

Green Roads for Water Training in Sudan

Wad Madani, 15-20 January 2023

GR4W strategies and techniques for the different agroecological zones of Sudan (Taye Alemayehu)













Geology and soil



















2 COUNTRY CONTEXT

United Nations Environment Programme
 United Nations Environment Programme
 United Nations Environment Programme











Topography and climate

























Roads, climate variability and developments in upstream countries















Proposed GR4W regimes, interventions and main actors

Regime	Geo-environment	Issue/Risks	Intervention	Actors	remark
Areas of large	Clay cover zones	Flood water management			
irrigation schemes	(Also, GERD vs GR4W)	Water allocation			
		Sediment management			
		Fertility management			
		Flood recession farming			
Areas of spate	Clay, sandy	Supplementary moisture			
irrigation		Flood recession farming			
Flood plains	Neogene sediments in arid zones	Flood hazard to human			
		Damages to infrastructure, mainly roads			
Eastern Bush and woodland zone	Granitic basement				
Water-stressed rainfed agriculture zone	Dominantly clay	Water for humans and livestock			
		Occasional high flood risk			
Dominantly pastoral arid areas	Sandy with basement underlay	Water for humans and livestock			
		Occasional high flood risk	А		
		Wind erosion and dust-related problems	Water spreading		
		(health, visibility,	structure		
			Livelihood diversification		









Once the technical strategies and measures are ready:

- Stakeholder identification
- Identify roles and responsibilities of actors
- Establish a cooperation framework
- Consider PPP
- Develop short and long-term strategies, objectives and goals
- Identify and prioritize action areas
- Implementation
- Monitoring and evaluation
- Risk assessment



... Mohamed helped Duale — who invested \$120,000 of his own funds — to design the reservoir, and persuaded aid agency USAID to donate \$40,000-worth of polyethylene liner to prevent leakage. https://www.ft.com/content/78d1b4ac-263a-4b3a-a3d3-1bfa38a06fa8











Thank you!

For more information visit <u>www.roadsforwater.org</u> or send an email to <u>adeligianni@metameta.nl</u>