



A photograph showing a group of farmers in a rural setting, looking down at a document together. They are surrounded by tropical vegetation like palm trees and banana plants. A blue circular graphic containing the text 'CEDRIG Light' is overlaid on the left side of the image.

CEDRIG
Light

Horti-Sempre Phase 2, Nacala Corridor in Northern Mozambique

Michael Fink, Fabian Mauchle
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Direction du développement
et de la coopération DDC

● Vue d'ensemble

Informations Générales

Contributors	Michael Fink, Swisscontact Fabian Mauchle, SDC, Suisse FRANCO SCOTTI, SWISSCONTACT, Brésil Tobias Sommer, SDC, Suisse Roberto Méndez, COSUDE-Ayuda Humanitaria, Bolivie
Objectif général	The overall objective of Horti-Sempre is to increase the annual net income of 25,000 smallholders by 30% against baseline by supporting the growth of the horticultural sector in Northern Mozambique in view of its proven importance as income creator.
Pays	Mozambique
Budget	6'500'000 CHF
Durée de l'activité	01/2017 - 12/2020 (48 months)

Sommaire

Description The overall objective of the Horti-Sempre Phase 2 Project is to increase smallholder's annual net income by 30% against baseline by supporting the growth of the horticultural sector in Northern Mozambique in view of its proven importance as income creator. To fulfil its mission and reach the overall objective, Swisscontact proposes for Horti-sempte Phase 2 a logic of intervention based on three main Outcomes that unfold around three main project components namely (1) inputs and practices, (2) irrigation and (3) sector competitiveness. OUTCOME No 1: Productivity of horticultural smallholders in the Nacala Corridor in Northern Mozambique increased OUTCOME No 2: Horticultural smallholders in the Nacala Corridor in Northern Mozambique increased their area under irrigation OUTCOME No 3: Market responsiveness and competitiveness of the horti-cultural sector in Northern Mozambique is increased The three components will be complemented with two transversal topics: Women's Economic Empowerment (WEE) throughout the different interventions and through special women targeted interventions and Access to existing funding options. Based on experience from Phase 1, Swisscontact believes that Horti-Sempre Phase 2 has the potential to reach 10'000 semi-commercial and 15'000 subsistence male and female smallholders in Northern Mozambique increasing their income by up to 30%.

Secteurs d'intervention

Agriculture
Développement rural

Sécurité alimentaire
Gestion de l'eau

Documents

- [MER_Climate Change Profile \(pdf, 1.2 Mo\)](#)
- [FANRPAN_Fact Sheet Moz \(pdf, 219.89 Ko\)](#)
- [WORLD BANK_Climate Change Profile Moz \(pdf, 2.61 Mo\)](#)
- [Presentation_Climate Data_Moz \(pdf, 1.01 Mo\)](#)

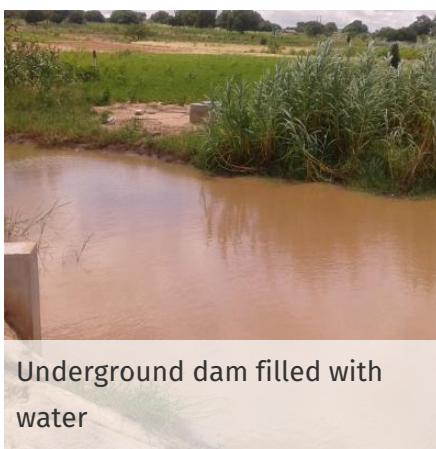
Images



Training on basic irrigation solutions

Training on agricultural practices

Construction of underground dam



Protected horticulture cultivation

Underground dam filled with water

Basic irrigation solution in use (hip-pump)

● Perspective des risques

Aléas dûs à la dégradation de l'environnement

Nom de l'aléa	Dégradation (terres, sols, écosystèmes, biodiversité)		
Exposition	Oui		
Commentaires	Soil degradation is frequently the result of poor conservation practices (no soil coverage, deep tillage, poor biodiversity) aggravated by heavy rains. Consequently, more inputs are needed resulting in a vicious circle of degradation.		
Conséquence	Key consequences are lower yields due to degraded soil and higher need of farmers to use inputs (fertilizers)		
	Probabilité	Gravité	Importance du risque
	Probable	Nuisible	Risque moyen

Nom de l'aléa	Pollution de l'eau (en surface et souterraine)		
Exposition	Oui		
Commentaires	Water pollution mainly in peri-urban areas due to urban water and soil contamination (e.g. from factories, waste, etc.).		
Conséquence	Key consequences are the loss in product quality, as well as potential health risks for consumers. Assessment of hazard is difficult because of limited data availability on water and soil quality.		
	Probabilité	Gravité	Importance du risque
	Probable	Peu nuisible	Risque faible

Nom de l'aléa	Nuisibles et épidémies		
Exposition	Oui		
Commentaires	Pests and epidemics occur because of poor crop rotation and lack of knowledge or availability of properly formulated defensives (pesticides, insecticides, fungicides). Pests and epidemics are occurring more frequently during the hot and rainy season compared to the cold and dry season.		
Conséquence	Key consequences are crop losses (sometimes failure) and that farmers avoid production in warmer and wetter months of the year		
	Probabilité	Gravité	Importance du risque
	Probable	Nuisible	Risque moyen

Aléas naturels (hydro-météorologiques et géologiques)

Nom de l'aléa	Vagues de chaleur		
Exposition	Oui		
Commentaires	According to the World Bank, the number of hot days per year increased by 25 in the last 40 years, and much of this has occurred during the southern hemisphere autumn. This corresponds to the first harvest cycle of many major grains across the country, with significant implications for agricultural pests and yields.		
Conséquence	Key consequences include a shortening of the growing season, crop failure (no yield) or crop losses (lower yields)		
	Probabilité	Gravité	Importance du risque
	Très probable	Nuisible	Risque élevé
Nom de l'aléa	Sécheresses		
Exposition	Pas sûr		
Commentaires	Since the 1960s, mean rainfall has decreased by an average of 2.5 millimeters per month (3.1%) per decade. Increased rainfall over the northern regions, highly variable conditions in the central regions, and persistent drought periods coupled with episodic floods in the south. In Northern Mozambique, seasonal droughts are occurring, meaning that rains are delayed.		
Conséquence	Delayed rains result in loss of seeds of rainfed crops (e.g. maize) and the need to rebuy and re-sow crops		
	Probabilité	Gravité	Importance du risque
	Probable	Nuisible	Risque moyen
Nom de l'aléa	Tempêtes, tornades et/ou ouragans, vents forts, tempêtes de sable		
Exposition	Oui		
Commentaires	Frequency of storms has increased, but events are seasonally concentrated and farmers normally wait with sowing until the risk has decreased.		
Conséquence	Destruction of basic infrastructure and crops in early stage of growth		
	Probabilité	Gravité	Importance du risque
	Peu probable	Nuisible	Risque faible

Nom de l'aléa Inondations

Exposition	Oui	
Commentaires	The proportion of days with heavy rainfall events has increased by 2.6% per decade according to the World Bank. The number of days with heavy rainfall currently amounts to ~25 per year. However, events are seasonally concentrated and farmers normally wait with sowing until this risk is lower.	
Conséquence	Destruction of basic infrastructure and crops in early stage of growth, destruction of trade infrastructure (e.g. bridges and roads)	
Probabilité	Gravité	Importance du risque
Probable	Nuisible	Risque moyen

Nom de l'aléa Erratic Rains

Exposition	Oui	
Commentaires	Recently, rainfalls in Northern Mozambique are out of usual patterns which farmers rely on. Tendency towards delayed rainfalls.	
Conséquence	It is difficult for farmers to predict the start of the rainy season. Due to a delayed start of the rainy season, the growing cycle is postponed into the hot season when it is difficult to produce horticulture. Higher risk of pests due to humidity.	
Probabilité	Gravité	Importance du risque
Très probable	Nuisible	Risque élevé

Aléas dûs aux changements climatiques (et à la variabilité du climat)

Nom de l'aléa Tendances générales à l'augmentation ou à la diminution des températures moyennes

Exposition	Non
Commentaires	Temperatures have generally increased by 0.6° C over the last forty years, with particularly pronounced increases observed during the hot season (September - March). This increase has so far not considerably affected horticulture as the vegetables are produced during the drier and cooler winter months (April - August).

Nom de l'aléa Changements dans la fréquence et l'intensité des phénomènes météorologiques extrêmes (ex : vagues de froid ou de chaleur, inondations, sécheresses, tempêtes, ouragans, cyclones)

Exposition	Non
Commentaires	Frequency of floods is increasing in the country, but mostly in the South and Centre where Mozambique does not control the dam system on the main river (e.g. Limpopo, Save, etc.). Other events (hurricanes, cyclones, etc.) are also concentrated in the South/Centre.

Nom de l'aléa	Modifications des saisons	
Exposition	Oui	
Commentaires	A shift of seasons is observed in Northern Mozambique. Average annual rainfall has remained similar (or even slightly increased). However, the precipitation patterns have changed. More erratic and locally concentrated rainfall is observed which often results in floods and a shorter growing season.	
Conséquence	Shorter growing season, longer idle season (hunger period - epoca de fome), unpredictability of sowing time, loss of first seeds (investment), extension of growing season into warmer months, loss of 1 or more production cycles	
Probabilité	Gravité	Importance du risque
Très probable	Nuisible	Risque élevé

Évaluation détaillée des risques nécessaire ?

Oui – Une évaluation détaillée des risques est nécessaire.

● Perspective des impacts

Estimer l'impact sur l'environnement

Milieu environnemental	Écosystèmes
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Élément de l'activité	Underground Dams
Impact sur l'environnement	Small-scale rainwater retention increasing soil humidity potentially changing the ecosystem; limited additional pollution due to the plastic used to build the dam

Milieu environnemental	Sol
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Élément de l'activité	Inputs (Fertilizer & Pesticides)
Impact sur l'environnement	Use of fertilizer and pesticides by horticulture smallholders is common. However, the used amounts are very limited due to a lack of financial resources. Thus, a small negative impact on the soils can be expected. The Project only gives technical advice following a market-approach and does not directly promote and increased use of fertilizers and pesticides for the horticultural production.

Estimer l'impact sur les changements climatiques

Élément de l'activité	Increasing volumes and de-seasonalization of horticulture production
Impacts sur les changements climatiques	Possibly decreasing emissions of Greenhouse Gases (GHG) due to local horticultural production and shorter transport routes. The international and inter-regional imports might decrease due to a higher availability of locally produced vegetables.

Évaluation détaillée des impacts nécessaire ?

Non – Une évaluation détaillée des impacts n'est pas nécessaire.