



NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Graduation Programme

Theme:

"Advancing Knowledge and Technological Innovations for Sustainable Development"

SESSION 1:

**FACULTIES: COMPUTING AND INFORMATICS;
ENGINEERING AND THE BUILT ENVIRONMENT; HEALTH,
NATURAL RESOURCES AND APPLIED SCIENCES**

Date: Friday, 09 October 2026

Time: 07:30

Venue: Mercure Hotel (*formerly known as Safari Hotel*)



Academic Crest



The parts of the crest either represent national symbols or elements of a unique Namibian landscape and culture. the colours have been selected to represent the national spectrum, as influenced by the heritage from the Namibian flag:

Red: represents Namibia's most important resource, its people. It refers to their heroism and their determination to build a future of equal opportunity for all.

Blue: represents the clear Namibian sky, as well as the Atlantic Ocean, the country's precious water resources and rain.

Gold: represents life and energy (the sun).

Parts of the Crest

- 1. The Atom** is one of the most basic recognisable symbols of science. Positioned under the sun it symbolizes science and technology as the foundations of illumination at the University.
- 2. The Arch** is the threshold of knowledge. It is the gateway to the future and encourages a thirst for knowledge and discovery. Namibia becomes the threshold for new development - entering a new era.
- 3. The Ribbon** is derived from the diverse traditional cultures of Namibian dress, amongst the Damara, Herero, Himba and Owambo groups; it is an extension of the red band representing people. It is a symbol of achievement and prestige, and recognizes traditional cultures of pageantry. the ribbon epitomises flexibility and adaptiveness by which NUST exemplifies and enables its students to achieve higher knowledge.
- 4. The Sun** represents the outcome of scientific and technological innovation and enlightenment. Education is a form of discovery, energy and life that this symbol should highlight through its embodiment of the sun.
- 5. The Shield** is the symbol of learning institutions [traditional] - signaling tradition, strength and readiness.
- 6. The Red Band** represents the people and also blood, which gives life. People are the lifeblood of the University and country. It refers to their heroism and their determination to build a future of equal opportunity for all. the position of the red band represents 'crossing over the threshold'.

CONTENTS

Chancellor and Office Bearers	4
Executive Deans	5
Programme	6
Proceedings during the Ceremony	7
Undergraduate Qualifications	9
Higher Degrees and Postgraduate Qualifications	17



NUST COUNCIL AND OFFICE BEARERS

PROFESSOR PETER H KATJAVIVI**[CHANCELLOR]**

EXT-HIST/IR (Law and Politics); MA (Political Soc); DPhil (HIS and Intl Relations),
Honorary Doctorates (Honoris Causa) Joensuu University of Eastern Finland,
University of Bath (UK), University of Cardiff (UK) and University of Havana (Cuba)

DR LEAKE HANGALA**[CHAIRPERSON]**

Cert (Mgt); Cert (Exec Mgt, Adv Mgt Prog); BSc; MSc; and PhD
(Geology and Mineralogy)

MS PATRICIA J OLIVIER**[DEPUTY CHAIRPERSON]**

BSc; HDip (Edu); BBA Hon; MBA; MPhil (Mgt Coaching)

HON THOMAS I ADAMS

Cert (Supervisory Mgt); Dip (Markt)

MR MBUMBA E HAITENGELA

BAcc (Comm); MA (Pub Admin)

MR GERT MARITZ

BEng (Civil Eng); MEng (Pavement/Civil Eng)

MR ISAK NDIPWASHIMWE

BTech (Mech Eng); PGDBA; MBA (Mgt Strat); PhD (Bus Admin)
[candidate]

PROF BERNADETTE K MWIYA

Cert (Teaching Methodology); BBA; MBA; PhD (Bus Admin)

DR FIDELIS N MWAZI

Cert (Action Learning Leadership Prog); NDip (Natural
Resource Mgt - Agr); B.Tech (Agr Mgt); MSc (Geo-Info Sc &
Earth Observation (Sustainable Agri); PhD (Agri -Crop Sc)

HON MATHEUS A SHOONGO

MIR (Diplomacy and Mgt); BBA

MS JESSICA HAUANGA

HDip (Edu); MBA; Dipl (Math); PGDipl (Bus Admin)

MS FLORA F GAES

BJuris; LLB (Admitted Legal Practitioner of the High Court)

MR SHOKI S KANDJIMI**ALUMNI REPRESENTATIVE**

Cert (Digit Markt); CPRP; BJMT; BComm Hons; PGD (Mgt)

PROF FREDNARD GIDEON**[VICE-CHANCELLOR]**

BSc (Math and Physics); Bsc Hons (Appl Math); MSc (Math);
MBA (Strat Mgt); PhD (Appl Math, Banking and Fin: Risk Mgt
and Basel II); PhD (Bus Admin and Mgt)

PROF ANDREW NIIKONDO**[FORMER ACTING VICE-CHANCELLOR]**

Dip (Public Admin), BTech (Public Mgt), MA (Public Admin),
PDHE, PhD (Public Admin),

MS MIRIAM DIKUUA**[DEPUTY VICE-CHANCELLOR: FINANCE AND
OPERATIONS]**

BAcc, PDGA, CA, MComm (Acc)

PROF TERESIA KAULIHOWA**[DEPUTY VICE-CHANCELLOR: TEACHING AND
LEARNING]**

ND (Agric Econ); B. Econ; MA (Econ); PhD (Dev Fin)

PROF COLIN STANLEY**[DEPUTY VICE-CHANCELLOR: RESEARCH AND
TECHNOVATION]**

NDip (Software Eng), BTech Hons (Software Dev),
MSc (Comp Sci), PhD (Comp Sci)

MS SELMA HEELU**[ACTING REGISTRAR AND SECRETARY TO COUNCIL]**

BSc (Math); BSc Hons (Appl Maths); MPhil (Curriculum Studies)

PROF HARMONY MUSIYARIRA**SENATE REPRESENTATIVE**

BSc Hons (Met Eng); MSc (Eng); PhD (Eng)

DR GLORIA TSHOOPARA**STAFF REPRESENTATIVE: ACADEMIC**

ND (Mgt Asst), ND (Bus Admin), BTech BA, B Hons (Logistics),
SAP-ESEFA, MA (LSCM), PGCHE [CUM LAUDE], PhD (SCM)

MR EINO SHILONGO**STAFF REPRESENTATIVE: ADMINISTRATIVE**

Cert (Mgt Dev)

MR JEROME !NANUSEB**SRC PRESIDENT**

BCompt Sc

EXECUTIVE DEANS OF FACULTIES

FACULTY OF COMMERCE, HUMAN SCIENCES AND EDUCATION (FCHSE)

PROF EFIGENIA SEMENTE

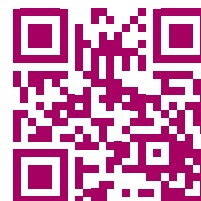
Cert (Innov and StratBus Mgt), Cert (First Aider), Dip (Sec),
Dip (Markt), BTech (Markt), PGCert (Higher Edu), PGCert
(Markt), MSc (Markt), MBA, PhD (Bus Admin)



FACULTY OF COMPUTING AND INFORMATICS (FCI)

PROF FUNGAI BHUNU SHAVA (ACTING)

BSc (Comp Sci & Maths), PGCHE, MSc (Comp Sci),
PhD (IT)



FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT (FEBE)

PROF HARMONY MUSIYARIRA

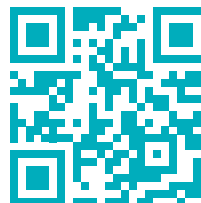
BSc Hons (Met Eng), MSc (Eng), PhD (Eng)



FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES (FHNRAS)

DR ONESMUS SHUUNGULA

BSc (Maths & Stats), BSc Hons (Maths), MSc (Maths),
PhD (Maths)





PROGRAMME

Date: Friday, 09 October 2026

Time: 08:00 - 12:30 **(Morning Session)**

Venue: Mercure Hotel

Presiding

Hon Prof Peter Katjavivi
Chancellor

Director of Ceremonies

Ms Kuda Brandt

Manager: Corporate Communications and Marketing

National and AU Anthems

Prayer

Mr Valentine Nel

Manager: Finance and Operations, HP-GSB

Constitution of the Congregation

Chancellor

Welcome Remarks

Prof Frednard Gideon

Vice-Chancellor

Statement

Dr Leake Hangala

Chairperson of the Council

Statement

Mr Jerome !Nanuseb

SRC President

Interlude

NUST Choir

Keynote Address

Hon Dino Balloti

*Deputy Minister: Education, Innovation,
Youth, Sports, Arts and Culture*

Address

Hon Prof Peter Katjavivi

Chancellor

Interlude

NUST Choir

Conferment of Qualifications

Chancellor

Presentation of Candidates

Prof Fungai Bhunu Shava, Acting Executive Dean: FCI

Prof Harmony Musiyarira, Executive Dean: FEBE

Dr Onesmus Shuungula, Executive Dean: FHNRS

Interlude

Stakes Boy

Confirmation of Conferred Qualifications

Chancellor

Closing Remarks

Director of Ceremonies

Dissolution of the Congregation

Chancellor

AU and National Anthems



PROCEEDINGS DURING THE CEREMONY

The Director of Ceremonies will direct the proceedings.

1. Candidates and guests must be **seated by 07:00**.
2. Gaudeamus Igitur song starts to play, the Academic Procession will enter the hall and the Congregation will rise and remain standing until directed by the Director of Ceremonies to be seated.
3. The Chancellor will constitute the congregation while the congregation is standing, and will also confer the qualifications.
4. The Executive Deans will present all candidates and their qualifications.
5. Awards will be conferred in absentia on those unable to attend the Ceremony.
6. The Chancellor will dissolve the Ceremony, and the Congregation will rise, and remain standing until the Academic Procession has left the hall.
7. Unauthorised photographs may not be taken.
8. All mobile telephones must be switched off or put on silent mode.
9. Whistles and other noise-amplifying instruments may not be used.

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UNDERGRADUATE QUALIFICATIONS



**FACULTY OF COMPUTING AND INFORMATICS****CANDIDATES PRESENTED BY THE EXECUTIVE DEAN: PROF FUNGAI BHUNU SHAVA****1. CERTIFICATE IN BIG DATA TECHNOLOGIES (NQF: 7)**

AMUTENYA Martin	ANGULA Anna M T
ELIFAS Immanuel K	FRANS Lucas
GABRIEL Wilhelmina B	HAMUNYELA Kemanguluko T
IYAMBO Mateus	IYAMBO Justina A N
KAKENDE Veronica S	KASHEETA Pandeni
MAFFEIS Marlon N	MASWAHU Lucky S
NAMAKALU Angelika S	NATANAEI Mateus N
NEEMA Eroby E	NGHINANANYE Filipus N
PENAVALI Patrick E	PRIMUS Alina S

2. CERTIFICATE IN ETHICAL HACKING AND INFORMATION SECURITY (NQF: 7)

INGO Alina N	IYAMBO Paulus
JOHANNES Josephina T	JONAS Sakeus
MUNDJELE Felix H E	NAMBAHU Martha T
NANGOLO Benson L	NASHIKU Matti A
NIKANOR Silas P	SANYAMBE Rosy M T
SIPEYO Mapeu	SYLVANUS Naftal N
ZERAUA Lourence M	

3. BACHELOR OF COMPUTER SCIENCE: COMMUNICATION NETWORKS (NQF: 7)

BEUKES Iven	HANGARA Xamira B
IYAMBO Eino S	JOHANNES Jonas
KADHILA Maria	KUFUNA Tangeni J
MHONE Magnus E	NGHISHUNA Abisalomo
SALOM Ndinomwene	SHIKULO Nestor N
SHILONGO Lazarus P	SHIPOPYENI Vendelirius
TAAPOPI Absalom B	

4. BACHELOR OF COMPUTER SCIENCE: SOFTWARE DEVELOPMENT (NQF: 7)

ABU-BASUTU Libang M	AMAKUTSI Herbert D
ANANIAS Esther S	BIRECH Shalom S J
CLOETE Louisiito L	DISHENA James E
GORA Kelvin T	HAIHAMBO Lineekela N T
HAIKALI Max P N J	HAILAPA Peter T H H
HAINGHUMBI Peneyambeko M	HANGO Christofine T
HIJARUNGURU Azor T J T	HUSSELMANN Keenan L
JANUARIE Mitchum W	KADHIKWA Esther N N
KATATA Helmat M	KNITTLE Jayden F
LINKS Kingston D	LOSPER Lenton D
LUIS Miguel N	MAFENYEHO Luswenyo A
MAGONGO Philippus K	MATARANYIKA Tashinga
MBIDI David N	MILUNDO Esdras S M
MOSES Elias T	MUDAU Alexandra A
MUYOBA Buchane B	NAIRENGE Joseph K
NAKUTWIMA Nixon B G	NAMANDJE Gotfried P
NASIMA Raszelda S	NGULU Esther O
NTESA Jojo	NWAGBARA Gospel C
ROSSNER Monteo M M	SANTANA Sander M L V D

SHAPOPI Phellep T	SHINDINGE Erastus P
SHIVOLO Mwachangi V	SHOOPALA Anette N
SYLVANUS Stephanus P	TAAPOPI Ndeshipanda T
ULAMBA Matheus K U	
5. BACHELOR OF COMPUTER SCIENCE: SYSTEMS ADMINISTRATION (NQF: 7)	
ALWEENDO Paulus	AMWAALWA Etuna
DIERGAARDT Juriene A	DUMENI Ndatungeumbo N N
ENGELBRECHT Frans	HANGULA Tangeni T P
KALUTE Kalorina S	KHOESEB Cecil J M
LUKAS Paulina	MUETUDHANA Levily M
NAMAKASA Erastus N	NAMHINGA Willibard P
NAMOLO Daniel M	NYELISO Likubangwa J
PHIRI Nduduzo T	SHIMBABA Andreas K
SHIYEMO Laurentius K M	STEVENS Marquez C
THOBIAS Shavuka M	UUSIKU Jonas I
6. BACHELOR OF COMPUTER SCIENCE IN CYBER SECURITY (NQF: 7)	
ALWEENDO Moondjoki L	AMADHILA Jonas H
DUMBA Mario C	ENGELBRECHT Leigh-Ann
GUO Jing H	HAMWELE Indileni T
HAUSIKU Ignatiah R	IIPUMBU Peter N
IYAMBO Maria N N	JOSEPH Simeon T
KALENGA Justina K	KAMATI Elizabeth N N
KAMBALANTU Gervasius T H	KAMWI Sililo J
KANDANGALA Fanuel N	KAPOFI Judith T N
KATHINDI Thobias I	KAULA Hendrina M
KRIANA Paulus H	MUKUSI Alvin L
MTOTA Pandula A	MUFAYA Junior B M
MUPATI Valombweleni S	MUTOMBO William W N
MWIYA Simataa C G	NAITEMBU Moses S
NAKALE Elizabeth W N	NAKAPUNDA Jackson T
NDAKOLO Likus N	NDEMUWEDA Linus T
NDEUNYEMA Jerry R N	RUSBERG Zelda M
SHAPANGE Shati-Omwene H	SHIKONDA Anna N
SHIKONGO Jonathan T J	SHIPOPYENI Peter S J
SHIVOLO Laina K	SHIVUTE Victor A
SIMON Kareb N	SMEER James T
VAN DER MERWE Georg	VAN TURAH Luke
WITBOOI Genesis M	



8. BACHELOR OF JOURNALISM AND MEDIA TECHNOLOGY (NQF:7)

[11]

**FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT****CANDIDATES PRESENTED BY THE EXECUTIVE DEAN: PROF HARMONY MUSIYARIRA**

1. DIPLOMA IN CIVIL ENGINEERING (NQF : 6)	
ANDREAS Andreas S	ANGULA Hope D
HASHINGOMBE Martha M	HAUFIKU Junias N
MUHIMBA Vena G N	NDAUMBWA Sylvia N
NYATI Teesma	SAKARIA Heskiel
UUSHUNGA Epafra P E	
2. DIPLOMA IN ELECTRONIC ENGINEERING (NQF: 6)	
SANGO Ornella R L	IHUHUA Beauty R T
3. DIPLOMA IN GEOMATICS (NQF : 6)	
AKUDHENG A Jeffrey M	AMUGONGO Gabriel Jr. P
HAUFIKU Ndahafa	SHIKONGO Elizabeth S N
SHILOMBOLANI Andreas N	TOROMBA Tuazuvirua B
VAN DER WALT Jaen G	WUSTROW Zan A N
4. DIPLOMA IN MECHANICAL ENGINEERING (NQF : 6)	
HANGO Johannes T J	KEIB Seong-Poy
GAINGOS Soreen	MAONGO Paulus S
SHIVANDU John T T	SHIVANDU Pamen J
5. DIPLOMA IN POWER ENGINEERING (NQF : 6)	
KALOMOH Israel N	NAFTAL Tangeni
NEKONGO Victory T	TOBIAS David T
6. DIPLOMA IN PROPERTY STUDIES (NQF: 6)	
IYAMBO Thikameni A	JOHANNES Axel J J
KAVARA Victoria M	KETJIJERE Ngapimbue
TJIPEPA Kukajorua	
7. BACHELOR OF ARCHITECTURE (NQF: 7)	
SHIKONGO Elinatse	
8. BACHELOR OF GEOINFORMATION TECHNOLOGY (NQF: 7)	
KAMWI Heather M	NANGULA Ngeendikuna N M
9. BACHELOR OF LAND ADMINISTRATION (NQF: 7)	
CLAY Esmerelda C	HAILONGA Japhet E
HAIMBODI Beata T K	HAMUNDYEBO Jacob I
KAMANYA Panduleni P	KEJARUKUA Eveleen U
SHAANIKA Fillemon U	SHONGELA Haikela N
SINVULA Mpambo R	
10. BACHELOR OF QUANTITY SURVEYING (NQF: 7)	
SAMUEL Frieda J N	



11. BACHELOR OF REGIONAL AND RURAL DEVELOPMENT (NQF: 7)	
KAPEMBE Jonas	KARONDO Christiaan H
NAMENE George H S	SNYDERS Logan
12. BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING (NQF: 7)	
ANDREAS Andreas S	ANGULA Hope D
HASHINGOMBE Martha M	HAUFIKU Junias N
MUHIMBA Vena G N	MUMBUU Vaihamisa
NDAUMBWA Sylvia N	NYATI Teesma
SAKARIA Heskial	
13. BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING (NQF : 7)	
AMUNYELA Felistas N	GAINGOS Soreen
HAUFIKU Josua N S	KASHIYUKILE Tulimelao L
NUNUHE Vijandamuje U	SAUNDERSON Gershom S
14. BACHELOR OF TECHNOLOGY IN ELECTRONIC ENGINEERING (NQF : 7)	
IHUHUA Beauty R T	
15. BACHELOR OF TECHNOLOGY IN POWER ENGINEERING (NQF : 7)	
LOKADI Andy K	NEKONGO Victory T
SHIPENA Tobias	
16. BACHELOR OF TOWN AND REGIONAL PLANNING (NQF : 7)	
ISHEKWA Paulus I	TJILONDELO Mikael T
17. BACHELOR OF ENGINEERING IN CHEMICAL ENGINEERING (NQF: 8)	
DENTLINGER Justin H	MUZURI Daniel N
18. BACHELOR OF ENGINEERING IN CIVIL ENGINEERING (NQF: 8)	
ASHIPALA Albertus	DUWEL Paul H
FERNANDES Kamoça	IPINGE Albertina M
MAIBA Bahinde	MATETE DUBE Varaidzo
MUMBUU Kemumuine O	PHILLIPUS Seveleni I
19. BACHELOR OF ENGINEERING IN ELECTRICAL POWER ENGINEERING (NQF: 8)	
IIPINGE Bill- Gatsby	JOHANNES Emma T
KASITA Julius T E	KIIMBA Fillemon N
MBANGULA Priscilla H	
20. BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING (NQF: 8)	
HAIKOMBO Muronga L B	
21. BACHELOR OF PROPERTY STUDIES (NQF: 8)	
MARTIN Martha T	TLHABANELLO Fikile U

**FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES**

CANDIDATES PRESENTED BY THE EXECUTIVE DEAN: DR ONESMUS SHUUNGULA

1. DIPLOMA IN EMERGENCY MEDICAL CARE (NQF: 6)	
SERE Michael N	
2. BACHELOR OF SCIENCE: BIOLOGY MAJOR (NQF: 7)	
DAUSAB Sivan B H	KALUWIFA Beata N
MATENGU Nakwezi	SINVULA Andrea K
TSAI-TSAIB Salomon	
3. BACHELOR OF SCIENCE: CHEMISTRY MAJOR (NQF: 7)	
KAMATI Sydney T	NAMUBEB Monique M
NDYETABULA Lois N	
4. BACHELOR OF SCIENCE: PHYSICS MAJOR (NQF: 7)	
ANDREAS Martha N	ANGALA Linea
ENKALI Anna T I	HAMWELE Noa S
HANGO Ruusa K N	MPUKA Nelago S
MUNDANDALA Martha N A	NANKELA Samuel N N
SHAKELA Ndamononghenda N	VAMBE Tendai A
XOAGUB Larry	
5. BACHELOR OF SCIENCE IN AGRICULTURE: SUSTAINABLE AGRICULTURE STRAND (NQF: 7)	
AMUTENYA Sofia	EMBULA Andreas I
GOWASES Jashmine P	KAMATI Karel S F
KAMINA Pankratius K	KATJIRE Anna-Lisa
KAVETUNA Aghas U	LETLHAGOJE Xanophan X
MEDUSALEM Loide M	NAMUSHINGA Ester N M
NEFUNGO Frieda N	NGOMBE Hollynness P S
PAULUS Aina V	PETER Regina M
SHILONGO Josefina N	
6. BACHELOR OF SCIENCE IN APPLIED MATHEMATICS AND STATISTICS (NQF: 7)	
DA COSTA Caminho R	ELAGO Sem N
HAKWOOKO Petrus S	LENGI Willem M
MIKKA Memory S N	NANGOLO Matheus N
SHAPWA Danson N	SHIKONGO Annatoria N
SHINTANGO Paulus K	VATILIFA Mikasiu N N
7. BACHELOR OF SCIENCE IN HEALTH INFORMATION SYSTEMS MANAGEMENT (NQF: 7)	
IJAMBO Uatjiri	ISAACKS Shakira
KAMATI Ileni K	NAMBULI Festus N
NGHUULONDO Paulina	
8. BACHELOR OF SCIENCE IN HORTICULTURE (NQF: 7)	
ALUGODHI Katrina N K	



10. BACHELOR OF ENVIRONMENTAL HEALTH SCIENCES (NQF:8)

[15]



POSTGRADUATE QUALIFICATIONS



FACULTY OF COMPUTING AND INFORMATICS

CANDIDATES PRESENTED BY THE EXECUTIVE DEAN: PROF FUNGAI BHUNU SHAVA

1. BACHELOR OF COMPUTER SCIENCE HONOURS: COMMUNICATION NETWORKS (NQF: 8)

KALENGA Ekandjo M N

SHIPANGA Israel P N

2. BACHELOR OF COMPUTER SCIENCE HONOURS: DIGITAL FORENSICS (NQF: 8)

BENADE Darren H

KANDONGO Tate T

NEKWAYA Frieda S I

NGHITOTELWA Lonia H

3. BACHELOR OF COMPUTER SCIENCE HONOURS: INFORMATION SECURITY (NQF: 8)

FELLEPLUS Toivo N

4. BACHELOR OF COMPUTER SCIENCE HONOURS: SOFTWARE DEVELOPMENT (NQF: 8)

ALFEUS Simeon K

HAIMBILI Raimo P

IMASIKU Imasiku J T

SIMON Sakalia S

5. BACHELOR OF INFORMATICS HONOURS: BUSINESS INFORMATICS (NQF: 8)

HAIKALI Naemi T N

PAULO Helena N

6. MASTER OF COMPUTER SCIENCE (NQF: 9)

SANTOS Albano J D

Thesis: Designing Machine Learning Models for Water Resources Management Using Earth Observation Satellite Data (A Case Study of Angola and Namibia)

Supervisor: Prof Ambrose Azeta

IHAMBO Hileni R

Thesis: Designing an Organisation Security Culture Framework for the Namibia Institute of Public Administration and Management

Supervisor: Prof Fungai Bhunu Shava

Co-Supervisor: Dr Gabriel Nhinda

PETRUS Selma

Thesis: An Improved Digital Twin Model for Network Asset Protection in Cybersecurity

Supervisor: Prof Ambrose Azeta

7. MASTER OF DATA SCIENCE (NQF: 9)

JAZAKO Katjimbari	Thesis: Healthcare Analytics in Namibia: Utilising Data Mining and Machine Learning to Predict Malaria Outbreak Supervisor: Prof Hippolyte Muyingi
JEREMIA Ndapewa N	Thesis: A Comparative Study of Machine Learning and Statistical Models to Forecast Product Demand in the Namibian Supermarkets Supervisor: Prof Hippolyte Muyingi
HAIKALI Olivia T	Thesis: Framework for Integrating Spatial and Non-Spatial Data for Improved Conservation Analytics and Management in Kunene, Namibia Supervisor: Dr Munyaradzi Maravanyika Co-supervisor: Prof Morgan Hauptfleisch
HIMUFE Meitavelo L	Thesis: Harnessing Big Data for Wildlife Conservation: A Strategic Framework for Data-Driven Decision-Making and Ecosystem Management Supervisor: Dr Arpit Jain
KAMBONDE Ruusa N	Thesis: Optimising Maternal and Child Health Policy Making in Namibia: A Data-Driven Approach for Enhanced Healthcare Outcomes Supervisor: Prof Suama Hamunyela Co-supervisor: Dr Onesmus Shuungula
MOSES Fileppus S	Thesis: Data-Driven Approach to Mitigating Traffic Congestion in Windhoek: Smart City Solutions Supervisor: Prof Hippolyte Muyingi
MUNYALA Chisbertha N	Thesis: The Utilisation of Machine Learning for White Maize Yield Prediction in Zambezi Region of Namibia Supervisor: Prof Samuel Akinsola
PETRUS Fransina N	Thesis: Utilisation of Machine Learning Techniques for the Detection and Prediction of Crime Hotspots in the Namibian Municipalities Supervisor: Prof Samuel Akinsola
VESHIYELE Tangeni O F	Thesis: Crop Yield Estimation Using Machine Learning in Namibia Supervisor: Dr Richard Maliwatu

8. MASTER OF JOURNALISM AND MEDIA TECHNOLOGY (NQF: 9)

MUNYANDI Nicky M	Thesis: An Analysis of Factors that Motivate Selected Namibian State-Owned Enterprises (SOEs) to Engage in Corporate Social Responsibility (CSR) Activities Supervisor: Dr Hugh Ellis-Mwiya
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FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

CANDIDATES PRESENTED BY THE EXECUTIVE DEAN: PROF HARMONY MUSIYARIRA

1. BACHELOR OF LAND ADMINISTRATION HONOURS (NQF: 8)

NANGULA Tse-Naye R

SAKEUS Joel E

SIMASIKU Eager M

2. BACHELOR OF QUANTITY SURVEYING HONOURS (NQF: 8)

KASONGO Hadassa M

NAMBALA Thomas D

3. MASTER OF ARCHITECTURE (NQF: 9)

AWASEB Denzel E N

Thesis: /Guipa-Oms Research Academy for Vernacular Construction: Examining the Generation, Transfer, and Adaptation of Different Construction Technologies to Express Identity in the Namibian Urban Fabric
Supervisor: Prof Madelein Stoffberg

DENK Aiden A

Thesis: Hybridising SKW into a Sandbox: A Portal into Reimagined Territories
Supervisor: Dr Pieter Mathews
Co-Supervisor: Mr. Gert van der Merwe

NANGOLO Rakel N

Thesis: Integrating Trade Along Independence Avenue into the Urban Fabric: A Street Market Around Ausspannplatz, Windhoek
Supervisor: Prof Madelein Stoffberg

REINHOLD Matthew D

Thesis: Reawakening the Crease: An Origami-Inspired Fold Across Windhoek North's Dormant Railway Corridor
Supervisor: Prof Madelein Stoffberg

4. MASTER OF ENGINEERING IN METALLURGY (NQF: 9)

NANKUDHU Selma N

Thesis: Determination of Desirable Anode Surface Conditions for Enhanced Oxygen Evolution Reaction
Supervisor: Prof Thabo Falayi
Co-Supervisor: Mr Bernard Sililo

5. MASTER OF INTEGRATED WATER RESOURCES MANAGEMENT (NQF: 9)

MARIINE Denise U

Thesis: Quantitative Assessment of Pollutant Removal Efficiency and Water Quality Dynamics Across Wastewater Treatment Stages at Gammams Water Care Works, Namibia
Supervisor: Prof Edosa Omoregie

SALOMO Charity P S

Thesis: Efficacy of Sewage Wastewater Management System in Windhoek: A Case Study of Gammams Water Care Works
Supervisor: Prof Edosa Omoregie

6. MASTER OF SPATIAL SCIENCES (NQF:9)

NCUBE Elaine C

Thesis: Assessing the Impact of Climate Change on Urban Growth Patterns using Integrated GIS and Remote Sensing Techniques
Supervisor: Prof Oluibukun Ajayi

6. MASTER OF SUSTAINABLE ENERGY SYSTEMS (NQF: 9)

IITULA Tekla N	Thesis: Simulation of the Temperature Distribution in Electrolyser Cells on a Microscopic Scale Supervisor: Mr Feliz Benz Co-Supervisor: Dr Maxwell Muyambo
MUKUBESA Kayana N	Thesis: Techno-Economic Evaluation of the Impact of Green Hydrogen on Namibia's Mining Sector: A Case Study of Rössing Uranium Mine Supervisor: Prof Vaino Indongo Co-Supervisors: Prof Dipti Ranjan Sahu and Dr Bart Pietersa
PHILLIPUS Rinea T	Thesis: Spatially Resolved X-Ray Tomography of Nafion Membrane Deformations in Proton Exchange Membrane Fuel Cells and Electrolysers Supervisor: Prof Dipti Ranjan Sahu Co-Supervisors: Mr Feliz Benz
SHIKONGO Sarti L	Thesis: Developing A Sustainability Framework for Equitable Resource Allocation in Namibia's Green Hydrogen Sector: Balancing National Priorities and Community Benefits Supervisor: Prof Samuel John Co-Supervisors: Dr Thorsten Braun and Dr Ludger Eltrop

7. DOCTOR OF PHILOSOPHY IN ENGINEERING (NQF:10)

NADEGE Versheri K Y

Thesis: Techno-Economic Assessment of the Integration of Green Hydrogen in Industrial Renewable Energy-Based Microgrids: A Case in Namibia

Supervisor: Prof James Katende

Co-Supervisors: Prof Michael Mutingi

BIOGRAPHY

Dr Nadege Versheri K. Yingabvem is an Electrical Engineer and Renewable Energy researcher specialising in renewable energy systems, power systems, energy storage and microgrids. She holds a PhD in Electrical Engineering (Renewable Energy Systems) from the Namibia University of Science and Technology (NUST), as well as a Master of Engineering in Power Systems Engineering and a Bachelor of Engineering (Honours) in Electrical and Electronic Engineering from the University of Buea, Cameroon.

She joined NUST in 2021 as a recipient of the FRAME Intra-Africa Mobility Scholarship to pursue her doctoral studies. Her PhD research, titled "The Techno-Economic Assessment of the Integration of Green Hydrogen in Industrial Renewable Energy-Based Microgrids: A Case in Namibia," focused on the techno-economic feasibility of integrating green hydrogen into renewable-energy-based industrial microgrids, using Namibia Breweries Limited as a case study. Her work contributes to the growing body of research supporting Namibia's transition towards sustainable energy and the development of its emerging green hydrogen sector.

During her approximately five-year doctoral journey, Dr Nadege produced four academic publications, including journal articles, conference proceedings and a book chapter. She also participated in international academic engagements in Germany, India and Egypt.

Her academic journey has been characterised by research excellence, resilience and determination. During her studies, she became a mother to twins and later welcomed a third child, while continuing her research, publishing and academic engagements. She successfully defended her PhD on 20 August 2026, marking the culmination of a journey defined by perseverance, resilience and determination.

Dr Nadege is passionate about renewable energy research, engineering education, sustainable energy development and mentoring the next generation of engineers and researchers. Her journey reflects her belief that motherhood, adversity and academic ambition do not have to be mutually exclusive.

Three children. Four publications. Five years. One PhD.



ABSTRACT

Africa's rapid population growth is intensifying energy challenges and demands a major scale-up of renewable energy infrastructure to meet sustainability and decarbonisation goals. Industrial facilities, as major electricity consumers, remain heavily dependent on fossil fuels and centralised grids, a combination that is increasingly unsustainable both environmentally and economically. Expanding renewable energy also enables green hydrogen production, offering a potential long-term storage option for microgrids. Namibia, with exceptional solar and wind resources, provides a unique context for green hydrogen development and for investigating reliable, cost-effective, and low-carbon industrial energy systems.

This thesis presents, to the best of the author's knowledge, one of the first comprehensive technoeconomic assessments of integrating a hydrogen energy storage system (HESS) into an industrial renewable-energy-based microgrid in Southern Africa, using Namibia Breweries Limited (NBL) as a case study. The research evaluated the feasibility of incorporating HESS into an existing grid-tied solar Photovoltaic-diesel (PV-DG) microgrid to reduce grid dependency, enhance reliability, and improve environmental performance.

A detailed baseline assessment of NBL's current PV-DG-Grid system was carried out in HOMER Pro using high-resolution load and resource data. Three storage configurations were modelled: (i) PV-DG-H₂-Grid (hydrogen-only storage), (ii) PV-DG-BESS-Grid (battery energy storage system), and (iii) PV-DG-BESS-H₂-Grid (hybrid storage), and assessed for economic viability, technical performance, and environmental impact. Sensitivity analyses examined the effects of hydrogen technology learning, PV-capacity expansion, and tariff structure.

Results showed that the baseline PV DG Grid system was economically attractive (NPC: \$33.03 million; LCOE: \$0.110/kWh) but remained highly grid dependent (87.7%) with a low renewable fraction (12.2%). Integrating HESS eliminated 40,342 kWh/year of curtailed PV generation and diversified the supply, but contributed only 0.06% of annual electricity, while increasing NPC by 6.3% and LCOE by 6.4%. Under flat tariffs and high grid availability, BESS integration yielded zero battery throughput with a smaller cost penalty than hydrogen, whereas the hybrid configuration added cost and complexity with little additional benefit. Under time of use tariffs, storage utilisation improved modestly, with BESS increasing from 0 to 2.3 MWh/year (7.5 equivalent full vii cycles) and HESS raising annual hydrogen throughput from 659 kg to 660 kg, only minimally enhancing grid independence and emissions.

Sensitivity analysis indicated that hydrogen technology learning improved economics only when combined with substantial PV expansion; even at 3.3–4.4 MW capacity, hydrogen based electricity remained more expensive than grid supply. Under current cost and tariff conditions, battery only storage offers the lowest LCOE and the highest near term cost effectiveness. In contrast, hydrogen based storage becomes competitive only in scenarios with large hydrogen cost reductions, higher carbon prices of at least \$100–150/tCO₂, and increased PV capacity. However, hydrogen storage provides the greatest emissions reductions and the highest renewable energy fraction when utilised in hybrid battery-hydrogen systems. For NBL and similar industrial microgrids, the recommended near to medium term pathway is moderate PV expansion with demand side management and appropriately sized BESS, positioning hydrogen as a longer term option contingent on supportive climate policy frameworks and market conditions.

CANIVETE Chiamba R C**Thesis:** Designing a Building Information Modelling and Digital Twin Solution for Leak Prevention in Angola Water Distribution Systems**Supervisor:** Prof Mercy Chitauru**Co-Supervisors:** Prof Martina Flörke and Prof Maduako Okorie

BIOGRAPHY

Chiamba R. Chiteculo Canivete is an Angolan Military Officer, Civil and Military Engineer, researcher, and Lecturer specializing in Building Information Modelling (BIM), Digital Twin (DT), Sustainable Construction, and water distribution systems.

He holds a Master's degree in Sustainable Construction and Rehabilitation from the University of Minho (Portugal, 2021), underpinned by a strong academic foundation in Sustainable Construction and Construction Digitalization, with the application of relevant BIM standards.

He currently serves as a Lecturer at the Instituto Superior Técnico Militar (ISTM), a Higher Military Technical Institute in Angola, within the Department of Constructions and Fortifications, where he is actively involved in teaching, mentoring students, and contributing to the development of academic programmes. He has also served as an advisor at the National Organization for Standardization, ensuring strict safety compliance in infrastructure. He is a member of the Ordem dos Engenheiros de Angola (OEA) and buildingSMART, and was awarded the 2022 National Angola Youth Prize.

His research focuses on enhancing leakage detection and monitoring in aging water infrastructure through the integration of Building Information Modelling (BIM) and Digital Twin (DT) technologies, and on Water Distribution asset management applications to address a critical, high-cost problem for utilities globally and across Sub-Saharan Africa.



ABSTRACT

Water Distribution Systems (WDS) constitute critical infrastructure essential for public safety and socioeconomic development. Despite their importance, utilities worldwide face persistent challenges in maintaining consistent and sustainable water reticulation. The Architecture, Engineering, Construction, and Operations (AECO) sector is a fundamental driver of economic development in many emerging economies. WDS are critical infrastructure, providing clean water for public safety and socioeconomic development. However, Angola's construction industry relies on traditional methods, creating substantial obstacles to project execution and infrastructure maintenance. This research addresses the need to improve water distribution efficiency by adopting innovative technologies, specifically Building Information Modeling (BIM) and Digital Twin (DT).

This study designed a BIM-based DT and ML system for WDS in Luanda to enable leakage detection and monitoring in pipeline infrastructure. It adopted a pragmatic research philosophy and an explanatory mixed-methods approach, integrating quantitative and qualitative methods through abductive reasoning. It conducted a systematic literature review, a bibliometric analysis, a Customer Bill-Based Assessment, and thematic analysis to identify barriers and implementation requirements for infrastructure management. Semi-structured surveys targeting AECO professionals assessed their knowledge and the penetration of BIM and DT in water management. The findings reveal substantial performance gaps within the Luanda water sector: Non-Revenue Water reaches 34,8%, and leakage and per capita water consumption (40.3 L/P/d) fall significantly below national benchmarks. Moreover, BIM adoption is more advanced than DT, with potential applications spanning planning, design, data management, visualisation, and simulation. Computer simulations proved essential for pipe replacements, reducing maintenance costs while ensuring system reliability.

The study evaluated three deep learning architectures for leak detection: Long Short-Term Memory (LSTM), 1D Convolutional Neural Networks (CNN 1D), and Hybrid LSTM-CNN ML. On the synthetic Marçal WDS, the Hybrid LSTM-CNN and LSTM models achieved the highest validation performance. Cross-validation on the independent Stockholm dataset reveals real-world generalisation, with a performance decrease that highlights the importance of noise-robust architectures for operational deployment.

This study presents a novel integration of BIM-Based DT specifically for aging water infrastructure in Luanda, representing one of the first empirical investigations of this approach in a high-urban-density African context. It advances theoretical understanding by proposing an innovative approach to leak monitoring and detection through BIM-DT integration and moves beyond generic asset-management applications to address a critical, high-cost problem for utilities globally. The results provide critical new evidence-based insights that offer alternative perspectives on leak detection through BIM and DT integration, contributing to the limited body of knowledge on digital water infrastructure management in Sub-Saharan Africa.

8. DOCTOR OF PHILOSOPHY IN SPATIAL SCIENCES: ARCHITECTURE (NQF: 10)

MARTIN Elao B

Thesis: Contemporary Domesticity and the Architecture of Urbanising Northern Namibia: The Case of the Owambo Homestead

Supervisor: Prof Sampson Umenne

Co-Supervisors: Dr Finzi Saidi and Dr Guillermo Delgado

BIOGRAPHY

Mr Elao Martin was born in Oshakati and attended primary and secondary school in Windhoek. He began his architectural studies at the Namibia University of Science and Technology (NUST) in 2013 and went on to complete a Master of Architectural Technology at the Graduate School of Architecture, University of Johannesburg, alongside a brief internship at Gregory Katz Architecture in Johannesburg. His master's thesis design project, sited in Kampala, Uganda, proposed sustainable brickmaking processes that protect sensitive wetland ecosystems while generating livelihoods in informal settlements.

His academic work has been recognised in Namibia and beyond. He received the Des Baker Award in 2016; a Certificate of Excellence as an Emerging Voice in African Architecture at the inaugural Africa Architecture Awards in Cape Town in 2017; and the Regional Corobrik Award at the University of Johannesburg for his master's thesis design in 2019. In 2021, he was one of ten scholars selected through a global call to attend the Norman Foster Foundation's Rematerializing Housing Workshop in Madrid, Spain.

Mr Martin returned to NUST as a Staff Development Fellow under the University's Graduate Talent Acceleration Programme and lectures in the Department of Architecture, Planning and Construction. He is a registered Professional Architect with the Namibia Council of Architects and Quantity Surveyors, serves on the board of the Namibia Institute of Architects, and directs a young, registered architectural practice.



ABSTRACT

This research explores the architecture, domesticity, and socio-spatial practices of the Owambo homestead typology at the nexus of communal and urban land in northern Namibia, with a focus on the town of Outapi. The study responds to the under-examined encounter between indigenous spatial logics and livelihoods, as operationalised through this typology, and the cadastral logics of modern urban planning, particularly the ways in which urban growth affects communal land and its inhabitants.

Using a grounded theory approach within a case study framework, the research employs ethnographic methods, typomorphological spatial analysis, narrative interviews, and document review. Assemblage theory serves as the central analytical lens through which to understand how domestic practices, land rights, architectural forms, and urban policies interact with and reconfigure one another.

The study examines domesticity in three settings at the nexus: homesteads on communal land, homesteads integrated into newly proclaimed urban land, and homesteads reestablished in other areas of communal land. Read through an assemblage lens, these cases suggest that residents experience the homestead not only as a place, but also as an enterprise, a means of livelihood, and a housing resource shared by those who partake in that enterprise. The findings further reveal that Owambo homesteads at the nexus are not simply displaced or transformed by urbanisation; they actively participate in shaping urban space. Their domesticity and spatial practices demonstrate resilience and adaptation, producing new urban forms and logics. The research also argues that, through compensation and formalisation, communal land rights increasingly operate as de facto claims to urban land, blurring the boundaries between informal, communal, and urban tenure systems.

The grounded theory emerging from the study shows that domesticity and socio-spatial practice in the homestead function as mechanisms of spatial production within the subaltern urbanism of northern Namibia. These findings challenge the adequacy of current planning and compensation frameworks and call for more inclusive, contextually responsive approaches to urban development. Ultimately, the study contributes to debates on African urbanism, assemblage theory, and the decolonisation of planning by showing how local practices and logics persist and evolve at the shifting edge of urban space.

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7. MASTER OF AGRIBUSINESS MANAGEMENT (NQF: 9)

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Thesis: Assessing the Potential for Agricultural Digital Adoption in Smallholder Crop Farming Systems: A Case Study of Five Selected Namibian Regions
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8. MASTER OF HEALTH SCIENCES (NQF: 9)

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9. MASTER OF NATURAL RESOURCES MANAGEMENT (NQF: 9)

ANGALA Ruben N	Thesis: Understanding Spatial and Temporal Dynamics of Pangolin Poaching in Namibia Supervisor: Mr Jeremia Amutenya Co-Supervisor: Prof Jonathan Kamwi
DENTLINGER Dylan R	Thesis: Effects of Woody Thinning and Livestock Access on Vegetation Dynamics in a Mopane-dominated Savanna of North-Western Namibia Supervisor: Dr Jerome Boys Co-Supervisor: Dr Cornelis van der Waal Co-Supervisor: Prof Theo Wassenaar
NDJIMBA Josef T	Thesis: Assessing Human-Carnivore Interactions along the Northern Periphery of Etosha National Park, Namibia Supervisor: Dr Meed Mbidzo Co-Supervisor: Dr Dipanjan Naha Co-Supervisor: Prof James Beasley
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SHAGAMA Daniel I	Thesis: Examining Small Mammals' Ecological Variables as Indicators of Ecosystem Services in Various Land-Use Types within the Etosha West and South Landscape [EWSL], Namibia Supervisor: Mr Jeremia Amutenya Co-Supervisor: Morgan Hauptfleisch

10. MASTER OF SCIENCE IN APPLIED STATISTICS (NQF: 9)

MUUSHA Remember	Thesis: Spatial Survival Analysis of Breast Cancer in Namibia (2018-2022) Supervisor: Dr Dismas Ntirampeba Co-Supervisor: Dr Dibaba Gemechu
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11. DOCTOR OF PHILOSOPHY IN NATURAL RESOURCE SCIENCE (NQF: 10)

AMUTENYA Jeremia K L

Thesis: Exploring the Perceived Future of Namibian Conservation: A Case Study of the Etosha West and South Landscape
Supervisor: Prof Morgan Hauptfleisch
Co-Supervisor: Prof Francois Retief
Co-Supervisor: Dr Tendai Nzuma

BIOGRAPHY

Jeremia Amutenya was born and raised in Okahandja, where his humble beginnings unknowingly laid the foundation for a lifelong connection with nature. At just eight years old, he would occasionally dodge school after the 10 o'clock break to herd goats and cattle at a nearby farm, earning about N\$10 a day; enough for brown bread, brown sugar and, occasionally, a few treats to share with friends. Those quiet days in nature sparked a fascination with animals, plants and landscapes that would eventually shape his career in biodiversity conservation.

After completing his schooling at Okahandja Secondary School, he enrolled at the Polytechnic of Namibia in 2007 to study Natural Resources Management (Nature Conservation). After graduating, Amutenya joined the Ministry of Environment, Forestry and Tourism as a Ranger in Etosha National Park and steadily rose through the ranks to become Warden of Khaudum National Park, followed by Chief Warden for Central South Regional Services and the Intelligence and Investigations Unit. His nine years in the remote and demanding Khaudum National Park tested him physically, mentally and emotionally, but also strengthened the resilience and perseverance that would later carry him through his PhD.

Today, Amutenya is a lecturer, conservationist, researcher and public servant.

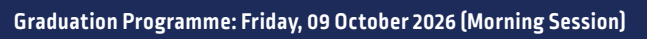


ABSTRACT

Namibia has earned international recognition for its pioneering approach to biodiversity conservation through an extensive network of protected areas, an advanced community-based natural resource management programme, and the devolution of wildlife rights to private landowners. However, emerging 21st-century challenges are increasingly testing these approaches, highlighting the need to envision alternative conservation futures. This study examined how stakeholders across the Etosha West and South Landscape perceive and envision the future of biodiversity conservation, using Futures Thinking as a conceptual and analytical framework. Interviews with 81 stakeholders were thematically analysed through four conservation orientations: Traditional Conservation, New Conservation, Critical Social Science and Market Biocentrism.

The findings show that Namibia's contemporary conservation landscape has been strongly shaped by historical policy reforms that devolved conditional wildlife rights and promoted benefit-based conservation. However, stakeholders perceived aspects of the existing legislation as limiting the adaptability required to respond to emerging challenges. Moving from these historical developments to contemporary conservation approaches, the findings revealed distinct conservation orientations across the three land-use systems. The CBNRM sector was predominantly associated with the Critical Social Science, reflecting concerns over limited household-level benefits and institutional capacity; Etosha National Park was strongly aligned with Traditional Conservation, largely driven by persistent rhino-poaching pressures; while freehold farms were predominantly aligned with Market Biocentrism, reflecting the economic value attached to biodiversity on this land-use type.

Looking ahead, the CBNRM sector and Etosha National Park envisioned a shift towards the New Conservation orientation, emphasising professionalised conservancy structures, diversified livelihoods and stronger collaboration with neighbouring communities. Freehold farmers continued to favour the Market Biocentrism orientation and called for greater legislative flexibility to strengthen the economic viability of wildlife conservation. Collectively, these future perspectives reveal that, despite differences among the three land-use systems, stakeholders' visions remained focused on the near term, shaped largely by contemporary conservation challenges rather than long-term strategic planning. This limitation underscores the value of applying Futures Thinking to conservation, with the study providing a novel, stakeholder-driven foundation for strengthening long-term and adaptive biodiversity conservation planning in Namibia.

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