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# Vote:023 Ministry of Science, Technology and Innovation

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## V1: Vote Overview

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### I. Vote Mission Statement

To provide leadership, an enabling environment and resources for scientific research and knowledge based development for industrialization, competitiveness and employment creation for a sustainable economy

### II. Strategic Objective

To provide leadership, an enabling environment and resources for scientific research and knowledge based development for industrialization, competitiveness and employment creation leading to a sustainable economy

### III. Major Achievements in 2019/20

- i. Undertook additional recruitment of Ministry Staff. Current staffing level now stands at 83%. New staff were also inducted on the Public Service Principles;
- ii. Inaugurated the Steering Committee for the National Research and Innovation Program Framework. The 11 member committee is composed of 5 female members;
- iii. Undertook an assessment of the performance of Innovation Fund beneficiaries;
- iv. Initiated the development of guidelines and standards for technology transfer and commercialization promotion in the Country;
- v. Initiated preparation of guidelines for integration of ST&I in MDAs & LGs;
- vi. Profiled 54 innovators in Nakaseke, Masaka, Sembabule and Mubende and Teso sub-region with emphasis on the youth;
- vii. Commenced Technology Needs Assessment in the Agricultural Sector in partnership with UN Technology Bank with emphasis on the role of women and marginalized groups;
- viii. Conducted infrastructure profiling in six (6) R&D Centres and Institutions of higher learning (Busitema University, Soroti University, Islamic University in Uganda, NASARRI, Mbale Clinical Research Institute, Uganda National Health Laboratory).
- ix. Developed the Ministry Client Charter and submitted to the Ministry of Public Service for approval;
- x. Organized a National week-long Science and Innovation festival which targeted mainly the youth and Innovators from the informal sector;
- xi. Drafted the Regulatory Impact Assessment of the Automotive Industry in Uganda and developed a Draft Automotive Industry Policy;
- xii. Undertook STI Policy consultations amongst various MDAs and LGs and the review report validated with support from UNCTAD;
- xiii. Forty-seven (47) international Partnerships established for Sericulture development as a result of Uganda's membership to the International Sericulture Commission which comprises of 50 members;
- xiv. Commenced development of the National Research Agenda. This Agenda will emphasize the role of women and youth in popularizing ST&I
- xv. Initiated collaborations and partnerships with UNCDF, Top 100 SMEs, World Vision, Moscow State University and Start-up Uganda, among others
- xvi. Undertook consultative meetings in six (6) LGs of Lira, Agago, Pader, Moyo, Nebbi and Otuke with 200 stakeholders in the Shea butter ecosystem to strengthen the proposed Shea Industrial Development Project with Emphasis on the need for women involvement to improve household income
- xvii. Undertook an engagement to strengthen business skills development in the value chain of essential oil and mushroom value addition in Tororo DLG targeting 46 participants (21 male and 25 female)
- xviii. Conducted a skills gap needs assessment for innovators in the informal sector in the districts of Kabale, Rukungiri, Kabarole, Hoima, Kapchorwa, Busia, Arua, and Moyo;
- xix. PIBID/BIRDC established links for partnership with V-Trion under Grabher Group for R&D for textiles and industrial materials from banana fibre. An MoU is ready to be signed.
- xx. Path to International Standards Organization (ISO) is 60% and UNBS is 90% covered for TOOKE products.
- xxi. Developed two electric buses (collaboration between KMC and CHTC). These will have easy access for handicapped persons as well as priority sitting areas for the old, pregnant women and other marginalized groups;
- xxii. Continued with construction of the KMC project; Electrical and Mechanical Installations finalized; 100% of 58,518.73m<sup>3</sup> excavated for Assembly Building Substructure
- xxiii. Developed the Kiira Vehicle Plant Manufacturing Systems, Processes, Standard Operating Procedures (SOPs), Machinery, Equipment and Tools requirements specifications

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- xxiv. Facilitated the 1st academic and practical skills inter-university show for Africa leather and leather products in Kyambogo University. This event was also aimed at encouraging involvement of the youth and unemployed in the leather sub-sector
- xxv. Established 150 retail outlets for Banana product distribution in areas Central and Western region of the country on the domestic market currently have international market pipeline orders amounting to 466 Metric Tonnes per annum
- xxvi. Strengthened research partnerships within the framework of the Science Granting Councils Initiative in Africa
- xxvii. Fulfilled all conditions precedent to the effectiveness of the National Science, Technology, Engineering and Innovation Skills Enhancement
- xxviii. Established 116 acres of Mulberry for station experimental development of Sericulture Technologies and Innovations in 8 districts in Uganda – Sheema, Mukono, Iganga, Pallisa, Bukedea, Kamuli, Bulambuli and Zombo.
- xxix. Established 251 acres of Mulberry Plantations/Gardens for Cocoon production in 15 districts – Sheema, Mbarara, Mubende, Bulambuli, Iganga, Kamuli, Buikwe, Kayunga, Luwero, Mukono, Kisoro, Wakiso, Pallisa, Zombo, Kiruhura

### IV. Medium Term Plans

1. Promote the development of a well-coordinated science, technology and innovation eco-system emphasizing inclusion for all
2. Develop requisite Technology & Innovation infrastructure in various regions while taking into account the needs of the disabled
3. Build human resource capacity for Technology & Innovation especially amongst the children and youth
4. Strengthen Research & Development capacities and applications in all regions of the country
5. Increase development, transfer and adoption of appropriate technologies and innovations amongst all categories of persons in the country
6. Improve the legal and regulatory framework
7. Develop STI Local content for all interest groups and stakeholders.
8. Setting up and operationalization of STI infrastructure

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## V. Summary of Past Performance and Medium Term Budget Allocations

Table 5.1: Overview of Vote Expenditures (US\$ Billion)

		2018/19 Outturn	2019/20		2020/21	MTEF Budget Projections			
			Approved Budget	Expenditure by End Dec		2021/22	2022/23	2023/24	2024/25
<b>Recurrent</b>	Wage	1.368	2.060	0.776	2.572	2.572	2.572	2.572	2.572
	Non Wage	25.124	33.813	9.057	34.739	41.687	50.025	60.030	72.036
<b>Devt.</b>	GoU	21.022	53.388	78.420	53.388	53.388	53.388	53.388	53.388
	Ext. Fin.	0.000	83.284	0.000	133.357	141.273	11.852	0.000	0.000
<b>GoU Total</b>		<b>47.515</b>	<b>89.261</b>	<b>88.253</b>	<b>90.699</b>	<b>97.647</b>	<b>105.984</b>	<b>115.989</b>	<b>127.995</b>
<b>Total GoU+Ext Fin (MTEF)</b>		<b>47.515</b>	<b>172.545</b>	<b>88.253</b>	<b>224.056</b>	<b>238.920</b>	<b>117.836</b>	<b>115.989</b>	<b>127.995</b>
Arrears		0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000
<b>Total Budget</b>		<b>47.515</b>	<b>172.545</b>	<b>88.253</b>	<b>224.061</b>	<b>238.920</b>	<b>117.836</b>	<b>115.989</b>	<b>127.995</b>
<b>A.I.A Total</b>		<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<b>Grand Total</b>		<b>47.515</b>	<b>172.545</b>	<b>88.253</b>	<b>224.061</b>	<b>238.920</b>	<b>117.836</b>	<b>115.989</b>	<b>127.995</b>
<b>Total Vote Budget Excluding Arrears</b>		<b>47.515</b>	<b>172.545</b>	<b>88.253</b>	<b>224.056</b>	<b>238.920</b>	<b>117.836</b>	<b>115.989</b>	<b>127.995</b>

## VI. Budget By Economic Classification

Table V6.1 2019/20 and 2020/21 Budget Allocations by Item

<i>Billion Uganda Shillings</i>	2019/20 Approved Budget				2020/21 Draft Estimates		
	GoU	Ext. Fin	AIA	Total	GoU	Ext. Fin	Total
<b>Output Class : Outputs Provided</b>	<b>34.642</b>	<b>0.000</b>	<b>0.000</b>	<b>34.642</b>	<b>24.673</b>	<b>0.000</b>	<b>24.673</b>
211 Wages and Salaries	7.601	0.000	0.000	7.601	3.781	0.000	3.781
213 Other Employee Costs	0.204	0.000	0.000	0.204	0.259	0.000	0.259
221 General Expenses	8.630	0.000	0.000	8.630	7.898	0.000	7.898
222 Communications	0.508	0.000	0.000	0.508	0.430	0.000	0.430
223 Utility and Property Expenses	3.080	0.000	0.000	3.080	3.063	0.000	3.063
224 Supplies and Services	0.155	0.000	0.000	0.155	0.188	0.000	0.188
225 Professional Services	6.058	0.000	0.000	6.058	1.530	0.000	1.530
227 Travel and Transport	7.844	0.000	0.000	7.844	6.966	0.000	6.966
228 Maintenance	0.561	0.000	0.000	0.561	0.557	0.000	0.557
<b>Output Class : Outputs Funded</b>	<b>52.362</b>	<b>0.000</b>	<b>0.000</b>	<b>52.362</b>	<b>65.688</b>	<b>133.357</b>	<b>199.045</b>
263 To other general government units	52.362	0.000	0.000	52.362	65.688	133.357	199.045
<b>Output Class : Capital Purchases</b>	<b>2.258</b>	<b>83.284</b>	<b>0.000</b>	<b>85.541</b>	<b>0.338</b>	<b>0.000</b>	<b>0.338</b>
281 Property expenses other than interest	1.100	0.000	0.000	1.100	0.000	0.000	0.000
312 FIXED ASSETS	1.158	83.284	0.000	84.441	0.338	0.000	0.338

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Output Class : Arrears	0.000	0.000	0.000	0.000	0.005	0.000	0.005
321 DOMESTIC	0.000	0.000	0.000	0.000	0.005	0.000	0.005
<b>Grand Total :</b>	<b>89.261</b>	<b>83.284</b>	<b>0.000</b>	<b>172.545</b>	<b>90.704</b>	<b>133.357</b>	<b>224.061</b>
<b>Total excluding Arrears</b>	<b>89.261</b>	<b>83.284</b>	<b>0.000</b>	<b>172.545</b>	<b>90.699</b>	<b>133.357</b>	<b>224.056</b>

## VII. Budget By Programme And Subprogramme

**Table V7.1: Past Expenditure Outturns and Medium Term Projections by Programme and SubProgramme**

<i>Billion Uganda shillings</i>	FY 2018/19 Outturn	FY 2019/20		2020-21 Proposed Budget	Medium Term Projections			
		Approved Budget	Spent By End Dec		2021-22	2022-23	2023-24	2024-25
<b>01 Regulation</b>	<b>1.787</b>	<b>4.617</b>	<b>0.836</b>	<b>4.752</b>	<b>4.717</b>	<b>4.906</b>	<b>5.869</b>	<b>5.869</b>
04 Monitoring and Evaluation	0.085	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05 Quality Assurance	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12 Science, Technology and Innovation Policy and Regulation	0.208	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15 Bio Safety and Bio Security	0.502	1.502	0.264	1.330	1.357	1.437	1.523	1.523
16 Bio Sciences and Bio Economy	0.483	1.538	0.291	1.345	1.453	1.523	2.401	1.842
17 Physical, Chemical and Social Sciences	0.480	1.577	0.280	2.077	1.907	1.945	1.945	2.504
<b>02 Research and Innovation</b>	<b>15.569</b>	<b>121.673</b>	<b>75.387</b>	<b>171.659</b>	<b>179.674</b>	<b>50.152</b>	<b>45.164</b>	<b>45.164</b>
06 International Collaboration	0.076	0.000	0.012	0.000	0.000	0.000	0.000	0.000
07 Research and Development	0.602	1.490	0.334	1.463	1.492	2.681	2.681	5.887
08 Technology Development	0.537	1.504	0.226	1.537	1.538	1.515	2.681	2.035
10 Infrastructure Development	0.543	1.470	0.290	1.439	1.462	1.435	5.887	2.160
14 Innovation Registration and Intellectual Property Management	0.501	1.526	0.265	1.462	1.509	0.270	1.515	2.681
1511 Kiira Motors Corporation	13.309	20.000	17.011	20.000	20.000	20.000	20.000	20.000
1513 National Science, Technology, Engineering and Innovation Skills Enhancement Project	0.000	95.684	57.250	145.757	153.673	24.252	12.400	12.400
<b>03 Science Entrepreneurship</b>	<b>1.721</b>	<b>4.977</b>	<b>0.915</b>	<b>4.590</b>	<b>5.004</b>	<b>12.630</b>	<b>4.804</b>	<b>4.804</b>
09 Technology Uptake, Commercialisation and Enterprise Development	0.588	1.850	0.289	1.665	1.892	3.837	2.037	2.188
10 Science, Technology and Innovation infrastructure Development	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11 Skills Development	0.574	1.601	0.325	1.455	1.515	3.460	1.307	1.307
13 Small and Medium Enterprise Development and Facilitation	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18 Advancement and Outreach	0.477	1.526	0.301	1.470	1.597	5.333	1.460	1.309
<b>49 General Administration and Planning</b>	<b>28.437</b>	<b>41.278</b>	<b>11.116</b>	<b>43.059</b>	<b>49.525</b>	<b>50.147</b>	<b>60.152</b>	<b>72.158</b>
01 Finance and Administration	19.286	18.203	6.189	18.488	19.871	1.450	1.028	1.028
02 Human Resource	0.000	0.000	0.000	1.017	1.570	1.780	0.198	0.400

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03 Internal Audit	0.138	0.180	0.053	0.218	0.225	22.765	31.965	41.938
1459 Institutional Support to Ministry of Science, Technology and Innovation	7.713	20.988	4.160	0.000	0.000	0.000	0.000	0.000
1597 Retooling of Ministry of Science, Technology and Innovation	0.000	0.000	0.000	20.993	20.988	20.988	20.988	20.988
19 Policy and Planning	1.299	1.907	0.713	2.344	6.871	3.164	5.973	7.804
<b>Total for the Vote</b>	<b>47.515</b>	<b>172.545</b>	<b>88.253</b>	<b>224.061</b>	<b>238.920</b>	<b>117.836</b>	<b>115.989</b>	<b>127.995</b>
<b>Total Excluding Arrears</b>	<b>47.515</b>	<b>172.545</b>	<b>88.253</b>	<b>224.056</b>	<b>238.920</b>	<b>117.836</b>	<b>115.989</b>	<b>127.995</b>

## VIII. Programme Performance and Medium Term Plans

Table V8.1: Programme Outcome and Outcome Indicators ( Only applicable for FY 2020/21)

<b>Programme :</b>	01 Regulation				
<b>Programme Objective :</b>	To Coordinate all matters pertaining to STI standards and regulation, and coordination of Bio sciences and Bio economy, Physical and Chemical Sciences				
<b>Responsible Officer:</b>	Director, STI Regulation				
<b>Programme Outcome:</b>	Enhance Standards for the development of Science, Technology and Innovations				
<i>Sector Outcomes contributed to by the Programme Outcome</i>					
<b>1. Effective STI regulatory framework</b>					
<b>Outcome Indicators</b>	<b>Performance Targets</b>				
			<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
	<b>Baseline</b>	<b>Base year</b>	<b>Target</b>	<b>Projection</b>	<b>Projection</b>
N / A					
<b>SubProgramme: 15 Bio Safety and Bio Security</b>					
<i>Output: 01 Enabling Policies, Laws and Regulations developed</i>					
Number of public and private institutions with capacity built			4	6	8
Number of collaborations undertaken			2	3	4
<b>SubProgramme: 16 Bio Sciences and Bio Economy</b>					
<i>Output: 01 Enabling Policies, Laws and Regulations developed</i>					
Number of collaborations undertaken			4	5	6
<b>SubProgramme: 17 Physical, Chemical and Social Sciences</b>					
<i>Output: 01 Enabling Policies, Laws and Regulations developed</i>					
Number of public and private institutions with capacity built			15	20	25
Number of collaborations undertaken			8	10	15
<b>Programme :</b>	02 Research and Innovation				
<b>Programme Objective :</b>	To Coordinate the National Innovation System, Research and Development endeavors/activities in the country				
<b>Responsible Officer:</b>	Director, Research and Innovation				
<b>Programme Outcome:</b>	Increased Research, Innovations and emerging Technologies				

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<i>Sector Outcomes contributed to by the Programme Outcome</i>					
<b>1. Increased level of technology and innovation</b>					
Outcome Indicators	Performance Targets				
			2020/21	2021/22	2022/23
	Baseline	Base year	Target	Projection	Projection
N / A					
<b>SubProgramme: 07 Research and Development</b>					
<i>Output: 01 Research and Development</i>					
Number of prototypes adopted			3	4	5
Number of partnerships generated in STI			2	3	4
<b>SubProgramme: 08 Technology Development</b>					
<i>Output: 02 Technology, Innovation, Transfer and Development</i>					
Number of appropriate local technologies adopted			4	8	10
Number of traditional technologies adopted			4	8	10
<b>SubProgramme: 10 Infrastructure Development</b>					
<i>Output: 02 Technology, Innovation, Transfer and Development</i>					
Number of functional STI infrastructure set up			1	2	3
<b>SubProgramme: 14 Innovation Registration and Intellectual Property Management</b>					
<i>Output: 02 Technology, Innovation, Transfer and Development</i>					
Number of Key stakeholders sensitized on IPR disaggregated by region and gender			150	180	270
Number of Intellectual Property applications supported			70	110	120
<b>SubProgramme: 1511 Kiira Motors Corporation</b>					
<i>Output: 51 Transfers to Innovators and Scientists</i>					
Number of Intellectual property Rights registered by KMC			13	15	17
kiira vehicle plant installed capacity			5,000	5,000	5,000
No. of domestic suppliers			1	3	5
No. of vehicle assembly and technology transfer partnerships			2	2	3
<b>Programme :</b>	03 Science Entrepreneurship				
<b>Programme Objective :</b>	To Coordinate all entrepreneurial activities, Development of Technological incubation, development of small and medium enterprise and enhancement of STI skills				
<b>Responsible Officer:</b>	Director, Technopreneurship				
<b>Programme Outcome:</b>	Increased Human Capital development in Science, Technology and Innovations				
<i>Sector Outcomes contributed to by the Programme Outcome</i>					
<b>1. Increased technological and science uptake in development</b>					
	<b>Performance Targets</b>				

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Outcome Indicators			2020/21	2021/22	2022/23
	Baseline	Base year	Target	Projection	Projection
N / A					
<b>SubProgramme: 09 Technology Uptake, Commercialisation and Enterprise Development</b>					
<i>Output: 01 Technological enterprise developed</i>					
The total of startup technologies supported			4	7	10
<i>Output: 02 Value addition centre established</i>					
Number of artisans and scientific knowledge interlocutors facilitated			5	8	11
<i>Output: 03 Industrial Skills Development and capacity Building</i>					
Number of STI business mentorships undertaken			2	5	8
<b>SubProgramme: 11 Skills Development</b>					
<i>Output: 03 Industrial Skills Development and capacity Building</i>					
Number of STI skills development initiatives undertaken			5	8	12
<b>SubProgramme: 18 Advancement and Outreach</b>					
<i>Output: 03 Industrial Skills Development and capacity Building</i>					
Number of community awareness campaigns conducted			15	25	30

## IX. Major Capital Investments And Changes In Resource Allocation

**Table 9.1: Major Capital Investment (Capital Purchases outputs over 0.5Billion)**

N/A

## X. Vote Challenges and Plans To Improve Performance

### Vote Challenges

1. Funding shortfalls: Much as Shs. 10 Billion was appropriated to the Ministry as Innovation Fund, it still remains insufficient in view of Government commitments to support Scientists, Researchers and Innovators Additionally the development allocation of 0.337 Billion is so meagre and may not support the retooling needs of the Ministry
2. Insufficient physical and technological infrastructure to support Scientific Research and Innovation.
3. Limited commercialization of research results and utilization of acquired patents
4. Expensive R&D and innovation infrastructure and inputs (R&D expenditures, training scientist and engineers, laboratory equipment, public research institutions)
5. Non provision of Science Officers in Local Governments Structure
6. Limited involvement of private sector in STI

### Plans to improve Vote Performance

1. Finalize the development of the ST&I Policy
2. Disseminate the National Research and Innovation Program Framework to support Innovators and Scientists in the Country
3. Strengthening intra and inter institutional coordination. This is through strengthening the STI Sector Working Group and Conducting Annual Joint Sector Reviews
4. Collaborations and partnerships on matters pertaining STI involving private Sector, Academia, Innovators, Universities (both Local and International)
5. Restructure the Ministry in consultations with the Ministry of Public Service

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6. Undertake retooling of the Ministry to provide a conducive working environment  
 7. Undertake comparative studies on STI and thereafter adopt appropriate Technologies that are relevant to the socio, economic conditions of the country

### XI Off Budget Support

Table 11.1 Off-Budget Support by Sub-Programme

N/A

### XII. Vote Cross Cutting Policy And Other Budgetary Issues

Table 12.1: Cross- Cutting Policy Issues

Issue Type: **HIV/AIDS**

<b>Objective :</b>	To mainstream HIV/AIDS in Ministry operations
<b>Issue of Concern :</b>	Support of HIV/AIDS positive staff at the workplace
<b>Planned Interventions :</b>	Develop the Ministry HIV/AIDS Workplace Policy Conduct sensitization of staff on HIV/AIDS Provide care and treatment services for HIV positive staff
<b>Budget Allocation (Billion) :</b>	0.200
<b>Performance Indicators:</b>	Number of HIV positive staff supported HIV/AIDS Workplace policy in place

Issue Type: **Gender**

<b>Objective :</b>	To foster Gender sensitive Budget preparation and execution
<b>Issue of Concern :</b>	Limited responsiveness to Gender and Equity requirements
<b>Planned Interventions :</b>	1. Continuously sensitise and build capacity of Staff on Gender Mainstreaming 2. Develop an inclusive ST&I Gender Mainstreaming Strategy 3. Non adherence to Gender and Equity requirements
<b>Budget Allocation (Billion) :</b>	0.200
<b>Performance Indicators:</b>	Ratings by Equal opportunities Commission

Issue Type: **Environment**

<b>Objective :</b>	To ensure a safe and Clean Environment
<b>Issue of Concern :</b>	Poor Disposal of Office waste
<b>Planned Interventions :</b>	1.Provision of refuse containers to staff to dispose waste 2.Dispose all e waste generated in offices 3. Mainstreaming of Environment issues in the workplace 4. Adoption of Climate smart Technologies
<b>Budget Allocation (Billion) :</b>	0.200
<b>Performance Indicators:</b>	Safe and Clean Environment

### XIII. Personnel Information

Table 13.1 Staff Establishment Analysis



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N/A

## **Table 13.2 Staff Recruitment Plan**

N/A