



ANNOUNCEMENT OF THE

**8th ANNUAL NATIONAL SCIENCE, TECHNOLOGY AND INNOVATION
CONFERENCE AND EXHIBITIONS**

DATES: 14TH – 16TH JUNE 2023

LOCATION: Dar es Salaam [Julius Nyerere International Conference Centre]

CALL FOR PAPER ABSTRACTS AND EXHIBITIONS

Theme: Science, Technology and Innovation for Sustainable Development

“Sayansi, Teknolojia na Ubunifu kwa Maendeleo Endelevu”

Introduction

The 8th Annual National *Science, Technology and Innovation Conference and Exhibitions* (STICE) bring together researchers, academicians, innovators, entrepreneurs and inventors from the public, private sectors and policy/decision makers from various disciplines to share experiences and deliberate on how science, technology and innovation can contribute to the attainment of Tanzania's National Development Vision 2025. Tanzania's five years economic trajectory for the 2021/22 – 2025/26 emphasizes on building a competitive economy and industries for human development.

The objectives of STICE

The STICE offers a platform for:

1. Scientific dialogue and exhibition of technologies and innovation products and services;
2. National leaders to meet with scientists, researchers, policy makers, innovators, funders, development partners and industry players;
3. Exchanging information and experiences among scientists, technologists and innovators working in various fields;
4. Private- public policy dialogues on the utilization and application of science, technology and innovation;
5. Updating the public on the status, trends and opportunities of STI;
6. Providing evidence to the policy and decision makers on STI findings in various sectors.

Conference & Exhibition Participants

The Conference and Exhibitions are open to both Tanzanian and non-Tanzanian STI communities of practice including scientists, researchers, academicians, innovators, private sector, public institutions, regulators, Ministries, development partners, civil society, media, policy makers, industry and the general public.

The Conference Theme

The Conference theme is: '*Science, Technology and Innovation for Sustainable Development*'. This theme intends to provide linkages between science and industry, creating new strategies to improve livelihoods while ensuring sustainable use of resources.

Sub-themes

i. Nation's Preparedness for the 4th industrial revolution

The 4th industrial revolution (4IR) technologies bring in unprecedented positives and negatives that impact economies of nations. It requires country preparedness to benefit from the associated potentials and opportunities for socio-economic development. Science, Technology and Innovation (STI) has a critical role to help sectors of the economy to leverage 4IR technologies like artificial intelligence (AI), machine learning, robotics, additive manufacturing (3D printing), the Internet of Things (IoT) and Big Data. Others are Unmanned Aerial Vehicles (UAVs/Drones), distributed ledger technology (DLT) or blockchain, 5G connectivity, Augmented and Virtual Reality and quantum computers. A critical anticipation is the—integration of the emerging technologies with biotechnology, nanotechnology and cognitive, social and humanitarian sciences (known as convergent and nature-like technologies). Researchers and innovators from various sectors play pivotal roles in harnessing technological revolutions into usable products, services and solutions. Hence, COSTECH invites researchers, innovators, tech-primeurs, investors and development partners to contribute on which actions should be taken to prepare with 4IR effects. The contributions to this sub-theme should focus on responding to the following or related questions: -

1. What are the major impediments and challenges Tanzania and other developing nations face while trying to deploy 4IR technologies?
2. How do we address these challenges and bring opportunities offered by 4IR technologies?
3. What are the avenues that Tanzania and developing countries can explore to lead the way in decarbonization?
4. Which local actors can act as catalysts for an inclusive and gender responsive digital transformation in Tanzania?
5. What interventions are necessary to enable 4IR-led technologies leapfrogging to occur in Tanzania?

ii. STI for green, resilient and inclusive economy

STI is intended to guide society towards sustainable development by offering inputs including knowledge, processes, approaches, services and products relevant for solving a number of existing challenges in the economy. Such inputs include not only those addressed on United Nation Sustainable Development Goals (SDGs) 6&7 but also that encourage use of STI to promote green resilient economy without leaving behind disadvantaged groups. We invite papers and exhibitions that provide approaches, services, and products or use of technologies including those from research and innovations, which contribute in:

1. Increased access to clean and safe water;
2. Access to affordable and clean energy and technologies;
3. Facilitating or leading to improved product development support, technical assistance;
4. Translating the research and innovation initiatives with potentials for new solutions or that translate into creation of new employment opportunities;
5. Marketing and linkage of different business-service public and private entities, agents and players including disadvantaged groups;

6. Solving climate issues and or adding value to green and safe, productive environment for resilient and inclusive economy.

iii. Innovation for human development

Innovation plays a crucial role in the growth and human development. During this era of globalization, the critical role of innovation is to come up with new ideas and technologies suitable for solving human problems and enhancing the human capacity to act. Basically, innovation includes not only technologically new products and processes but also improvements in areas such as transportation, distribution, marketing, and other social services, which in turn foster human development. To facilitate and improve human development, innovation should lead to socio-economic transformation, poverty reduction, and improve industrial production and socioeconomic income. Contributions to this sub-theme should focus on the following areas;

1. Original research or review papers or posters on products and services development that incorporate human design to solve development challenges;
2. Creative and affordable solutions to disadvantage groups that enhance participation in economic activities;
3. Technology based products and services that enhance productivity.

iv. Contribution of Traditional Knowledge in STI development in Tanzania

The traditional knowledge (TK) and systems are critically important in understanding and addressing complex challenges and opportunities in the STI ecosystem. It provides solutions to problems in health, agriculture, environment, nutrition, transportation, environment, oil & gas, climate change, etc through developing different new technologies using local available resources. In Health sector, the role of TK has been recognized in most of medicinal uses that has helped to develop new drugs for human and animal use. For instance, during the outbreak of COVID 19 pandemic the use of medicinal products received a great attention and the remedy was observed to be more effective in most of Tanzanian society.

For agriculture sector, the TK has helped farmers to practice organic farming that led to increase the quality of agricultural products as well as to enhance the conservation of soil fertility. Likewise, for the case of Economic sector, TK helped to increase business and employment opportunities through production of household goods such as food, nutrition products, cosmetics and the likes, which attracted market opportunities locally, regionally, and internationally. Similarly, for the environmental sector, the traditional practices have always taken strong interest in preserving and protecting the natural ecosystem such as biological resources including the use of flora and fauna.

Despite the above-mentioned importance, there is still a challenge in effectively promoting, preserving and utilizing these traditional knowledge, innovations and practices in the country. Multi sectoral research and innovations to foster the application of Traditional Knowledge and practices for better health care; food security; environment protection and management; natural resources stability to improve the well-being of the people are encouraged. We therefore invite researchers and innovators to submit abstracts and participate in exhibitions to address the following:

1. How best does the knowledge, skills and practices can be promoted, protected and utilized for STI transformation in Tanzania;

2. Blending between traditional and modern knowledge and technologies applications to provide solutions to societal challenges.

v. ***Open Science and policy interface***

Open science and policy interface can be a core instrument to support well-informed decision making on all political, social, and economic activities. The interface between evidence and use of evidence for decision making needs to be framed by an effective and efficient governance structure to promote research processes and outputs more transparent and accessible in order to enhance the uptake of results by policy and society at large. In fact, open science is not only about sharing research outputs, but also taking the scientific discoveries and innovations outside the walls of universities and becoming transdisciplinary and heterogeneous to the extent that the knowledge developed from it is able to impact communities through policy formulation. We, therefore, invite researchers and innovators to submit abstracts and exhibition briefs that focus on bridging the gap of the linkages between science, policy, and practice but are not limited to the following areas;

- Open science and policy interface as a discursive process between researchers and policymakers;
- Scientific results are to be transparent and reproducible for establishing effective relationships necessary for democratization and public engagement that integrates the needs of policymakers;
- The collaboration of scientists and policymakers in searching for the best solution to the problems facing society;
- Science and scientific knowledge are to be spontaneously and rapidly mobilized to cope with the diverse aspects of policies for the country's development;
- Science is to be reinforced by the unprecedented sharing of ideas and data within and beyond the scientific community and across the public and private interface through policy formulation.

Instructions to authors

Presentations Language

The official language of the conference is English. Paper presentations will be 20 minutes in length including discussion and questions.

All presentations must be sent to the Conference organizers by email prior to the conference opening to stice2023@costech.go.tz

Please submit your PowerPoint presentation by **30th May 2023**.

Posters may be prepared in either English or Kiswahili. There will be a special session for poster presentations. Remember that, all posters will be displayed during the entire Conference period.

Submission of Paper and Poster Abstracts

Authors wishing to present papers/posters should submit online abstracts not exceeding 300 words using Times New Roman (font) and 12 (font size) through stice.costech.or.tz or www.costech.or.tz/stice. Abstracts should include: Title, name(s) of the author(s) and detailed address, background, objectives, summary of research methodology, results, conclusions and key

policy messages. Review papers are also accepted. **The deadline for submission of abstracts is 15th January 2023. Decision of the Organizing Committee will be communicated to authors by 30th January 2023.**

Guidelines for Authors

Oral presentations: Projectors will be available but presenters are advised to bring their presentations in pdf format and load them in the appropriate conference room; 3 hours before presentation time. Presentations are expected to take not more than 20 minutes in total that time includes discussion and comments.

Submission of Full Papers

The conference organizers intend to produce a peer reviewed conference proceeding that will be registered with ISSN and get published. In addition, authors wishing to submit full papers for publication in the East African community Peer Reviewed Journals like EAJSTI should do so through stice.costech.or.tz or www.costech.or.tz/stice by **3rd April 2023**.

Preparation of Manuscripts: The organizing committee requests that all authors who would wish to publish their papers whether in the conference proceeding, or potential peer reviewed journals they have to submit the papers in the following format.

- MS Word compatible format.
- The *abstract* should be 300 words and include a brief statement of the objectives of the study, the methodology used, and the overall results and conclusions.
- The entire manuscript should not exceed 3,000 words and should be typed in double space.
- The manuscript is your own original work, and does not duplicate any other previously published results, including your own previously published work.
- The manuscript should be not under consideration or peer review or accepted for publication or in press or published elsewhere.
- The senior author must ensure that the work has not been previously published, is not under consideration for publication elsewhere, and has been approved for submission by all its listed co-authors and the institution(s) in which the work was conducted.
- It is the responsibility of the author(s) to obtain copyright permission to reproduce tables or figures published elsewhere and to ensure the correctness of all references.
- We suggest that authors to have their manuscripts checked by a proficient English speaker before submission or by a third-party editorial service. This is optional but will help to ensure that any submissions that reach peer review can be judged on academic merit alone. Please note that the use of language editing services is voluntary and at the author's own expense. **Manuscript Content**

Manuscripts should be prepared according to the following guidelines:

- The *title* should be comprehensive and between 10-20 words.
- The *abstract* should be at most 300 words as stated in the abstract submission.

- *Keywords:* List 5-7 keywords covered in the paper, including the scientific names of the major organisms studied and any important chemical compounds.
- *Main text:* The main text should be divided into the following distinct sections: Introduction, Materials and Methods, Results, Discussion, Conclusion, Recommendations, Acknowledgements, and References.
- Please use the latest version of the American Psychological Association (APA) reference style. Only articles that have been published or are 'in press' (accepted for publication) should be referenced.

Tables

Tables should be numbered consecutively and typed in double-spacing and included at the end of the paper. Table titles should be self-explanatory without reference to the text. Nonstandard units of measurement should be defined in the footnotes to the Tables and at first mention in the text. The authors are requested to use 'insert option' while creating tables to allow editing.

Indicate in the text where the tables should appear.

Figures and illustrations

- Figures and illustrations used should be as small as possible, to ensure that users can download the papers quickly.
- The maximum number of Figures allowed per paper is 5 (five).
- It is recommended that the figures presented should follow the latest APA format

Manuscript submission

Papers should be submitted for publication, preferably in Microsoft Word (.doc), Rich Text Format (.rtf), *typed and double spaced* (including abstracts, tables, and figure legends) with 3 cm margins on right and left sides and printed in a legible font such as Times New Romans font size 12.

Citations

Accepted papers for journal publication are subject to checking, including use of the Plagiarism Checker. To avoid potential problems, please ensure that your submission has a Similarity Index of less than 25% and that all citations are fully disclosed at the point of submission.

Author checklist

Authors interested to submit manuscripts for publication should tick the checklist (Refer Pre-registration form) before they submit their full manuscripts. **Text**

- Title of paper
- The abstract is in English and includes keywords
- Citation of references in text conforms to specifications in Guide/Instructions to Authors
- Joint authors quoted as Ringo and Lusekelo, i.e. not Ringo & Lusekelo
- Journal titles are given in full and in italics at the reference list • References cited in the text must appear in reference list
- Measurements are in the (SI) metric system.

Figures

- The size of figures conforms to specifications in Guide/Instructions for Authors • Magnifications indicated by scale bars, not in the captions.

- Legends for figures are on a separate page.
- Abbreviations for figures fully listed and explained.

References

Reference style: Please use the latest version of the American Psychological Association (APA) reference style. Ensure that 40% of the references should be within the last 5 years.

Please submit your manuscripts with completed reference lists. They should include all the necessary information: author names, titles of publication, place of publication, date of publication, and page extents.

Exhibitions

Individuals, organizations or groups wishing to participate in exhibitions should submit summaries not exceeding 300 words on the aspect(s) to be displayed or submit the plan they would like to showcase. The summary should include:

- the title,
- name(s) of exhibitors
- a detailed address,
- background,
- objectives,
- functional description and end-use.

There will be an exhibition booth with size 3m by 3m and height of 2.56m; one table, two chairs and an electricity connection. Deadline for submitting a summary of what you will exhibit is **15th January 2023**.

Instructions for posters

- Posters are informal presentations featuring solutions to problems and innovative projects with lessons to share. Poster presentation topics should be described in text, graphics, photographs, illustrations etc.
- Posters must be written in English.
- The best configuration of your poster is A1 vertical (*841mm x 594mm*).
- Authors of accepted posters must attend the conference for the poster to be displayed and presented.
- Posters will be displayed in a designated space at the Conference venue. Display panels will be provided. Please bring your printed poster, as we are unable to provide printing service.
- Display panels for posters will be ready on 13th June 2023 and all posters should be put up before 10:30 AM.
- Personal laptop computers and visual display devices may be used at the poster display area. Should your presentation include a laptop or the use of other electronic devices, please inform us in advance.
- A final abstract for the poster as well as your profile will be published in the Conference programme and on COSTECH website.
- You will have the opportunity to present your poster to the audience within the conference programme: You will have two minutes for a quick intro – and to attract as much participants as possible to visit your poster at the poster exhibition.

Venue and dates

The Conference will be held in Dar es Salaam [Julius Nyerere International Conference Centre] from **14th – 16th June 2023**.

Registration fees

Registration fees cover costs for registration, conference package, conference bag, and programme for the conference. The conference webpage will provide guidance options for accommodation but the organizers will **NEITHER** cater for travel logistics **NOR** for accommodation arrangements for participants.

Registration fees can be deposited directly to the following Bank accounts **Tanzania Commission for Science and Technology (COSTECH), NMB, KARIAKOO BRANCH, AC No 20401100049** For Tanzanian currency (TZS) **and use NBC – FOREX AC No 012105018998** for foreign currency (USD). Early registration deadline is **14th May 2023**.

Category	Fee (USD) Non Tanzanian participant	Fee (TZS) Tanzanian participant
Early registration fee		
Online participation	50	50,000/=
Individuals	300	300,000/=
Students (Masters and below)	150	150,000/=
Exhibition (Companies/Private institutions)	-	-
3m X 3m	1,500	1,500,000/=
6m X 3m	2,000	2,000,000/=
Exhibition (Public institutions)		
3m X 3m	1,000	1,000,000/=
6m X 3m	1,500	1,500,000/=
Late registration fee		

Online participation	80	80,000/=
Individuals	350	350,000/=
Students (Masters and below)	200	200,000/=
Exhibition for companies		
3m X 3m	2,000	2,000,000/=
6m X 3m	2,500	2,500,000/=
Exhibition for Public institutions		
3m X 3m	1,500	1,500,000/=
6m X 3m	2,000	2,000,000/=

Important milestones

Final edits of the call for abstracts and exhibitions	18 th November 2022
Management approval of the call for abstracts and exhibitions	25 th November 2022
Announcements of the call for both scientific papers and exhibitions	1 st December 2022
Deadline for submission of abstracts	25 th January 2023
Review of Abstracts	17 th January 2023
Open registration	1 st February 2023
Feedback to applicants	3 rd February 2023
Deadline for submission of full scientific papers	3 rd April 2023
Review of scientific papers	5 th - 17 th April 2023
Feedback to applicants	20 th April 2023
Final submissions- of full papers	4 th April 2023

Early registration deadline	14 th May 2023
Book of Abstracts	30 th May 2023
End of registration	12 th June 2023
Other conference logistics	8 th June 2023
Conference dates	14 th – 16 th June 2023

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14TH – 16TH JUNE 2023**

**PRE-REGISTRATION FORM
(Also available at: STICE website)**

Family Name

Other Names.....

First Name

Position/Occupation

Title (Prof/Dr/Mr/Mrs/Ms/Miss)

Institution and Address City

/ Town....., Country Office

Telephone Mobile

..... Email

.....

Author/Exhibitor Checklist

A	Proof of payment attached (<i>tick</i>)	
B	Participation and Publication Plans (<i>tick</i>)	
1.	Paper presentation	
2.	Poster presentation	
3.	Exhibition	
NB	<i>In 1 above, (Tick) if you wish your Paper to be published in any of STI Peer Reviewed East African Journal under COSTECH supervision?</i>	
	Date.....	Signature.....

Return this form to:

The Secretariat, Conference Organizing Committee at the address below:

Fore more information, please contact:
The Secretariat, Organizing Committee 8th Annual National Science, Technology & Innovation Conference and Exhibitions
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