UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT

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SCIENCE, TECHNOLOGY & INNOVATION **POLICY REVIEW**





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- **Two dots (..)** indicate that data are not available or not separately reported. Rows in tables have been omitted in those cases where no data are available for any of the elements in the row.
- **A hyphen (-)** indicates that the item is equal to zero or its value is negligible.
- A slash (/) between dates representing years for example 2009/10 indicates a financial year.
- Use of an en dash (-) between dates representing years for example 2008–2010 signifies the full period involved, including the beginning and end years.
- Reference to "dollars" (\$) means United States dollars, unless otherwise indicated.
- Annual rates of growth or change, unless otherwise stated, refer to annual compound rates.
- Details and percentages in tables do not necessarily add to totals because of rounding.

Preface

The Science, Technology and Innovation Policy (STIP) Review of Uganda was prepared on the request of the Ministry of Science, Technology and Innovation of Uganda.

Ugandan development aspirations require that its national science, technology and innovation (STI) plans and programmes make an effective contribution to its social and economic development. Strengthening national innovation performance is required to improve the competitiveness of Ugandan firms and industries competing in the global economy. Furthermore, like all other countries, Uganda is facing the challenges of Agenda 2030 for Sustainable Development and its 17 Sustainable Development Goals (SDGs). Here, as well, technology and innovation are increasingly important factors of success.

The Review has three fundamental goals. Its first goal is to offer Uganda an assessment of activities and institutions that make up its STI ecosystem. The second goal is to draw attention to the main STI policy challenges and enhance institutional capacity for policy design and deliver through capacity building activities. Special attention has been placed on the agriculture and information and communication technologies (ICTs). The third goal is to provide recommendations for strengthening STI policies and propose measures that may improve national technological capacities and encourage innovation.

During visits to Uganda, the STIP Review team held 60 interviews and meetings with representatives of government agencies, research institutes, universities, chambers of commerce and businesses. A draft of this document was presented and discussed at a series of national workshops held in Kampala between 9 and 12 December 2019, with the participation of more than 100 experts and national STI stakeholders. The feedback and suggestions provided have been considered in the preparation of this review.

This review would not have been possible without the cooperation of the Ministry of Science, Technology and Innovation of Uganda and, in particular, Honourable Minister Dr. Elioda Tumwesigye and Permanent Secretary David O. Obong. A special appreciation is owed to the Ministry STIP team, led by Assistant Commissioner Jennifer Muwuliza. Gratitude is also extended to all participants in the national workshop and to the persons and entities, too numerous to list, that generously contributed their comments and ideas. Special thanks go out to colleagues at UNESCO, and from UNDP and UNIDO in Kampala, collaborating and assisting on the Review and related activities.

While national partners, counterparts and experts in Uganda may have advised on its content, they may not necessarily concur with the entirety of the STIP Review's analysis and recommendations. The data cited in the Review is established by UNCTAD research staff. The assessments, opinions and conclusions expressed in this document are entirely those of the UNCTAD secretariat.

Abbreviations

AI	Artificial intelligence
ASDSIP	Agricultural Sector Development Strategy and Investment Plan 2010/11-2014/15
ASSP	Agriculture Sector Strategic Plan 2015/16-2019/20
ATIS	The Alliance for Trade in Information and Technology Services
BBL	Billions of barrels
BPO	Business process outsourcing
Btu	British thermal unit
BTVET	Business, Technical, Vocational, Education and Training
CNDPF	Comprehensive National Development Planning Framework
COMESA	Common Market for Eastern and Southern Africa
CRISPR	Clustered regularly interspaced short palindromic repeats
CURAD	Consortium for Enhancing University Responsiveness to Agribusiness Development
EAC	East African Community
EU	European Union
FTBIC	Food Technology and Business Incubation Centre
GCF	Green Climate Fund
GCI	Global Competitiveness Index
GDP	Gross domestic product
GEM	Global Entrepreneurship Monitor
GERD	Gross domestic expenditure on research and development
GGDS	Uganda Green Growth Development Strategy 2017/18-2030/31
GII	Global Innovation Index
GPS	Global Positioning System
GSM	Global System for Mobile Communications
ICT	Information and communication technology
IMF	International Monetary Fund
INSEAD	Institut Européen d'Administration des Affaires
IP	Intellectual property
IPRs	Intellectual property rights
ISO	International Organization for Standardization
ITC	International Trade Centre
ITU	International Telecommunication Union
IUCT	Uganda Institute of Information and Communication Technology
LDC	Least Developed Countries
LED	Light-emitting diode
MAAIF	Ministry of Agriculture, Animal Industries and Fisheries
MGLSD	Ministry of Gender Labour and Social Development
MIIC	Makerere Innovation and Incubation Center
NDP II	Second National Development Plan 2015/15-2019/20
NGO	Non-governmental organization
NIF	National Innovation Fund
NITA	National Information Technology Authority
NRI	Networked Readiness Index

NSI	National system of innovation
NSSF	National Social Security Fund
NSTP	National Science, Technology and Innovation Plan
OWC	Operation Wealth Creation
PIBID	Presidential Initiative on Banana Industrial Development
RASA	Real Agricultural Solutions for Africa
RCDF	Rural Communications Development Fund
RCIP	Regional Communication Infrastructure Program
SDGs	Sustainable Development Goals
SSA	Sub-Saharan African region
STEM	Science, technology, engineering, and mathematics
STI	Science, technology and innovation
STIP	Science, technology and innovation policy
TALEN	Transcription activator-like effector nuclease
TFP	Total factor productivity
TNA	Technology needs assessment
UBOS	Uganda Bureau of Statistics
UCC	Uganda Communications Commission
UDB	Uganda Development Bank Limited
UETCL	Uganda Electricity Transmission Company Ltd.
UIRI	Uganda Industrial Research Institute
UNBS	Uganda National Bureau of Standards
UNCST	Uganda National Council for Science and Technology
UNCTAD	United Nations Conference on Trade and Development
UNDP	United Nations Development Programme
UNEP	United Nations Environment Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNFCCC	United Nations Framework Convention on Climate Change
UNFPA	United Nations Population Fund
UNHCR	United Nations High Commissioner for Refugees
UNIDO	United Nations Industrial Development Organization
URSB	Uganda Registration Services Bureau
US	United States of America
USAID	United States Agency for International Development

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