

COMMUNITY-BASED ADAPTATION TO CLIMATE CHANGE

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The Community-Based Adaptation (CBA) Programme of UNDP

- The goal of the Programme is to enhance **adaptation** and **strengthen the resiliency** of communities to address climate change impacts.
- CBA Programme is implemented by the United Nations Development Programme (UNDP) and largely funded by the Global Environment Facility (GEF) and other donors (Governments of Australia, Japan and Switzerland).
- **GEF-Small Grants Programme (SGP)** and **UNDP Country Offices** provides the **delivery mechanisms** and infrastructure.
- UNDP has partnered with the **United Nations Volunteers (UNV)** programme to enhance community mobilization, facilitate volunteers' contributions and ensure inclusive participation in the programme,
- UNV facilitates capacity building of partner non-governmental organizations (NGOs) and community-based organizations (CBOs).



- The CBA Programme is being implemented in **52 countries globally with 42 SIDS** and started in 2008
- There are **3 Projects** in the programme. **SPA CBA** (Global Pioneer Project), **MAP CBA** (Mekong-Asia and Pacific Regions) and **SIDS CBA** (Small Islands Developing States).
- Namibia, Niger, Morocco, Seychelles, Cape Verde, Comoros and Mauritius are the African countries covered by the CBA programme.
- Why are SIDS a Preference: This states have low availability of resources, small but rapidly growing populations, geographical remoteness, susceptibility to natural disasters, excessive dependence on international trade, high transportation and communication costs, and costly public administration



Community members performing Social Mapping



• Caribbean region:

- Antigua & Barbuda
- Dominican Republic
- St. Kitts and Nevis
- Barbados
- Grenada
- St Lucia
- Belize
- Guyana
- St. Vincent & Grenadines
- Cuba
- Haiti
- Suriname
- Dominica
- Jamaica
- Trinidad & Tobago

Pacific Region:

Cook Islands Nauru Solomon Islands Fiji Niue Tokelau Federated States of Micronesia Palau Tonga Kiribati Papua New Guinea Pacific Region continued

Tuvalu Marshall Islands Samoa Vanuatu

Other SIDS in Atlantic and Indian Oceans:

Cape Verde Guinea Bissau Sao Tome & Principe Comoros Maldives Seychelles Timor-Leste Mauritius



A case study on CBA as an Approach and Tool to Enhance Conservation Tillage Practices in Namibia





Objectives of SPA CBA in Namibia

Harnessing multiple coping strategies for a holistic approach towards community adaptation to climate change: the use of Conservation Agriculture (CA) in Namibia.





Context Description

- Floods from Angola and past war activities
- Soils in the north can be described as brittle with light, low clay contents and fertility, with serious lack of phosphorous.
- Forms hard pans and alkalinization due to prolonged water stagnation in the farms and fields
- Impacts on food, water securities and general livelihoods.



Target Community

- Eight villages (Olukonda, Esheshete, Elondo, OIKE and Siya/Kapako communities) and one centre for orphans, vulnerable children and their communities.
- The target groups comprise subsistence farmers (mostly women and youth)
- Target group depends on: 1) rain fed agriculture (planting pearl millet, maize, sorghum, ground nuts and cowpeas), 2)
 Natural resources (collecting fruit and oil from the wild) and; 3) livestock rearing both for subsistence as well as cash incomes
- Number of members of community reached are **2,900**



Climate Change Risks Factors

- Extreme local climate events evidenced by pronounced drought and floods,
- Increase and variable temperatures,
- Increasingly unpredictable rainfall patterns and amounts,
- Severe land degradation leading to loss of productive arable land and range,
- Loss of livestock, as well as high levels of deforestation and over utilization of natural resources.



The SPA CBA project is piloting **Six coping strategies in Namibia at different sites**. These strategies include:

- 1. Ensuring greater water security in the region in the face of increasing climate change pressures,
- 2. Production of vegetables irrigated by flood waters,
- 3. Improvement of dryland crop production,
- 4. Increased use of new and drought-resistant crops,
- 5. Introduction of energy efficient stoves and
- 6. Increased awareness about adaptation strategies.



This information helps inform community decisions on the selection of coping strategies, including whether more than one strategy can be implemented at a time.

Given the **complexity of climate change impacts**, this **multi-strategy risk-transfer approach** is necessary particularly for risk averse communities.



- Testing the Vulnerability Reduction Assessment (VRA) tool
- The UNV community consultative and mobilization instruments and methods,
- The Programme has generated invaluable knowledge, Practices and Lessons for Replication and Up-scaling.
- The VRA Methodology is briefly discussed in the next 3 slides



Vulnerability Reduction Assessment (VRA)

How ? When ?

VRA is composed **of 4 indicators**, that are transformed into **4 questions** (tailored to the local context).

These questions form the core of a **"VRA participatory workshop"**, that is organized at least **3 times** in the course of a project, in the community (at the beginning, at mid-course of project implementation, at the end).

UNDP Adaptation Policy Framework Step	VRA Indicator	VRA Question In these examples, we consider the case of a community facing increasing drought risks	
Assessing current vulnerability	1. Vulnerability of livelihood/welfare to existing climate change and/or climate variability.	Example: What happens when there is drought? How does this affect you and your community?	
Assessing future climate risks	2. Vulnerability of livelihood/welfare to developing climate change risks.	Example: What would happen if drought was twice as frequent? How would this affect you and your community?	
Formulating an adaptation strategy	3. Magnitude of barriers (institutional, policy, technological, financial, etc) barriers to adaptation.	Example: What stands in the way of adapting to increasing drought? What means do you or your community have to manage events occurring more frequently?	
Continuing the adaptation process	4. Ability and willingness of the community to sustain the project intervention	Example: Rate your confidence that the (project activity) will continue after the project period.	





Impact Assessment Systems (IAS)

WHAT

 Systematically capture and document off-site, indirect and longer-term impacts- *"ex-post* evaluation". Generates GEB Measurements

HOW

- Using proxy and development indicators while project is ongoing
- Using **structured QBS** during and after project closure
- External independent evaluations by consultants
 WHEN
- Minimum **5 years after project completion**-Done by UNDP EO



SGP's Impact Assessment System

Why?

Measure the **Global Environmental Benefits** and the **Livelihood / Empowerment** benefits generated by the project

What ?

• **GEB**

- Biodiversity-(# of species, innovations/new technologies, local/national policies)
- Land Degradation- (ha. of land restored, land sustainably managed, tons of soil erosion prevented, # of innovations/new technologies, local/national policies)

• Livelihood / Empowerment

- Poverty Reduction –(# of households or individuals who benefited from the project, income generation achieved through the project...)
- Capacity Building –(# of NGOs, community groups whose capacities were increased, #of women participating, support ensured from local / governmental institutions...)



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SGP's Impact Assessment System ctd.

Who, How ? And When ?

At <u>project conception</u>, chose one GEB indicator and one LIVELIHOOD / EMPOWERMENT indicator

<u>During project development</u>, measure the baseline values of the indicators and prepare your monitoring plan (in project proposal) –

<u>During project implementation</u>, measure the evolutions of the indicators (project reports) – RESPONSIBILITY OF THE GRANTEE

<u>At the end of the project</u>, measure the final indicator (final participatory evaluation / final report) – RESPONSIBILITY OF THE GRANTEE

Monitoring Plan –

-What you will measure (indicator)
-What is the target value of your indicator
-How you will measure it
-When you will measure it
-Who will measure it

IAS	How it will be	When it will	Target
Indicator	measured	be measured	value to be
to be			achieved by
measured			project end
Nb of ha	Addition of the	Regular	4 ha of
of	surface of all	monitoring	farmland +
degraded	the pilot sites	after	10 ha of
land	that have been	completion	forest land
restored /	planted, and	of each	
combat	that have	activity + At	
land	benefitted from	the end of	
degradatio	resilient farming	the project	
n	practices		
Nb of	For all activities,	Regular	-One NGO
NGOs and	a list of	monitoring	-3
Communit	participants is	after	community
y Groups	made,	completion	groups
participati	desegregating	of each	(farmers,
ng /	the different	activity + At	women,
capacity	community	the end of	youth).
building	groups (farmers,	the project	
	NGO members,		
	women, elders)		



Summary of practice in Namibia

- To build resilience and adaptation to climate change induced risks for agro-pastoral communities through improved soils management practices
- Includes conservation agriculture in combination with appropriate crop rotation and composting practices-Long Term
- Identification of climate change drivers, risks and adaptive solutions-Short Term
- Improved Yields from 209 kg/ha to 1,176 kg/ha



Critical Success Factors

- Awareness created and strategic mobilization in the communities
- Applied and Appropriate Technology support
- Using the known's (Seeds source) to the unknowns (testing new technologies)
- The need to have a *functioning* and continuous community based and managed support systems

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Replicability of Practices

- Ideal for unpredictable rainfall events and patterns as well as for an arid area with <u>light</u>, <u>alkaline soils</u> such as those of northern Namibia
- Contributes to improve the soils nutrient levels
- Returned plant residues adds to increased crops yield at <u>household farm gates</u> levels
- Can be organized thru a "Farmer" day modelled along the lines of a "farmer's field schools" approach for a wider outreach to all target grps.

















