

# Integrated Risk Management

*Essential steps in tackling the alarming disaster and climate threats*

The IRM approach focus on the ability **to anticipate risks, to respond** to shocks and stresses, **to adapt** to periods of shocks and stresses, and **to transform** the environment, policies and practices, to address underlying risk factors and thus work on longer-term disaster resilience.



## Alarming trends

Temperature in South Sudan may rise by 1-2°C by 2060  
(WorldBank Climate Portal)

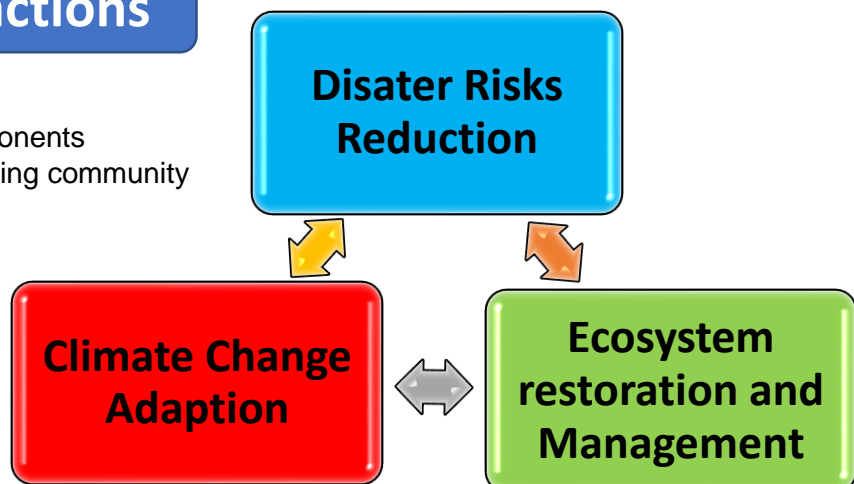
Rainfall reduced by 20% from 1900-2009  
(Richardson, 2011)

Most of South Sudan will be drier in Aug & Sept by end of 21 century.  
Rainfall more erratic.  
(IPCC, 2014a)

Forest area loss by 40% from 1973-2005  
(UNEP 2007)

## Three essential actions

Working on all these three components simultaneously is core to increasing community resilience against disaster risks.



Printed by

under the Consortium of

**Cordaid**



**PARTNERS FOR RESILIENCE**

## Disaster Risk Reduction (DRR)

Floods and droughts are common in South Sudan, leading to food insecurity, lack of safe drinking water, as well as displacements. Damage and losses are on the increase with grave consequences for survival, dignity, conflicts and crisis.

**Disaster Risk Reduction:** measures that reduces the impact of disasters. It aims to reduce socio-economic vulnerabilities to disaster as well as dealing with the environmental and other hazards that trigger them.



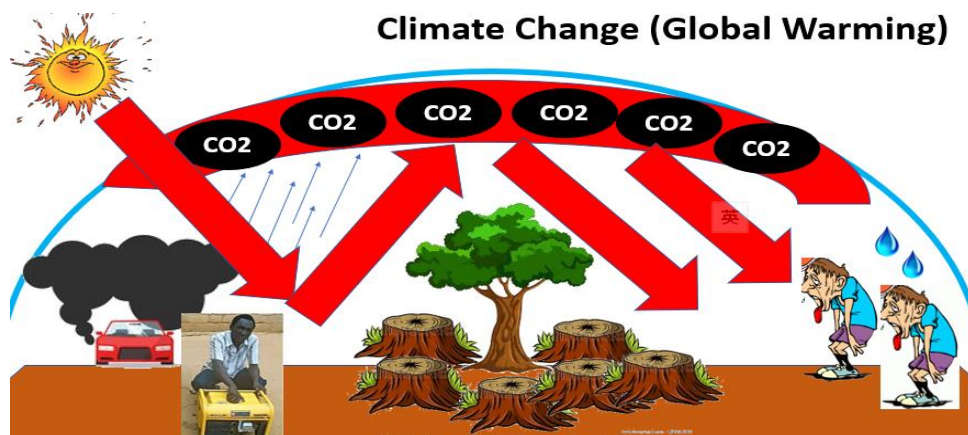
Key actions include:

- Mapping disaster risks
- Enhance awareness of disaster risks
- Making community disaster plans
- Improve disaster early warning
- Disaster mitigation measures – e.g. Water retention and protection to reduce drought
- Mainstream DRR in development

## Climate Change Adaption (CCA)

**Causes of climate change**

1. Burning fossil fuels
2. Widespread deforestation
3. Unfavourable agriculture practices



*Note:  
Deforestation  
reduces the  
capacity of  
absorbing CO<sub>2</sub>  
gas in the  
atmosphere,  
leading to  
global  
warming.*

**Climate Change Adaptation**

Anticipating the adverse effects of climate change and taking appropriate action to prevent or minimize the damage they can cause. It has been proven that well planned, early adaptation action saves money and lives later.

## Examples

Reduce deforestation (use of energy saving stoves)

The ideal energy saving cooking stove(Jiko la mkaa)

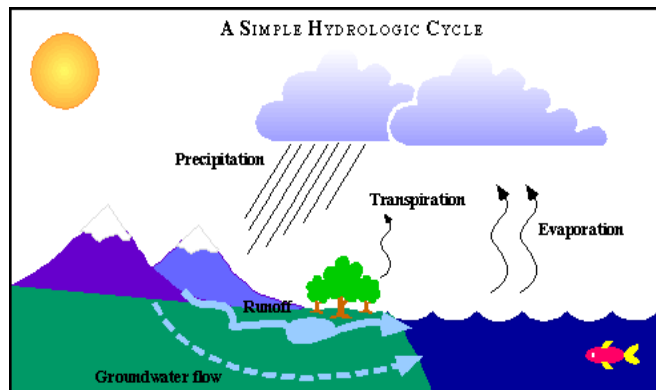


Use of clean energy (solar power/ hydro power)

## Ecosystem Restoration and Management

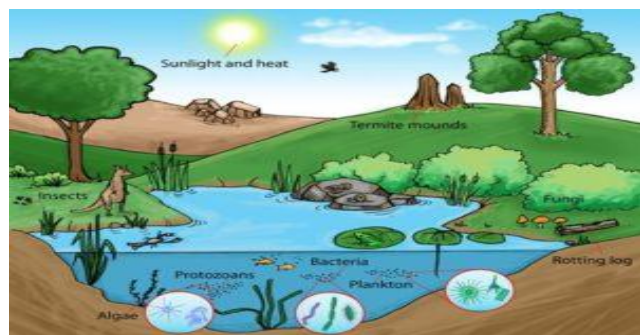
Healthy ecosystem maintains a good balance of natural resources – water, air, vegetation, etc. The diagram on the right shows a healthy cycle of water flow which help it more sustainable.

However, disruption of the ecosystem (e.g. deforestation) will disrupt the cycle, leading to gradual depletion of natural resources.



Healthy ecosystem is crucial in DRR and adaptation:

- They reduce hazards threat (e.g. healthy water recharge reduces the incidence of drought)
- They act as buffer against hazards;
- They are integral part of livelihoods.



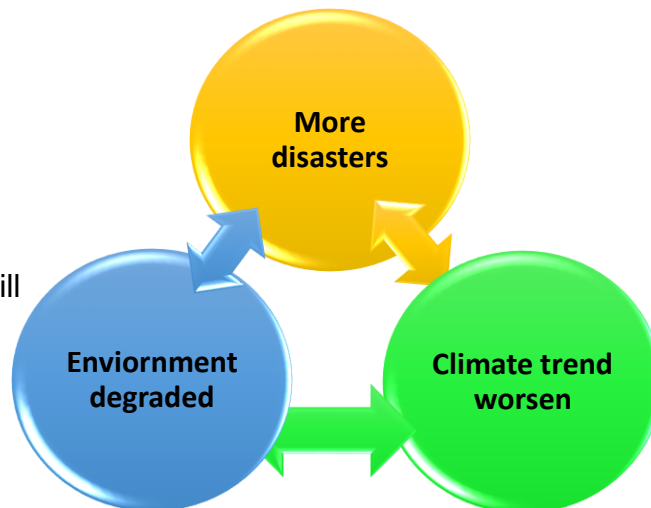
### Actions required:

- Policies and regulation of protection of natural resources
- Improved natural resources management
- Reforestation
- Water retention



## They are inter-related

As ecosystem degrades, they increased climate risks. There will be more extreme climate events (floods/droughts), and we are then more prone to disasters.



## Act now, before too late!

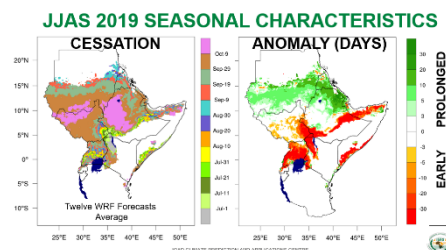
### Community actions:

- Promote awareness of disaster risks
- Make Community Risk Reduction Plans
- Promote Climate-smart tools – e.g. energy saving stoves, use of clean energy (e.g. solar)
- Promote alternative livelihoods to reduce relying on sales of charcoal/firewood
- Tree planting
- By-laws to reduce deforestation
- Reduce water and environment pollution



### Other stakeholders

- Provision and dissemination of climate information
- Demarcation of wetlands
- Establishing DRR institutions
- Financing DRR, CCA and Ecosystem restoration
- Disseminating DRR laws and policies
- **Promote Integrated Approach – integrating DRR, CCA and Ecosystem Restoration!**



## Partners for Resilience:



[www.partnersforresilience.nl](http://www.partnersforresilience.nl)



@partnersforresilience

Printed by

under the Consortium of

**Cordaid**



**PARTNERS FOR RESILIENCE**

