Economic Classification	REQUIREMENT			ALLOCATION		
	2020/21	2021/22	2022/23	2020/21	2021/22	2022/23
Acquisition Of Non-Financial Assets	-	-	-	-	-	-
Capital Grants To Governmental Agencies	-	-	-	-	-	-
Other Development	-	-	-	-	-	-
TOTAL SUB-PROGRAMME 1.1	47,160,541.34	51,876,595.47	57,064,255.02	27,262,971.00	29,989,268.00	32,988,195.00
PROGRAMME 1.2: Administration and Support Services						
Current Expenditure:						
Compensation Of Employees	-	-	-	-	-	-
Use Of Goods And Services	8,333,864.41	9,167,250.85	10,083,975.93	6,316,250.00	6,947,875.00	7,642,662.50
Grants And Other Transfers	-	-	-	-	-	-
Other Recurrent	1,547,700.00	1,702,470.00	1,872,717.00	600,000.00	660,000.00	726,000.00
Capital Expenditure						
Acquisition Of Non-Financial Assets	-	-	-	-	-	-
Capital Grants To Governmental Agencies	-	-	-	-	-	-
Other Development						
TOTAL SUB-PROGRAMME 1.2	9,881,564.41	10,869,720.85	11,956,692.93	6,916,250.00	7,607,875.00	8,368,662.50
PROGRAMME 2: INFORMATION AND COMMUNICATION SERVICE						
Current Expenditure:						
Compensation Of Employees	-	-	-	-	-	-
Use Of Goods And Service	33,335,457.63	36,669,003.39	40,335,903.73	25,265,000.00	27,791,500.00	30,570,650.00
Grants And Other Transfers	-	-	-	-	-	-
Other Recurrent	6,190,800.00	6,809,880.00	7,490,868.00	2,400,000.00	2,640,000.00	2,904,000.00
Capital Expenditure						
Acquisition Of Non-Financial Assets	153,340,000.00	168,674,000.00	185,541,400.00	17,634,632.80	19,398,096.08	21,337,905.69

ANALYSIS OF PROGRAMME EXPENDITURE BY ECONOMIC CLASSIFICATION						
Economic Classification	REQUIREMENT			ALLOCATION		
	2020/21	2021/22	2022/23	2020/21	2021/22	2022/23
Capital Grants To Governmental Agencies	-	-	-	-	-	-
Other Development	-	-	-	-	-	-
TOTAL PROGRAMME 2	192,866,257.63	212,152,883.39	233,368,171.73	45,299,632.80	49,829,596.08	54,812,555.69
PROGRAMME 2.1: Public Communication and Media Services						
Current Expenditure:						
Compensation Of Employees	-	-	-	-	-	-
Use Of Goods And Service	33,335,457.63	36,669,003.39	40,335,903.73	25,265,000.00	27,791,500.00	30,570,650.00
Grants And Other Transfers	-	-	-	-	-	-
Other Recurrent	6,190,800.00	6,809,880.00	7,490,868.00	2,400,000.00	2,640,000.00	2,904,000.00
Capital Expenditure						
Acquisition Of Non-Financial Assets	153,340,000.00	168,674,000.00	185,541,400.00	17,634,632.80	19,398,096.08	21,337,905.69
Capital Grants To Governmental Agencies	-	-	-	-	-	-
Other Development	-	-	-	-	-	-
TOTAL SUB-PROGRAMME 2.1	192,866,257.63	212,152,883.39	233,368,171.73	45,299,632.80	49,829,596.08	54,812,555.69
PROGRAMME 3: ICT INFRASTRUCTURE DEVELOPMENT						
Current Expenditure:						
Compensation Of Employees	-	-	-	-	-	-
Use Of Goods And Services	41,669,322.04	45,836,254.24	50,419,879.66	31,581,250.00	34,739,375.00	38,213,312.50
Grants And Other Transfers	-	-	-	-	-	-
Other Recurrent	6,190,800.00	6,809,880.00	7,490,868.00	3,000,000.00	3,300,000.00	3,630,000.00
Capital Expenditure						
Acquisition Of Non-Financial Assets	230,010,000.00	253,011,000.00	278,312,100.00	26,451,949.20	29,097,144.12	32,006,858.53

ANALYSIS OF PROGRAMME EXPENDITURE BY ECONOMIC CLASSIFICATION						
Economic Classification	REQUIREMENT			ALLOCATION		
	2020/21	2021/22	2022/23	2020/21	2021/22	2022/23
Capital Grants To Governmental Agencies	-	-	-	-	-	-
Other Development	-	-	-	-	-	-
TOTAL PROGRAMME 3	277,870,122.04	305,657,134.24	336,222,847.66	61,033,199.20	67,136,519.12	73,850,171.03
PROGRAMME 3.1: Hardware & Software Platforms						
Current Expenditure:						
Compensation Of Employees	-	-	-	-	-	-
Use Of Goods And Services	20,834,661.02	22,918,127.12	25,209,939.83	15,790,625.00	17,369,687.50	19,106,656.25
Grants And Other Transfers	-	-	-	-	-	-
Other Recurrent	3,095,400.00	3,404,940.00	3,745,434.00	1,500,000.00	1,650,000.00	1,815,000.00
Capital Expenditure						
Acquisition Of Non-Financial Assets	115,005,000.00	126,505,500.00	139,156,050.00	13,225,974.60	14,548,572.06	16,003,429.27
Capital Grants To Governmental Agencies	-	-	-	-	-	-
Other Development						
TOTAL SUB-PROGRAMME 3.1	138,935,061.02	52,828,567.12	68,111,423.83	30,516,599.60	33,568,259.56	36,925,085.52
PROGRAMME 3.2: Network Infrastructure Development						
Current Expenditure:						
Compensation Of Employees	-	-	-	-	-	-
Use Of Goods And Services	20,834,661.02	22,918,127.12	25,209,939.83	15,790,625.00	17,369,687.50	19,106,656.25
Grants And Other Transfers	-	-	-	-	-	-
Other Recurrent	3,095,400.00	3,404,940.00	3,745,434.00	1,500,000.00	1,650,000.00	1,815,000.00
Capital Expenditure						
Acquisition Of Non-Financial Assets	115,005,000.00	126,505,500.00	139,156,050.00	13,225,974.60	14,548,572.06	16,003,429.27
Capital Grants To Governmental Agencies						

ANALYSIS OF PROGRAMME EXPENDITURE BY ECONOMIC CLASSIFICATION						
Economic Classification	REQUIREMENT			ALLOCATION		
	2020/21	2021/22	2022/23	2020/21	2021/22	2022/23
Other Development						
TOTAL SUB-PROGRAMME 3.1	138,935,061.02	52,828,567.12	68,111,423.83	30,516,599.60	3,568,259.56	36,925,085.52
Sub-Programme 3.3: E- government services						
Current Expenditure:						
Compensation Of Employees	-	-	-	-	-	-
Use Of Goods And Services	-	-	-	-	-	-
Grants And Other Transfers	-	-	-	-	-	-
Other Recurrent	-	-	-	-	-	-
Capital Expenditure						
Acquisition Of Non-Financial Assets	-	-	-	-	-	-
Capital Grants To Governmental Agencies	-	-	-	-	-	-
Other Development	-	-	-	-	-	-
TOTAL SUB-PROGRAMME 3.3	-	-	-	-	-	-
TOTAL VOTE	527,778,485.42	80,556,333.95	38,611,967.34	140,512,053.00	154,563,258.20	170,019,584.22

3.3. Resource Allocation Criteria.

The resource allocation criteria was based on the cost of the projects and the order of priority of the programmes.

CHAPTER FOUR

4.0 CROSS-SECTOR LINKAGES

Sector	Linkage with ICT Sub-Sector
Agricultural, Rural and Urban Development	<ul style="list-style-type: none"> • ICT sub-sector provides a platform where accurate and relevant information on agricultural produce, pricing and markets can be sought. • Projects on internet and mobile computing promote e-agriculture by focusing on the enhancement of agricultural and rural development through improved information and communication processes. • Extension services programme by the agricultural sector provide a platform where various ICT applications can be used. • Use of GIS system to map resources within the County
Education	<ul style="list-style-type: none"> • ICT sub-sector facilitates the education department by providing ICT infrastructure that support storage, and management of academic information, learning and provision of educational content. Development of automated solutions such as e-bursary and feeding programme to ease management of these functions. • Projects by the education department such as establishing youth polytechnics facilitate increase of ICT user base and thus increase awareness in the county.
Social Protection, Culture and Recreations	<ul style="list-style-type: none"> • ICT sub-sector provides platforms such as websites and email services that the department of culture, sports and social services can use to publicize cultural events, sports and welfare activities.
Health	<ul style="list-style-type: none"> • ICT projects on deploying county IT infrastructure support efficient exchange of information and communication between health professionals,

Sector	Linkage with ICT Sub-Sector
	improve clinical effectiveness and facilitate provision of telemedicine and medical research
General Economic and Commercial Affairs	<ul style="list-style-type: none"> • ICT sub-sector provides platforms such as websites and email services that the tourism and trade departments can use to market the county and its produce
Environment Protection Water and Natural Resources	<ul style="list-style-type: none"> • The ICT sub-sector provides IT infrastructure facilities that support industrial development, which is vital for economic growth. • ICT sub-sector recognizes the importance of protecting and conserving the environment by endeavoring to provide IT infrastructure that facilitate green energy options such as use of email instead of paper. • e-Waste management
Public Administration and National/Inter County Relations	<ul style="list-style-type: none"> • ICT sub-sector provides platforms that promote information sharing among stakeholders in the county. • This sub-sector provides support to the finance and economic planning department on the automation of financial management systems. • The County Assembly aides this sub-sector in the formulation of ICT laws and regulations. • The Public Service Management Department in conjunction with the Public service Board helps to build capacity of this sub-sector through recruitment of technical and professional staff
Energy & Infrastructure	<ul style="list-style-type: none"> • Pre-design all transport systems to accommodate ICT infrastructure.

CHAPTER FIVE

5.0 EMERGING ISSUES AND CHALLENGES

ICT sub-sector is faced with various challenges and dynamic emerging issues which pose threats as well as opportunities in the sub-sector. Among the major challenges are dynamic changes in the technological world as well as inadequate financing to deliver ICT projects.

5.1 EMERGING ISSUES

- Rapid advancements in the technological realm has necessitated continuous training of the workforce to ensure the staff are able to adapt to new technologies being implemented in the county.
- Due to the rapid changes in technology, mobile phones have become the medium to access internet and various applications that offer services e.g. banking. It is therefore paramount that the department develops applications that can be used in mobile devices. This will ensure that more citizens are able to access County services regardless of their location.
- Dynamic nature of ICT necessitates frequent change of systems leading to increased expenditure. ICT department should thus be allocated more funds to factor this in.
- Cybercrime is becoming a real threat hence the need to upgrade all the county systems with security software to minimize the risk.
- Regulatory bodies such as ICT Authority (ICTA) has prescribed various ICT standards which all government entities and agencies must adhere to.

5.2 CHALLENGES

- Lack of infrastructure in some regions like fibre optic cable connectivity making it very expensive to install high speed networks.
- Centralization of key systems such as IFMIS at the National Government leads to delays in problem resolution as troubleshooting is not possible at the county

level. This ultimately leads to delay in the procurement and payment process within the County.

- Slow pace in adoption of new technologies.
- High expectations by stakeholders and political interference.
- Lack of adequate financing to deliver the projects.
- Lack of vehicles for monitoring of ICT projects across the county

CHAPTER SIX

6.0 CONCLUSION

In conclusion, the sub-sector has been able to achieve several milestones which have greatly contributed to improved service delivery in the County. The sub-sector has potential to do more in accordance to its mandate and Governor's manifesto. Some of the key milestones achieved include operationalization of the digital centres at Subukia and Kuresoi South sub counties, installation of Wi-Fi at Molo market, Naivasha bus park, Kabazi market, Gilgil town and Governor's office in Milimani and installation of a wide area network.

The sub-sector plans to undertake several projects during the MTEF period 2020/21, 2021/22 and 2022/23. These projects are: establishment of a data centre, establishment of 9 free Wi-Fi sites across the county, establishment of 9 digital centres across the County and expansion of LAN and WAN connectivity. These projects will transform Nakuru County into a knowledge based economy. The projects are capital intensive and more budgetary allocation will be required to ensure that they see the light of day.

The sub-sector is also an enabler to other sectors within the County. Centralization of ICT functions will ensure that all ICT equipments and systems are of standard and the County will benefit from economies of scale unlike when it is decentralized.

In order to bridge the budget gap, the sub-sector will present proposals to various agencies for funding consideration. The sub-sector will also prioritise its projects in line with the Governor's manifesto for effective utilisation of the funds allocated.

CHAPTER SEVEN

7.0 RECOMMENDATIONS

The sub-sector's development projects require huge capital outlays. Basing on the previous budgetary resource requirement Visa Biz. the allocations to the sub-sector, the development projects planned require additional funding. This can only be achieved by mobilization of County revenue as well as deployment of Public-Private-Partnership (PPP) initiative to finance the gap.

In order to address the challenges and ensure that there is efficient and affordable infrastructure that supports the increased economic activities envisaged, the following strategies will be implemented:

1. Centralization of procurement ICT services and equipment for purposes of standardization and uniformity;
2. Enforcement of County ICT policy to streamline ICT operations within the County;
3. Involvement of the public and other stakeholders in the implementation process;
4. Continuous training of existing staff and recruitment of competent and qualified professionals;
5. Promotion of Public Private Partnerships (PPPs) with an enabling framework to finance developments in the county;
6. Ensure that all building plans have a provision for network infrastructure;
7. Development of shared services platform which will register all stakeholders across the county for the purpose of efficient and effective service delivery and improved revenue collection.

APPENDIX 1

ANALYSIS OF PERFORMANCE OF CAPITAL PROJECTS (FY2016/17 – 2018/2019)

PROJECT DESCRIPTION	LOCATION	CONTRACT DATE	ESTIMATED COST TO COMPLETION	CUMULATIVE BUDGET ALLOCATION	COMPLETION STAGE (%)	SPECIFIC NEEDS TO BE ADDRESSED BY THE PROJECT
Programme 1:	ADMINISTRATIO AND SUPPORT					
Reinforcement of server rooms and digital centres	<ul style="list-style-type: none"> ▪ Rongai ▪ Subukia ▪ Gilgil ▪ Naivasha ▪ Njoro ▪ Molo ▪ Kuresoi North ▪ Kuresoi South ▪ Bahati 	FY 2018/19	1,568,420	1,600,000	80	Ongoing
Supply and delivery of concrete benches	<ul style="list-style-type: none"> ▪ Naivasha ▪ Subukia ▪ Kuresoi South digital centers 	FY 2018/19	799,800	800,000	100	Payment in progress
Supply, Delivery and installation of 40 IP phones	<ul style="list-style-type: none"> ▪ Department of lands, Housing and physical planning. ▪ Department of water, Environment, Energy and natural Resources. ▪ County offices at former PC's building ▪ Governor's office Milimani 	FY 2018/19	1,787,000.00	1,800,000	100	N/A
Installation, configuration, testing and commissioning of network security solution.	<ul style="list-style-type: none"> ▪ County Headquarters 	FY 2018/19	1,799,740	1,800,000	100	N/A
Programme 2:	INFORMATION AND COMUNICATION SERVICE					
Internet set up at Kuresoi South and Subukia digital centres	<ul style="list-style-type: none"> ▪ Kuresoi South ▪ Subukia 	FY 2017/18	636,840	2,000,000	100	N/A
Establishment of Wi-Fi hotspots	<ul style="list-style-type: none"> ▪ Naivasha bus park ▪ Molo market ▪ Gilgil town 	FY 2018/19	5,747,336	6,000,000	50	Ongoing

	<ul style="list-style-type: none"> ▪ Kabazi market ▪ Governor's office-Milimani 					
Supply, Delivery and Installation of digital boards	<ul style="list-style-type: none"> ▪ Governor ▪ Deputy Governor ▪ County Secretary ▪ County executive members offices 	FY 2018/19	969,600	1,000,000	100	N/A
Programme 3:	NETWORK INFRASTRUCTURE DEVELOPMENT					
Installation, configuration, testing and commissioning of a wide area network (WAN)	<ul style="list-style-type: none"> ▪ Department of Lands, Housing and Physical Planning ▪ Department of Water, Environment, Energy and Natural Resources ▪ County Offices at former PC's building ▪ Governor's office Milimani 	FY 2018/19	5,983,283	6,000,000	100	Ongoing
Installation and configuration of local Area Network (LAN)	<ul style="list-style-type: none"> ▪ Old Town Hall County Offices ▪ Njoro Polytechnic (Innovation Hub) 	FY 2018/19	2,975,748	3,000,000	100	Payment in process
Establishment of a data centre	<ul style="list-style-type: none"> ▪ County headquarters 	FY 2018/19	-	10,000,000	0	Rolled over to FY 2019/20
Maintenance of CCTV	<ul style="list-style-type: none"> ▪ County HQ ▪ Former PC building 	FY 2018/19	1,247,500	1,300,000	100	N/A
Installation of CCTV surveillance Systems	<ul style="list-style-type: none"> ▪ Governor's office -Milimani 	FY 2018/19	696,970	700,000	100	N/A
Supply, delivery and Implementation of office 365	<ul style="list-style-type: none"> ▪ County Headquarters 	FY 2018/19	5,392,097.60	6,000,000	50	Ongoing
TOTAL			29,604,335	42,000,000		

APPENDIX 2

ANALYSIS OF PERFORMANCE OF CAPITAL PROJECTS (FY2013/14 – 2018/2019) CURRENTLY IN THE FY2019/20 BUDGET

PROJECT DESCRIPTION	LOCATION	CONTRACT DATE	ESTIMATED COST TO COMPLETION	CUMULATIVE BUDGET ALLOCATION	ACTUAL PAYMENT TO DATE	COMPLETION STAGE (%)	SPECIFIC NEEDS TO BE ADDRESSED BY THE PROJECT	PROJECT STATUS (ONGOING/ ABANDONED)
Programme 2:	INFORMATION AND COMMUNICATION SERVICE							
Establishment of Wi-Fi hotspots	<ul style="list-style-type: none"> ▪ Naivasha bus park ▪ Molo market ▪ Gilgil town ▪ Kabazi market ▪ Governor's office- Milimani 	FY 2018/19	5,747,336	6,000,000	0	50	N/A	Ongoing
Programme 3:	NETWORK INFRASTRUCTURE DEVELOPMENT							
Installation, configuration, testing and commissioning of a wide area network (WAN)	<ul style="list-style-type: none"> ▪ Department of Lands, Housing and Physical Planning ▪ Department of Water, Environment, Energy and Natural Resources ▪ County Offices at former PC's building ▪ Governor's office Milimani 	FY 2018/19	5,983,283	6,000,000	0	100	N/A	Complete, awaiting payment
Installation and configuration of local Area Network (LAN)	<ul style="list-style-type: none"> ▪ Old Town Hall County Offices ▪ Njoro Polytechnic (Innovation Hub) 	FY 2018/19	2,975,748	3,000,000	0	100	N/A	Complete, awaiting payment
Establishment of a data centre	<ul style="list-style-type: none"> ▪ County headquarters 	FY 2019/20	-	10,000,000	0	0	To be re-advertised	New
Supply, delivery and Implementation of office 365	<ul style="list-style-type: none"> ▪ County Headquarters 	FY 2018/19	5,392,097.60	6,000,000	0	80		Ongoing
TOTAL			20,098,465	31,000,000				

REFERENCES

1. ADP 2019/20
2. County Fiscal Strategy Paper, February 2018.
3. Executive order No.2 of 2017
4. Governors Manifesto
5. Kenya Vision 2030
6. Nakuru County CIDP, 2018-2022.
7. Nakuru County Treasury CBROP, September 2018
8. Nakuru County Treasury CBROP, September 2019
9. National ICT Policy 2016