Coordinated Water-Food-Ecosystem Nexus and Sustainable Development Strategies in the Typical Arid and Semi-arid Regions

Ocation A. Comand Information				
Section 1: General Informat Summary	Choosing the Hetao Irrigation Area in the Yellow River Basin of China			
,	and the Nile Delta Irrigation Area in Egypt as the research area, Nanjing			
	Hydraulic Research Institute will collaborate with Egyptian organizations			
	for research of water-food-ecosystem synergistic security in ecologically			
Duran and Name (a)	fragile regions under global change.			
Proponent Name(s)	Proponent Name: Nanjing Hydraulic Research Institute, China. Partners:			
	National Water Research Center, Egypt. Soil, Water and Environment			
	Research Institute, Egypt			
Proponent Type	International Organizations and Civil Society Organizations			
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Region	Asia Pacific			

Section 2: Commitment		
Linkages to SDG 6	Increase Water-Use Efficiency and Ensure Freshwater Supplies;	
	Implement Integrated Water Resources Management;	
	Protect and Restore Water-Related Ecosystems;	
Target	To provide scientific backing for addressing diverse challenges of	
	ecological environment evolution and sustainable development under	
	global change.	
Linkages to other SDG	No Poverty;	
	Zero Hunger;	
	Sustainable Cities And Communities;	
	Climate Action;	
	Partnerships For The Goals.	

Section 3: Actions and Outcomes to Achieve Targets				
Relevant Sub-Theme	Water Security and Prosperity;			
	Water for Humans and Nature; Disaster Risk Reduction and Management;			
	Governance, Cooperation and Hydro-diplomacy;			
	Knowledge and Innovation.			
Actions and Outcomes	To research in			
	(1) Dynamic monitoring of water-food-ecosystem elements;			
	(2) Security indicators and synergistic relationship between water-food-ecosystem under the SDGs framework;(3) Simulation model of water-food-ecosystem correlation;			
	(4) Critical security thresholds of water-food-ecosystem;			
	(5) Strategic approaches for sustainable human development under global			
	partnerships.			
Implementation Period	Start Date	January,1,2024		
	End Date	December, 31, 2026		
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