



Green Roads for Water Training in Sudan

Wad Madani, 15-20 January 2023

Implementation of GR4W for the Transport Sector

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Transport Sector:

The entity responsible for transport in Sudan is the Federal Ministry of transport.

It operates in four sectors land, air, maritime and river transport sectors.

With regard to GR4W approach the focus is the land transport sector and the two units under the supervision of the Ministry are:



Sudan Railways Corporation (SRC)

It is the body responsible for the Railways in Sudan regarding the policies, regulations, operation and maintenance.

GR4W concept can be incorporated by SRC for protecting the railway infrastructure and for guaranteeing the effective operations of railways along the year.

Land Transport Unit

Responsible for the Boarder Crossings and the regulation and supervision of the land transport processes.

The land transport unit is a major stakeholder in the GR4W approach as it represents the users category for the roads (travel buses and trucks).



The need for GR4W approach



Pictures highlighting the damages caused by seasonal floods on railways and roads systems

GR4W Regime: Areas of Intensive Irrigation

Issues:

1. Damage of infrastructure
2. Increased cost of maintenance
3. Stopping of the movement of goods



Proposed Interventions:

1. Coordination with the Roads and water sectors for finding innovative and integrated solutions
2. Include maintenance cost in the operational cost



GR4W Regime: Areas of Intensive Irrigation

Actors:

1. Ministry of Transport
2. Sudan Railways Corporation
3. Land Transport Unit
4. Private Sector (Sudanese Chambers of Transport Union)

Expected Challenges:

1. Fund
2. Community awareness and acceptance for solutions
3. Implementation period
4. Affects of Climate change

Responsibilities:

1. Supervision, Resource mobilization, coordinate with stakeholders
2. Design, Implementation, Operation and Maintenance
3. Regulate land transport process with private sector



GR4W Regime: Rain-fed Areas

Issues:

1. Damage of infrastructure
2. Increased cost of maintenance
3. Stopping of the movement of goods



Proposed Interventions:

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GR4W Regime: Rain-fed Areas

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Responsibilities:

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Expected Challenges:

1. Fund
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3. Implementation period
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GR4W Regime: Agropastoral Areas

Issues:

1. Damage of infrastructure
2. Increased cost of maintenance
3. Stopping of the movement of goods
4. Railway stations have major water problems
5. Lack of labor
6. Sand creep that covers the railway



Proposed Interventions:

1. Coordination with the Roads and water sectors for finding innovative and integrated solutions
2. Include maintenance cost in the operational cost
3. Small water harvesting projects
4. Strategic Planning for nomadic settlement
5. Increase the vegetation



GR4W Regime: Agropastoral Areas

Actors:

1. Ministry of Transport
2. Sudan Railways Corporation
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4. Private Sector (Sudanese Chambers of Transport Union)

Responsibilities:

1. Supervision, Resource mobilization, coordinate with stakeholders
2. Design, Implementation, Operation and Maintenance
3. Regulate land transport process

Expected Challenges:

1. Fund
2. Community awareness and acceptance for solutions
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4. Affects of Climate change



GR4W Regime: Coastal Areas (Shidyab region)

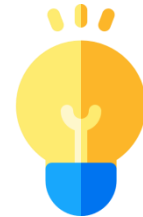
Issues:

1. Damage of infrastructure
2. Increased cost of maintenance
3. Stopping of the movement of goods
4. High increase in the transport fees causing an increase in the cost of goods
5. Connection difficulties



Proposed Interventions:

1. Coordination with the Roads and water sectors for finding innovative and integrated solutions
2. Include maintenance cost in the operational cost
3. Contribute to the water management projects



GR4W Regime: Coastal Areas

Actors:

1. Ministry of Transport
2. Sudan Railways Corporation
3. Land Transport Unit
4. Private Sector (Sudanese Chambers of Transport Union)

Responsibilities:

1. Supervision, Resource mobilization, coordinate with stakeholders
2. Design, Implementation, Operation and Maintenance
3. Regulate land transport process

Expected Challenges:

1. Fund
2. Community awareness and acceptance for solutions
3. Implementation period
4. Affects of Climate change
5. Speed of water flow





Thank you!

For more information visit www.roadsforwater.org
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