

EXCO2019

The International Cooperation Expo

Pilot Auction Floor

Organized by:



Diplomacy

Sustainaway



Preface

At **EXCO2019: The International Cooperation Expo** we have set ourselves the goal to actively engage in Sustainable Development and International Cooperation. We are aware that environmental, social and regulatory issues provide challenges to development in our present time but we are committed to pursue our aim and strive to promote sustainability by mainstreaming the SDGs and creating a shared platform for all our partners, sponsors and fellow sustainable development actors.

Indeed, the **EXCO2019 Pilot Auction Floor** is one of the many events which have been launched during EXCO2019 as we aim to increase the cost effectiveness and visibility of sustainable development projects by giving access to ready-to-fund projects to a large variety of international development actors and potential investors.

In fact, multilateral and bilateral development entities, research entities and foundations often receive a large quantity of projects during their "Call for Proposals" and in order for such projects to be funded, they have to pass a high degree of scrutiny throughout the due-diligence phase. Unfortunately for many proponents of the projects capable of passing such scrutiny, the time, money and energy invested in this phase does not provide certainty regarding the funding, because funds for development projects are limited. Hence, despite the quality of these development projects most of them do not get the chance they deserve. Therefore, our Pilot Auction Floor intends to give a second chance to technically valid and ready to be implemented projects by introducing them to a forum comprised of various development actors.

In the following catalogue we introduce the projects that have been submitted to us by our exhibitors and their partners and we hope to give visibility to all. Certainly, we plan to increase the number of projects as well as the thematic areas throughout our next editions.

1.

Access to profitable markets via E-AGRIBUSINESS. The agricultural exchange of Togo



Summary

Agricultural producers lose annually 60% of their harvest due to lack of buyers. With our project which leverages on our platform E-agribusiness, we will facilitate access to profitable markets via digital tools (SMS, USSD, website, mobile application, call center), in a trusted environment, using also local languages. We work with the value chain. In our pilot phases, we covered 20,000 farmers; we helped the government facilitate access to finance to 6000 farmers (total of USD 18 millions in 6 months).

Location

Togo, Agoè, region maritime and Kara (first phase - one year).

Total Estimated Cost

139.230 €

Amount Requested

119.856 €

Objectives

- Identify stakeholders in the agricultural sector and build an environment of trust in 10 sites
- Promotion of actors and products
- Reduce crop losses
- Best targeting (geographical areas, stocks, prices, contacts)

Main Activities

- Enrollment of actor in information geographic system in 10 sites
- Treatment of the information and launching of the services
- Training of the actors to take control over the system functionalities in 10 sites
- Promotions of the systems in 10 sites
- Support to actors

Expected Results

- Enroll of 50 000 actors all sectors combined.
- Facilitate the flow of production to at least 20 000 actors for 50 000 tons of products.
- Published 1,000,000 SMS information-based system for market price (Products) and weather forecast.

Target Groups

Agricultural cooperatives in 10 sites for two regions, buyers, bankers, insurance companies, distributor of inputs, microfinance, state etc.

Final Beneficiaries

50,000 Farmers of two regions out of four million.

Partners

Minister of agriculture of Togo, CTOP, CTA, Government project MIFA, SUNU ASSURANCE.

Name of Organisation and contact details

CLIN SARLU
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2.

AGROPLEXI (Catalyzing Financial Inclusion Using Distributed Ledger Technologies)



Summary

Agroplexi is a blockchain backed economy, catalyzing financial inclusion for farmers in the emerging markets. We help farmers solve the problem of access to finance, reduce risks associated with funding Agricultural projects, eliminate extreme cost of credits, bogus interest, unimaginable collateral, and lack of transparency in transaction and payment settlement.

We leverage distributed ledger technologies to provide P2P wallet, an auditable trail and smart contracts system to provide loans to agriculture cooperatives.

Location

Nigeria, North Central, Plateau State.

Total Estimated Cost

74.650 €

Amount Requested

59.100 €

Objectives

- Complete the development of blockchain backed funding platform and P2P wallet
- Train key players within the ecosystem.
- Launch awareness campaign

Main Activities

- Development of a new Investors UI.
- Upgrade Farm Management System with management, Account, Finance and Transaction features.
- Activate training exercises for Trainers, Consultants and Supervisors.
- Onboard the waiting list of over 1000 groups of farmers by profiling and data verification.
- Launch awareness and sensitization campaign for Farmers, Cooperatives and Association.

Expected Results

- launch a flawless Investors UI platform V 2.0
- Complete integration of new modules with Farm Management System
- Induct 36 supervisors and Consultant across crop and livestock production.
- Onboard 50% of awaiting 1000 groups and make 25% active. List 50 projects from cooperatives and minimum 10% funded.

Target Groups

Individual and Institutional Investors, Youths, aged between 18 - 35 and active farmers already formed into cooperatives or associations. With special preference for female groups.

Final Beneficiaries

About 70 farmer cooperatives with over 2550 Smallholder farmers, and 1400 Investors.

Partners

- Onesimus Technologies Nigeria.
- FARM Business Limited, Nigeria
- Manna Global Inc. DBA Beyond Capital Markets, St. Kitts & Nevis.

Name of Organisation and contact details

ONESIMUS TECHNOLOGIES
Suite B4, Ladisgold House, Tundun Wada, Jos, Plateau State, Nigeria
info@ccta.int



3.

Approche Intégrée De Gestion Des Pêches Et De L'environnement En Basse Casamance Et Guinée-Bissau (Aigpe)



Summary

The action intends to implement fisheries management plans that are sustainable, context-specific and in line with the ecosystem approach through the participation of all stakeholders and to increase the resilience of small-scale fishers by strengthening social protection and improving livelihoods. The proposed activities are aimed at formulating and implementing policies and practices in order to combat overfishing and building the capacity of stakeholders to implement the measures adopted, promoting the protection and conservation of ecosystems and biodiversity.

The project has been presented to the call for proposal EuropeAid/158370/DD/ ACT/Multi «Programme régional pour l'amélioration de la gouvernance régionale de la pêche en Afrique de l'Ouest», approved in the restricted selection, and recommended to be put in the reserve list, but eventually it was not financed (see attachment).

Location

SENEGAL, Casamance - Ziguinchor and Oussouye GUINEA BISSAU, Cacheu - São-Domingos, Varela et Suzana.

Total Estimated Cost

1.302.073,92 €

Amount Requested

1.171.866,53 €

Objectives

O.G: Contribute to improving the management of marine resources at the regional level, thereby enhancing the resilience of marine and coastal ecosystems; O.S: Strengthen the social and environmental resilience of coastal systems.

Main Activities

Organization of Geographic Information System training workshops and participatory GIS, Training in integrated management of coastal resources for the actors of the fishing sector, Supply of solar canoes and fishing accessories to fishermen, Action research for introduction of new processed marine products for nutritional vulnerable groups, Reforestation of mangroves, Creation of a new MPA (Marine Protected Area).

Expected Results

- Management system and sustainable exploitation of fisheries and coastal ecosystems;
- Coordination and participation in integrated coastal zone management are improved at the subregional and zonal levels;
- Safeguarding ecosystems and biodiversity is strengthened.

Target Groups

The Maritime Fisheries Directorate, Fisheries Services; fisheries stakeholders, the populations of villages; researchers and students of Assane Seck University.

Final Beneficiaries

fishermen, wholesalers, micro fish vendors and women processor; populations and villages.

Partners

ONG ISCOS international
ONG MONTE ACE international
ONG AGADA national

Name of Organisation and contact details

ISTITUTO SINDACALE PER LA COOPERAZIONE ALLO SVILUPPO (ISCOS)
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Viale Castro Pretorio 116, 00185 Roma (Italy)
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4.

Be Smart, Be Neat

Summary

The research project is focused on the field of Solid Waste Management (SWM). Through innovative technologies and rewarding, it aims to revolutionize the traditional mechanisms of collection and recycling, making the citizens an active part of the value chain. The project is based on the design of completely autonomous waste dumpsters to make waste collection and at-source segregation easier, faster and attractive to the inhabitants of a given urban area. The devices are conceived to collect the different reusable fractions of waste and to compact them, if necessary. Citizens can access these dumpsters using their mobile phone to be identified and deposit the waste separately inside the collectors. Depending on the amount of waste deposited, the user is assigned credits that will be converted in telephone credit. The rewarding mechanism becomes the incentive for a differentiated collection and lays the foundations for the establishment of a virtuous and conscious people behavior.

Location

The research project is conceived with strong scalability and reproducibility characteristics. For this reason, it could potentially be developed in any major sub-Saharan African city. However, it was considered strategically convenient to implement it in a target area where a need-based evidence is combined with an in-depth knowledge of the context and the potential to rely on a sufficiently solid network of contacts. The reference city has therefore been identified in Nairobi (Kenya).

Total Estimated Cost

Number in € 1.2 M€: 200k€ for activities 1-5, 1 M€ for the pilot project (activities 6-8)

Amount Requested

Number in € 1.2 M€: 200k€ for activities 1-5, 1 M€ for the pilot project (activities 6-8)

Objectives

- To promote responsible public behavior on waste management
- To promote waste segregation at source
- To promote resource recovery for materials and energy generation
- To establish environmentally sound infrastructure and systems for waste management

Main Activities

1. Assessment and market analysis
2. Design of smart dumpsters
3. Implementation of distributed software system and mobile app
4. Life cycle thinking assessment
5. Development of Business Plan and Sustainability plan
6. Test on a restricted target area
7. Awareness campaign
8. Analysis of data, models update

Expected Results

- mapping of all stakeholders needed for the creation of a waste management chain of value and formalization of a sustainable business model focusing on financial viability and generation of new job opportunities
- Design and realization of automatic smart dumpsters connected to the collection center.
- Assessment of the environmental and social impacts of the proposed SWM model and formulation of recommendations for the local authorities / stakeholders to improve the performance of the SWM system.
- Development of the plan for scalability
- Reduction of abandoned waste / increase of recycled waste

Target Groups

The project is targeted to a city district, involving authorities, communities of citizens, cooperatives of waste pickers, private companies in the field of SWM

Final Beneficiaries

Municipality of Nairobi and the population of the city; people currently working in the informal sector of waste-picking

Partners

Malteser International, University of Nairobi, Nairobi City County, iHub (start-up incubator).

Name of Organisation and contact details

POLITECNICO DI MILANO
P.zza Leonardo da Vinci 32, Milano – www.polimi.it
Prof. Simone Cinquemani – Dipartimento di Meccanica
simone.cinquemani@polimi.it – francesco.braghin@polimi.it



POLITECNICO
MILANO 1863

5.

Community Care – Innovating health care amongst vulnerable populations in remote areas of Cambodia



Summary

From 2010 CIAI works with the Ministry of Health to bring maternal healthcare to remote and ethnic populations, often reluctant to seek healthcare because of traditional beliefs, language differences, social stigma and distance to reach the health center. The project aims to positively impact the supply and demand of maternal and child health services, strengthening citizens' participation in the planning, monitoring and provision of services and activating innovative forms of collaboration with the private and profit sector (entrepreneurship and CSR).

Location

Cambodia, Provincia di Mondulkiri, 30 villaggi nei distretti di Koh Nheak, Pechrada, O'Reang, Keo Seima.

Total Estimated Cost

500.000 €

Amount Requested

450.000 €

Objectives

GO/Impact. Reduce Maternal and Under-5 Mortality Rates in remote areas.
SO. Reduce inequalities in access to essential and quality maternal health services in the province of Mondulkiri.

Main Activities

- Development of a Digital Database System follow-up on malnourished children 0-5
- Training and exchange sessions for Midwives, traditional midwives and Community Volunteers
- Mobile Clinic service
- Counseling service
- Community Score Cards by users and health staff
- Feasibility study on social business practices and corporate social responsibility
- Promotion of CSR initiatives

Expected Results

- R1. The capacity of the health system to provide quality and child-friendly maternal and child health services has been strengthened.
- R2. 5200 people have improved their ability to recognize, respond and demand maternal and child health services and respect for their rights.
- R3. Private resources mobilized to promote sustainable access to maternal and child health services.

Target Groups

6398 people in 30 villages, 68% from ethnic minorities, including children, community volunteers, midwives and traditional midwives, and local authorities.

Final Beneficiaries

26.000 persons living in 30 target villages (49%F, 68%ethnic minorities).

Partners

Department of Health in Mondulkiri (MoH - M)
Mondulkiri Indigenous People Association for Development (MIPAD)
Soc. Coop. Gnucoop (IT Provider)

Name of Organisation and contact details

CIAI – Centro Italiano Aiuti all'Infanzia
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6.

Digitalization of the Lawyers 4 Farmers (L4f) Platform

		<p>Summary</p> <p>The project aims to develop a platform which will bridge the knowledge and information gap for farmers, enable completion of intricate legal challenges virtually and facilitate efficient interaction between key players in the entire agriculture value-chain. Using an SMS platform, L4F has already reached over 1965 farmers across Uganda, solved over 526 cases and also participated as a finalist in the Pitch AgriHack 2018 organized by CTA. We aim to leverage the already existing -Ezy Agric App through which registered users will access legal services from L4F.</p>	
<p>Location Uganda, Kampala.</p>	<p>Total Estimated Cost 1.325.512 €</p>	<p>Amount Requested 1.325.512 €</p>	
<p>Objectives</p> <ol style="list-style-type: none"> 1. Ease access of farmers to basic legal information 2. Provide cost effective legal service to farmers virtually 3. Advocate for better policies for the agricultural sector as a whole 			
<p>Main Activities</p> <ol style="list-style-type: none"> 1. Upgrading the platform to allow for completion of more intricate legal transactions eg. auto response for repeat questions, exchange of documents and payment of fees. 2. Community engagement including on boarding paralegals to serve farmers without smart phones. 3. Taking on public interest litigation cases involving farmers and participating in policy level intervention for the agricultural sector. 	<p>Expected Results</p> <ol style="list-style-type: none"> 1. Increased awareness of legal rights among farmers and reduced cost of access to legal services. 2. Formalization of farm businesses and better access to formal services and markets 3. Increased productivity and long term profitability of farmers 4. Formulation of better policies for the agricultural sector 		
<p>Target Groups</p> <p>Communities with organized farmer groups and co-operatives which can be supported at both group level and individual/household level.</p>	<p>Final Beneficiaries</p> <p>Approximately 65,000 farmers both rural and urban, smallholder and commercial.</p>		
<p>Partners</p> <p>Akorion Company an AgTech company digitizing agricultural value chains through the flagship platform EzyAgric.</p>			
<p>Name of Organisation and contact details LAWYERS 4 FARMERS (L4F) LTD info@cta.int</p>			

7.

Diversifying agroecosystems to secure sustainable farming in the Mediterranean region



Summary

Current threats pose serious doubts about the sustainability of agriculture in the Mediterranean region. DiversiFarming will integrate ecological intensification and agronomic crop yield improvement as a reliable and sustainable farming strategy to secure food supplies. We will exploit crop diversity and cropping systems to create a portfolio from which to choose and adapt. Crop diversity may also beget ecosystem service providers' diversity, such as pollinators and pest control agents, which are key to replace costly and contaminant industrial inputs.

Location

DiversiFarming will break new ground for crop production and sustainable farming services in the Mediterranean basin using a network of five agro-ecosystems in North (Italy), South (Algeria / Morocco), East (Spain) and West (Turkey) of the Mediterranean basin.

Total Estimated Cost

2.000.000 €

Amount Requested

2.000.000 €

Objectives

To strengthen long-term Mediterranean agroecosystems capacity for adaptation to current and future threats by using biodiversity-based innovations for effective crop production, pollination and biological pest control in sustainable agriculture.

Main Activities

- * use coordinated protocols to quantify to what degree increasing crop and ecosystem service providers' diversity enhances yields
- * use a theory driven approach to select and maintain crop varieties and intercropping systems
- * integrate biodiversity conservation into agroecosystems
- * develop automated monitoring systems and big data for prediction

Expected Results

- * Development of low-input systems with high productivity and low environmental impact.
- * Promote and develop a sustainable use of underexploited and new species best suited to Mediterranean conditions
- * Development low-cost standardized monitoring systems

Target Groups

Breeders, seed and seedling producers, Crop management technology and service providers, Agricultural extensionists, farmers and Beekeepers

Final Beneficiaries

Sustainable agriculture development organizations, Public Administration, Regulatory and standardization bodies, Farmers.

Partners

Academic: CSIC, University of Padova, IAV, PPCRI, USTHB, ENSA
 SME: TECHCROP, SEMINNOV, CAMPINOVA
 Farmers and Beekeepers: Consorzio Tutela Vino Custoza, Izmir Ili Ari Y etistiricileri Birliigi

Name of Organisation and contact details

Agencia Estatal Consejo Superior de Investigaciones Cientificas (CSIC)
<http://www.ebd.csic.es>
 Ignasi Bartomeus, nacho.bartomeus@gmail.com, +34 666 03 50 40



8.

Drone4Ag: Uberisation of Drone Service for Agriculture

Summary

Drones are changing agricultural practices in Africa. Using drones farmers can now monitor their crop health, estimate yield, and identify and react quicker to threats (weeds, pests, fungi). There is also smart crop-spraying agricultural drones that help farmers accurately apply fertilizer and pesticides, reducing the negative impacts on their health and on the environment. However, for farmers and their association, having access to these services can be challenging. This project offers a platform that connects them to drone service providers. It makes agriculture attractive to youth, creates job opportunities for them and help increase agricultural productivity.

Location

Africa. During the first year, the project will be implemented in two countries in West Africa: Benin and Ghana. Lessons learned during the first year will help expand the projects in other countries and improve its implementation during the second year. The 35 members of the Africa Goes Digital consortium represented in 11 African countries will follow up the project during year 1 and replicate it during year 2. Finally, the application will be made accessible to the public with no geographic restriction.

Total Estimated Cost

250.000 €

Amount Requested

220.000 €

Objectives

Similar to Uber, Drone4Ag app will connect drone operators and the demand for drone services. Specifically:

- Create job opportunities for youth
- Help farmers benefit from drone precision-ag services

Main Activities

- Drone4Ag application development
- Registration of the first wave of drone operators
- Training on the use of the smart crop-spraying drones
- Farmers field school: 5 farmers per country benefit from service for free to serve as proof of concept to attract more farmers.
- Provision of services

Expected Results

- First year of implementation:
 - 300 farmers benefit from drone imagery and smart crop-spraying services
 - 50 youth are trained and offer drone services through Drone4Ag
- Second year: 400 youth and 10,000 farmers use our platform for drone services

Target Groups

Farmers and their association and unemployed youth in Africa in general, specifically in Benin and Ghana.

Final Beneficiaries

Year 1: 1300 farmers, 50 youth
Year 2: 5000 farmers, 400 youth

Partners

AcquahMeyer Dronetech, CTA, Africa Goes Digital, SOWIT, University of Kentucky, Eastern Kentucky University, Development Initiatives.

Name of Organisation and contact details

GLOBAL PARTNERS SARL

Website: <http://www.gblpartner.com/>

Email: globalpartnersbj@gmail.com

Phone: +1 859 913 7579 / +229 96153811, 96640035

Address: PO Box: 081 BP: 7073 Aeroport, Cotonou, Benin

Physical Address: 2nd floor "Les tours Jumelles" building close to supermarket AZIMA, 100 meters away from the crossing Bidossessi, Abomey-Calavi



9.

Enhancing African food supply chains by providing affordable asset-based financing to smallholder farmers



Summary

GLC's is utilizing UAS to provide affordable access to production finance for maize farmers, enabling them to improve the quality and quantity of maize, while connecting them with premium agribusinesses. Unlike credit unions & commercial banks, our services finances & streamlines production, ensuring improved yields and increases income per farmer per season. For large agribusinesses we provide seamless procurement of large volumes of quality maize of comparable quality to imports without the logistics of multiple middlemen.

Location

Center region, Cameroon, Central Africa.

Total Estimated Cost

460.000 €

Amount Requested

150.000 €

Objectives

Our general vision is to enrich Africa, one farmer at a time. Specifically, we enable African farmers to compete globally by improving the quality and quality of grain they produce.

Main Activities

Each season, we loan farmers fertilizer, seeds and access to our machinery for production. Throughout production, we utilize drone-captured imagery and GIS data to monitor production through harvest. At harvest, the credit gets reimbursed in grain with a marginal interest rate and sold to our corporate clients.

Expected Results

- Disburse over \$600,000 in pre-financing to farmers by 2022
- Increase farmer yield per hectare to 7 tons by 2022
- Serve 2,500 farmers by 2022
- Improve farmer incomes by 200%

Target Groups

Farming is main source of income for a majority of our communities, who earn under \$240 per season.

Final Beneficiaries

Our total beneficiaries are 4,500 smallholder maize farmers.

Partners

KIVA, The Miller Center for Social Entrepreneurship, Cartier International MINADER Cameroon, Institute of Rural Agriculture and Development (IRAD), OCP- Cameroun, PCP-ACEFA

Name of Organisation and contact details

GRASSLAND CAMEROON
 Rue de Trieste
 Bonanjo, Douala;
 Littoral, Cameroon
 Website: www.grassland-africa.com
 Contact person: Manka S. Angwafo
 Email: manka@grassland-africa.com



10.

GREEN: Green microfinance and Renewable Energies for women Empowerment



Summary

Access to sustainable energy and financial resources are crucial enablers for economic and social development in particular in rural areas where women are key agents of change. The project aims to contribute to gender equity and equality in rural areas by developing sustainable energy entrepreneurship through green micro-finance in order to counterbalance poverty, lack of job opportunities and to deal with complex environmental challenges, in particular in the areas of access to energy, water, food security and healthcare.

Location

The beneficiary country is Uganda (Kampala area)

Total Estimated Cost

300.000€

Amount Requested

400.000 €

Objectives

The overall objective is to promote women's empowerment in renewable energy (RE) sector through tailored green-microfinance programs.

Specific objectives are to increase:

- Women's entrepreneurship opportunities
- Technical capabilities in RE

Main Activities

Cooperation of Italian and local universities, NGOs, MFIs, will support women to access affordable finance and energy services through:

- Analysis of local context;
- Set-up of local vocational labs
- Creation of women entrepreneurship centers
- Support the creation of new green microfinance instruments
- Advocacy and dissemination

Expected Results

- Institutional building: capacity building of local MFIs and universities to empower women through micro-entrepreneurship in RE sector
- Direct support: at least 100 vulnerable women through technical trainings – entrepreneurship mentoring and financial inclusion
- Knowledge sharing and advocacy/awareness raising

Target Groups

Women socially and financially excluded in Kampala area (Uganda) that will be empowered accessing green microfinance and vocational trainings.

Final Beneficiaries

Local community in Kampala thanks to job creation, environmental improvements, gender equity.

Partners

- Associazione Italiana Donne per lo sviluppo – AIDOS
- Association of Microfinance Institutions of Uganda
- Uganda Martyrs University
- Wekembe, MFI Uganda

Name of Organisation and contact details

Minerva LAB – Laboratory on Gender Diversity and Gender Inequality – is part of the Department of Statistical Sciences (DSS) of **Sapienza University of Rome**. Minerva LAB aims at contributing to the scientific research carried out at international level, establishing collaborations between scholars from different from disciplines, dealing with different thematic issues and methodologies, mainly in the area of inequality, discrimination, development and environment and microfinance.

<https://web.uniroma1.it/labminerva/>

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11.

ICT Managed Agricultural Mechanization Services (iAMS) for Kenya



Summary

Kenya's tractor market is absorbing a paltry 600-700 tractors a year, into 27m ha arable land, (of which 60% is idle). The country, like the rest of the sub-Saharan Africa reports operational capacity of 2 tractors per 1000ha and a farm power level of only 0.2W/ha – compared to India's 2.2kW/ha. Agrimech has a Business Model that needs an ICT platform to help organize and coordinate her own and other Mechanization Service Providers' works, to create a growing market for sustained and climate-smart mechanization services.

Location

Kenya (beginning in Meru, Laikipia, Homa Bay and Nyandarua Counties) and Ghana (Trotro Tractor: providing the Software platform and experience).

Total Estimated Cost

349.344 €

Amount Requested

271.181 €

Objectives

Enhance rapid growth of the Agrimech Business Model, to serve more holistically, key value-chains by domesticating a youth-attractive ICT Mechanization Services Management Platform to add capacity and efficiency to market-linked agribusiness growth opportunities.

Main Activities

- Map-out mechanization service providers to help expand Agrimech Model, conduct stakeholder workshops to agree the operations of the Trotro Software platform.
- Train youthful and existing Service Providers, absorb them into expendable Hubs across value-chains.
- Invite Trotro to train for ICT managed operational platform that will be domesticated, perfected and expanded into Rwanda, Tanzania, and the continent.

Expected Results

- The operational and business benefits of climate-smart Agrimech Mechanization Services Model are accepted, appreciated and attractive.
- The entry of Trotro ICT platform is attracting youthful mechanization service investors, contractors, and others like crop aggregators and development partners, to propel the game-changing model all over the continent.

Target Groups

Agrimech is established in Laikipia, Meru, North-Rift and Homabay Counties. Expansion is into Nyandarua and Nyanza Counties and eventually into Rwanda and Tanzania.

Final Beneficiaries

Meru-Laikipia: 2000; North Rift: 12,000; HomaBay: 20,000; Nyandarua: 14,000; Nyanza: 14,000 farmers.

Partners

International: Trotro Tractor of Ghana and her Affiliates
 National: Financiers & Enablers: RentCo East Africa, Africa is Talking, Farmer SACCOs; Aggregators/Processors: Sukari Industries, Shalem Investments, Cargill, East African Breweries, BIDCO etc. INGOS: Technoserve, IFDC, SNV, GIZ etc.
 Local: County Governments, AGRA/Farm to Market Alliance, Farmers and Farmer Cooperatives, etc.

Name of Organisation and contact details

AGRIMECH AFRICA LTD
 For more info contact the Technical Centre for Agricultural and Rural Cooperation (CTA):
 info@cta.int





Summary

The Man de Project fits within the Cote d'Ivoire government policy aiming at the improvement of population's food security and revenues. The project, in fact, foresees the importation of frozen pork meat from Europe (Italy, Germany etc ..) to sell it in Cote d'Ivoire. Although the park meat commerce is still not well developed in Cote d'Ivoire, there is a consistent demand for this product that is only partially satisfied. Currently, the Man de enterprise is active and is working in the west region of the country, but it will expand the activities in other regions.

Location

Bangolo, Guémon region, Cote d'Ivoire.

Total Estimated Cost

115.000 €

Amount Requested

93.000 €

Objectives

The objective of the project is to facilitate access to park meat by lowering prices of imported meat in Cote d'Ivoire.

Main Activities

- Import of pork meat from Europe;
- Resell of the meat in Cote d'Ivoire;
- Commercial policies to reduce the intermediary steps between the supplier and the final customer

Expected Results

Repayment of the invested capital in 4 years

Target Groups

It is not a project but a business activities. The product will be sold to the market.

Final Beneficiaries

Mande Enterprises is a business activities aiming at selling the park meat to the final consumers initially in the west region of the country. The Company will enter into business relationship with groups of women to commercialize the products in the different targeted areas.

Partners

The strength of the Mande Group Enterprises resides in the organization of its team and its suppliers based in Europe, on the quality of the selected products with a spirit of selection in a system of total integration from the breeding subjects to the plate of the consumer.

Name of Organisation and contact details

MANDE GROUP ENTERPRISES S.A.R.L.

www.mande-2:rouo.com

info@mande-group.com

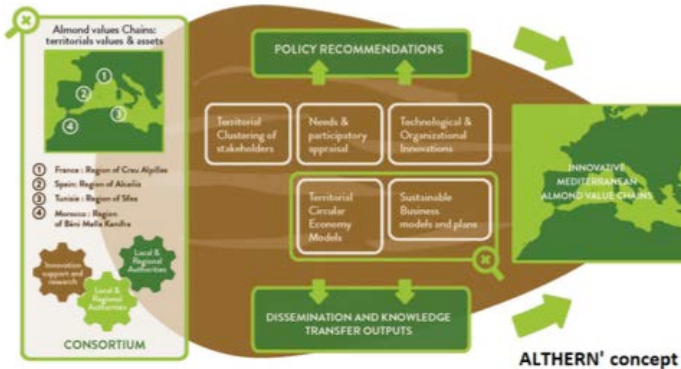
d.libralesso@etimos.org

MANDE GROUP
Enterprises S.A.R.L.



13.

Mediterranean ALmond Territories: from HERitage to iNnovations (ALTHERN)



Summary

Although almond orchards belong to the Mediterranean history, the regional production for food and non-food markets is today anecdotic white almond demand is on the rise at global level. ALTHERN will design and test adequate community-driven business models to sustain almond businesses especially for Mediterranean smallholders and SMEs in order to take advantage of new food and non-food market opportunities. In addition, the promotion of circular business models will contribute to reduce loss and waste of raw materials in the Mediterranean context of fragile and limited natural resources.

Location

Marocco, Region of Béni Mellal Khénifra
Tunisia, Region of Sfax
France, Region of South PACA
Spain, Community of Aragón

Total Estimated Cost

2.088.500 €

Amount Requested

2.022.725 €

Objectives

The objective of the project is to develop and implement innovation-driven business models for typical Mediterranean almond value chains, source by territorial assets and going towards circular economy.

Main Activities

- Clustering and multi-actor exchange on almond heritage and 'innovation' needs in Mediterranean almond territories.
- Demonstration and testing of practice-driven innovations.
- Designing of pilots of territorial food circular economy models.
- Dissemination of sustainable business models, marketing strategies and territorial action plans.
- Formulation of public policies recommendations.

Expected Results

- Organisation of area-based clusters to identify and validate innovations on almond food value chain.
- Implementation of innovations all along food value chain in the four territorial contexts.
- Evaluation, lessons learned, dissemination and recommendations.

Target Groups

Mediterranean smallholders and SMEs, research and innovation institutions, local authorities, policy makers.

Final Beneficiaries

Farmers of Mediterranean rural territories, sector's manufacturers (incl. SMEs) and exporters.

Partners

Research institutions, local and national authorities, agricultural cooperatives and enterprises (14 partners from the four countries).

Name of Organisation and contact details

INTERNATIONAL CENTER FOR ADVANCED MEDITERRANEAN AGRONOMIC STUDIES
Mediterranean Agronomic Institute of Montpellier
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Jean-Paul Pellissier: 00 33 6 71 95 47; pellissier@iamm.fr



14.

Opening INnovative business opportunities for MEDiterranean local FOOD producers (MEDINFOOD)



Summary

MEDINFOOD project is aims to promote the creation of new business opportunities for small and local entrepreneurs and to stimulate the development of rural local-based traditional and artisanal food production SMEs. MEDINFOOD will work in order to design tailored methodologies, procedures and tools for enabling South Mediterranean smallholders in the bakery products and dates sectors to manage their strategic and tactical processes for business innovation in a more flexible, efficiency and aware way.

Location

Egypt (Fayoum governorate (Biyehmo village) and Giza governorate, Badrashin district (villages of Saqqara and Dahshur)) and Algeria (Biskra and Ouargla provinces).

Total Estimated Cost

2.319.000 €

Amount Requested

2.025.600 €

Objectives

The overall objective of MEDINFOOD is to design, to deploy and to demonstrate the operational and economics viability of several technological and organizational innovative solutions tailored for the rural production facilities.

Main Activities

MEDINFOOD will provide a significant practitioner support to support to business owners and entrepreneurs of bakery products and dates in the dates in the South-Mediterranean countries of Egypt and Algeria, in form of layout and design innovation, guidelines, best practices and tools to create new business opportunities.

Expected Results

- Small bakeries facility layout for production of local products (baladi bread).
- Innovative storehouses for reduction of dates waste.
- Blockchain based traceability model compliant with the requirements of the large retailers and the exporters.
- Collective mark to increase the trust on the local productions.

Target Groups

Selected promising bakeries and dates smallholders and SMEs in Egypt and Algeria (early-adopters).

Final Beneficiaries

4 large demonstration events will take place on different bakeries and date production facilities and total of 200 business women and men will attend the training and demonstration events.

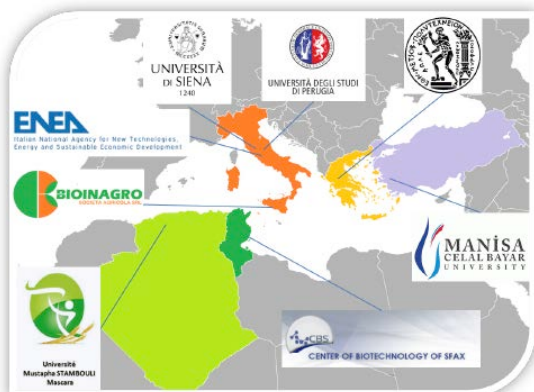
Partners

- Tecnoalimenti S.C.p.A, RINA Consulting S.p.A (Italy)
- North South Consultant Exchange, Agricultural Research Center, Food and Agro Industries Technology Center (EGYPT)
- Institut National de La recherche Agronomique d'Algérie (Algeria)
- AINIA - Centro Tecnológico (Spain)

Name of Organisation and contact details

TECNOALIMENTI SCPA
www.tecnoalimenti.com
Marco Gerevini:
marco.gerevini@tecnoalimenti.com





Summary

OFI-MED aims to design sustainable and profitable farming systems, based on the cultivation and multiuse of Opuntia ficus indica (OFI), able to integrate technological innovations, together with socio-economic opportunities in the OFI supply chain (prickly pear, seeds, cladodes, and flowers). OFI-Med will work through participatory multi-actor's approach, contributing to the regional development, improving agricultural innovation capacity in the Mediterranean area and increasing stakeholders' awareness of the economic, environmental and health-related potential of OFI products and by-products.

Location

Italy, Tuscany, Siena.

Total Estimated Cost

1.676.516,40 €

Amount Requested

1.210.157,92 €

Objectives

Sustainable, profitable farming systems, based on OFI multiuse: cultivation improvement; by-products valorization/exploitation; new market opportunities; participatory identification of new business models; policy-maker measures for local OFI value chain innovation.

Main Activities

OFI-MED will integrate methodologies belonging to socio-economic, environmental and technical disciplines. The main activities will focus on the development of:

- Multi-actor participatory strategy/approach;
- New technologies to improve OFI cultivation;
- Biomolecules/Biomaterials recovery processes from OFI crop;
- Sustainable management and new participatory business models for OFI value chains.

Expected Results

- Improve agricultural innovation capacity in Mediterranean areas and counteract desertification;
- Increase stakeholders' awareness of OFI products potential;
- Improve working conditions in rural areas;
- Socio-economic and environmental enhancement of rural regions, developing new products from OFI by-products.

Target Groups

Farmers, NGOs, women association, policy-makers, SMEs, experts and local communities, General public, Citizens from the participating countries.

Final Beneficiaries

Farmers and agrifood associations, nutraceutical and cosmetic sector, municipalities. 1500.

Partners

Algeria: Mascara University
 Greece: National Technical Athens University
 Tunisia: Sfax Biotechnology Centre
 Turkey: Manisa University
 Italy: UniSI, UniPG, ENEA, BIOINAGRO

Name of Organisation and contact details

UNIVERSITY OF SIENA
 Department of Biotechnology Chemistry and Pharmacy
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 Claudio.rossi@unisi.it



**UNIVERSITÀ
 DI SIENA**
 1240

Summary

In the framework of the programme "MigraVenture 1.2", which encourages the creation of small and medium enterprises to reduce the national unemployment and boost the economic growth, OXYLAB contributes to provide high quality chemical and microbiological analysis. The project foresees the creation of a high standard scientific analysis laboratory, which will use high quality and innovative equipment, assure the best value for money and contribute to the scientific training of Cameroonian youngsters to reduce youth unemployment.

Location

Douala, Cameroon.

Total Estimated Cost

170.000 €

Amount Requested

80.000 €

Objectives

- Delivery of professional chemical and microbiological analysis using high quality and innovative equipment;
- To become a point of reference in the field of microbiological and scientific analysis in Cameroon

Main Activities

The laboratory will mainly:

- Take sample among customers and analyze them (chemical and microbiological analysis of foodstuffs, water, hydrocarbons, pharmaceutical and cosmetics products, quality assurance)
- Communicate and archive the results
- Improve customers' loyalty and research

Expected Results

Delivery of:

- Agri-Food Product Analysis
- Water Analysis
- Analysis of cosmetic products
- Analysis of hydrocarbons
- Analysis of pharmaceutical products

Financials:

Year I expected revenues: 135.000.000F (€ 206.000) Year II expected revenues: 183.960.000F (€ 280.000) Year III expected revenues: 187.920.000F (€ 286.000)

Target Groups

In principle, all companies operating in the sectors of: agribusiness, hydrocarbons, cosmetics, soap factories, oil mills, pharmaceuticals, water, paints, others, are part of the potential customers of the laboratories of scientific analyzes.

Reasonably, we can estimate at more than 300, the number of companies likely to be part of the clientele.

Final Beneficiaries

It is a business activity /not a project

Partners

The partners would be involved in technique aspects (supply of equipments for example) as well as in financial aspects (providing funds in the start-up phase). The international partners include some of the most important European scientific laboratories.

Name of Organisation and contact details

OXYLAB (O₂)

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d.libralesso@etimos.org



17.

Promoting Alternative Care for Children (PACC) in Free State, Gauteng and Limpopo provinces of South Africa



Summary

2.4 million orphans are living in South Africa and around 400.000 foreign children are reaching the country every year. The lack of family care is being addressed through the implementation of residential facilities. Reaching most vulnerable children can be forested by strengthening the capacities and the cooperation with government's officers, by supporting children's empowerment and integration in the community providing them skills and new opportunities, by involving cultural mediators helping to cope whit the needs of migrant children.

Location

South Africa; Limpopo, Free State and Gauteng provinces

Total Estimated Cost

3.850.000 €
(3 years – overall duration)

Amount Requested

3.465.000 €

Objectives

General: Vulnerable children to be reached through an alternative care system.

Main Activities

Mapping formal and informal residential care facilities, keeping in line whit DSD guidelines; preparing the staff in residential alternative care management system, while improving children's participation in community life and understanding of the system; establishment of Child Protection Committees whit the aim of identifying, reaching and monitoring children in need.

Expected Results

- 2000 children to receive quality alternative care in 30 selected residential care facilities
- De-institutionalisation through improved community-based care solutions
- Provide 14 communities systems and resources to identify and support vulnerable children
- Raising awareness in unaccompanied children in 4 target urban setting

Target Groups

Local Authorities representatives; Provincial Steering Committees; caregivers and managers in care facilities; children in residential care; Children Committees; Community Child Protection Committees; children at risk of separation; CSOs; Parents/Caregiver; South African citizen.

Final Beneficiaries

11.929.739 inhabitants target districts; DSD officials of 9 provinces.

Partners

Save the Children South Africa, the Department of Social Development of the Republic of South Africa.

Name of Organisation and contact details

SAVE THE CHILDREN ITALIA ONLUS
Maria Luisa Altobelli, luisa.altobelli@savethechildren.org
<https://www.savethechildren.it>



18.

We tell us - For a new education in international cooperation (Project submitted to Bando AICS ECG 2018)



Summary

The project, with a strategy of coordinated actions, aims at rediscovering our identity as Italian citizens jointly liable. Through different training courses, addressing specific targets, the values inherent in the Italian culture: solidarity, international cooperation, welcome, respect for human rights, are meant to be brought in the forefront. Three categories of targets have been chosen:

1. School and university students defined by an Ipsos research "The moderate disengaged"; 2. Four categories of professional opinion leaders (journalists, lawyers, health workers, public officials); 3. The so-called "Neglected", retired people and housewives.

Location

Italy – Lazio, Lombardia, Trentino, Sicilia, Liguria, Veneto – Roma, Milano, Trento, Catania, Genova, Padova.

Total Estimated Cost

401.954 €

Amount Requested

361.759 €

Objectives

Promote a better perception and predisposition towards international cooperation and foster a process of activation and commitment by students, professionals, mass media and citizens.

Main Activities

- A - Constitution and meetings of the coordination group
- B - Initial research
- 1.1 Intercultural workshops in 32 schools;
- 1.2 8 online courses and 25 frontal courses for professionals;
- 1.3 11 Academic seminars and conferences;
- 1.4 10 training and sensitisation meetings for retired people and housewives;
- 1.5 Training addressed to 15 beneficiaries in departure for their Experience in Africa;
- 1.6 Academic and sensitisation material;
- 1.7 "La Cooperazione fa notizia" campaign in 500 juvenile and educational editors "Dire";
- 1.8 beneficiaries' products and output;
- 1.9 Field experience in Africa available for 15 beneficiaries;
- 1.10 Organisation of an International Cooperation Festival;
- 1.11 Streaming of a Web Series regarding traveling to Africa;
- 1.12 TV and radio broadcasts;
- 1.13 A social communication campaign ;
- 1.14 Organisation of events within the territory;
- 1.15 Augmented reality App and Web platform.

Expected Results

- 1.1. The quality of information regarding international cooperation and NGO is improved
- 1.2. Expanded knowledge and competences about international cooperation and the role of NGO in the civil society of the targeted beneficiaries (nearly 4000 professionals, school and university students, retired people and housewives)

Target Groups

Different categories of professionals, young students, The so-called "The neglected", web users.

Final Beneficiaries

6800 school and university students, 970 journalist, lawyers, health workers, public officials, 800 retired people and housewives, 50000 web users and viewers.

Partners

WeWorld, Amref, Cuamm, Progetto Diritti, Don Bosco 2000, Unimol, IUSVE, CSER, il Nodo sulle Ali del Mondo Onlus, Senior Italia FederAnziani, UNIPV, Cooperativa Promozione e Ricerca Socio Culturale – Kore di Enna, CEMAS, UPS

Name of Organisation and contact details

VIS – Volontariato Internazionale per lo Sviluppo
 Via Appia Antica, 126 – 00179 – Roma
 vis@volint.it
 06.516291
 Luca Cristaldi – Responsabile Area Italia
 l.cristaldi@volint.it
 06.51629331 – 3358787573
 www.volint.it





Summary

The objective of ReMED is to develop innovative cropping systems for the Mediterranean area able to cope with limited resources, environmental constraints and changing climate and to increase the preservation of farm household in rural areas. ReMED will deploy an experimental framework for the test of new resilient cropping systems based on i) New Perennial Grains (NPGs - perennial wheat and perennial sorghum) and ii) Evolutionary Populations of cereals (EPs - barley, common wheat, durum wheat, triticale) specifically adapted to rotation with legume crops. They show greater resilience to environmental and climate constraints, are less resource demanding and offer a series of ecosystem services such as protection against soil erosion, soil fertility and biodiversity preservation.

Location

Mediterranean area, in particular Italy, France, Germany, Algeria, Tunisia and Jordan.

Total Estimated Cost

1.924.810,00 €

Amount Requested

1.924.810,00 €

Objectives

Overall objective of the project is to develop innovative cropping systems able to increase resilience of the Mediterranean cropping systems, with the following specific objectives:

- To demonstrate the benefits of such cropping systems through:
 - the assessment of their agronomic performance in relevant Mediterranean vulnerable environments
 - the assessment of safety and quality of the produced agricultural commodities
 - the assessment of environmental, economic and social benefits for farmers and consumers also by using predictive models
- To overcome technical and institutional barriers to the adoption of such innovations by farmers through:
 - the involvement of key actors of the value chain and the Agricultural and Knowledge Innovation System (AKIS)
 - the improvement of knowledge about the technical and organizational dynamics of Mediterranean production systems.

Main Activities

WP1: field trials in different locations in Tunisia, Jordan, Italy and Algeria, in order to assess the agronomic performance of NPGs and EPs;
 WP2: effects of NPGs and EPs on soil function, biodiversity and water management;
 WP3: evaluation of nutritional and technological quality and safety aspects;
 WP4: development of new crop model tools and sustainability evaluation;
 WP5: socio-economic assessment of the introduction of NPGs and EPs in Mediterranean farming systems and related value chains;
 WP6: stakeholder engagement strategies to trigger and consolidate positive social changes and adoption of the innovations;
 WP7 and WP8: dissemination, exploitation and management.

Expected Results

introduction of innovative cropping systems, resilient to climate change and appropriate for cultivation in low-input agriculture;
 - improvement and preservation of crop and soil microbiota biodiversity;
 - enhancement of agricultural production and quality over time, stabilizing yields and farmers' income;
 - increase of wealth and of social inclusion process of all actors of the value chain;
 - support of local and national economies.

Target Groups

- Small farm holders and household farming in the Mediterranean area;
- Farmers associations and related value chains;
- Local producers and transformers;

Final Beneficiaries

Beneficiaries will be small holder farmers and consumers in local communities in the Mediterranean area (several millions of people in the Mediterranean basin).

Partners

The consortium includes 8 research entities respectively from France (CNRS), Italy (UNIPR, CNR-IBIMET, CREA-IT), Tunisia (INRAT, INRGREF), Jordan (NARC), and Algeria (INRAA), a farmer's organization from Algeria (RSPGC), an agro-food innovation company (Open Fields, Italy) and a cereal and legume food company (GoodMills Innovation, Germany). Farmers are also included in the project and most of the field trials will be on farmers' fields.

Name of Organisation and contact details

UNIVERSITY OF PARMA
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 Cell. +39 334 6575780
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 www.unipr.it





Summary

SecureFarmer develops sustainable farming communities by deploying the most suitable mechanical and digital technology for smallholder farmers in Africa. Modernizing agriculture in Africa requires investment and credit to farmers to increase productivity; farmers need access to affordable finance in addition to tractor-ready farmland. Increasing farmer's access to these resources is imperative to increasing their productivity. SecureFarmer leases its members unencumbered land, offers input and mechanical services credit along with AI powered farming recommendations to reduce farmer costs and increase incomes.

Location

Nigeria, Southwest, Oyo State.

Total Estimated Cost

365.000 €

Amount Requested

250.000 €

Objectives

Our objective is to aggregate 450 farmers on 450 hectares of contiguous land to reduce the cost of deploying mechanization services and input supply to double farmer yields.

Main Activities

Service and Input Credit: SecureFarmer supplies high quality inputs and mechanization on credit to farmers
 Training: Farmers receive training on agronomical practices, data and mechanization.
 Market Access: Farmers grow preselected crops with purchasers at prevailing market prices.

Expected Results

- Adoption of mechanization usage by smallholder farmers
- Adoption of high quality seeds, crop protection, and fertilizer
- 100% increase in farmer yields based on data driven recommendations
- Access to land for smallholder women

Target Groups

Traditional farmers in Alako village and new entrant farmers from Ibadan are our target groups of our services.

Final Beneficiaries

We expect to impact 450 farmers through this initiative.

Partners

We have partnered with OCP Group, CTA, ATMANCorp Nigeria LTD, and IITA

Name of Organisation and contact details

SECURE FARMER
 www.securefarmer.com
 +234.812.791.5251
 info@securefarmer.com



SheSTARTS Rwanda: from training to scaling up! A digitally-enabled peer-to-peer path to foster female entrepreneurship



Summary

SheSTARTsRwanda (SheSTAR) aims to design an innovative peer-to-peer (P2P) path for fostering female entrepreneurship (FE) in Rwanda. The path rests on three pillars: training, resource access, resource management, grounded onto a blockchain-based digital backbone

Location

Rwanda, region of Kigali and nearby areas.

Total Estimated Cost

180.000 €

Amount Requested

180.000 €

Objectives

SheSTAR designs an actionable, digitally-enabled path to foster FE, having well in mind local strengths and challenges. In the short-run, it will promote FE in Rwanda; in the long-run, it will empower women to create successful female ventures (FVs) for earning a life and creating jobs in many countries. The project tackles SDG5 (achieving gender equality), SDG4 (ending poverty), and SDG8 (promoting inclusive and sustainable economic growth).

Main Activities

Training phase: design an entrepreneurial training, including platform-based training and workshops for networking and role modelling. The former will combine online MOOCs on basic (e.g., business plan, project management, accounting, HR, marketing, logistics) and soft skills (e.g., public speaking, idea pitching) plus face-to-face workshops. Resource access. Devise a P2P platform to enable crowdsourcing of resources from local and distant providers. To do this the platform will embed blockchain (BC) and certification tools. It will also include the design of female-specific incentives for donor women to promote their engagement.

Resource management. Develop methods and tools to enable an innovative P2P management of resource and activities, to allow women managing inputs' requests, production planning, money investments and savings.

Expected Results

- Prove the feasibility of SheSTAR in terms of TW's recruiting, completion of the training and resource access path, and creation of new FVs.
- Defining the technological layer, with specifications that meet Rwandese needs, but are flexible enough to fit new working assumptions (e.g., portability issues).
- Evaluate the acceptance and diffusion of the P2P approach, both locally and in the DW's countries and defining strategies to maximize them.
- Ensure the sustainability of SheSTAR, considering the input/output balance of all actors and enabling self-sustainability through the P2P approach.
- Enable the high social impact of SheSTAR, optimizing its grounding on the territory (e.g., via a local incubator) and defining its portability features.

Target Groups

Main targets are local women with basic IT skills and literacy.

Final Beneficiaries

Main beneficiary: Women of Rwanda and then possibly of other African nations. In a real implementation we expect on average to engage up to 50 women per year per country.
Secondary beneficiary: families and communities, with a multiplicative factor of 5-10 persons per engaged woman.

Partners

Partners: Okapia (OK): onlus operating in Rwanda; Polihub Servizi s.r.l (PH): startup incubator/accelerator of Politecnico di Milano; Mangrovia solutions (MS): software house specialized in blockchain; Landoor (LA): startup specialized in language services.
- Interested entities: Caritas De L'Archidiocese de Kigali (CK): religious organization; Observatories on Digital Innovation (ODI): research center; Opesfund (OF): no-profit investment vehicle; Startupitalia (SI): startup magazine; Rwanda Polytechnic (RP): university.

Name of Organisation and contact details

POLITECNICO DI MILANO

Piazza Leonardo da Vinci, 32 – 20133 Milano - Italy


Webiste: www.polimi.it

Contact: Prof. Mara Tanelli, Dipartimento di Elettronica, Informazione e Bioingegneria, mara.tanelli@polimi.it – cristina1.rossi@polimi.it



POLITECNICO
MILANO 1863

#Smart_W/O_slum An integrated development plan for the environmental upgrade of slums in medium-sized African cities, based on IMM methodology: the case study of Quelimane (Mozambique)

	<p>Summary</p> <p>#Smart_W/O_slum build up a benchmark Development Plan for slum upgrading for medium-size African cities in the framework of the 2030SDGs in the climate change scenario. It integrates the localized actions into a systemic perspective and provides programmatic alternative to fragmented interventions in slums, by a precise evaluation tools to test the social and environmental performances of the upgraded systems. Quelimane, characterized bad water quality, poor housing, lack of drainage and sanitation systems, lack of public utilities and is elected as a study case.</p>	
<p>Location</p> <p>Quelimane (Mozambique) located along the Cuacua River with approximately 400,000 inhabitants is elected as representative of African medium-sized city.</p>	<p>Total Estimated Cost</p> <p>300.000 €</p>	<p>Amount Requested</p> <p>200.000 €</p>
<p>Objectives</p> <p>#Smart_W/O_slum considers that access to core urban services create more inclusive, sustainable and resilient cities. Hence “hubs” of improvement are activated by integrated action in ecosystem services, energy, waste, water, food to booster local economies and better access to services</p>		
<p>Main Activities</p> <ul style="list-style-type: none"> - Diagnostic of the current situation/performance, based on IMM methodology (WPa); - Identification of the intervention areas, assumption phase, decision making level, municipality empowerment (WPb); - Integrated projects in ecosystems, energy, waste, food, water, mobility for the slum upgrading, activation of local economic, better access to services (WPc); -Retrofit of the actions effects and performance (WPd). 	<p>Expected Results</p> <p>The #Smart_W/O_slum aims to produce a long-term social impact by:</p> <ul style="list-style-type: none"> - access to basic services such as water supply, sanitation and electricity. - positive influence on economic growth and the reduction of poverty/ inequality (SDG1/SDG4/SDG5/SDG8/SDG10SD/G11). - Job creation opportunities. - The development of an Utility Management System a ICT platform able to gather data from widespread sensors in the slum. 	
<p>Target Groups</p> <p>Regional and local public authorities, sectoral agencies, and infrastructure and (public) service providers); Interest groups including NGOs, business support organizations and local communities.</p>	<p>Final Beneficiaries</p> <ul style="list-style-type: none"> - Quelimane local administration - Communities/inhabitants of the informal areas - Medium-sized African cities, where the plan might be replicated. 	
<p>Partners</p> <p>Municipality of Milan; Municipality of Quelimane; UNOPS (United Nations Office for Project Services); AVSI Foundation; Universidade Eduardo Mondlane, Faculdade de Arquitectura e Planeamento Urbano, Maputo; MM (Metropolitana Milanese) S.p.A.; Brianzacque S.r.l.; A.P.I. (association of small and medium-sized enterprises of the Lombardy Region);</p>		
<p>Name of Organisation and contact details</p> <p>POLITECNICO DI MILANO Webiste: www.polimi.it Dipartimento di Architettura, Ingegneria delle costruzioni e Ambiente Costruito ABC Via Ponzio 31. 20133 Milano Contatti: Proff. Gabriele Masera, Massimo Tadi Email: gabriele.masera@polimi.it massimo.tadi@polimi.it Telefono 02-2399- 6044 – 02-2399- 5744</p>	 <p>POLITECNICO MILANO 1863</p>	

SOLar-Energy-integrated hybrid Membrane process for InnOvative desalination with brine disposal and wastewater purification by micro-pollutant photodegradation. (SOLEMIO)

Summary

The SOLEMIO proposal aims to employ solar energy-based innovative membrane processes for petroleum and pharmaceutical wastewater treatment and water desalination so as to supplement the agricultural/domestic freshwater requirement.

The proposal focus on the integration of research activities in EU, and in Tunisia and Algeria. Membrane-distillation (MD) and photocatalytic-membrane-reactor (PMR) will be adopted. Nanostructured and reactive membranes will be prepared by using plasmonic nanoparticles. The integrated solar-membrane-process will be scaled-up and applied in real systems for the production of freshwater (TRL3-TRL5).

SOLEMIO proposal is in line with the objectives of the circular economy.

Location

South Europe and North Africa
Countries: Italy, Calabria, Rende (CS); Algeria, Bab-Ezzouar and District of Sidi M'Hamed, Algeri; Spain, Aragon, Zaragoza, France, Montpellier, Tunisia, Sfax and.

Total Estimated Cost

1.997.000 €

Amount Requested

1.997.000 €

Objectives

- Delivery of professional chemical and microbiological analysis using high quality and innovative equipment;
- To become a point of reference in the field of microbiological and scientific analysis in Cameroon

Main Activities

- Development of a more efficient and cost effective nanostructured membranes by using photothermal nanoparticles for water desalination.
- Production of PMRs loaded with traditional and new-visible light photocatalytic nanoparticles for wastewater treatment.
 - Development of photoactive membranes
 - Combination of solar MD and PMR processes for lab-scale application.
 - Scale-up of the solar energy integrated membrane process for pilot scale application

Expected Results

- Seawater desalination by means of solar MD innovative process.
- Degradation of active pharmaceutical components or organic pollutants through the incorporation of new photocatalytic nanoparticles (active under solar energy) using integrated inorganic membranes processes.
- Improvement of solar desalination efficiency by using photothermally active nanoparticles.
- Brine treatment.
- Utilization of recovered/treated high quality water (in terms of pollutants and microbial content) in agrofood industry
- Reduction of the specific cost of fresh water production with solar energy
- Sustainable development of arid zones.

Target Groups

Target stakeholders to be addressed in the WW treatment and fresh water supply in Mediterranean areas: water sector, end users (farmers and other related water management companies), policy makers (national, regional and international level), authorities, national and international related initiatives (technology platforms, associations) and citizens.

Final Beneficiaries

- The proposal offers many commercial opportunities for companies that are active in the engineering of water treatment installations.
- Providing affordable clean water and sanitation improves health conditions of the population, particularly for the poor and underprivileged communities.
- New market opportunities.

Partners

- University of Calabria – Department of Computer Engineering, Modeling, Electronic and System Engineering, DIMES (UNICAL)- ITALY
- National Research Council - Institute on Membrane Technology (ITM-CNR) -ITALY
- University of Science and Technology Houari Boumediene (USTHB)-ALGERIA
- SONATRACH, Corporate Research and Development Direction (SONATRACH)- ALGERIA
- University of Zaragoza - Nanoscience Institute of Aragon (UNIZAR)-SPAIN
- Institut Européen des Membranes - National Center for Scientific Research, CNRS Montpellier (IEM)-FRANCE
- University of Sfax - Faculty of Science of Sfax, (USfax)-TUNISIE
- CYTOPHARMA, Research and Development management (CYTOPHARMA)-TUNISIE

Name of Organisation and contact details

UNIVERSITY OF CALABRIA

Department of Computer Engineering, Modeling, Electronic and System Engineering, DIMES (UNICAL)

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Summary

Success in controlling FAW depends on comprehensive implementation. FAW persists throughout the year and consumes more than 80 plant species making it a devastating pest. Controlling it requires technologies that can treat a high number of acres per day. Drones are able to treat 100 acres per day. For farmers to rapidly and effectively control FAW, an app will allow farmers to detect the pest, request and track drone services. Neighbouring farms of affected areas receives discounts if booking for preventive reasons.

Location

Corn, rice, sweet potato and mango growing regions of Ghana

Total Estimated Cost

402.000 €

Amount Requested

330.000 €

Objectives

- Raise awareness for the need for cooperation in the control of fall army worm
- Promote cooperation through joint spray drone scheduling
- Promote the use of spraying drones (digitisation in agriculture)

Main Activities

- Development of an app that allows farmers to schedule their spray applications using drone technology.
- App shows the price reduction based on the number of acres to be treated
- Information material is developed and distributed through farmer associations, processors, exporters, social media, and publicity in radio and press

Expected Results

- Awareness that control of FAW requires cooperation
- Farmers, processors and exporters see technical/financial advantages of drones and understand that scheduling drone services allows control of FAW and reduces costs
- Our drone services become accessible to commercial, contract and small-holder farmers

Target Groups

- farmers, processors and exporters
- extension services
- media
- pesticide manufacturers and distributors
- government authorities

Final Beneficiaries

Thousands of farmers, processors and exporters, and AcquahMeyer Drone Tech.

Partners

- AcquahMeyer Drone Tech
- Commercial farmers
- Small-holders
- Regional agricultural directors
- Processors
- Exporters
- Pesticide manufacturers

Name of Organisation and contact details

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Summary

Retinopathy of Premature (ROP) is the 1st cause of child blindness in Latin America. Early detection and treatment can prevent it! In Guatemala, ROP affected 40% of 58.557 premature babies in 2016. Only 9 hospitals located in the capital can treat ROP. The government has no resources to deliver this service to rural areas. CBM Italia and the local partner National Ophthalmology Unit - Ministry of Health Guatemala implement a 3-year-project to reduce the ROP incidence in rural areas focusing on CapacityBuilding, Prevention and Innovation (Telemedicine).

Location

Guatemala is the country of intervention (17 millions population). The project will be implemented within 7 hospitals located in the following regions and rural municipalities in particular:

- Southwestern region (5 hospitals): Municipalities of Quetzaltenango and Coatepeque (Quetzaltenango department), Mazatenango (Suchitepéquez department), Totonicapan (department of Totonicapan), San Marcos (department of San Marcos);
- Northwestern region (2 hospitals): Departments and Municipalities of Huehuetenango and Quiché.

Total Estimated Cost

252.411,00 €
(total cost, 3 years of project)

Amount Requested

81.659,00 €
(requested contribution, 10 months of project)

Objectives

General Objective: To reduce child blindness caused by ROP in Guatemala, in 3 years
Specific Objective: To implement a protocol on ROP prevention and treatment in 7 hospitals of target rural areas

Main Activities

1. Provision of innovative medical equipment for Telemedicine (2 Pictureplus, 1 PulseOximeter)
2. Specialist training courses on ROP prevention and treatment for hospitals' health staff: nurses, pediatricians, neonatologists and interns of ophthalmology
3. Sensitization of parents and families on the importance of medical examinations and treatments for children with ROP

Expected Results

- 1) Strengthened the ophthalmic service delivery in target rural areas
- 2) Premature babies with ROP living in rural areas are early detected and treated
- 3) Improved access of premature babies and their families to ROP services

Target Groups

Rural communities living in the catchment area of 7 hospitals, in particular families with premature babies, who currently have no access to ROP services.

Final Beneficiaries

10.000 premature babies screened/treated
110 ophthalmology interns/pediatricians/neonatologists/nurses trained
700 parents sensitized

Partners

Local Partner: National Unit of Ophthalmology (UNO), Ministry of Health's Unit implementing a ROP comprehensive program.

Name of Organisation and contact details

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Summary

Upper Rural Egypt is suffering for extreme poorness, leading to high unemployment, especially among youth and women. Moreover, Assiut is facing an expansion of labour force that overwhelms the demand of a market still suffering for low diversification and skills development. The project aims at helping most vulnerable youth to develop working knowledge and skills, but also to address the capacity development needs of CSOs and the gaps in access to meaningful livelihoods that exist for adolescents and youth.

Location

Egypt, Upper Egypt, Assiut Governorate

Total Estimated Cost

1,000,000 €
(3 years – overall duration)

Amount Requested

900,000 €

Objectives

General: contributing to local development by providing opportunities to vulnerable youth aged 15-24.

Main Activities

Capacity building of local CSOs; capacity development of youth on life, employability and entrepreneurship skills; provide youth with seed funds to purchase toolkits, necessary materials and items to start their small businesses; outreach and awareness raising among institutions, private sector, civil society, communities, teachers and school supervisors.

Expected Results

- Local partners and targeted CSOs are capacited to support youth employment and self-employment
- CSOs are equipped to empower targeted youth with life and entrepreneurial skills
- Local government bodies, private sector and local communities are actively engaged to support youth's development of market-driven career / livelihood opportunities

Target Groups

Local partner and community-based organizations, vulnerable children, local authorities, private sector, school supervisor and teachers, family members of youth.

Final Beneficiaries

71,000 people in the targeted communities (youth and their families).

Partners

Save the Children International-Egypt Country Office; Giving Without Limits Association (GWLA).

Name of Organisation and contact details

SAVE THE CHILDREN ITALIA ONLUS
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Summary

Senegal is one of the Sahelian countries severely affected by malaria throughout the year. This has led the Senegalese authorities to set up an integrated system to fight this disease through several strategies. This project fits into this national strategy by bringing a major technological touch by the introduction of drones and geographical information systems to act before the proliferation of mosquitoes at all their breeding sites across the country.

Location

Country: Senegal
Regions: Dakar, Diourbel, Tambacounda, Fatick, Kaffrine, Kédougou, Kolda, Ziguinchor

Total Estimated Cost

90.000 €

Amount Requested

80.000 €

Objectives

General objective: eradicate malaria in Senegal

Specific objectives:

1. Mapping of all mosquitos nets in Senegal
2. Develop an information system for strategic action plan
3. Develop national skills on spraying drones
4. Set up an early warning system on mosquito presence

Main Activities

- Build a geographic information system related to mosquitos and malaria
- Spray all mosquitos nets over the country
- Build capacities of hygiene officers on drones
- Monitor and evaluate spraying actions

Expected Results

- zero cases of malaria
- the technical platform of the hygiene service is upgraded
- lives of hundreds of people are saved
- The national program against malaria reaches objectives

Target Groups

The targeted groups are children, elders, women and poor people who are mostly living in countryside

Final Beneficiaries

The estimated beneficiaries are 320000 persons

Partners


- The National Malaria Control Program (Programme National de Lutte contre le Paludisme PNLP in French)
- The National Hygiene Service
- Local authorities

Name of Organisation and contact details

GEORISK AFRIC

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See you next year!