

PROGRAMME: Innovation, Technology Development And Transfer

Snapshot of Medium Term Budget Allocations

Table P1.1 Overview of Programme Expenditure (Ushs Billion)

		2020/21		2021/22	MTEF Budget Projections			
		Approved Budget	Spent By End Q1	Proposed Budget	2022/23	2023/24	2024/25	2025/26
Recurrent	Wage	8.896	2.253	8.896	8.896	8.896	8.896	8.896
	Non-wage	50.848	12.003	36.63	36.63	36.63	36.63	36.63
Devt.	GoU	83.06	17.387	83.00	83.06	83.06	83.06	83.06
	Ext Fin.	133.36	0.000	142.33	142.33	142.33	142.33	142.33
GoU Total		142.804	31.643	128.53	128.53	128.53	128.53	128.53
Total GoU+ Ext Fin (MTEF)		276.164	31.643	270.86	270.86	270.86	270.86	270.86
A.I.A		0.000	0.000	0.00	0.00	0.00	0.00	0.00
Grand Total		276.164	26.99	270.86	270.86	270.86	270.86	270.86

PROGRAMME Strategy and linkage to the National Development Plan III

P1: PROGRAMME OVERVIEW

ITDTP is a central programme out of the eighteen NDPIII national level programmes. All the other programmes rely on technology, engineering, innovation and science to enhance productivity and competitiveness at whatsoever level. This programme is intended to spear head industrialisation in all other sectors of the economy. However, for this to be achieved, the following constraints will be addressed that currently exist. i) Absence of formal mechanisms put in place to facilitate technology transfer; ii) Dismal country's investment on STEI; iii) Absence of well organised incubation and technology parks to facilitate innovation and technology development; and iv) Nonexistence of formal established mechanisms linking universities and research institutions with industry to facilitate development and commercialization of new innovations.

The programme equally fits within the National, regional and continental aspirations as depicted in the NDPIII, Uganda Vision 2040, East African Vision 2050, the Science technology and Innovation strategy for Africa (STISA), the Africa agenda 2063 and the SDG 2030 agenda

Snapshot of Medium Term Budget Allocations

PROGRAMME Strategy and linkage to the National Development Plan III

NDPIII Objective	Strategies for achieving objectives	National Level programme for achieving the objective (s)
1. Enhance value addition in Key Growth Opportunities	<ol style="list-style-type: none"> 1. Promote agro-industrialization 2. Increase local manufacturing activity 3. Promote mineral-based industrialization 4. Harness the tourism potential 5. Promote export-oriented growth 	<ol style="list-style-type: none"> 1. Agro-Industrialization 2. Mineral based Industrialization 3. Petroleum Development 4. Tourism Development 5. Water, Climate Change and ENR Management
2. Strengthen private sector capacity to drive growth and create jobs	<ol style="list-style-type: none"> 6. Provide a suitable fiscal, monetary and regulatory environment for the private sector to invest 7. Increase local content participation 	<ol style="list-style-type: none"> 6. Private Sector Development 7. Manufacturing 8. Digital Transformation
3. Consolidate & increase stock and quality of Productive Infrastructure	<ol style="list-style-type: none"> 8. Institutionalize infrastructure maintenance 9. Develop intermodal transport infrastructure 10. Increase access to reliable & affordable energy 11. Leverage urbanization for socio-economic transformation 	<ol style="list-style-type: none"> 9. Transport Interconnectivity 10. Sustainable Energy Development 11. Sustainable Urban Development
4. Increase productivity, inclusiveness and social wellbeing of Population.	<ol style="list-style-type: none"> 12. Improve access and quality of social services 13. Institutionalize HR planning 14. Enhance skills and vocational Development 15. Increase access to social protection Promote STEI 16. Promote development oriented mind-set 	<ol style="list-style-type: none"> 12. Human Capital Development 13. Community Mobilization and Mind-set Change 14. Innovation, Technology Development & Transfer 15. Regional Development
5. Strengthen the role of the State in development	<ol style="list-style-type: none"> 17. Increase govt. participation in strategic sectors 18. Enhance partnerships with non-state actors for effective service delivery 19. Re-engineer Public service to promote investment 20. Increase Resource Mobilization 	<ol style="list-style-type: none"> 16. Governance and Security 17. Public Sector Transformation 18. Development Plan Implementation

Table P1.2 PROGRAMME OUTCOMES AND OUTCOME INDICATORS

PROGRAMME OUTCOMES	OUTCOME INDICATORS
Increased innovation in all sectors of the economy	Proportion of programs integrating Science, Technology and Innovation (STI).
Enhanced development of appropriate technologies	Proportion of the population using appropriate technologies
Increased R&D activities	Proportion of new Research and Development (R & D) products.
Increased utilization of appropriate technologies	Percentage increase in the utilization of appropriate technologies
An enabling environment for STEI created	-

P2: INTERMEDIATE OUTCOMES, OUTCOME INDICATORS AND PROPOSED BUDGET ALLOCATIONS ALIGNED TO THE NDP

Table P2.1: Intermediate Outcomes and Outcome Indicators Aligned to the NDP

NDP III Programme Name: Innovations, Technology Development and Transfer Program							
NDP III Programme Outcomes contributed to by the Intermediate Outcome							
<ol style="list-style-type: none"> 1. Increased innovation in all sectors of the economy 2. Enhanced development of appropriate technologies 3. Increased R&D activities 4. Increased utilization of appropriate technologies 							
Sub Programme 01: Regulation							
Sub Programme Objectives: To develop and ensure compliance to Science, Technology and Innovation of Regulations, Standards and Guidelines							
Intermediate Outcome: Increased compliance to National Science, Technology and Innovation Standards and Guidelines							
Intermediate Outcome Indicators		Performance Targets					
	Base year	Baseline	2021/22	2022/23	2023/24	2024/25	2025/26
Proportion of sectors integrating Science, Technology and Innovation (STI).	2017/18	-	10%	18%	23%	25%	30%
Sub Programme 02 : Research and Innovation							
Sub Programme Objectives: To Increase Research, Innovations and development of appropriate Technologies							
Intermediate Outcome: Increased Research, Innovations and development of appropriate Technologies							
Proportion of the population using appropriate technologies	2017/18	-	0	0.1	0.15	0.2	0.25
Proportion of new Research and Development (R & D) products.	2017/18	-	5%	7%	12%	15%	20%
Sub Programme 03 : Technoprenurship							
Sub Programme Objectives: To increase the utilization and adoption of appropriate technologies							
Intermediate Outcome: Increased utilization of appropriate technologies							
Increased utilization of appropriate technologies	2017/18	-	5%	8%	12%	15%	20%
Sub Programme : Uganda Industrial Research Institute							
Sub Programme Objectives:							
<ol style="list-style-type: none"> 1. To undertake applied research for the development of products and optimal production processes, for Uganda's nascent industry 							

2.	To develop/ or acquire appropriate technology, in order to create a strong, effective and competitive industrial sector
3.	Act a bridge between academia, government and private sector with respect to commercialization of innovation and research results
4.	Spearhead value addition activities in conjunction with national development priorities
5.	Lead the national effort in technology transfer and technology diffusion, to assure the development of appropriate technologies
Intermediate Outcome:	
1.	Increased technological and science uptake in development
2.	More technologies adopted
% uptake of new and emerging Technologies	2017/18 - 5% 10% 15% 20% 25%

Table P2.2: Medium Term Projections by Sub-Programme

<i>Billion Uganda Shillings</i>	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
	Approved Budget	Proposed Budget				
Sub-Programme						
Regulation	4.298	1.548	1.548	1.548	1.548	1.548
Research and Innovation	193.295	199.15	199.15	199.15	199.15	199.15
Technpreneurship	4.075	1.325	1.325	1.325	1.325	1.325
General Administration and Planning	51.024	45.412	45.412	45.412	45.412	45.412
Uganda Industrial Research Institute	24.027	23.43	23.43	23.43	23.43	23.43
TOTAL FOR THE PROGRAM	276.164	270.865	270.865	270.865	270.865	270.865

P3: PROGRAMME INTERVENTIONS FOR 2021/22

1. National Research agenda operationalized and disseminated to stakeholders.
2. Bio economy policy finalized and disseminated to National and Local Government stakeholders
3. 100 Innovators of all categories Supported to acquire IPRs across the Country
4. Detailed designs for the construction of the National Automotive Park developed and construction initiated;
5. Indigenous knowledge policy formulated. The policy will be aimed at safeguarding the diverse indigenous knowledge systems including for ethnic minorities.
6. Civil works and construction of the National Science, Technology, Engineering and Innovation Centre (NSTEIC) and Technology Innovation and Business Incubation Centre in Kiruhura & Mukono district respectively
7. Feasibility studies for the NDPIII ITDTP core projects (Science and Technology Parks project and the Technology and business incubators projects) conducted
8. A national STEI infrastructure strategy Developed
9. Apprenticeship program for Science and Technology developed targeting graduates and informal sector
10. Develop the IPRs Management strategy for Public Funded Research and Innovation
11. Enhance research on the Sweet Potatoes value chain.
12. National Research Registration and Clearance Guidelines reviewed.
13. Technology development and transfer policy developed
14. National Research and Development Survey undertaken
15. Science, Technology and Innovation Statistical Abstract developed
16. Disseminate the Ministry Client Charter to all Ministry Stakeholders (*Academia, Innovators, Local Governments, Civil Society*)
17. Construction and equipping of the Sericulture Research and Technology Transfer Centers in Mukono Sheema and Bukedea
18. Silk industry Policy Developed.
19. National STEI Advancement and Outreach Strategy with inclusion of hard to reach regions and disabled Persons developed
20. Develop STEM apprenticeship initiative to bridge the gap between tertiary education graduates and the private sector
21. Finalise guidelines for integration of ST&I in Government Programs spanning across key Program stakeholders
22. Develop Science, Technology and Innovation Gender program Strategy
23. Developing and strengthening the abilities of our incubatees to thrive in business

Programme Challenges in addressing gender and equity issues for FY 2021/22

- i. Attitude and mindset change about G&E expectations/interventions to emphasize the relevance and importance to mainstream G&E beginning with actors within the program of STEI
- ii. Absence of G&E disaggregated data for decision making. There should be a deliberate effort to produce G&E statistics
- iii. A clear format on the reporting on G&E mainstreaming interventions

- iv. Inadequate capacity of the staff to mainstream G&E interventions. There is need to undertake trainings in the different core areas of G&E mainstreaming to equip the staff

1. Increased innovation in all sectors of the economy	1. STEI operational framework established.
	2. Technology Business Incubation (TBIs) established and operationalized including training centres.
	3. Engineering machining, manufacturing and skills enhancement centres established
	4. Science Centres for STEI advancement and promotion established
	5. Strategies for specific emerging technologies developed
	6. Emerging technology regulations and guidelines developed
	7. R & D laboratories (centers of excellence) established
	8. UN Innovation Lab for Least Developed Countries (LDCs) established
	9. Green incubation facilities for integrated production constructed and equipped
	10. Operational Science and Technology Parks
	11. Operationalize R&D facilities
	12. Biosciences centers established
	13. Virus research Infrastructure developed
	14. Material science and nano technology centers established
	15. Space Science and Aeronautics Technology Exploited
	16. Indigenous knowledge institute established
	17. Documentation of traditional Knowledge (TK)
	18. Climate Research and Technology institute established
	19. Nuclear Science, Research and Development Centre established
	20. Automotive industry parks established
	21. Banana industry infrastructure park established
	22. Sericulture industry infrastructure established
	23. Silk processing facilities established.
	24. Increased funding for technology development & transfer
	25. Increased private sector investment in STEI
	26. Government funding to Innovation, Research and development Increased
2. Enhanced development of appropriate technologies	1. A National STEI Advancement and Outreach Strategy developed
	2. STEI education and training needs in the national curriculum integrated
	3. Intellectual Property integrated in the curriculum for tertiary and higher learning institutions
	4. Practical skills development programmes in place
	5. Special academic programs in emerging areas of Science and technology developed and implemented
	6. STEI mainstreamed in all 18 programmes
	7. Strong institutional coordination framework established
	8. Human Resource capacity in the IP value chain developed
	9. Informal Business Sector- Juakalis supported with appropriate technology business skills
	10. Apprenticeship Programmes for Informal sector "artisans, technicians" developed

3. Increased R&D activities	1. Functional systems and frameworks developed
	2. IP support infrastructure established
	3. Utilization of the IP system enhanced
	4. Intellectual Property value chain (generation, protection, commercialisation & Enforcement) enhanced.
	5. A national STEI information management systems developed.
	6. Sector R&D investments coordinated
	7. Increased STEI collaborations at the different levels
	8. Increased R&D in new emerging and re-emerging areas
	9. Additional critical multi hazard early warning and disaster systems information provided through local satellites
	10. National Innovation and IP survey conducted
	11. Technology Action Plan in place for Industrial and Energy sectors
	12. Policy and regulatory framework for a national technology and innovation ecosystem for the selected sectors strengthened
4. Increased utilization of appropriate technologies	1. National Technology Transfer Strategy developed
	2. Local and international partnerships and cooperation on technology transfer signed
	3. Identified commodities commercialized
	4. domestic products and services Standards developed
	5. STEI think tank established
	6. public investment in technology transfer and adoption Increased
5. Improved policy, operational and investment environment for STEI	1. International conventions, agreements and treaties on STEI domesticated
	2. STEI Policies, laws and regulations developed
	3. Research certification, clearance and accreditation system improved
	4. Multisectoral programme and multilateral collaborations framework developed
	5. Programme administrative and operational costs met
	6. Programme working group operationalised
	7. Programme monitoring and Evaluation reports prepared
	8. Program reviews, evaluations conducted
	9. Programme Strategic, annual planning and budgeting conducted

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