

Adapting to Climate Change Impacts through Smart Irrigation and WEFE Nexus Approach in Ghar El Melh Wetland, Tunisia (ACCISI-GEM)

ACTION PLAN

Activities/ Thematics	Objectives of the Action/Thematic	Sub-Activities	Involved Actors	Duration	Success Indicators	Risks and Challenges
Creation of a WEFE Nexus Monitoring Committee	Ensure the implementation of the coordination and collaboration model for WEFE Nexus actions based on the core team's work results	Define the composition of the team (members)	Project Core Team	Continuous	Number of meetings held and decisions made. Participation rate of members in meetings	Lack of commitment from some members. Coordination difficulties between institutions
	Develop the vision, mission, values, and functioning mode of the committee					
	Define clear terms of reference for the committee					
	Establish a member rotation mechanism to ensure representativity					
	Organize follow-up meetings (frequency, agenda)					
Formalize meeting minutes and decisions						
Integration of Subsidies into the Funding Scheme	Facilitate and accelerate access to funding for WEFE Nexus projects	Analyze existing subsidy mechanisms	APIA-UTAP	6 months	Amount of subsidies granted to WEFE Nexus projects. Number of	Administrative complexity and slow procedures. Lack of

	<p>Identify stakeholders in project financing and involve them in discussions</p> <p>Conduct consultations with financial institutions to mobilize additional funding (green funds, public-private partnerships)</p> <p>Develop a practical guide for accessing subsidies</p> <p>Propose modifications to the financing scheme to integrate subsidies aligned with WEFE Nexus best practices</p> <p>Simplify procedures (administrative files and timelines for subsidy access)</p>				<p>projects funded</p>	<p>transparency in the subsidy allocation process</p>
<p>Contact the CNDD/Supreme Council for the Environment and Sustainable Management (RN)</p>	<p>Integrate WEFE Nexus into national sustainable development policies and facilitate political leaders' commitment to the cause</p> <p>Target the most relevant ministries as a priority</p> <p>Develop strong arguments and quantitative data to convince decision-makers</p> <p>Organize presentation and discussion meetings with CNDD members</p>	<p>Prepare documents for presenting the WEFE Nexus and recommendations for its integration into national policies based on validated research data</p>	<p>Government Presidency - MI - MARHP - ME - ANME - Ministry of Education - Ministry of Finance - MPD - Ministry of Higher Education - Ministry of Health - Ministry of Tourism - Ministry of Transport - General Assembly</p>	<p>Continuous</p>	<p>Concrete commitments made by CNDD to integrate WEFE Nexus into national policies. Creation of a specific working group on WEFE Nexus within CNDD</p>	<p>Lack of availability of decision-makers. Difficulty obtaining concrete and long-term commitments</p>

	Monitor commitments made by CNDD					
Creation of a Validated Research Results Database	Centralize knowledge and evidence on WEF Nexus in Tunisia	Research and selection of relevant quantitative, qualitative, technical, and socio-economic studies and reports on WEF Nexus in Tunisia	IRESA-CRDA-ONAGRI	1 year	Number of studies/reports integrated and validated Usage rate of the database by stakeholders. Update frequency and data analysis. Coverage rate of data in targeted regions	Lack of quality data available. Coordination difficulties between institutions and stakeholders. Lack of resources for long-term maintenance
	Validation of results by experts and researchers					
	Document lessons learned and best practices					
	Develop and publish the validated database online					
	Define inclusion and exclusion criteria for data					
	Formalize a regular update process through a feedback loop for improvement					
Scaling Up Pilot Trial Results	Deploy effective WEF Nexus solutions on a larger scale (regional, national, and international)	Select pilot projects to be scaled up (clear criteria)	Project Core Team	2-3 months	Number of pilot projects successfully scaled up. Total agricultural area impacted by scaling up. Measurable impact on water and energy consumption	Resistance to change from some farmers Lack of adequate infrastructure in certain areas. Higher-than-expected scaling costs
	Define monitoring and evaluation indicators for scaling up					
	Adapt pilot projects to different contexts					
	Support farmers in implementing solutions					
	Create a reference of sustainable economic models and incentives (identifying pilot sectors, incentive					

	<p>mechanisms through subsidies, support, cooperatives, credits, and financing lines, public-private partnerships)</p> <p>Allocate a specific budget for scaling up</p>					
Creation of a Water-Energy Nexus Portal	<p>Facilitate access to information and promote WEFE Nexus best practices</p> <p>Define the portal's functionalities and content (mapping, forum, library, news, etc.)</p> <p>Develop and launch the portal (ensure a mobile version, set up an efficient content management system)</p> <p>Promote the portal to different target audiences</p>	Conduct a needs assessment study among potential users	IRESA-CRDA-ONAGRI	12-18 months	Number of unique and regular visitors. User engagement rate (number of downloads, comments, forum participation)	Technical development and maintenance difficulties. Lack of dedicated human resources for portal management
Development of a Training Program on Best Practices for WEFE Nexus (Smart Irrigation and Renewable Energy)	Strengthen stakeholder capacities on WEFE Nexus to prepare them for adoption and scaling	<p>Design of training modules (content, interactive teaching tools, concrete case studies, duration, materials, target audience profiles)</p> <p>Define targeted competencies and trainer selection criteria</p> <p>Adapt content to target audiences (farmers, technicians, advisors)</p>	AVFA, CRDA, IRESA, Private Advisors, NGOs, ANME	2 years	<p>Number of people trained by audience type</p> <p>- Participant satisfaction level</p> <p>- Practical application of acquired knowledge (assessed after a certain period)</p>	<p>Lack of qualified trainers</p> <p>- Limited access to training for some target audiences (geographical distance, cost)</p> <p>- Difficulty in recruiting trainers with the required profile</p>

		Design a trainer certification system involving independent implementation bodies				- Lack of resources for training and trainer follow-up
		Develop the trainer training program (modules, duration, methods)				
	Developing a Network of Skilled Trainers in WEFE Nexus	Selection and training of trainers			Number of trainers trained and certified - Quality of training delivered by new trainers (assessed by participants)	
		Organize and implement training sessions				
		Establish a follow-up and support system for trainers				
		Implement a monitoring system to assess training efficiency				
Training of Lead Farmers via AVFA	Create a network of lead farmers to disseminate WEFE Nexus best practices	Clearly define the role and missions of lead farmers after training (group facilitation, awareness, demonstrations, etc.)	AVFA, IRESA, Private Advisors	2 trainings every 6 months for 2 years	Number of lead farmers trained - Number of farmers reached by awareness actions - Number of new WEFE Nexus practices adopted due to lead farmers' influence	Difficulty in identifying and mobilizing motivated lead farmers - Lack of follow-up and support for leaders after training - Lack of qualified trainers in certain technical fields - Difficulty in mobilizing public sector technicians
		Selection of lead farmers (criteria and selection guide)				
		Training of lead farmers on smart irrigation techniques, solar energy, financing mechanisms, and available funding lines				
		Networking lead farmers and integrating them into the platform				

<p>Training of Technicians (Public and Private)</p>	<p>Improve technicians' technical skills in WEFE Nexus solutions</p>	<p>Identification of training needs for technicians</p> <p>Involve private sector companies in the design and implementation of training</p> <p>Develop specific training modules (installation, maintenance, advisory services, etc.)</p> <p>Offer recognized professional certifications</p> <p>Organize training sessions</p>	<p>CRDA, IRESA, Private Sector Advisors, AVFA</p>	<p>2 trainings every 6 months for 2 years</p>	<p>Number of technicians trained per topic.</p> <p>Improvement in participants' technical performance (assessed in the field)</p>	
<p>Implementation of a Communication and Awareness Campaign</p>	<p>Raise awareness among target audiences and decision-makers about the importance of adopting WEFE Nexus best practices</p>	<p>Conduct a preliminary study to identify the most effective communication channels for reaching different target audiences</p> <p>Develop a digital communication strategy</p> <p>Define key messages and target audiences for the campaign</p> <p>Select communication channels (traditional media, social networks, events, etc.)</p> <p>Create communication materials (videos, brochures, articles, etc.)</p> <p>Monitor and evaluate the impact of the campaign</p>	<p>AVFA, UTAP, MARHP, ANME, ANPE, OTEDD</p>	<p>2 years</p>	<p>Number of people reached by the campaign. Changes in knowledge and attitudes towards WEFE Nexus (measured through surveys)</p>	<p>Difficulty in assessing the real impact of the campaign</p> <p>- Misinterpretation or misunderstanding of messages by target audiences</p>

Creation of a Multifunctional Digital WEFE Nexus Platform	Provide a collaborative and exchange space on WEFE Nexus	Define platform functionalities (forum, document sharing, webinars, educational resources, awareness)	MARHP, ME, UTAP, UTICA, APIA, ENDAFE, MIME, UGTT	18 months	- Number of registered platform members	- Technical development challenges
		Conduct a study to identify user needs			- Usage rate of different features	- Lack of active member participation
		Develop and launch the platform				- Unavailability of funding
		Ensure compatibility with mobile devices				
		Promote the platform among key stakeholders				
		Develop a business model to ensure platform sustainability and autonomy				
Identification of financial, human, and material resources needed for each activity	Ensure feasibility and sustainability of planned actions	Develop a budget forecast for each activity	Core Team	6 months	- Detailed budget validated by stakeholders	- Difficulty in accurately estimating actual costs
		Propose potential funding sources			Identify financing mechanisms	Lack of external financial support