

NSF : Organizational Transformation 2023: 2024 and Beyond

Presented by
Dr. Sepalika Sudasinghe- DG/CEO National Science Foundation

To the Ministry of Education at the Progress Review meeting
on the 14th December 2023



Dashboard - NSF : Organizational Performance as at 30th November 2023

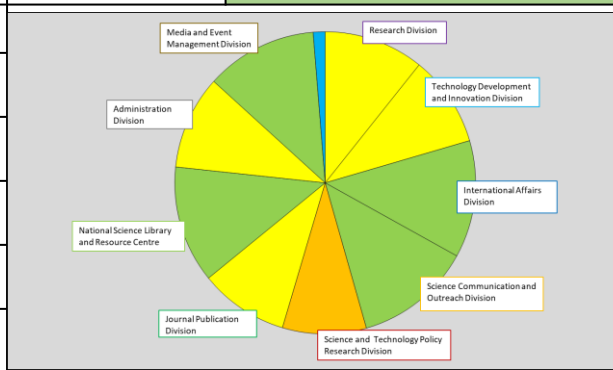
Division	Physical Progress
Research Division	85.61%
Technology Development and Innovation Division	77.78%
International Affairs Division	100%
Science Communication and Outreach Division	100%
Science and Technology Policy Research Division	71.86%
Journal Publication Division	76.11%
National Science Library and Resource Centre	100%
Administration Division	80%
Media and Event Management Division	95.69%
Overall performance	89.81% (90%)

Action Plan 2023 : KPIs

1. The Extent that the research base of Sri Lanka strengthened (in terms of grants awarded, institutions benefitted, scientists benefitted, MPhil/PhD produced, Scientist recognized)
2. The amount of new knowledge creation and technology development (in terms of Journal publications, patents granted/filled, Grants successfully completed, Technology transfers)
3. Extent of S&T information availability and usage
4. Extent of international partnerships facilitated in leveraging STI performance (in terms of trained R&D personnel, TVET sector personnel, cross boarder cutting edge knowledge transfer and international collaborative research)
5. Extent of STI indicators generated/updated in strengthening policy formulation
6. Enhanced level of promotion of STEM education with special attention to school community
7. Enhanced level of employee engagement
Reduced trouble shootings of IT equipment

Scale

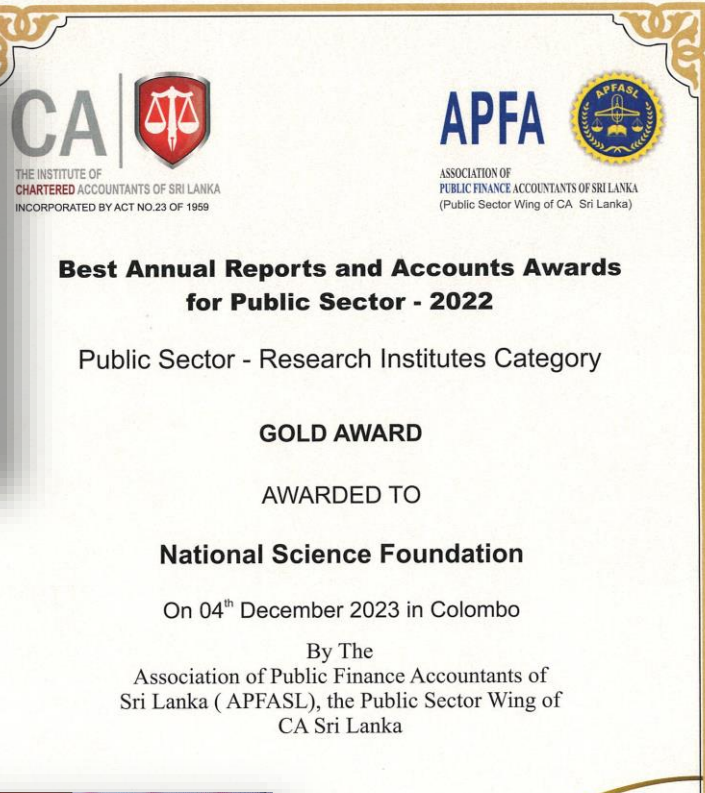
	Outstanding (over 90%)
	Excellent (75% - 89%)
	Very Good (60% - 74%)
	Good (50% - 59%)
	Satisfactory (40% - 49%)
	Poor (Below 39%)

Organizational Development

Level	Focus	Actions Taken	Status
Institutional level	Administration	Strategic Plan 2024- 2028	completed
		Dashboard for monitoring organizational performance	completed
		Procedural Manual- 2016	Ongoing
		SOPs of all Divisions	completed
		Filling of identified vacancies.	In progress
		NSF Financial Manual	In progress
		NSF Resource Management system	completed
	Management	Evidence based decision-making programme: research into practice	Ongoing
		NSF Web development Organizational Policy development. <i>i.e.</i> E mail - Policy	Ongoing
		Research Management System	Ongoing
Individual level	Staff Capacity building	NSF Talent Management programme 2022 (Year 2023 Foreign : 08 Local : 155 + Mandatory 31 = 194)	Ongoing

NSF : Organizational Performance as at 30th November 2023



NSF : 2023
Standards of Transparency,
Accountability, and Good Governance in
the Public sector.

NSF : 2023

Standards of Transparency, Accountability, and Good Governance in the Public sector.



- The performance of NSF shows that NSF is an outstanding organization
- Awards proves that NSF as a public organization maintains highest Standards of Transparency, Accountability, and Good Governance in the Public sector.



Highlights of the year 2023

➤ Commercialized grant outputs

NSF Gap filling grant on **purification of graphite**



Received the “DASIS” award and 2 gold awards at the “Sahasak Nimavum” award Ceremony-2022 organized by Sri Lanka Inventors Commission

NSF Technology grant on **fabrication of bioreactors to increase the biofertilizer production**



➤ Science Communication and Outreach

10 students (Best performers of NSF School Science Research Project Competition) and **03 teachers** (Winners of NSF best science popularization awards during 2019-2023), participated at **7th Belt and Road Teenager Maker Camp & Teacher workshop 2023** held in Chongqing, China.

- A programme to establish a community-based science society was established.
- Community outreach programmes (02) were conducted to take science to the community.
- Project on under-performing schools in the areas of STEM Education was initiated.
- Science popularization programs
 - Inspiring STEAM Educational Excursion (ISEE): beyond the school curriculum.
 - STEAM launching programme.
 - National Science Exposition 2023.



Journal of National Science Foundation
(3 issue of the volume 51 with 43 articles)



Earned US\$ 1250 as income during the year

Sri Lanka Journal of Social Sciences
(volume 46 issue 1 with 8 articles)



➤ Providing access to S&T databases

- Implementation of the Koha Digital Library Automation Software and implementation of Digital Repository at **Bhiksu University of Sri Lanka**, Anuradhapura
- Facilitated publishing of 1,700 articles in 221 journals issues and issued 1,668 DOIs in the **Sri Lanka Journal Online (SLJOL) Platform**.
- Development and implementation of an Online Membership Database for the **Sri Lanka Association for Advancement of Science (SLAAS)**.
- A proposal was submitted to **Sri Lanka Medical Library** to implement a Digital Repository.
- **Presidential Secretariat Digital Repository** is being implemented and will be completed by the 1st quarter of the next year.

Training and Capacity Building Programmes

- Hourly rate : USD 100 1 USD: LKR 333 (As at 01.12.2023)
- Funds saved/earning from training and capacity building, knowledge transfer, other interventions and overseas grants: USD 73,731.66 (LKR 24.55 Mn)
- Funds secured from Official Online Meetings hosted/attended: LKR 61,000 (USD 183.18).
- **Total amount of funds secured by IAD staff officers in 2023: USD 73,914.84
LKR 24.61 Mn**



➤ International corporation

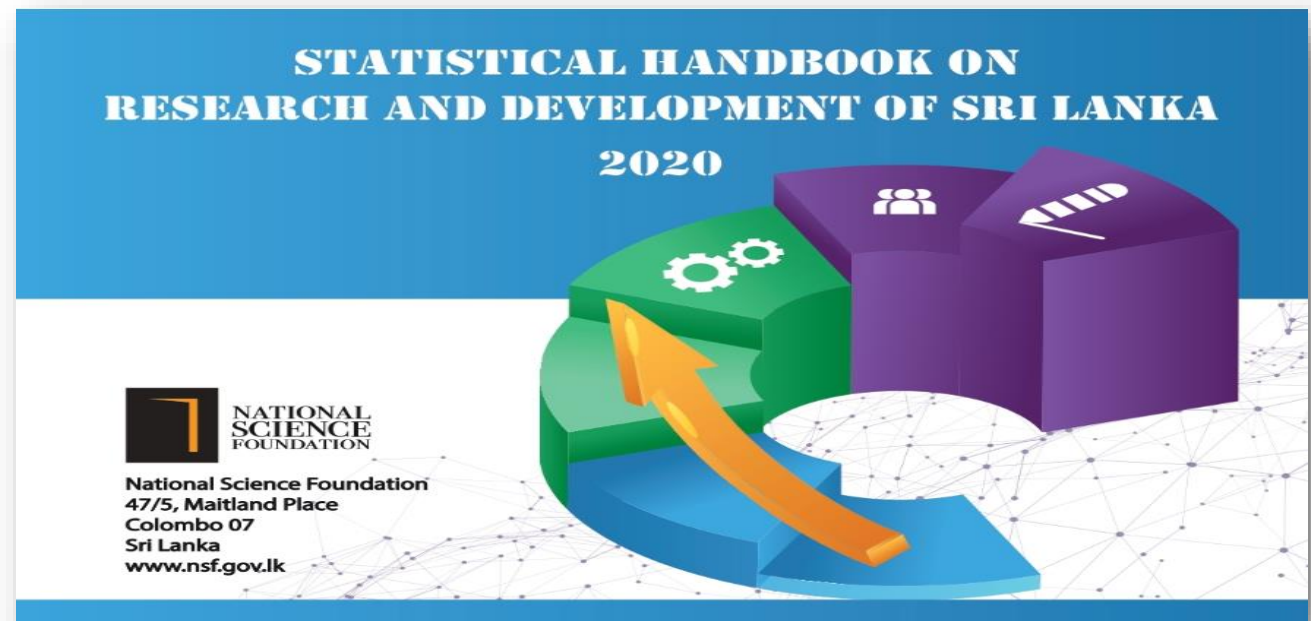
Despite of financial restrictions, IAD achieved an operational turnover to the tune of **LKR 24.6 million** through leveraging on global talent pool.

- Ten (10) collaborative linkages in research and capacity building established in the local Tertiary and Higher Education Sector.
- Overseas funds (**LKR 10 million**) were brought into Sri Lanka through ICGEB.
- Five cutting-edge knowledge transfer programmes were conducted.

➤ National R&D Survey

Published the R&D Statistical Handbook

2020



NSF Targets : 2024 (Strategic Plan/Mandate)

1. To enable economic development of the country by facilitating technology development, technology transfer, R&D commercialization and Start-Ups by allocating 60% of the total research budget of the organization (Main approach PPP).
2. To be the center of excellence for the collection , analysis, interpretation and dissemination of STI information whilst using modern ICT platforms enabling evidence-based decisions by allocating 9 % of the annual capital budget.
3. To Promote Science Education through STEAM based programmes covering 1/3 of the school community and programmes aimed at enhance science literacy of the people by allocating 15 % of NSF total estimated budget
4. Tapping the global talent pool through NSF Global Digital Platform to enhance performance of HEIs, support TVET institutions to infuse 4IR and to be the key gateway in promoting global partnerships and harnessing foreign funding for STI development.
5. Timely complete the national R&D survey, publication of R&D statistics and providing same to the UNESCO Institute of Statistics hence enhance global visibility of Sri Lanka's STI landscape.
6. To be an award wining organization through best practices of public sector, total budget allocated 14 %

VS

RED OCEAN STRATEGY

Compete in existing market space

Beat the competition

Exploit existing demand

Make the value-cost trade-off

Align the whole system of a firm's activities with its strategic choice of differentiation or low cost

BLUE OCEAN STRATEGY

Create uncontested market space

Make the competition irrelevant

Create and capture new demand

Break the value-cost trade-off

Align the whole system of the firm's activities in pursuit of differentiation and low cost



NSF : Strategic Plan

Committee:

Dr. Shantha Siri

Eng: Mahesh Dissanayake

Heads of Divisions.

Dr. Sepalika Sudasinghe

DG-NSF

NSF – New Website

Dr. Sepalika Sudasinghe
DG-NSF

Committee:

- Dr. Shantha Siri
- Dr Mahesha Nadugala
- Heads of Divisions
- Mr. Madhawa Perera (IT Manager)



Over 50 years of dedicated service to the development of Science, Technology and Innovation
An organization under Ministry of Education, Sri Lanka

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Strengthening National Research, Development and Innovation Eco-System

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- Hon. Minister of Education for creating a conducive environment for us to work.
- We are deeply grateful for the support and guidance of Secretary to the Ministry of Education and the Staff.
- We would like to acknowledge the invaluable assistance provided by the Additional Secretary (Development and Innovation) and the staff of Research and Innovation Division - Ministry of Education.
- I indebted to Board of Management – NSF , specially the Accountant & Administration NSF and for their unwavering support throughout the year 2023.
- I would like to extend my appreciation to NSF Staff who contributed to the success of this year 2023.

