## Evidences

### Study #4614

**Contributing Projects:**
- P445 - Theme leader activities

### Part I: Public communications

**Type:** OICR: Outcome Impact Case Report  
**Status:** Completed  
**Year:** 2021

**Title:** The Niger Basin Authority has integrated Nexus Indicators into its operational and investment planning until 2024, covering 350 projects

**Short outcome/impact statement:**
The Niger Basin Authority Operational Plan 2016-2024 includes 350 projects. To ensure they advance the Shared Vision of the Niger Basin, a Nexus perspective that simultaneously considers synergies and tradeoffs across water, energy and food security and environmental sustainability is essential. The Nexus Regional Dialogue Program supported analysis of the Operational Plan through a Nexus perspective and development of a Nexus framework. The Niger Basin Authority has agreed to incorporate this into its 2022 Operational Plan exercise.

**Outcome story for communications use:**
<Not Defined>

**Links to any communications materials relating to this outcome:** <Not Defined>

### Part II: CGIAR system level reporting

**Link to Common Results Reporting Indicator of Policies:** Yes

**Policies contribution:**
- 866 - Niger Basin Authority Operational Plan

**Stage of maturity of change reported:** Stage 2

**Links to the Strategic Results Framework:**

**Sub-IDOs:**
- Enhanced capacity to deal with climatic risks and extremes (Mitigation and adaptation achieved)  
- More productive and equitable management of natural resources

**Is this OICR linked to some SRF 2022/2030 target?** Too early to say

**Description of activity / study:** <Not Defined>

**Geographic scope:**
- Multi-national
Country(ies):
- Côte d'Ivoire
- Guinea
- Nigeria
- Mali
- Burkina Faso
- Benin
- Niger
- Cameroon
- Chad

Comments: <Not Defined>

**Key Contributors:**

**Contributing CRPs/Platforms:**
- WLE - Water, Land and Ecosystems

**Contributing Flagships:**
- F4: Managing Resource Variability, Risks and Competing Uses for Increased Resilience (VCR)

**Contributing Regional programs:** <Not Defined>

**Contributing external partners:**
- NBA - Niger Basin Authority
- GIZ - Deutsche Gesellschaft für Internationale Zusammenarbeit / German Society for International Cooperation
- FMEnv - Federal Ministry of Environment (Nigeria)
- FMARD - Federal Ministry of Agriculture and Rural Development (Nigeria)
- University of Ottawa
- MINEPDED - Ministry of Environment, Nature Protection and Sustainable Development (Cameroon)

**CGIAR innovation(s) or findings that have resulted in this outcome or impact:**
WLE/IFPRI developed a mixed-methods approach that engaged basin countries in qualitatively ranking projects to meet energy, environmental and food security goals, complemented by quantitative modelling for the more complex ranking of water and environmental sustainability goals, necessitated by complex upstream–downstream linkages.(7).

**Innovations:**
- 2752 - Methodology on nexus indicator assessment at basin level
Elaboration of Outcome/Impact Statement:

The Niger Basin Authority is an intergovernmental organization in West Africa aiming to foster co-operation in managing and developing the joint natural resources of the Niger Basin, and includes nine, mostly French-speaking, riparian countries: Burkina Faso, Benin, Cameroon, Côte d’Ivoire, Guinea, Mali, Niger, Nigeria, and Chad. Home to 130 million people, the basin suffers from extreme water, energy, and food insecurity, environmental degradation, growing adverse climate change impacts, and overall instability, insecurity, conflict, and civil strife.

The Niger Basin Authority included 350 investment projects in its 2016-2024 Operational Plan to achieve the Niger Basin’s Shared Vision (1). The projects cover a wide range of investments, including dams, irrigation schemes, navigation, and ecosystem preservation. Without careful assessment of these projects and their interlinkages, the scarce and fragile water, land, and ecosystem resources could suffer irreversible damages (2,3).

To address these challenges and develop a framework to support analysis of the synergies and tradeoffs across the proposed projects, WLE/IFPRI first introduced the role and utility of Nexus analytical concepts with key Niger Basin Authority staff. They then developed a methodology to support representatives of national Ministries of Agriculture, Energy, Water, and the Environment of the nine basin countries, as well as selected nongovernmental organizations, to develop national assessments of Nexus tradeoffs in their countries using a facilitated participatory approach that considered risks, options, and decisions (4) as well as a seven-point tradeoff scale (5). These tools allowed national authorities to identify synergies and tradeoffs in their proposed Operational Plan investments (3). A supplementary water and environmental analysis based on simulation modeling was developed and applied to identify potential water security and environmental impacts across upstream and downstream locations (7,8). The methodology allows the Niger Basin Authority to decide on the final rules for prioritization of investment projects. The final framework (8,9) significantly expanded the authority’s original decision criteria for including proposed investment projects, and now includes the option of using simulation tools to analyze transboundary water and environmental implications of proposed activities.

The Nexus approach and framework were adopted by the Niger Basin Authority, as affirmed in a keynote address by M. Abderahim Bireme Hamid, Executive Secretary of the Niger Basin, in September 2021 (10). The approach will be further institutionalized during 2022.
References cited:


Quantification: <Not Defined>

Gender, Youth, Capacity Development and Climate Change:

Gender relevance: 0 - Not Targeted
Youth relevance: 0 - Not Targeted
CapDev relevance: 2 - Principal

Main achievements with specific CapDev relevance: The focus of the activity was to build capacity for the Niger Basin Authority and its member countries on the Nexus approach toward mainstreaming Nexus in its operational plan (3,7).

Climate Change relevance: 1 - Significant

Describe main achievements with specific Climate Change relevance: The Niger Basin Authority planning seeks to nexus of extreme water, energy and food insecurity, environmental degradation, and adverse climate change impacts that the basin encounters.

Other cross-cutting dimensions: <Not Defined>
Other cross-cutting dimensions description: <Not Defined>
Outcome Impact Case Report link: Study #4614
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