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Nexus Action Plans

Implementing and mainstreaming the Water-Energy-Food Security Nexus
in five regions



Presentation at DEVCO Nexus Training Workshop
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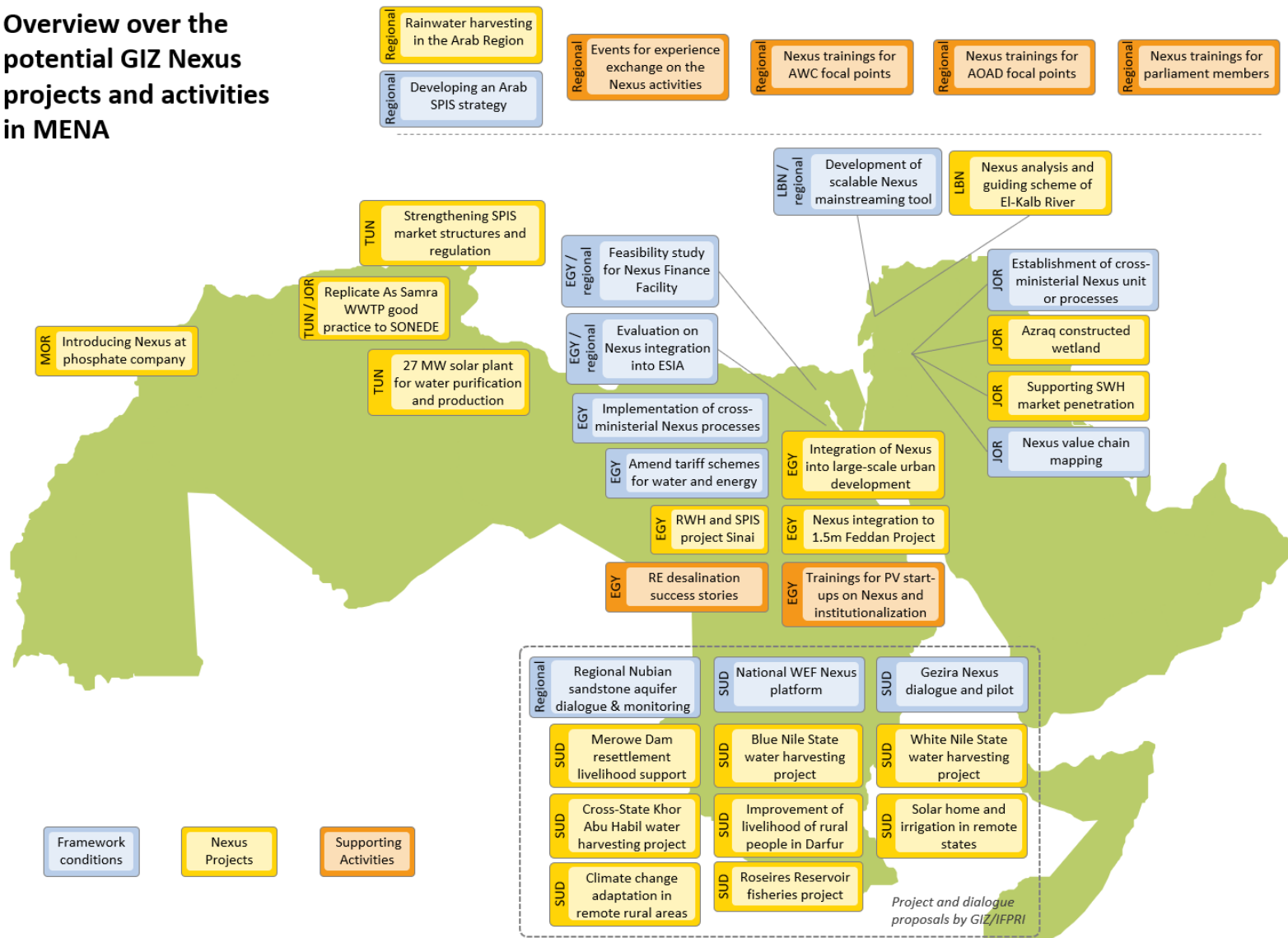
Head of Program Component WEF-Nexus, GIZ

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Nexus Action Plans

- 5 regional Nexus Action Plans have been elaborated with a selection of Nexus Projects for Phase II of the Nexus Regional Dialogue Programme
 - „Selection Menue“
 - Living documents, new and additional proposals e.g. from EU Delegations are most welcome.
 - Collaboration on/support to listed projects would be wonderful 😊!

Overview over the potential GIZ Nexus projects and activities in MENA



Nexus Action Plan MENA Region

- **Azraq constructed wetland, Jordan**
- **Integration of the Nexus approach into urban development, Egypt**
- **Supporting the market penetration and auditing of SWH, Jordan**
- **Strengthening SPIS market structures and regulation, Tunisia**
- **Nexus analysis and guiding scheme for El-Kalb River, Lebanon**
- **Replicate WWTP good practice As-Samra to SONEDE/ONAS, Jordan to Tunisia**
- **27 MW solar plant for water purification and production, Ghadir Al-Qalah, Tunisia**
- **Nexus integration to 1.5m Feddan Project, Egypt**

Nexus Action Plan MENA Region

- **Rainwater harvesting in the Arab Region, regional**
- **RWH and SPIS project in South Sinai, Egypt**
- **Introducing Nexus at phosphate company (OCP), Morocco**
- **Merowe Dam resettlement livelihood support, Sudan**
- **Blue Nile State water harvesting project, Sudan**
- **White Nile State water harvesting project; Sudan**
- **Cross-state Khor Abu Habil water harvesting project, Sudan**
- **Roseires Reservoir fisheries project, Sudan**
- **Solar home and irrigation in remote states, Sudan**
- **Climate change adaptation in remote rural areas, Sudan**
- **Program on improvement of livelihood of rural people in Darfur region (5 states), Sudan**

Nexus Action Plan MENA Region

- **Establishment of cross-ministerial Nexus unit or processes, Jordan**
- **Development of cross-ministerial planning and operational processes for Nexus topics, Egypt**
- **Feasibility study for Nexus Finance Facility, Egypt**
- **Evaluation on Nexus integration into ESIA, Egypt**
- **Developing an Arab SPIS strategy, regional**
- **Development of scalable Nexus mainstreaming tool, Lebanon**
- **Nexus value chain mapping, Jordan**
- **National WEF Nexus platform, Sudan**
- **Gezira Nexus dialogue and pilot, Sudan**
- **Regional Nubian sandstone aquifer dialogue and monitoring, regional**

Nexus Action Plan MENA Region

Regional coordinator Nexus Dialogue MENA Region

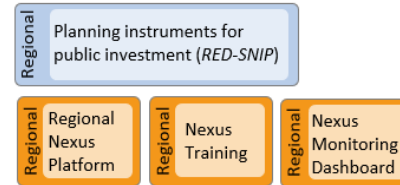
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Overview over the potential GIZ Nexus projects and activities in Latin America



Nexus Action Plan Latin America

- **Development of Nexus smart water distribution statutes for a multipurpose dam, Costa Rica**
- **Nexus pilot project to demonstrate the use of solar and biomass applications for water, energy and food security in rural areas, Guatemala**
- **Integration of the Nexus perspective in hydropower plant and related basin management and climate change adaptation project, Nicaragua**
- **Integration of the Nexus perspective in the design of a substantial cross-province water transfer, Argentina**
- **Development of sustainable bioenergy projects, Cuba**
- **Transforming water-centered IRWM into truly multisectoral and Nexus-smart river basin planning, Peru**
- **The use of payments for ecosystem services for the rehabilitation of ancestral lagoons to improve WEF securities in rural a community, Peru**
- **Design of a multipurpose dam, Honduras**
- **Development of Nexus-smart planning instruments for national public investment systems, LA regional**

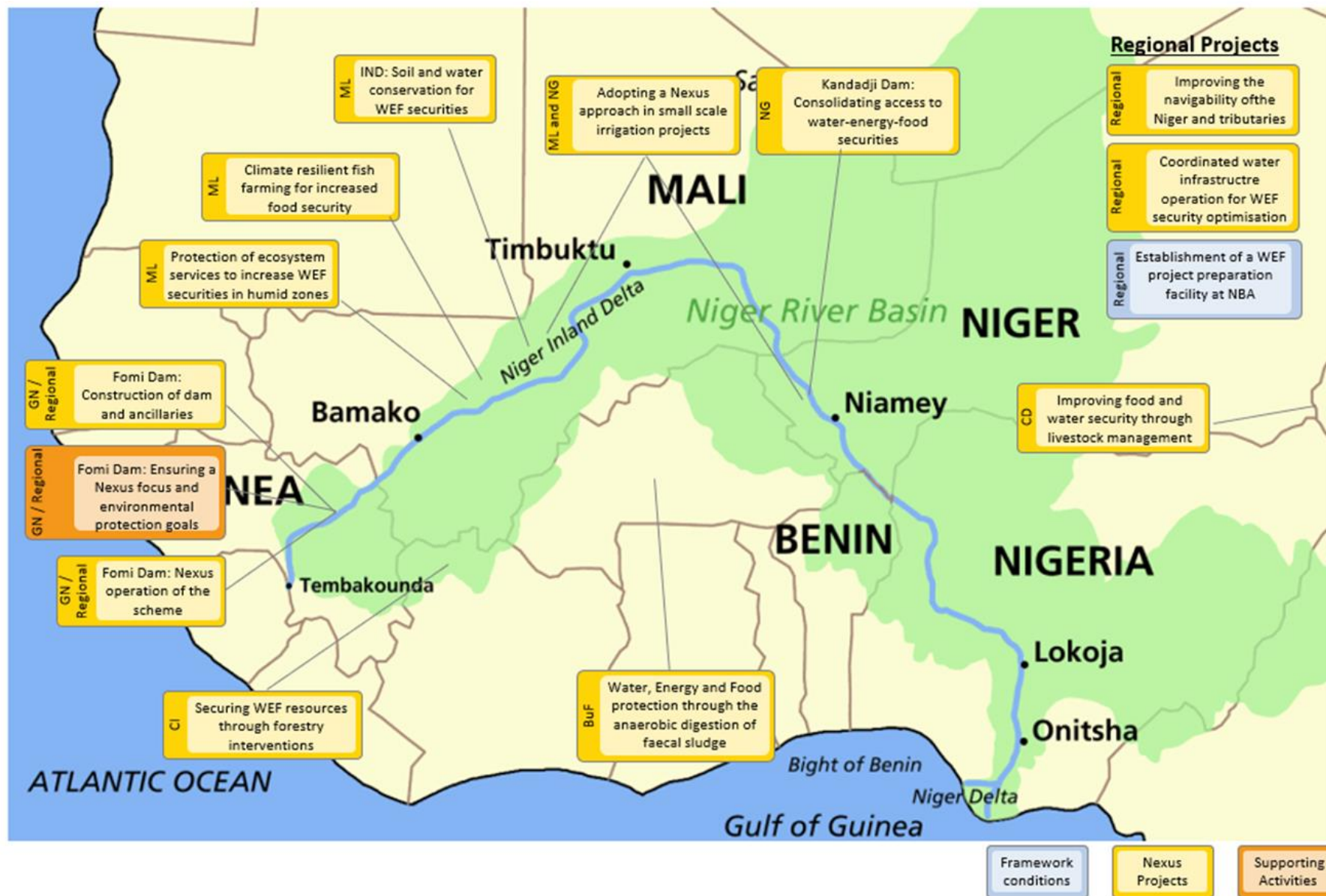
Nexus Action Plan Latin America

- **Development and implementation of a new policy for energy subsidies in irrigation agriculture, Argentina**
- **Integration of Nexus in the new National Water Authority, Colombia**
- **Development of a methodology to assess the country's bioenergy potential, Cuba**
- **Transforming IWRM planning into Nexus-smart river basin planning, Bolivia**
- **Nexus-smart operation of multi-purpose dams to optimize sector benefits and better adapt to climate change, Bolivia**
- **Establishment of a Nexus-smart basin committee for the Rio Tempisque, Costa Rica**
- **Formalize an existing Nexus-relevant basin committee, Ecuador**
- **Establishment of a Nexus committee in Antinaco-Los Colorodas, La Rioja Province, Argentina**

Nexus Action Plan Latin America

- **Regional Nexus Platform, Nexus Training, Nexus Monitoring Dashboard, regional CEPAL**
- **Regional Coordinator Nexus Regional Dialogues Latin America: Antonio Levy, GIZ, contact: antonio.levy@giz.de**





Nexus Action Plan Niger Basin

- **Construction of the Fomi Dam and ancillary structures, Guinea**
- **Nexus operation of the Fomi dam, regional**
- **Consolidating access to water-energy-food securities in resettled areas of the Kandadji Dam Project, Niger**
- **Soil and water conservation to decrease erosion and sedimentation in the Niger basin for water and land security, Mali**
- **Increasing WEF securities in agriculture using a nexus approach in small scale irrigation projects, Mali and Niger**
- **Improving the navigability of the Niger and its major tributaries for increased trade and food security, regional**
- **Climate resilient fish farming and transformation for increased food security, Mali**
- **Increasing food security and water efficiency through improved livestock management, Chad**

Nexus Action Plan Niger Basin

- **Protection of ecosystem services to increase WEF securities in humid zones, Mali**
- **Coordinated dam operation in the Niger basin for water, energy and food security, regional**
- **Securing WEF resources through forestry interventions, Ivory Coast**
- **Water, Energy and Food protection through the anaerobic digestion of fecal sludge, Burkina Faso**
- **Establishment of a project preparation facility for water energy and food security projects in the basin/region, regional**

Luca Ferrini, Regional Coordinator Nexus Dialogue Niger Basin, GLZ, contact: luca.ferrini@giz.de



Nexus Action Plan SADC Region

- **Songwe River Basin Development Program (SRBDP)**, Songwe River Basin (Malawi & Tanzania)
- **Batoka Gorge Hydro-Electric Scheme**, Zambia/Zimbabwe
- **Lesotho Highlands-Botswana Water Transfer (LBWT) Study+ Orange-Senqu Basin investment planning**, Orange-Senqu River basin
- **Makhaleng Basin Integrated catchment management**, Lesotho
- **Lesotho lowlands water supply scheme—Zone 1-7**, Lesotho
- **Multi-sectorial Investment Opportunity Studies – Okavango**, Okavango basin
- **Portfolio of livelihood projects in Zambezi river basin**, Zambezi basin
- **The Kikonge Multipurpose Dam, Hydropower and Irrigation (Ruhuhu) Project**, Tanzania
- **Mupamatenga Hydropower Project**, Malawi

Nexus Action Plan SADC Region

- **Lower Mazowe Dam, Zimbabwe**
- **Water supply and sanitation—Kinshasa, DRC**
- **Kobong Pumped Storage Dam and Hydropower Plant, Lesotho**
- **Polihali Hydropower Dam and Transfer Tunnel to Katse Dam (LHWP-Phase II), Lesotho**
- **Nondvo multipurpose dam, Eswatini**
- **Lomahasha/Namaacha water supply, Mozambique and Eswatini**



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Nexus Action Plan Central Asia

- **Programme Direction 1: Integrated Water Resource Use:**
 - Project 1.1: Modernization and introduction of SCADA and **sustainable exploitation** of hydrotechnical facilities in the **Syr Darya River Basin**;
 - Project 1.2: **Enhancing the reclamation condition of irrigated land** in the Amu Darya and **Syr Darya River Basins**;
 - Project 1.3: **Safety of dams** and other hydrotechnical facilities in **Central Asia**: development of the potential and regional cooperation;
 - Project 1.4: **Improvement of the WRM in the Amu Darya River Basin** through the rehabilitation and modernization of the water facilities and interstate legislative framework.
- **Programme Direction 2: Environment Protection:**
 - Project 2.1: **Rehabilitation of the Aral Sea ecosystem** to combat desertification and land degradation;
 - Project 2.2: **Integrated disaster risk management in the Aral Sea Basin.**

The Nexus Regional Dialogue Central Asia

- **Programme Direction 3: Social and Economic Development:**
 - Project 3.1: Ensuring **sustainable water and power supply** to rural communities of Central Asian countries;
 - Project 3.2: **Integrated development of eco-and agro-tourism** with elements of ethno-tourism in protected natural areas of the Aral Sea basin.

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Thank you very much for your attention !!!

