



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

Study Case: Desert Date



OUR THREE PILLARS OF INNOVATION :

ETHICAL SOURCING



RESPONSIBLE AND ETHICAL APPROACHES
STRONG PARTNERSHIPS WITH LOCAL PRODUCERS
SOCIO ECONOMIC LONG TERM IMPACT
RESPECT AND PRESERVATION OF ECOSYSTEMS
UPCYCLING AND CIRCULAR ECONOMY

NATURAL ACTIVE INGREDIENT DESIGN



BIOMIMICRY INSPIRED R&D
SUSTAINABLE SOURCING
ORIGINAL METABOLIC PATHWAYS
INNOVATIVE BIOMINERAL VECTORIZATION
SKIN BALANCE ENHANCEMENT

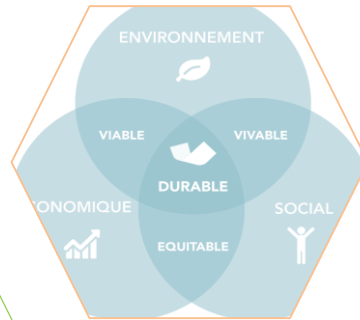
TECHNICALLY ADVANCED FORMULATION SYSTEMS



MINERAL SYSTEM MODIFICATION
COLD PROCESS
PHYSICAL EMULSION
SECOND SKIN CONCEPT
DRUG DELIVERY SYSTEMS



Our commitments



Deploy and formalize a relevant CSR approach



Control and counterbalance the product's and the overall company's carbon footprint



Develop and Strengthen a social policy in accordance with our values



Continue to strengthen our commitment to solidarity



An integrated approach

- In 2020, we decided to formalize our commitment to CSR and decided to join the United Nations Global Compact project.
- “The 2030 Agenda for Sustainable Development (SDA) adopted by all United Nations Member States in 2015, provides a shared blueprint for peace and prosperity for people and the planet, now and into the future.
- At its heart are the 17 Sustainable Development Goals (SDGs), which are an urgent call for action by all countries - developed and developing - in a global partnership. They recognize that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth – all while tackling climate change and working to preserve our oceans and forests.”
- For more than 20 years we have been contributing, on our small scale, to achieving 14 of the 17 goals set in order to achieve a better and more sustainable future for all.

**SUSTAINABLE
DEVELOPMENT
GOALS**



Ephyla & Ephyla Concept, an integrated development

EPHYLA
Natural Active Design



- Vincent Bourgeteau, biologist and ethnobotanist as well as CEO of Ephyla, founded the Ephyla Concept Association in 1999. Ephyla Concept's main goal is the valorization of intertropical natural substances.
- For nearly two decades, sub-Saharan Africa has become the privileged zone for the synergistic actions of Ephyla Concept and Ephyla.
- We rely on partner structures based in West Africa, Amazonia and France (in Metropolitan France in the DOM TOM and POM). Through these partnerships, we pay the greatest attention to the long-term impact of our commitments.
- Our team has developed a two-year expertise in this area.
- The raw materials selected by Ephyla SAS always follow very strict specifications in terms of environmental management, socio-economic impact and product quality management.
- We see it as the best guarantee for long term supply and quality insurance.



An integrated approach



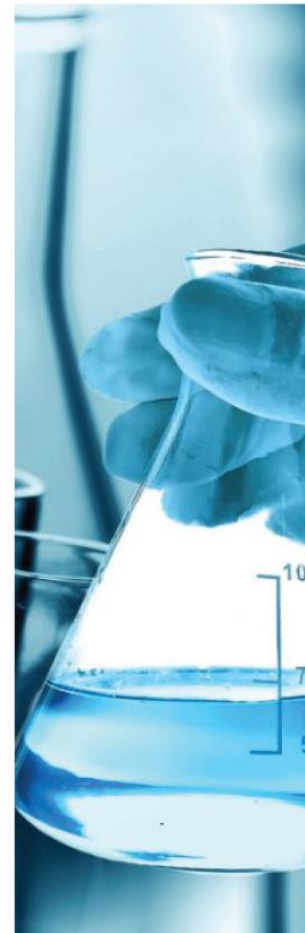
Cooperative and ethical approach



Respect and preservation of the ecosystem



R&D: byproducts valorization


























Resources and income sharing



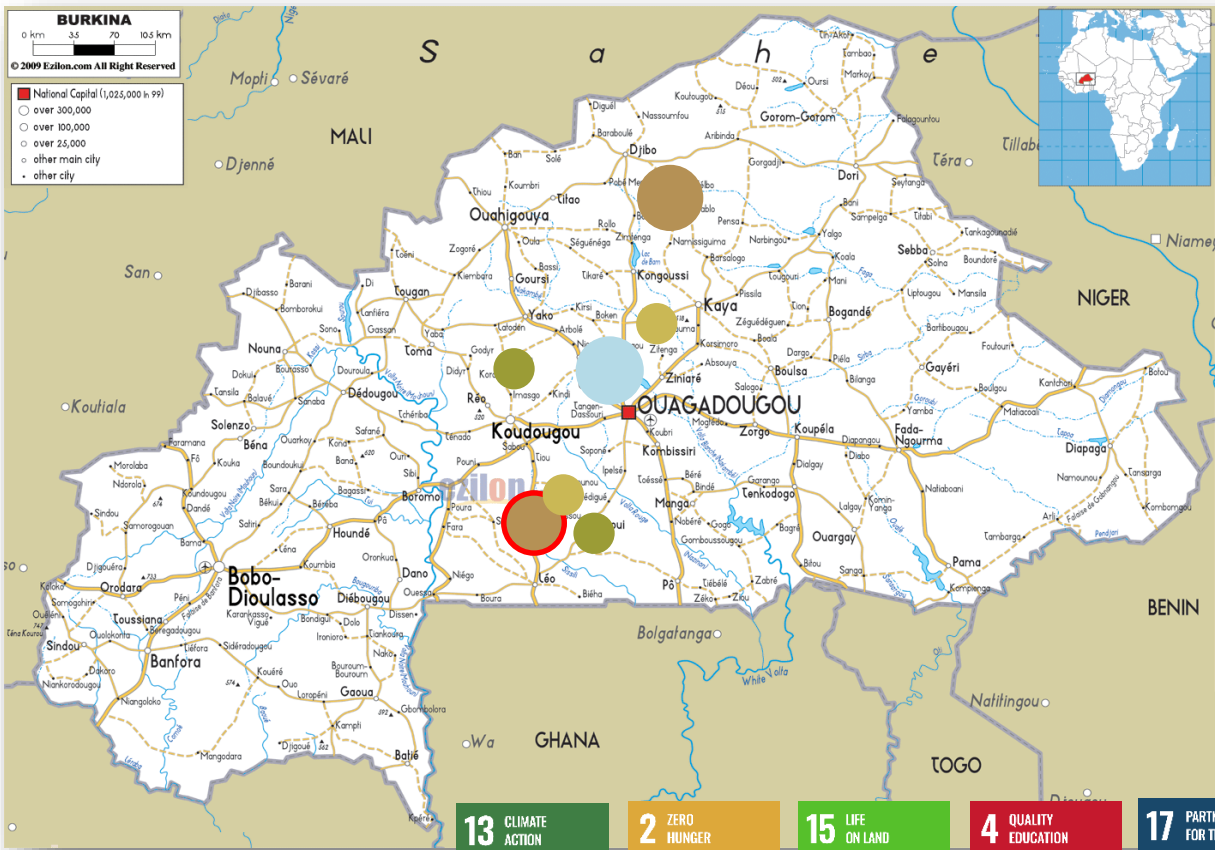


2019/2020 Key figures for the supply chain in Burkina Faso

Ecocert certified Area in Burkina Faso	14000 hectares	  
Fruits harvested	1500 tons/ year	
Young plants planted	10000 / year	  
Volume of processed oil in Burkina Faso	50 tons / year	  
People involved from harvest to extraction	1200	 
Merit & gender equality based Scholarships awarded	120	  
Prepared and distributed meals	31000	  
Micro Cosmetic Workshop sets up (Senegal & Burkina Faso)	14	     



An integrated approach



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

13 CLIMATE ACTION



2 ZERO HUNGER



15 LIFE ON LAND



4 QUALITY EDUCATION



17 PARTNERSHIPS FOR THE GOALS





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. 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





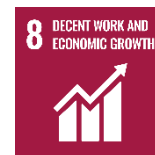
The desert date oil: a story of men, women and nature



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



The dried seeds



Dried seeds are manually sorted





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



weighed

DATE	N°bonne	N°Bakho	Provenance	Carte ref	N°du Site	Poids du bon	Poids du bon Moyenne	Poids du bon Moyenne	De ché
08.02.17	515	461	Penon	05100	0700	16,20 - 15kg	11,40		
-	-	-	-	-	0701	19kg			
-	-	-	-	-	0702	18kg			
-	-	-	-	-	0703	14,20			
11.01.17	455	500	Penon	05100	0755	8,75 - 19kg	3,00		
-	-	-	-	-	0760	10kg			
-	-	-	-	-	0761	4,20			
-	471	451	-	-	0761	4,20 - 19kg	7,10		
-	-	-	-	-	0762	15kg			
-	-	-	-	-	0763	10kg			
-	-	-	-	-	0764	4,30			
-	500	438	-	-	0764	4,30 - 10kg	12,10		
-	-	-	-	-	0765	10kg			
11.01.17	271	265	Penon	05100	0766	13,20			
-	-	-	-	-	0809	11,60 - 15kg	6,35		
-	-	-	-	-	0810	3,60			

Traceability is properly maintained



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





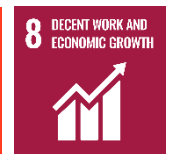
The desert date oil: a story of men, women and nature



Women are the pillars of the supply chain



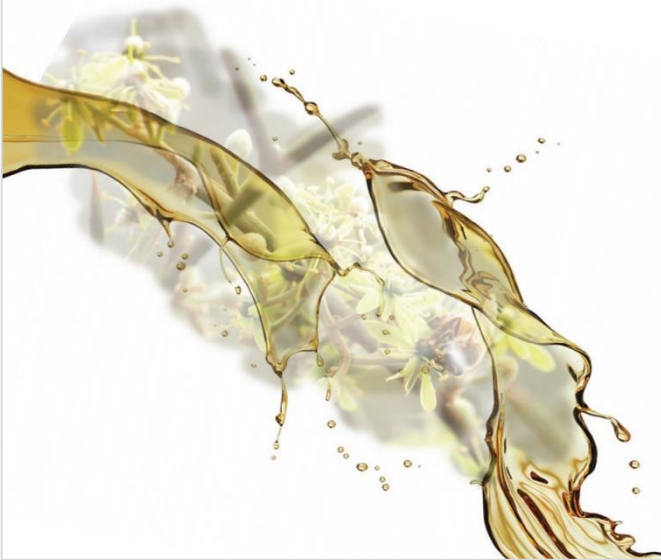
Spontaneous good vibes at the end of the day



The 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



8 DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

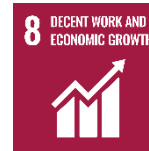
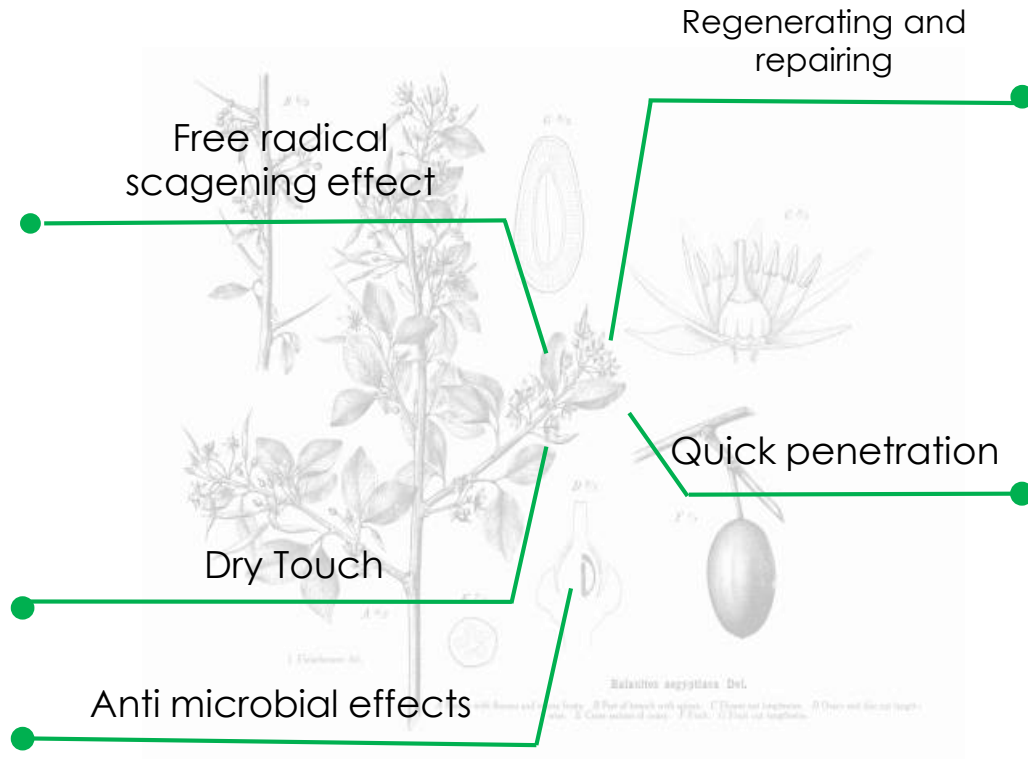
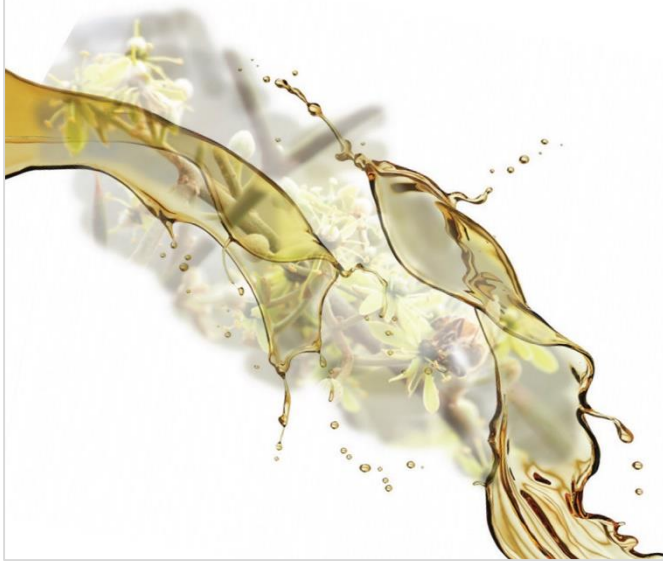


12 RESPONSIBLE CONSUMPTION AND PRODUCTION



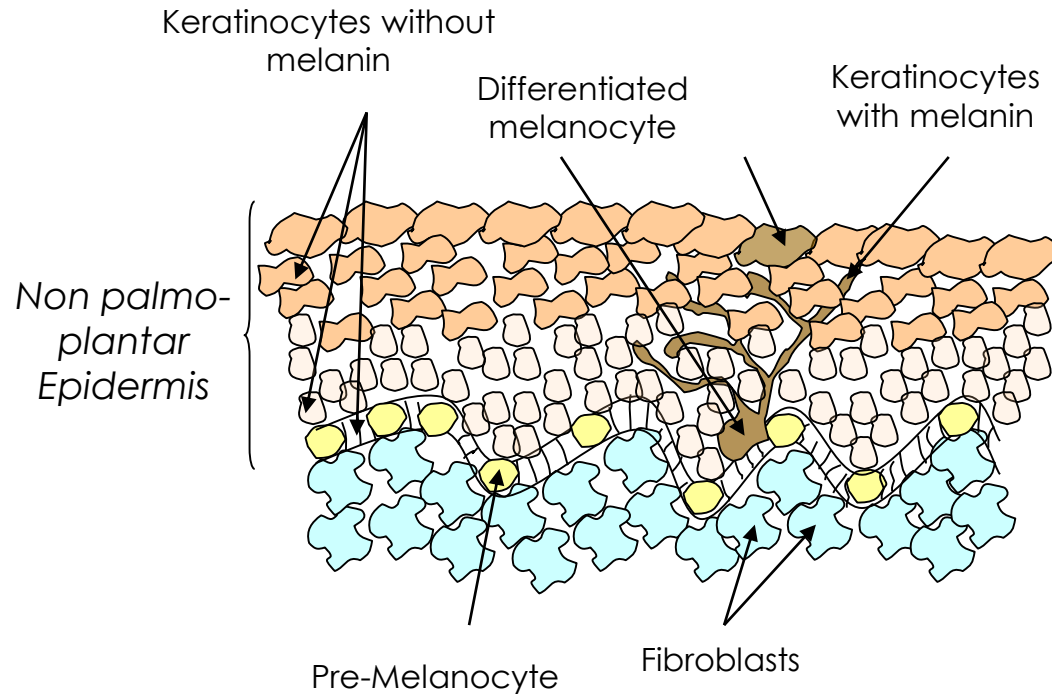
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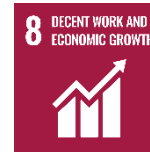


Lightderm

The only natural lightening strategy that human body knows



Natural de-pigmentation of the skin



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 Ephyra



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





Our Carbon Footprint

Strengths

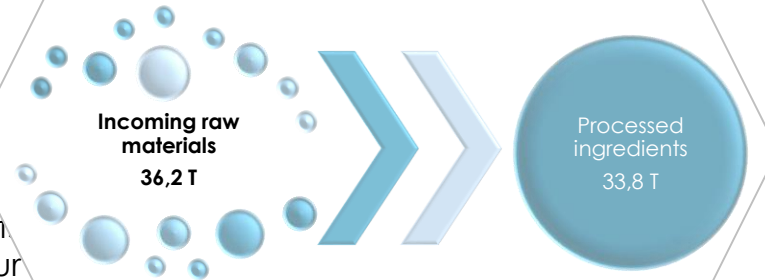


- Development and industrialization of ingredients able to manufacture cold finished products. Our company aims to be a pioneer in the development of waterless products
- Use of physical processes with low environmental impact
- High production yields (little loss related to processing)
- Implementation of an energy-efficient heating / air conditioning system for all production and offices (PAC)

CO2 emissions:

- CO2 created by our establishment * (production and heating): 2.3T
- CO2 created by our daily trips **: 22.3T

* This calculation takes into account scopes 1 and 2; ** co2.myclimate.org



Conversion Rate: 93.4%
Loss rate: 6.6%

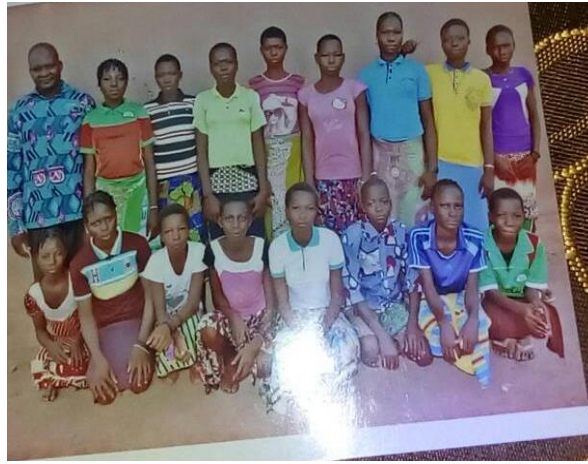
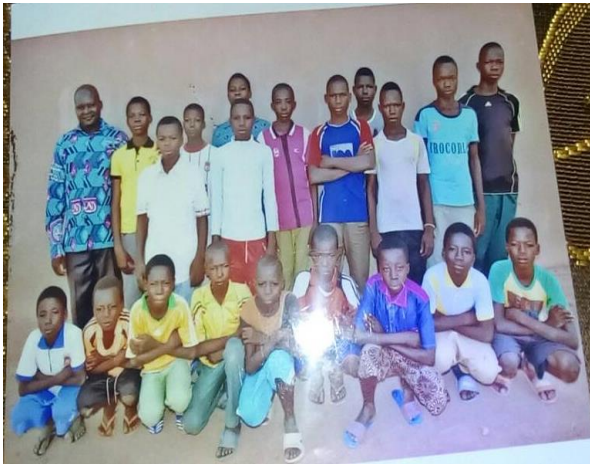
Compensation for our Production & heating in 2020 (scope1et2)



Compensation for our home-work trips in 2020



Merit-based Scholarships and school equipment funding



- **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-KOUBOUGOU

ANNEE SCOLAIRE : 2017 - 2018

EPHYLA CONCEPT/ BOURSE D'ETUDES

N° d'ordre	Nom et Prénoms	Sexe	Classe	Kits scolaires	Adresses	Emargements
1.	ROUAMBA Rakissalogo	Masculin	CM1	01 sac d'écolier	74 60 61 61	
2.	ZONGO Marcel			06 cahiers de 200 P	76 83 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 Pako			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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The history of one Euro

- **In Europe:**

- 1,2 € = 1 coffee



- **In west Africa:**

- € 1.2 = 1 meal per school day per month per child
- Ensuring one meal per day at school is often the trigger so that a parent can let the child go to school
- A child who goes to school is a child who can receive an education
- An educated child is a child who will be able to emancipate himself and provides his contribution to improve the balance of his Country
- Education is a powerful weapon against religious extremism



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 €



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 €





An integrated approach: Protium Resin

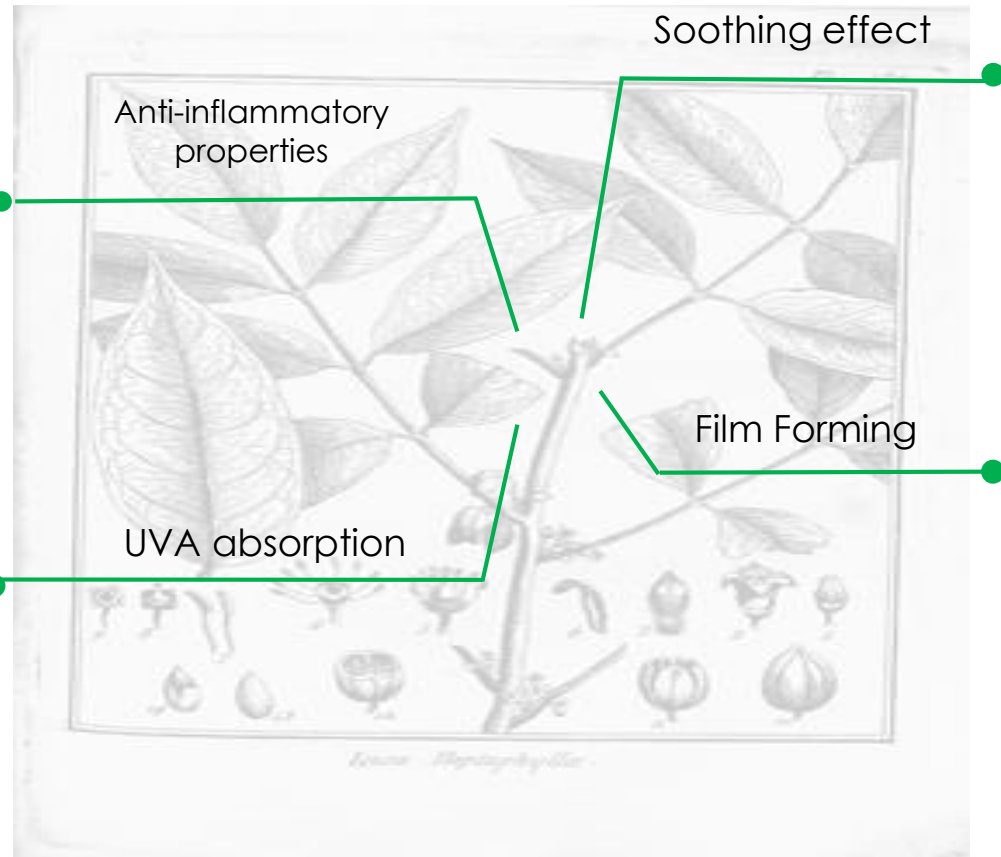




An integrated approach: Protium Resin

HTR1

A biomimetic shield for the protection of Hair, Nails and Skin



GUAYAPI



EPHYLA
Natural Active Design



An integrated approach: Brazil Protium Resin



GUAYAPI



EPHYLA
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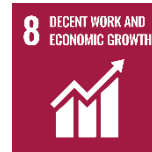


An integrated approach: Brazil Protium Resin

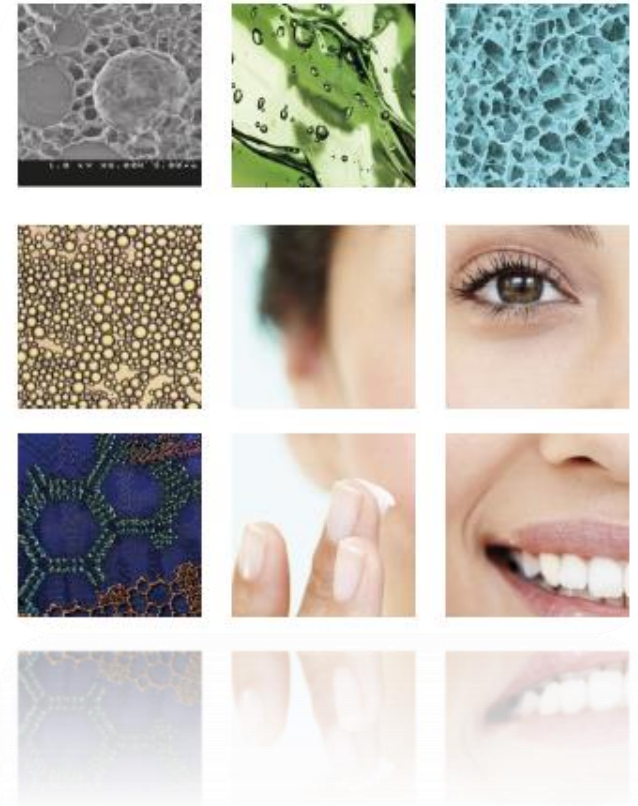




An integrated approach: French Guyana Protium Resin



Merci
Anitie
Jërëjëf
Thank You



Do not hesitate to contact Ephylla



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