



A Social and Economical Responsible and Committed
Approach at the heart of Sahel

Study Case: Desert Date

An integrated approach



- From the very beginning, a sustainable supply is at the very heart of Ephylla approach and we pay greatest attention to the long term impact of our involvement
- The raw materials selected by Ephylla always follow very strict specifications with regard to environmental management, socio economic impact and product quality management.
- We see this approach as the best guarantee for long term supply and quality insurance.
- Vincent Bourgeteau, ethnobotanical specialist and Ephylla CEO, founded in 1999 the NGO Ephylla Concept which main objective is the valorization of natural intertropical substances.
- For nearly a decade Sub-Saharan Africa has become the preferred area for synergistic actions of Ephylla and Ephylla Concept.

An integrated approach

Cooperative and ethical
approach



Respect and preservation
of the ecosystem



R&D: byproducts
valorization



Resources and
income sharing



An integrated approach: Key Figures

Ecocert certified Area in Burkina Faso	1 4000 hectares
Fruits harvested	1500 tons/ year
Young plants planted	10000 / year
Volume of processed oil on site	50 tons / year
People involved from harvest to extraction	1200
Merit-based Scholarships awarded	120

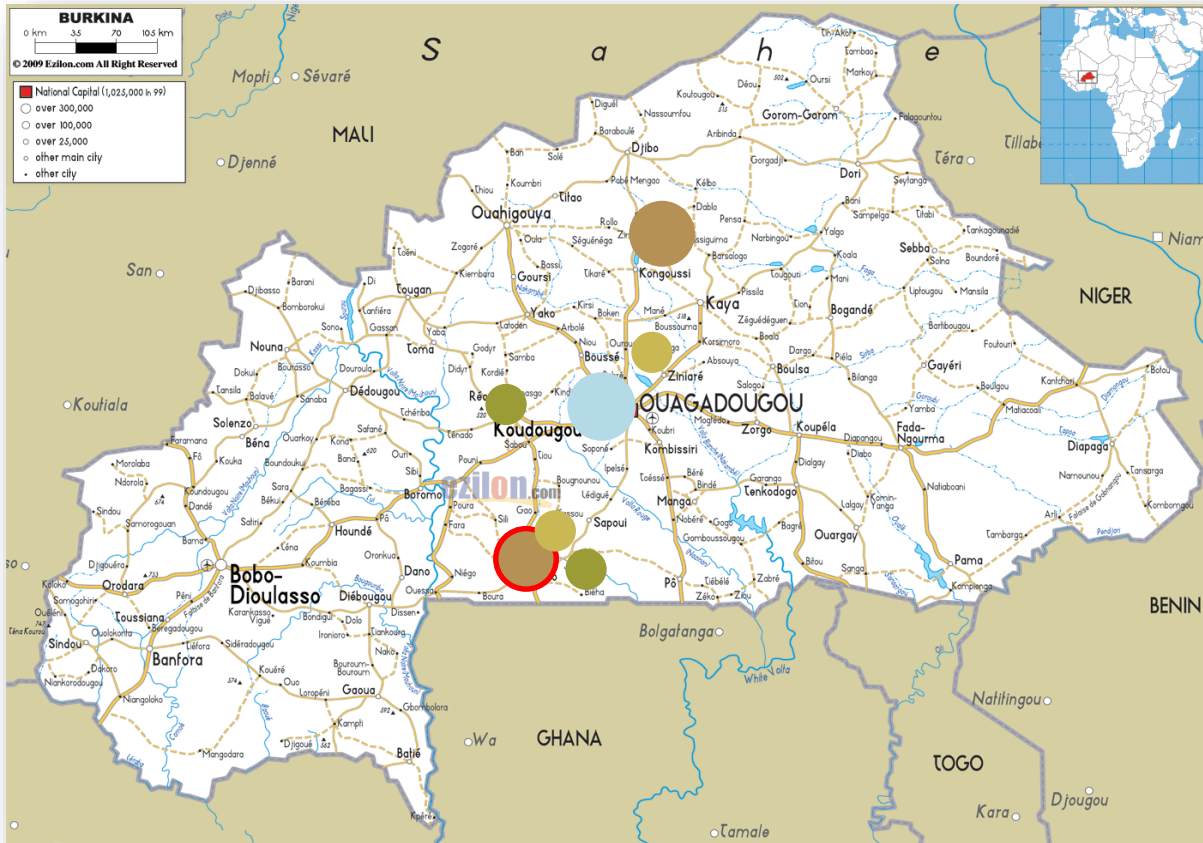
An integrated approach



- 14000 Ecocertified hectares made available exclusively
- 50 hectares of forest made available by traditional authority thanks to our charity programs
- 70 hectares of land made available by traditional authority thanks to our charity programs
- Industrial equipment in Joint Venture
- Tree nurseries



An integrated approach



-  Ecocertified area
-  Ecocertified Facility for oil production
-  Area made available by traditional authority
-  Tree nursery
-  Scholarship



The Desert Date Tree



- The most significant footprint remains the creation of the Desert Date seed oil sector which has required more than 8 years of implications on the ground including the know-how transfer to the local populations.
- This « supply chain » involves a plant whose species name is « *Balanites aegyptiaca* ». It is an arid savanna plant found especially on the entire periphery of the Sahara. This specific biotope classifies it among the extremophiles.
- This plant, able to remain green all year long, forms a true green shield by playing a permanent arm-wrestling with the mineral desert. It draws the moisture necessary for its survival thanks to an efficient root system capable of sinking very deeply into the ground. As a "pioneer plant", it is a green oasis that allows other plants to find shelter under its soothing shadow. Locally the plant is source of nourishment, the young leaves are consumed as spinach, the ripe fruits are appreciated and eaten like "candy" by children and the old people who find an invigorating food supplement. Finally, the seeds provide an oil by cold pressing, this latter is consumed as food locally, but also it is being used for cosmetic application.

The desert date oil: a story of men, women and nature



The Desert Date, an oasis of life at the border of the Sahel desert



The fruits of the tree are protected behind hostile thorns



The desert date oil: a story of men, women and nature



A typical village on the North of the Country



The farmer



The desert date oil: a story of men, women and nature



The solar sun drying is extremely efficient in this area.
Fruits are then sorted based on quality



The selected Fruits are stored inside the granary.
Most of the time granary is better constructed than
the house itself



The desert date oil: a story of men, women and nature



Our truck going village to village to collect the dried fruits



Fruit bags stored at the warehouse



The desert date oil: a story of men, women and nature



Seeds are separated from the pulp. This byproduct is locally used for feed



The manual sorting is replaced using a mechanical equipment nowadays



The desert date oil: a story of men, women and nature



The dried seeds



Dried seeds are manually sorted



The desert date oil: a story of men, women and nature



weighed

DATE	N°trousse	N°Agriculteur	Provenance	Carte ref	N°du site	Poids du sac brut (kg)	Poids du sac traité (kg)	De ché
08.02.17	515	461	Penon	05100	0701	16,20 - 15kg	11,40	
-	-	-	-	-	0701	13kg		
-	-	-	-	-	0702	13kg		
-	-	-	-	-	0703	14,20		
11.01.17	455	500	Penon	05100	0755	8,75 - 13kg	3,00	
-	-	-	-	-	0760	10kg		
-	-	-	-	-	0761	4,20		
-	471	451	-	-	0761	4,20 - 19kg	7,10	
-	-	-	-	-	0762	13kg		
-	-	-	-	-	0763	10kg		
-	-	-	-	-	0764	4,30		
-	500	438	-	-	0764	4,30 - 10kg	12,10	
-	-	-	-	-	0765	10kg		
-	-	-	-	-	0766	13,20		
11.01.17	271	265	Van-lacoste	05100	0809	11,60 - 15kg	6,35	
-	-	-	-	-	0810	3,60		

Traceability is properly maintained



08.02.17	235	233	Van-lacoste	05100	0838	17,30 - 19kg	2,55	
-	-	-	-	-	0839	10,60		



The desert date oil: a story of men, women and nature



Women are the pillars of the supply chain



Spontaneous good vibes at the end of the day



The desert date oil: a story of men, women and nature



The Ecocertified Desert Date oil facility where the seeds are first cold pressed



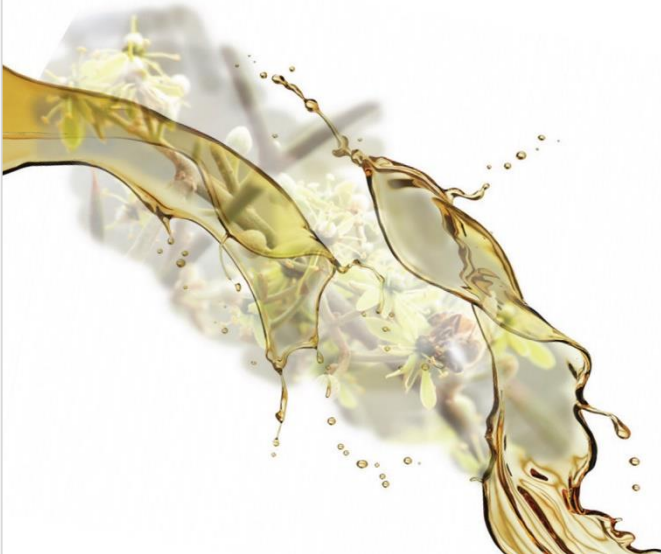
Here with the Ministry of Environment and the Director of the Forests and Water Agency



The Fruits of our R&D

Organic Desert Date Oil

A unique oil stemming from a responsible and ethical approach at the heart of Sahel



Lightderm

The only natural lightening strategy that human body knows



The Tree Nursery, an Agroecology Approach

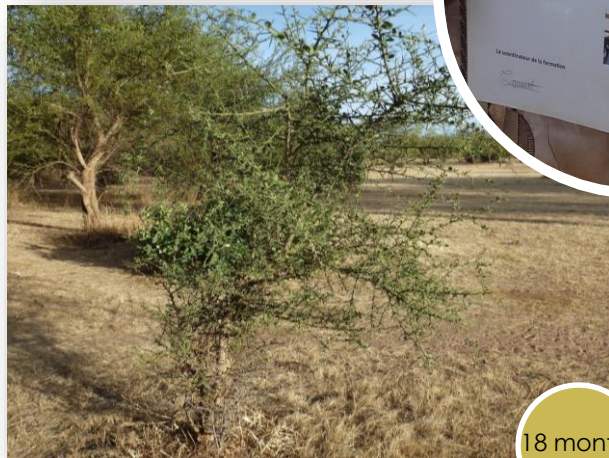


- Today recognized as an essential discipline, agroecology is raised by scientific circles to the forefront of solutions to climate change.
- Agroecology respects natural ecosystems and integrates the economic, social and political dimensions of human life. It designs a global approach which reconciles agriculture, ecology, productivity, human activity and biodiversity.
- By replacing humans at the heart of ecosystems, agroecology according to Terre & Humanisme provides a set of keys to successfully transitioning together.
- Its purpose is not only to take care of the soil, the plant, the animal or the human being, but also to consider all the elements of the ecosystem and social systems and to ensure the quality of their interrelations.
- In this sense, agroecology is a harmonious balance combining agriculture and ecology, quantity and quality, human activities and biodiversity, philosophy and techniques, ecosystems and social systems.

The Tree Nursery, an Agroecology Approach



1 month



18 months



3 months



- An Agro-ecology Animator follows these nurseries
- 15000 shrub plants per nursery (18-month cycle)
- Here a nursery near the Ouagadougou
- Other nurseries are put in place in the bush

The Moringa plantation



Drip Irrigation



Micro-Irrigation



- Moringa plantation models are being tested and funded by Ephylla

The ongoing organic sorghum plantation



- Several Hectars are dedicated to Customer Projects for conventional or organic projects
- The first area dedicated to the Organic Sorghum bicolor is set up during the rainy season

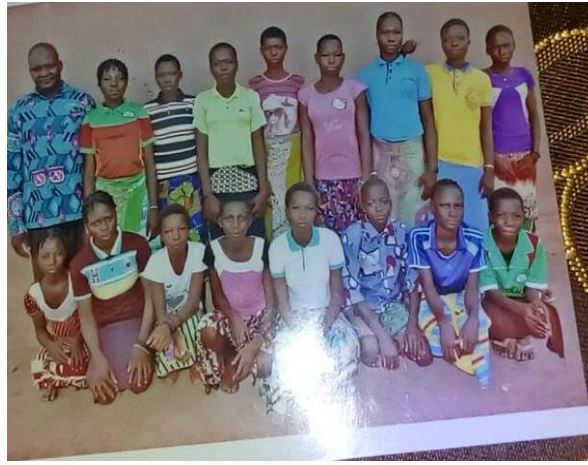
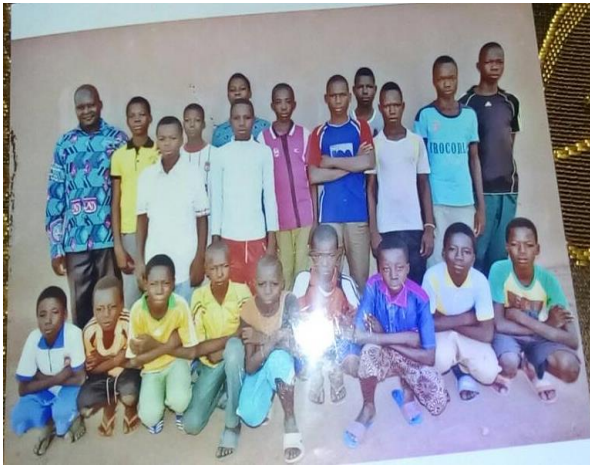
Knowledge sharing



- Transfer of the know-how to a group of several thousand women, today we teach them how to transform vegetable fatty substances into emulsions using a cold process
- **Crowdfunding example:** a micro workshop equipped for the manufacture of cold emulsions is about 4500 €



Merit-based Scholarships and school equipment funding



- 120 merit-based Scholarships awarded in 2018
- **Crowdfunding example:** a scholarship for the transition to middle school for the children of a collecting families is about 100 €



BURKINA FASO
ECOLE PRIMAIRE
DE KOLONKONDE
RAMONGO/KOUDOUGOU

ANNEE SCOLAIRE : 2017 - 2018

EPHYLA CONCEPT/ BOURSE D'ETUDES

N° d'ordre	Nom et Prénoms	Sexe	Classe	Kit scolaires	Adresses	Emargements
1.	ROUAMBA Rakissalogo	Masculin	CM2	01 sac d'écolier	74 60 61 61	
2.	ZONGO Marcel			06 cahiers de 200 P	76 03 33 21	
3.	KABORE Adama			06 cahiers de 100P	75 01 17 86	
4.	ROUAMBA Robert			01 trousse	69 16 68 98	
5.	ZONGO Bernadin			01 règle	74 02 98 38	
1.	ZONGO Fatimata	Féminin	CM2	01 gomme	78 69 50 13	
2.	KIEMDE Piko			10 protoges cahiers	74 62 26 11	
3.	OUEDRAOGO Nassiratu			01 crayon	75 63 32 82	
4.	ZONGO Elizabeth			06 bics (bleu, rouge, vert)	76 35 25 65	
5.	KABORE Fadilatou			01 livre de Français 6 ^{ème}	75 83 46 64	
				01 livre de Mathématiques 6 ^{ème}		

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Water management



- At the Sahel border, water management and extraction is a priority key for economic and agricultural development
- Ephyra Concept and its local partners work on dig water retention basins, fed by boreholes
- But complementary aids and supports would be a boon for local development
- **Crowdfunding example:** an equipped water drilling is about 20000 €





Contact :

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- Be inspired by nature -