

Nigerian SCIENCE - POLICY DIALOGUE (webinar series) on Biodiversity Conservation

May 26, 2023

Understanding the Nigeria Science Policy Interfaces: Contexts and Interactions between Science and Politics



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Outline







Science-Policy Interfaces: the Nigerian Context



Biodiversity Conservation in Nigeria



Challenges and Potential Solutions for Biodiversity SPIs



Call to Action – Bridge the Science-Policy Gap in Nigerian Biodiversity Conservation



Disclaimer



The views in this presentation are **personal** (except otherwise referenced) and not necessarily representative of the University of Lagos's views on "Understanding the Nigeria Science Policy Interfaces: Contexts and Interactions between Science and Politics"



Science-Policy Interfaces (SPIs)

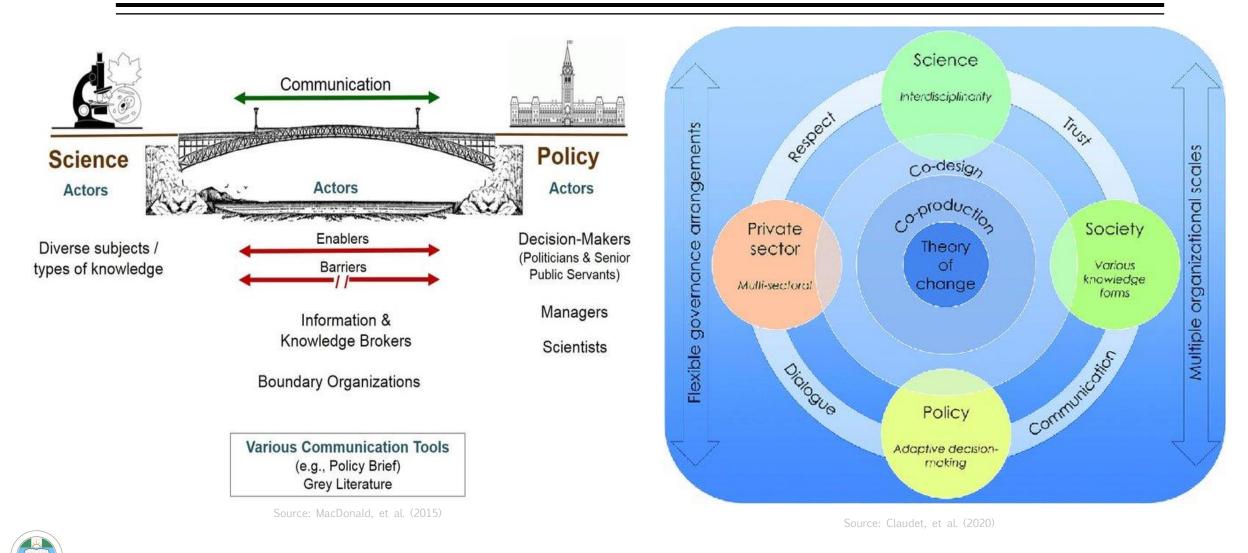


Science Policy Policy

SPIs are organisations, institutional frameworks, social structure which **bridges the knowledge, translation and communication gap** between science and policy.



Science-Policy Interfaces (SPIs), Cont'd



Science-Policy Interfaces (SPIs), Cont'd

Key Features of SPIs

Source: Matsumoto et al., 2020

Examples of SPIs knowledge brokers, science advisors, intergovernmental (IPBES, IPCC, IPCP,...), regional or national expert groups, international, national academies (ex. ISC, SCB,...), NGOs (ex. IUCN,), Interest Groups (ex. MAN)

Feature	Sub-feature	Characteristics
Goals	Vision	Clarity, scope, and transparency of the vision and objective of SPI
	Drivers	Demand-pull from policy, mandates, supply-driven promotion of research, emerging issues
Structure	Independence	Freedom from external control, neutrality or bias in position, range of membership
	Participation	Range of relevant expertise and interests included, competence of participants, openness to new participants
	Resources	Financial resources, human resources (e.g., leadership, champions, ambassadors, translators), networks, time
Processes	Horizon scanning	Procedures to anticipate science, technology, policy, and societal developments
	Continuity	Continuity of SPI work on the same issues; continuity of personnel; iterative processes
	Conflict management	Strategies such as third party facilitation, allowing sufficient time for compromise
	Trust building	Possibilities to participate in discussion, clear procedures, opportunities for informal discussions, transparency about processes and products
	Capacity building	Helping policymakers to understand science and scientists to understand policymakers, building capacities for further SPI work
	Adaptability	Responsiveness to changing contexts, flexibility to change
Outputs	Relevant outputs	Timely in respect to policy needs, accessible, comprehensive, efficient dissemination
	Quality assessment	Processes to ensure quality, comprehensiveness, transparency, robustness, and management of uncertainty
	Translation	Efforts to convey messages across different domains and individuals, and making the message relevant for various audiences
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Outcomes	Social learning	SPI participants, audiences, wider public learn and change their thinking about biodiversity
	Behavioural impact	SPI participants, audiences, wider public change behaviour as a result of learning
	Policy impact	SPI information, learning, and associated changes in policymaker behaviour lead to changes in policy
	Biodiversity impact	The above changes lead to changes in drivers and pressures threatening biodiversity, societal responses, and the state of biodiversity



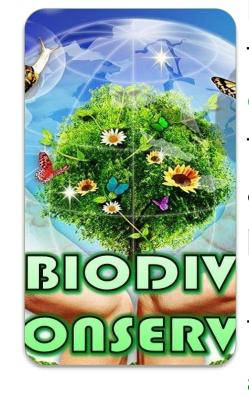
Science-Policy Interfaces: The Nigerian Context

In relation to Biodiversity Conservation in Nigeria, SPIs include:

- \cdot NGOs NCF
- \cdot Professional Societies ex. SCB
- \cdot Academies NAS
- \cdot CSOs
- \cdot Expert Groups constituted by government on a standing or ad-hoc basis
- · Development Agencies UNDP, UNEP, GEF, IUCN, UNEP-WCMC
- Research Management/Communication offices at Universities, Research Institutions



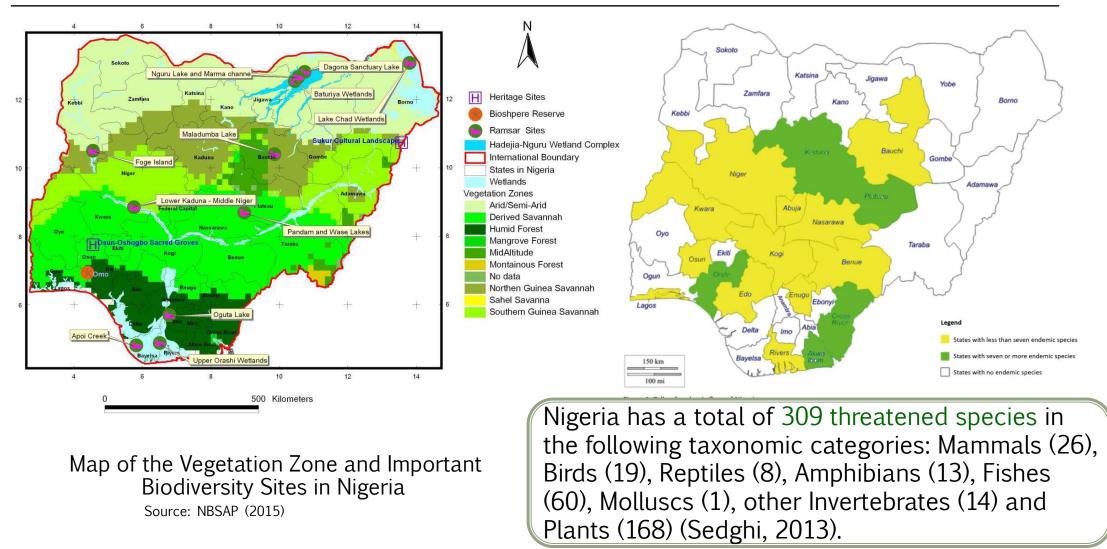
Biodiversity Conservation in Nigeria



Biodiversity Conservation may be described as the preservation of "the variability among living" organisms from all sources including, *inter alia*, terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are part: this includes diversity within species, between species and of ecosystem" (CBD, 1992) for the benefits of the present and future generations.

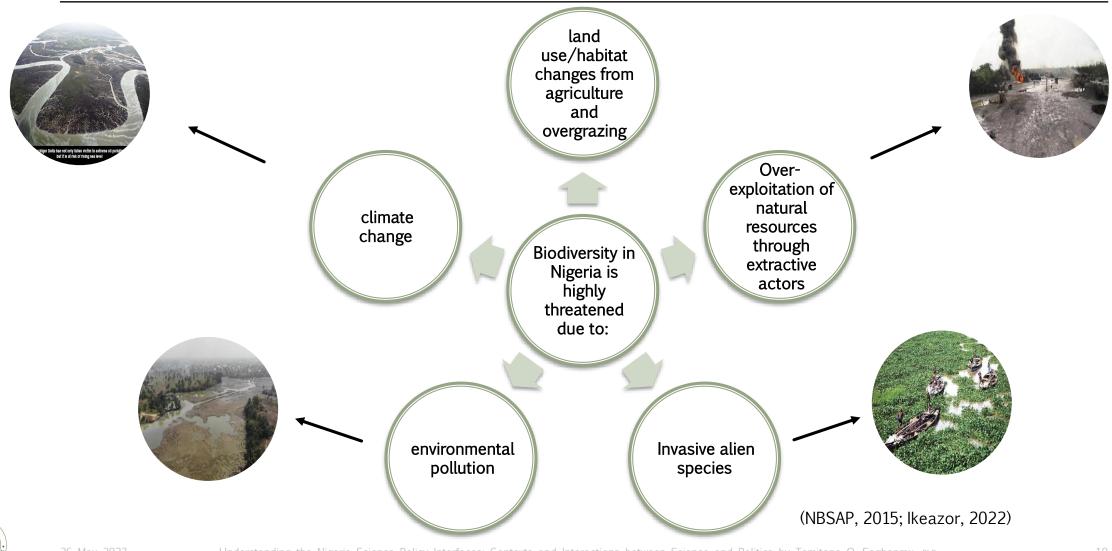


Biodiversity Conservation in Nigeria, Cont'd





Biodiversity Conservation in Nigeria, Cont'd



Understanding the Nigeria Science Policy Interfaces: Contexts and Interactions between Science and Politics by Temitope O. Sogbanmu, PhD

Challenges and Potential Solutions for Biodiversity Science-Policy Interfaces

	Challenges	Possible solutions
Goal	Identification of key research topic	Joint formulation of research and policy between researchers and policymakers
	Goals and objectives of SPI is not clear	Developing and adjusting clear goal and priority of SPI for participants
Structural	 Assembling a range of knowledge holders and experts relevant to topics 	Formation of SPIs with transparent and open structures
	High level of complexity of decision-making	More engagement with social sciences
	Need to ensure a sound scientific basis of SPI	Collaborative interdisciplinary teams and involve scientists, policymakers, legal experts, and practitioners from various fields/sectors on board
	Fragmentation of group of interests of the members involved in SPI	Establishment of a discussion platform among different stakeholders
		Putting in place structures and incentive schemes that support long-term interactive dialogue
Process	Overcoming silos between decision-makers and scientists	Adequate capacity building for both scientists and policymakers to understand the different processes in which each of them work
	Appropriate handling of socio-ecological complexity and political dimensions	More engagement with social sciences
	Timely provision of consolidated view for decision-making	Enhancing national level of capacity including data collection and technical skil
	Better communication between policymakers and scientists and addressing or communicating the uncertainty of science	Engagement of policymakers in research projects
	 Striking an appropriate balance between scientific complexity and over-simplification 	
	Improvement of data collection and use	
	Lack of common language or philosophies between scientists and policymakers	
Outputs	Making scientific output policy relevant	Integrating knowledge more with social science including socioeconomic impacts
	Transforming knowledge between different communities	Production of highly relevant outputs of SPIs
	Need to strengthen scientific basis	

Source: Matsumoto et al., 2020



Trust and Partnership building



Co-creation/Co-production

Secondments



Capacity building: technical and communication



Biodiversity knowledge information platforms for various stakeholders

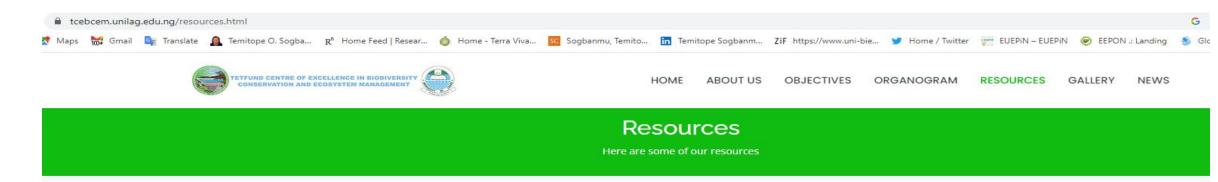


Engagement of media in biodiversity conservation



Funding/Incentives





RESOURCES AVAILABLE FOR THIS RESEARCH CENTRE

- 1. Human resources with diverse experience in core areas of interest of the Centre
- 2. A well equipped Molecular Biology and Palynology Laboratory and a quality Herbarium centre.

COLLABORATING DEPARTMENTS WITHIN THE UNIVERSITY

- Department of Botany, University of Lagos
- Department of Cell Biology and Genetics, University of Lagos
- Department of Zoology, University of Lagos
- Department of Biochemistry, University of Lagos
- Department of Geography, University of Lagos
- Department of Educational Foundations, University of Lagos
- Department of Sociology, University of Lagos
- Department of Creative Arts, University of Lagos

RESEARCH UNITS

- Plant Biodiversity and Ecosystem Management
- Animal Biodiversity and Ecosystem Management
- Natural Resources Management
- Community Development and Outreach
 Programmes
- Ecosystem Risks and Disaster Management



EIDM

Champion

Spotlight

Mrs. Adebukola SUBERU

Assistant Director

Conservation and Ecology

Department, Lagos State Ministry of

Environment and Water Resources

(LSMOEWR), Nigeria

Follow Adebukola Suberu on

Twitter (@suberubukola) |

LinkedIn (@AdebukolaBakareSuberu)

EUEPIN EIDM Champion Spotlight

Dr(Mrs.) Rahila C. WAKAWA

Assistant Chief Research Officer

| Climate Change Desk Officer

Department, National Centre for Technolog Management (NACETEM), Abuja, Nigeria

Science, Policy and Innovation Studies

 Dr. Wakawa is one of the first cohort of EUEPIN-trained policymakers in 2020 on "Capacity-Building for Environmental Evidence-Informed Decision Making (EIDM)".

- She has over 15 years of experience in:
 Agricultural Economics Research & Policymaking in Science Policy & Innovation Studies (STI).
- Evidence-Informed Policymaking, and
 Technology Needs Assessment for Climate
- Change Mitigation and Adaptation.

Her EIDM Initiatives and Recognitions:

- Won an award in July 2021 by Abuja Enterprise Agency of Nigeria as an expert in Technology and Innovation promoting EIDM.
- Established the score-board data for Nigeria as African representative covering all sectors, including the environmental sector in a project jointly implemented by the ACTS, ARIN, AUDA-NEPAD, SPRU and OTB Africa.
- Participated in the review of the 2012 National Science, Technology, and Innovation (NSTI) Policy which birthed the NSTI 2022; and the ongoing implementation framework with key EIDM inputs.
- Projected EIDM at a workshop discussion and validation of climate change mitigation and adaptation technologies for sub-sectors in the "Technology Needs Assessment (TNA) for Climate Change Mitigation and Adaptation in Nigeria" (TNA) Project.

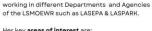
Follow Rahila Wakawa on LinkedIn (@rahila (Christopher) WAKAWA)

To receive information and opportunities related to Environmental EIDM, we encourage you to subscribe to and/or follow the EUEPIN Project on our social media handles **@** Twitter (@eue_pi) | Linkedin (@EUEPIN Project) | YouTube (@euepin)

www.euepin.unilag.edu.ng | www.eepon.unilag.edu.ng



 Mrs. Suberu is one of the inaugural Awardees of the EUEPIN Secondment in 2020 deployed University of Lagos, Nigeria.
 A professional with over 20 years of experience



Her key areas of interest are:
 Environmental Management & Protection

- Ecological Project Planning
 Biodiversity Conservation
- Tree Management
- She has participated in training/workshops including ICLEI Cities Workshops at the UN Biodiversity Summit, Montreal, Canada and SIDS Technical Training, Singapore.
- Following her EUEPIN Secondment, she has taken part in two (2) GBIF-BID research projects, to promote the use of scientific evidence and knowledge translation in policy-making relating biodiversity conservation.

Environmental Evidence-Informed Decision Making (EIDM) Initiatives:

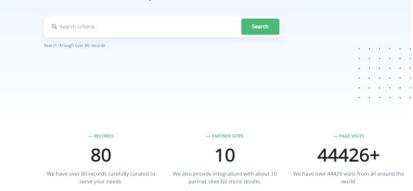
- Organised capacity-building training and workshop for Staff of the Ministry of the Environment on digitization and applications of biodiversity data for policy making in conservation.
- Stakeholders' engagements and Advocacy campaign on biodiversity Conservation.
 Policy brief on the application of biodiversity data.

www.euepin.unilag.edu.ng | www.eepon.unilag.edu.ng





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Target 1: By 2020, 30% of Nigeria's population is aware of the importance of biodiversity to the ecology and economy of the country.

Target 2: By 2020, a comprehensive programme for the valuation of biodiversity is developed and implemented, and payments for ecosystem services (PES) and goods are mainstreamed into the national budget.

Target 3: By 2020, adoption of a national ecosystem-based spatial planning process and plans, promoting the values of biodiversity and ecosystem services to sustain development.

Target 4: By 2020, up to 15% of the areas of degraded ecosystems in Nigeria are under programmes for restoration and sustainable management.

Target 5: By 2020, six (6) management plans are implemented for habitats of endemic and threatened plants and animals, including sites for migratory species.

Target 6: By 2020, at least 10% of Nigeria's national territory is sustainably managed in conservation areas at varied levels of authority, with representation of all ecosystem types.

Target 7: By 2020, the genetic diversity of cultivated plants, domesticated animals and their threatened wild relatives, including culturally valuable species, are documented, maintained and valorised in two key institutions in Nigeria.

Target 8: By 2020, at least 60% of identified pollution sources, including those from extractive industries and agricultural inputs, are brought under control and guidelines are put in place to mitigate their effects on ecosystems.

Target 9: By 2020, invasive alien species and pathways are identified and prioritized and priority species controlled or eradicated, and measures are in place to manage pathways in the six ecological zones.

Target 10: By 2015, the Nigerian NBSAP has been fully revised and adopted by government as a policy instrument, and its implementation commenced in a participatory manner.

Target 11: By 2015, the Nagoya Protocol on Access to Genetic Resources and the fair and equitable sharing of Benefits Arising from their utilization is acceded to and its implementation through a national regime on ABS commenced.

Target 12: By 2020, community participation in project design and management of key ecosystems is enhanced in one (1) each of the six (6) ecological zones.

Target 13: By 2020, national-based funding for biodiversity is increased by 25%, with effective international partnership support.

Target 14: By 2020, the capacity of key actors is built and gender mainstreaming carried out for the achievement of Nigeria's biodiversity targets.

26 May 2023

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Acknowledgement







Source: https://www.mvmediation.org/blog/conflict-resolution-ideas-day-44



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