

Investing in the knowledge economy within ACP states

- EDULINK II
- ACP-Science & Technology Programme (S&T II)
- ACP Caribbean & Pacific Research Programme for Sustainable Development



Presentation of the Programmes



Implemented by the ACP Secretariat



ACP S&T PROGRAMME



Financed by the European Union

Publisher: ACP Secretariat
Editor in chief: Dominique Raymond, ASG, PAHD, ACP Secretariat
Production: GOPA-Cartemill

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Foreword



The three programmes represented in this brochure: *EDULINK II*, the *ACP-Science & Technology Programme (S&T II)* and the *ACP Caribbean & Pacific Research Programme for Sustainable Development*, are

key programmes in the fulfilment of the objectives of the ACP-EU Cotonou Partnership Agreement. These programmes, EDULINK, launched in 2006 followed by ACP S&T in 2008 and the ACP Caribbean & Pacific Research Programme for Sustainable Development in 2010, have been instrumental in engaging a broad range of organisations in ACP (and EU) countries, delivering access to international networks in socio-economic fields of importance in creating sustainable and equitable knowledge based societies.

During this first phase, the 9th European Development Fund (EDF) allocated to EDULINK and ACP S&T a total EUR 65 million, co-financing 142 partnerships. As a direct result, certain ACP higher education institutions supported by EDULINK are recognised as regional centres of excellence, offering advanced learning practices and outcomes for students, academic and technical staff. The ACP S&T Programme has facilitated enhanced recognition and importance for Science, Technology, and Innovation by policy makers and other stakeholders.

The current second phase, prioritises *Agriculture and Food Security along with Energy Access and Efficiency* identified through the EU 2012 policy document *“An Agenda for Change”* has co-financed a total of 68 partnerships (EDULINK II 47 and ACP S&T 21) from the 10th EDF (EUR 18.3

and EUR 17.8 million respectively) with additional funding from the EU Budget’s Development and Co-operation Instrument (DCI) enabling the full participation of South Africa in the EDULINK II and ACP S&T II programmes (EUR 5 and 3 million respectively).

Meanwhile the ACP Caribbean & Pacific Research Programme for Sustainable Development, focusing on *Agriculture and post-harvest*, *Renewable and sustainable energy*, *Water and sanitation* and *Climate change* includes 10 partnerships financed through a 4.8 million allocation from the 10th EDF.

The pursuit of excellence in standards of higher education, science and research is an indispensable catalyst in transforming the lives of the 800 million plus people represented by the ACP Group of States. Improving the quality of learning and innovation will be essential as a means to achieving the desired inclusive development and economic growth amongst the ACP Group’s membership.

It is to my great satisfaction therefore that the ACP Group of States Secretariat, with the close co-operation of the European Commission is able to support these innovative initiatives represented here in this brochure. The three programmes offer important opportunities for actors in the ACP higher education and research sectors to enhance their expertise and resources to address both the structural as well as the scientific and technological challenges to positively contribute and shape national and regional development strategies within the ACP regions.

Ms Michèle Dominique Raymond

Assistant Secretary-General, Political Affairs and Human Development Department, ACP Secretariat.

Les trois programmes dont fait l'objet cette brochure : EDULINK II, le Programme ACP pour la Science et la Technologie (S&T II) et le programme de recherche Caraïbes et Pacifique pour le développement durable, sont des programmes clés dans la réalisation des objectifs de l'Accord de partenariat ACP-UE, signé à Cotonou. Ces programmes, EDULINK, lancé en 2006 suivi par ACP S&T en 2008 et le programme de recherche Caraïbes et Pacifique pour le développement durable en 2010 ont largement contribué à l'accès d'un grand nombre d'organisations des pays ACP (et de l'UE) à des réseaux internationaux dans des domaines socio-économiques d'importance pour la création de sociétés du savoir durables et équitables.

Au cours de cette première phase, le 9^{ème} Fonds européen de développement (FED) a alloué à EDULINK et ACP S & T 65 millions d'euros, cofinçant ainsi un total de 142 partenariats. Comme conséquence directe, certains établissements d'enseignement supérieur des pays ACP appuyés par EDULINK sont reconnus comme des centres régionaux d'excellence, offrant des formations supérieures aux étudiants, aux membres du personnel académique et technique. Le Programme ACP S&T a permis, quant à lui, une meilleure considération de la science, de la technologie et de l'innovation par les décideurs politiques et les autres parties prenantes.

La seconde phase actuelle de ces deux programmes, a donné la priorité à deux thématiques, 'agriculture et sécurité alimentaire' et 'accès à l'énergie et l'efficacité énergétique', identifiées dans le document 2012 de l'UE " Un programme pour le changement " et a cofinancé un total de 68 partenariats (EDULINK II : 47 et ACP S&T II : 21) grâce au 10^{ème} FED (18,3 et 17,8 millions d'euros respectivement), et au financement supplémentaire du budget de l'UE 'Instrument de

financement de la coopération au développement' (ICD) permettant ainsi la pleine participation de l'Afrique du Sud dans les programmes EDULINK II et ACP S&T II (avec 5 et 3 millions respectivement).

Dans le même temps, le programme de recherche Caraïbes et Pacifique pour le développement durable a mis l'accent sur 4 thématiques : 'agriculture et post-récolte', 'énergie renouvelable et durable', 'eau et assainissement' et 'changement climatique' finançant 10 partenariats par une allocation de 4,8 millions d'euros du 10^{ème} FED.

La poursuite permanente de l'excellence dans l'enseignement supérieur, la science et la recherche est un catalyseur essentiel pour transformer la vie des 800 millions de personnes représentées par le Groupe des États ACP. L'amélioration de la qualité de l'apprentissage et de l'innovation est et restera primordiale pour assurer le développement inclusif souhaité et la croissance économique parmi les membres du Groupe ACP.

C'est à ma grande satisfaction donc que je souligne le fait que le secrétariat du Groupe des États ACP, et l'étroite collaboration avec la Commission européenne est en mesure d'appuyer un nombre important d'initiatives innovantes, présentées dans cette brochure. Les trois programmes offrent des opportunités aux acteurs des secteurs de l'enseignement supérieur et de la recherche des pays ACP afin d'améliorer leur expertise et leurs ressources pour relever à la fois les défis structurels, scientifiques et technologiques et contribuer efficacement aux stratégies de développement national et régional dans les régions ACP.

Mme Michèle Dominique Raymond

Sous-secrétaire générale, Département des Questions politiques et du développement humain, Secrétariat ACP.



In recent years great progress has been made towards the achievement of the Millennium Development Goals. However, extreme and chronic poverty remains one of the biggest challenges in ACP countries.

Strengthening ACP countries' capacities to find innovative solutions to increase their resilience to external shocks and engender sustainable and equitable economic growth is a key dimension to tackle poverty. For this reason higher education, science & technology and applied research are at the heart of the 10th EDF intra-ACP strategy.

By strengthening the institutional capacities of ACP academic institutions, upgrading curricula and promoting exchanges, Edulink II contributes to improving the quality of higher education and making it more responsive to ACP countries' needs. With a total allocation of EUR 23.3 million, Edulink II builds upon the positive results of Edulink I (EUR 30 million), which has financed 66 partnerships comprising 210 academic institutions and covering 51 ACP countries. The projects from the new phase, which we present in this publication and that have been selected through a call for proposals, will involve 47 new partnerships comprising 151 academic institutions and covering 43 ACP countries.

Simultaneously, the programme ACP Science and Technology II, with a total allocation of EUR 20.8 million, contributes to reinforce the capacities of ACP countries to support and promote Research and Innovation. The programme encourages the

creation of synergies between government, academia and the private sector. The first phase of this programme, Science and Technology I (EUR 35 million), has financed 36 partnerships comprising more than 200 institutions and covering the majority of ACP countries. Following the last call for proposals within the second phase of ACP Science and Technology, 21 new partnerships, which are presented in this publication, will be financed and they will focus on improving capacities particularly in the agriculture, food and energy sectors.

To complement these initiatives, direct support to applied research is provided through the programme Research for Sustainable Development in the fields of agriculture, water sanitation, energy and climate change, with a total allocation of EUR 20 million. The programme combines an African component managed by the African Union Commission (AUC) and a Caribbean and Pacific component managed by the ACP Secretariat. The Programme is presently financing 30 partnerships in all ACP regions. The ten partnerships presented in this brochure involve academic and research institutions in the Caribbean and Pacific Regions.

These three programmes will finance about 200 partnerships, which together will promote access to knowledge, reinforce capacities and foster innovation thus increasing ACP countries' resilience and economic growth. The European Commission, together with the ACP Secretariat, is strongly committed to continue to strengthen and nourish the new and ongoing projects in order to ensure their success in contributing to fight poverty.

M Denis Salord

Head of Unit, Development and Cooperation DG, European Commission

Ces dernières années, d'importants progrès ont été réalisés dans le cadre des objectifs du millénaire du développement. Néanmoins, l'extrême pauvreté demeure l'un des plus grands défis pour les pays ACP. Pour y répondre, le renforcement des capacités des pays ACP à développer des solutions innovantes afin d'accroître leur résilience, de générer une croissance économique durable et équitable et de combattre la pauvreté est une dimension clef. C'est pourquoi, l'éducation supérieure, les sciences et technologies et la recherche appliquée sont au cœur de la stratégie intra-ACP pour le 10^{ème} FED.

Soutenant le renforcement des capacités institutionnelles des établissements d'enseignement supérieur ACP, en consolidant leur formation et en encourageant les échanges interuniversitaires, un programme comme Edulink II contribue à améliorer la qualité de l'éducation supérieure et à la rendre plus adaptée aux besoins des pays ACP. Avec un montant total de EUR 23,3 millions, Edulink II a prolongé les efforts d'Edulink I (EUR 30 millions) qui avait financé 66 partenariats comptabilisant 210 établissements d'enseignement supérieur et couvrant 51 pays ACP. Les projets de la nouvelle phase que nous présentons dans cette brochure et qui ont été sélectionnés via un appel à propositions permettront quant à eux de soutenir 47 nouveaux partenariats, dénombrant 151 établissements d'enseignement supérieur et couvrant 43 pays ACPs.

En parallèle, le programme ACP Science et Technologie II, également doté d'une enveloppe de EUR 20,8 millions, contribuera de son côté au renforcement des capacités des pays ACP à promouvoir la recherche et l'innovation. Le programme encourage la création de synergies entre les secteurs gouvernemental, académique

et privé. La première phase du programme (EUR 35 millions) a déjà financé 36 projets regroupant plus de 200 entités d'un grand nombre de pays ACP. A la suite de l'appel à propositions lancé lors de la deuxième phase, 21 nouveaux partenariats visant au renforcement des capacités, en particulier dans les domaines de l'agriculture et de l'énergie, seront soutenus. L'intégralité de ces partenariats fait également l'objet d'une présentation détaillée dans la brochure.

En appui à ces initiatives, un soutien direct est apporté à la recherche appliquée grâce au programme ACP Recherche pour le Développement durable dans les secteurs de l'agriculture, de l'eau et de l'assainissement, de l'énergie et du changement climatique, avec une contribution totale de EUR 20 millions. Le programme combine une composante Afrique gérée par la Commission de l'Union Africaine, et une composante Caraïbes et Pacifique, gérée par le Secrétariat ACP. Le programme finance au total 30 partenariats couvrant toutes les régions ACP, dont 10 sous la composante Caraïbes et Pacifique, présentée dans cette publication.

Avec ces 3 programmes, ce sont 200 partenariats qui se trouvent financés et qui ensemble permettront de mettre en valeur l'accès aux connaissances, renforceront les capacités et susciteront l'innovation, contribuant ainsi à une plus grande résilience et à la croissance économique des pays ACP. La Commission européenne, en accord avec le Secrétariat ACP, est résolument engagée pour le renforcement et le soutien de ces initiatives afin de garantir leur succès dans leur contribution à la lutte contre la pauvreté.

Mr Denis Salord

Chef d'Unité, DG Développement et Coopération, Commission Européenne

Introduction

This brochure has been prepared in the occasion of the joint stakeholders' conference of three ACP-EU co-operation programmes financed under the 10th European Development Fund (EDF): EDULINK II, the ACP-Science & Technology Programme (S&T II) and the ACP Caribbean & Pacific Research Programme for Sustainable Development. The brochure includes a synopsis of all projects financed under these programmes.

The three programmes share the overarching goal of integrating the ACP States in the world economy by means of investments in higher education, science, research and technology. They try to achieve this objective through the creation or

consolidation of partnerships where the participation of different organisations from ACP and EU states leads to the transfer of know-how and to capacity building in favour of the participating ACP institutions.

The beneficiaries of the EDULINK programme are Higher Education Institutions (HEIs) or associations of HEIs. The beneficiaries of the other two programmes are also HEIs, as well as public, private and civil society organizations from the ACP and EU countries.

Cette brochure a été conçue dans le cadre de la conférence des parties prenantes des trois programmes de coopération ACP-UE, financés au titre du 10ème Fonds européen de développement (FED) : EDULINK II, le Programme ACP- Science et Technologie (S & T II) le Programme de recherche Caraïbes et Pacifique pour le développement durable. La brochure contient un résumé de tous les projets financés au titre de ces programmes.

Les trois programmes ont pour but essentiel l'intégration des pays ACP dans l'économie mondiale par le biais d'investissements dans l'enseignement supérieur, la science et la recherche. Ils

tendent d'atteindre cet objectif par la création ou la consolidation de partenariats où la contribution de différentes organisations des États ACP et de l'UE conduit au transfert de savoir-faire et au renforcement des capacités à la faveur des institutions ACP participantes.

Les bénéficiaires du programme EDULINK sont des établissements d'enseignement supérieur (EES) ou des associations d'EES. Les bénéficiaires des deux autres programmes cités sont également des EES mais également des organisations publiques, universitaires et de recherche, privées et de la société civile, des pays ACP et de l'UE.

EDULINK II

The overall objective of the EDULINK programme is to foster capacity building and regional integration in higher education through institutional networking.

The programme started in 2006 with the launch of three calls for proposals financed under the 9th EDF, with an aggregate budget of € 30 million. The three calls financed 66 grant projects which involved 210 higher education institutions from ACP and EU states. These projects produced a wide range of academic outcomes, from short- to long-term degrees, several hundred publications, and training to thousands of students and teaching staff of the participating ACP institutions.

The new phase of EDULINK is designed to expand and enhance these achievements by pursuing improvements in the effectiveness, management, and visibility of ACP HEIs and ensuring their competitiveness in the global environment. In this

L'objectif global du programme EDULINK est de favoriser le renforcement des capacités et l'intégration régionale en matière d'enseignement supérieur à travers le développement de réseaux institutionnels.

Démarré en 2006, le programme a lancé trois appels à propositions financés par le 9ème FED pour un budget global de 30 M€. 66 projets de subvention ont ainsi été financés impliquant la participation de 210 établissements d'enseignement supérieur des États ACP et de l'UE. Ces projets ont produit un large éventail de diplômes universitaires, de la spécialisation au doctorat, plusieurs centaines de publications, et permis la formation de milliers d'étudiants et de personnels enseignants des institutions ACP participantes.

La nouvelle phase d'EDULINK (II) vise à élargir et consolider ces acquis en ciblant l'amélioration de l'efficacité, de la gestion, et de la visibilité des établissements d'enseignement supérieur des pays ACP et assurer leur compétitivité dans l'environnement mondial. Dans cette phase, le

programme se concentre sur deux domaines thématiques prioritaires, «Accès à l'énergie et efficacité énergétique» et «Agriculture et sécurité alimentaire», qui ont été identifiés dans le cadre de la politique d'aide au développement entre l'Union européenne et le Groupe des États ACP.

The new phase of EDULINK started with the launch of a new call for proposals in 2012. The call resulted in 47 grant projects, for a total financing of € 22.5 million sourced from both the 10th EDF and the EU Budget (co-operation with South Africa).

The 47 new projects (presented in this brochure) will address the two target sectors as follows: Agriculture and food security: 28 projects; Energy access and efficiency: 16 projects; both themes: 3 projects. The projects represent the participation of 101 higher education institutions from 43 ACP states, as well as 50 higher education institutions from 13 EU countries.

programme se concentre sur deux domaines thématiques prioritaires, «Accès à l'énergie et efficacité énergétique» et «Agriculture et sécurité alimentaire», qui ont été identifiés dans le cadre de la politique d'aide au développement entre l'Union européenne et le Groupe des États ACP.

EDULINK II a commencé avec le lancement en 2012 d'un nouvel appel à propositions. L'appel a donné lieu à 47 projets de subvention, pour un financement total de 22,5 millions € provenant à la fois du 10ème FED et du budget de l'UE (coopération avec l'Afrique du Sud).

Les 47 nouveaux projets (présentés dans cette brochure) s'axeront sur les deux secteurs ciblés, avec comme suit : agriculture et sécurité alimentaire : 28 projets ; accès et efficacité énergétique : 16 projets ; les deux thèmes : 3 projets. Les projets voient la participation de 101 établissements d'enseignement supérieur de 43 pays ACP, ainsi que 50 institutions d'enseignement supérieur de 13 pays de l'UE.

E.1

AgIM – Agricultural Information Management and Precision Farming

Lead Partner: Universidade Nova de Lisboa
Partner 1: Universidade de Cabo Verde
Partner 2: Universidade Católica de Moçambique

Contract Number: FED/2013/320-079
EC Grant: EUR 493,039.32

Sector: Agriculture and food security
Location of the action: Cabo Verde, Moçambique

Duration (months): 42
Start Date: 30 September 2013

Project Summary

The project will support the development and implementation of a master curriculum in Agricultural Information Management and Precision Farming (AgIM) in Cape Verde and Moçambique. The project will design, develop and evaluate the Master Curriculum and establish a common framework for quality assurance. It is foreseen to secure the accreditation of the AgIM Master Program by each of the competent authorities and deliver two editions of the AgIM Master Programme in Moçambique and Cape-Verde. In addition one precision farming pilot demonstration project will be established in each partner country. A repository of practice and groundwork will be developed along with dissemination and exploitation activities.

Contact Person: Marco Painho
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E.2

L³EAP - LifeLong Learning for Energy security, access and efficiency in African and Pacific SIDS

Lead Partner: Hamburg University of Applied Sciences

Partner 1: University of Mauritius

Partner 2: Papua New Guinea University of Technology (UNITECH)

Partner 3: University of the South Pacific

Contract Number: FED/2013/320-080

EC Grant: EUR 495,783.00

Sector: Energy Access and Efficiency

Location of the action: Fiji, Mauritius, Papua New Guinea

Duration (months): 36

Start Date: 11 October 2013

Project Summary

The project aims to strengthen the capacity of the partner HEIs in order to provide high level skills and training required for the energy labour market. The project proposes to conduct a Baseline Study on the Life Long Learning needs of the energy sector in the partner countries. Based on the needs assessment, four Life Long Learning course programmes will be developed (1 per partner HEI), 1 transnational teaching module will be developed, implemented and evaluated and capacity building seminars to the staff of the participant HEI will be offered. The project will aim to increase the academic and management capacity of university staff to modernise their educational and research programmes and activities, so as to develop labour market oriented lifelong learning concepts for the education of public and private sector staff in meeting the challenges of regional and national energy security and efficiency of supply.

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E.3

Enhancing Capacities on International Agriculture Agreements for Development of Regional Agriculture and Food Markets

Lead Partner: University of Education, College of Agriculture, Winneba

Partner 1: University of Liberia

Partner 2: Federal University of Agriculture

Partner 3: Njala Agriculture University

Contract Number: FED/2013/320-081

EC Grant: EUR 486,722.35

Sector: Agriculture and food security

Location of the action: Ghana, Liberia, Nigeria, Sierra Leone

Duration (months): 36

Start Date: 09 October 2013

Project Summary

The project aims to strengthen the partner institutions within the field of international trade agreements, enabling them to enhance the institutional capacities of governments and other relevant bodies on trade related agriculture agreements, negotiations and agricultural policy implementation in support of regional agriculture and food markets. To achieve this, needs assessment study would be conducted amongst the partners and national institutions on existing trade policy and negotiation capabilities. This would involve exchanges amongst Partners and the mobility of postgraduate students and teaching staff during the needs assessment study and the sharing of best practises. Study recommendations will be used as inputs towards the development and implementation of new post-graduate curriculum and training courses, including joint curriculum and tutorials to increase the institutional capacities of the partners to deliver training on agriculture trade agreements to governments, private sector, farmers, civil society and other regional stakeholders.

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E.4

Food Security: from University to Territory

Lead Partner: Universidad Central del Este

Partner 1: Politecnico di Milano

Partner 2: Centro Nacional de Salud Agropecuaria (CENSA)

Contract Number: FED/2013/335-684

EC Grant: EUR 336,398.25

Sector: Agriculture and food security

Location: Cuba, Dominican Republic, Haiti, Italy

Duration (months): 36

Start Date: 07 February 2014

Project Summary

The overall objective of the project is to contribute to food security in marginalised areas of the Caribbean, through networking the participating universities and local civil society organisations. Management systems and university capacities for learning and practice concerning food security will be improved via the strengthening of the Agronomy Faculty and laboratory at UCE and through the development and implementation of a curriculum in agronomy with a concentration in food security. The target is to train 50 teachers and 60 professionals (in The Dominican Republic and Haiti) to deliver teaching as well as extension to marginalised communities. The project will target communities (via Local Economic Development Agencies) in six (6) regions with high levels of poverty in The Dominican Republic and Haiti, focusing studies and research on local products with beneficial nutritional qualities and improved local/regional product value chains.

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E.5

Strengthening Human Resource Capacity to Foster Agricultural and Rural Innovation in Eastern Africa

Lead Institution: Makerere University
Partner 1: Egerton University
Partner 2: Sokoine University of Agriculture
Partner 3: RUFORUM-Regional Universities Forum for Capacity Building in Agriculture
Partner 4: Wageningen University
Partner 5: AGREENIUM
Partner 6: University of Copenhagen

Contract Number: FED/2013/320-091
EC Grant: EUR 488,165.97

Sector: Agriculture and food security
Location: Kenya, Tanzania, Uganda, Denmark, the Netherlands, France

Duration (months): 36
Start Date: 17 September 2013

Project Summary

The specific objectives are to: 1. Facilitate mobility of students and staff for capacity strengthening of the partner institutions and mutual learning. 2. Reduce the cost of mobility through online delivery of some modules and enable a wider access to the PhD programme Agricultural and Rural Innovation (ARI) which was developed via a previous EDULINK project. 3. Establish national stakeholder platforms to guide training and research in agricultural and rural innovation. 4. Link ARI and the PhD programme Agricultural Transformation by Innovation (Agtrain) for mutual learning and experimentation between students and staff from East Africa and Europe. The points of linkage have been identified to be via a joint field-based module for the two programmes.

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E.6

EU-ACP Networking for Excellence on Agriculture and Food Security

Lead Partner: University of Witwatersrand

Partner 1: CESTAS - Centro di Educazione Sanitaria e Tecnologie
Appropriate Sanitarie

Partner 2: EuroMediterranean University (EMUNI)

Partner 3: University of Namibia

Partner 4: Lilongwe University of Agriculture and Natural Resources (LUANAR)
Bunda College of Agriculture

Contract Number: DCI-AFS/2013/320-328

EC Grant: EUR 492,483.00

Sector: Agriculture and food security

Location: Malawi, Namibia, South Africa

Duration (months): 30

Start Date: 01 November 2013

Project Summary

The project aims to design and implement a joint training programme in order to foster cost effective measures, including greater inter-institutional networking to provide quality universal university education and learning in the three participating Southern Africa states taking gender perspectives specifically into account. The project will develop programmes to promote the exchange of experiences and know-how in the field of education making available satisfactory ICT and research tools for professional development, training and learning. University curricula will be reviewed according to the needs of ACP States for economic and social development and in order to improve the quality of courses and teaching offered by the three African Universities. Specific attention will be given to improve access to quality information and labour market opportunities for women focusing on agriculture and food security interventions and policies.

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E.7

PASUFONS - Partnerships to strengthen university food and nutrition sciences training and research in Eastern and Southern Africa

Lead Partner: Makerere University
Partner 1: Stellenbosch University
Partner 2: Jomo Kenyatta University of Agriculture and Technology

Contract Number: DCI-AFS/2013/331-203

EC Grant: EUR 496,207.30

Sector: Agriculture and food security

Location: Kenya, South Africa, Uganda

Duration (months): 42

Start Date: 21 November 2013

Project Summary

The project aims to improve the capacity of the participating HEIs in Eastern and Southern Africa to provide practical training and research solutions in food and nutrition sciences. The project will set up a Project management and co-ordination structure and establish academic programs that will be reviewed and tailored to produce highly skilled food and nutrition science graduates. Training programs will be improved through the development of course materials and retooling of technicians and academic staff through short term training. An institutional framework for identifying and responding to stakeholders' research and training needs will be established in order to improve training and research capacity in food and nutrition sciences at the participating universities. The project will procure and install virtual teaching and learning facilities and establish an e-portal to facilitate collaborative training and research activities for HEIs in Eastern and Southern Africa.

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E.8

Strengthening University capacity to enhance competitiveness of Agribusiness in East and West Africa

Lead Partner: Egerton University
Partner 1: Mekelle University
Partner 2: Gulu University
Partner 3: University of Port Harcourt
Partner 4: University of Copenhagen

Contract Number: FED/2013/320-100
EC Grant: EUR 496,367.72

Sector: Agriculture and food security
Location: Kenya, Ethiopia, Nigeria, Uganda, Denmark

Duration (months): 42
Start Date: 05 October 2013

Project Summary

The project aims to improve the relevance of agricultural science teaching and outreach to the needs of agribusiness and to enhance the collaboration between universities and the private sector. Following a needs assessment, trainings will be given to strengthen the competences of the participating faculty in terms of Agri-entrepreneurship training and improved teaching methodologies. It is intended to effectively deliver the new curricula to a first group of about 30 graduate agricultural science students by the third year of the project. The project will review and adapt existing agricultural sciences curricula to include the new agri-entrepreneurship modules and pool learning resources.

Enhanced collaboration between the universities and the private sector will involve the joint review of curricula by universities and industry stakeholders. Student work placements will be organised and agro-innovation clusters jointly developed with the participation of industry, students and the universities.

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E.9

The Learning Network for Sustainable Energy Systems

Lead Partner: Politecnico di Milano

Partner 1: Brunel University

Partner 2: Delft University of Technology

Partner 3: Cape Peninsula University of Technology

Partner 4: Makerere University

Partner 5: University of Botswana

Partner 6: University of Nairobi

Contract Number: DCI-AFS/2013/320-298

EC Grant: EUR 487,866.41

Sector: Energy access and efficiency

Location: Botswana, Kenya, South Africa, Uganda

Duration (months): 36

Start Date: 10 October 2013

Project Summary

LeNSes is an action of human resources and curriculum development, aiming at the promotion of a new generation of designers (and design educators) capable to effectively contribute to the transition towards a sustainable energy for all society. LeNSes ambitions to promote a new shared and articulated disciplinary ground on Sustainable Energy System Design and Engineering (SES.DE) focused on Sustainable Product-Service System (S.PSS) and Distributed Renewable Energy (DRE) models, through a series of exchange activities and pilot courses at the partner institutions. LeNSes will produce an open learning e-package, a modular package of teaching materials (texts, slide shows, audio, video, etc.) and tools for designers that design educators worldwide will be able to download (free of charge), modify/remix and reuse (copy left). LeNSes will also promote a series of diffusion activities targeting the design community worldwide.

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E.10 PREPARE-BSc - Enhancing the quality of graduates of agriculture to meet tomorrow's food security challenge

Lead Partner: University of Nairobi
Partner 1: Sokoine University of Agriculture
Partner 2: Makerere University
Partner 3: University of Copenhagen

Contract Number: FED/2013/320-109
EC Grant: EUR 493,988.65

Sector: Agriculture and food security
Location: Kenya, Tanzania, Uganda, Denmark

Duration (months): 36
Start Date: 15 October 2013

Project Summary

The project will aim to develop competent high level human resources within agriculture, veterinary science and related fields to address food security as part of the socio-economic development needs of the societies in Eastern Africa. The immediate objective is to have by 2016, six (6) undergraduate programmes in the East African region improved to enhance graduate suitability for the job market. PREPARE-BSc aims to address at the undergraduate level, the quality of the human resource base within agriculture. Some of the key expected outputs are: I) Improved attitudes towards careers in agriculture among young people; II) Better match between labour market demands and graduates competences; III) Enhanced employer-university linkages; IV) More inspiring learning environments; V) Higher academic standards of BSc education; VI) Improved governance and administrative structures.

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E.11

Réseau des Universités Sahéliennes pour la Sécurité Alimentaire et la Durabilité Environnementale

Partenaire principal: Università degli Studi di Torino

Partenaire 1: Université Abdou Mpoumouni de Niamey (CRESA)

Partenaire 2: Université Polytechnique de Bobo-Dioulasso

Partenaire 3: Institut Universitaire des Sciences et Techniques d'Abéché (I.U.S.T.A.)

Numéro du Contrat: FED/2013/320-115

Subvention CE : 496,400.00

Secteur : Agriculture et sécurité alimentaire

Lieu: Burkina Faso, Tchad, Niger

Durée (mois): 36

Date de démarrage: 11 Octobre 2013

Résumé du Projet

1) Actualiser l'offre de formation des institutions Partenaires par l'adoption de nouveaux programmes universitaires pertinents et fédérateurs en matière d'étude sur les thématiques de l'agriculture, de la sécurité alimentaire et de la protection de l'environnement (activation d'un cours de Master). 2) Créer un réseau entre les Établissements d'Enseignement Supérieur (EES) partenaires pour l'échange et le renforcement des compétences. 3) Encourager les EES à devenir des pôles d'attraction régionaux et/ou internationaux. Le Projet se propose d'aboutir aux résultats suivants : Renforcement de la mise en réseau interinstitutionnelle ; Mise à jour des qualifications du personnel académique ; Amélioration des cadres institutionnels pour garantir l'excellence académique dans les EES partenaires ; Renforcement de la mobilité des étudiants du troisième cycle et du personnel enseignant grâce à l'offre de programmes conjoints ; Organisation de programmes d'études développant les compétences de haut niveau requises par les marchés du travail nationaux et locaux.

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E.12

Deploying Interactive On-line Networking Platform for Improving Quality and Relevance of African University Graduates to Labour Markets

Lead Partner: Egerton University - Faculty of Agriculture

Partner 1: Jomo Kenyatta University of Agriculture and Technology

Partner 2: Makerere University

Partner 3: RUFORUM - Regional Universities Forum for Capacity Building in Agriculture

Partner 4: AGRINATURA - Network of European Agricultural Universities

Contract Number: FED/2013/335-687

EC Grant: EUR 497,873.85

Sector: Agriculture and food security

Location: Kenya, Uganda, Europe

Duration (months): 42

Start Date: 08 February 2014

Project Summary

This action broadly aims at strengthening the capacities in three universities in Kenya and Uganda towards reforming graduate curricula, graduate training and education with greater participation of the agricultural labour markets and a large pool of global expertise. Currently graduates and their lecturers have limited interaction with the labour market due to a lack of effective administration and academic frameworks to open opportunities for graduates to learn practical lessons relevant to the needs of the labour market. This action targets closing this gap by deploying innovative interactive online technology networking platform to promote the institutional networking of universities and a global pool of professionals and the labour market. The platforms will enable the participating universities to efficiently and effectively supervise, mentor, track and network their graduates, graduate alumni and faculty staff within a community of researchers, academics, practicing professionals and the agricultural labour market.

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E.13

EGALE – Gathering Universities for Quality in Education

Lead Partner: Università degli Studi di Torino

Partner 1: Ecole Normale Supérieure d'Antananarivo (ENS)

Partner 2: Ecole Supérieure des Sciences Agronomiques (ESSA) –
Université d'Antananarivo

Partner 3: Gestion de Ressources Naturelles & Environnement (GRENE) –
Université de Toamasina

Partner 4: Faculté de Sciences et Techniques, Université des Comores

Contract Number: FED/2013/320-117

EC Grant: EUR 498,111.09

Sector: Agriculture and food security

Location: Comores, Madagascar

Duration (months): 42

Start Date: 11 October 2013

Project Summary

The project will support partner HEIs in the development of an International Consortium and new third level curricula (PhD) complying with international standards and capitalising on local expertise, including the spread of innovative and powerful teaching technologies such as distance learning. Relevant staff of the participating HEIs will be targeted to increase their qualifications. The project will strengthen the role of R&E in society and the facilitation of inserting students into the labour market by building up connections among research, education and local/international stakeholders. Partners and associates will provide complementary expertise on food security: agronomy and farm management in temperate tropical and sub-tropical areas (ESSA and Turin University), environmental sustainability of agriculture and food production processes and climate change adaptation (GRENE and Turin University), distance learning technologies and teachers' training (ENS), internationalisation, Bologna Process and education quality standard assessment (CRUI).

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E.14

PROCEEDCARIBBEAN - Promotion of Capacity and Energy Education Development in the Caribbean Region

Lead Partner: University of Turku - Finland Futures Research Centre

Partner 1: University of Technology (UTech)

Partner 2: The University of the West Indies

Partner 3: Universidad de Oriente

Partner 4: Tampere University of Technology

Contract Number: DCI-AFS/2013/320-121

EC Grant: EUR 499,000

Sector: Energy access and efficiency

Location of the action: Barbados, Cuba, Jamaica

Duration (months): 42

Start Date: 01 October 2013

Project Summary

The project will aim to enhance the capacity of partner HEIs to be more responsive to labour market needs and increase the capability of partner HEIs to contribute to the respective national plans and regional co-operation in energy efficiency, access and sustainability. The project will employ a "training of trainers" approach, targeting academic staff, PhD Students and administrative staff in management and finance in order to facilitate increased capacities in curricula development particularly for the BSc and MSc programmes offered by the partner HEIs.

Trainings will focus on i) energy efficiency (modelling, renewable energy technical efficiency, system level efficiency) and ii) energy access (pricing in the Caribbean context and governance issues).

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E.15

ValueSeC – Value Chain Development for Food Security in the Context of Climate Change- A contribution through strengthening capacity in higher education in Eastern Africa

Lead Partner: Humboldt Universität zu Berlin (HUB)

Partner 1: University of Nairobi

Partner 2: Haramaya University

Partner 3: Moi University

Contract Number: FED/2013/320-125

EC Grant: EUR 499,715.13

Sector: Agriculture and food security

Location: Ethiopia, Kenya, Germany

Duration (months): 36

Start Date: 01 November 2013

Project Summary

The proposed action will introduce inter-disciplinary teaching methods as well as problem-oriented, participatory research into the curricula of University Master programs. It aims to improve necessary expertise to secure sustainability and enhance adaptation to / mitigation of climate change effects in food value chains.

Academic staff and students at partner HEIs will acquire problem-solving skills; the curriculum will be jointly revised and training materials will be developed to ensure integration of this topic into existing study programs.

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E.16

JENGA–Joint development of courses for energy efficient and sustainable housing in Africa

Lead Partner: University of Applied Sciences Augsburg

Partner 1: Jomo Kenyatta University of Agriculture and Technology

Partner 2: Uganda Martyrs University

Partner 3: University of Rwanda, College of Science and Technology (formerly KIST)

Partner 4: Stellenbosch University

Contract Number: DCI-AFS/2013/320-299

EC Grant: EUR 440,407.60

Sector: Energy access and efficiency

Location: Kenya, Uganda, Rwanda, South Africa, Germany

Duration (months): 36

Start Date: 22 October 2013

Project Summary

JENGA aims at academic capacity building and knowledge transfer for energy efficiency and low-carbon technologies in the field of sustainable housing, addressing the fact that the building sector accounts for 40 % of global energy consumption and 30 % of greenhouse gas emissions. By introducing the method of problem-based learning through the implementation of 3 major, practice oriented design-build courses in Kenya, Uganda and Rwanda into existing curricula of architecture, links will be established between content and method of teaching and also between the participating institutions themselves. This will culminate in the creation of a regional network of excellence for thinking, teaching, researching and producing energy-efficient housing. Co-operation will strengthen teaching and knowledge management competencies including student centred problem-based learning. Low cost, low-carbon, energy-efficient and sustainable construction technologies, as well as the skills and methods to teach them, will help to meet the energy demand.

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E.17

FSTinAC - Strengthening Capacity for Food Science and Technology Teaching, Learning and Research to Add Value to Indigenous Foods for Food Security in Africa and the Caribbean

Lead Partner: University of Botswana - Centre for Scientific Research, Indigenous Knowledge and Innovation

Partner 1: The University of the West Indies

Partner 2: University of Maribor

Partner 3: University of Ghana

Contract Number: FED/2013/320-133

EC Grant: EUR 495,296.00

Sector: Agriculture and food security

Location: Botswana, Ghana, Slovenia, Trinidad and Tobago

Duration (months): 36

Start Date: 08 October 2013

Project Summary

FSTinAC will support the strengthening of research and teaching on the sustainable use, post-harvest technology and value addition of indigenous under-utilised crops and species, important for the livelihoods of local populations in the Southern African, West African and Caribbean regions. These species have the potential for wider use and could significantly contribute to food security, agricultural diversification and income generation. In this respect, FSTinAC is relevant to the sub-themes of the call dealing with value chain efficiency, regional food markets and nutrition issues. It will involve south-south collaboration between higher education institutions in Botswana, Ghana and Trinidad and Tobago and north-south cooperation with the University of Maribor, which has recognised expertise in the added value – health benefits of foods. Furthermore, by building the capacity of the next generation of researchers as well as small and medium enterprises, which are primarily women-owned, the project aims at sustainably improving food security and diversifying rural livelihoods of resource poor communities.

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E.18

SASEI - Southern African Sustainable Energy Initiative

Lead Partner: Polytechnic of Namibia
Partner 1: National University of Lesotho
Partner 2: University of Botswana
Partner 3: Hochschule Darmstadt - University of Applied Sciences

Contract Number: FED/2013/320-140
EC Grant: EUR 437,767.17

Sector: Energy access and efficiency
Location: Botswana, Lesotho, Namibia, Germany

Duration (months): 42
Start Date: 03 October 2013

Project Summary

The project will enable collaborative research, curriculum development, training and capacity building in sustainable energy. The long term aim is to enhance capacity for national and regional planning, development and implementation of sustainable energy systems and projects. The project will formulate the establishment of a regional sustainable energy initiative to improve the ability of the region to effectively co-ordinate and manage sustainable energy sources through developing appropriate technology implementation measures. A framework for a possible joint postgraduate programme on sustainable energy studies will be established including the development of joint curricula for graduate studies and review the undergraduate programmes to enhance them with energy efficiency and renewable energy. The project will develop capacity amongst key researchers and trainers, exchange staff as part of the train the trainer programmes and eventually market the academic and research programmes to attract potential researchers and students and for general support. Further the project aims to develop country databases for the collection of country energy statistics based on real figures, so that each of the participating countries, and the SADC region, can be able to start reporting energy access indices annually.

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E.19

HEI's cooperation contributing to rural development in Mozambique

Lead Partner: Instituto Superior de Educação e Tecnologia (ISET) /
One World University

Partner 1: Stellenbosch University

Partner 2: Technical University of Lisboa - Instituto Superior de Agronomia

Contract Number: DCI-AFS/2013/320-332

EC Grant: EUR 404,776.03

Sector: both sectors

Location: Mozambique, South Africa

Duration (months): 36

Start Date: 01 November 2013

Project Summary

The action will strengthen the capacity of ISET/OWU at the academic level and in the community based practical actions by developing and enhancing the relevance of the existing course in Community Development. The goal is to improve production and livelihoods in rural communities through developing thematic units, teaching material and through training teachers in concrete delivering research based cutting edge and long tested approaches and techniques on small-scale Renewable Energy Systems and agriculture (to improve production and livelihoods in rural communities). The project will aim to extend and institutionalise the impact of ISET/OWU by establishing a virtual and physical Knowledge Resource Centre as well as increasing the collaboration between the partner HEIs on use of evidence based solutions for sustainable development in improving the training of community developers.

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E.20

PEESA - Programme on Energy Efficiency in Southern Africa

Lead Partner: Hochschule Wismar - University of Applied Sciences;
Technology, Business and Design

Partner 1: Ernst Abbe Fachhochschule Jena

Partner 2: Fachhochschule Flensburg

Partner 3: Cape Peninsula University of Technology

Partner 4: Polytechnic of Namibia

Partner 5: Tshwane University of Technology

Partner 6: Vaal University of Technology

Contract Number: DCI-AFS/2013/320-301

EC Grant: EUR 468,648.97

Sector: Energy access and efficiency

Location: Namibia, South Africa, Germany

Duration (months): 36

Start Date: 02 October 2013

Project Summary

The project intends to develop by October, 2014 a methodology for engineering curriculum design in order to structure programmes and graduates' competences, based on the alignment of EU quality standards taking into account the national educational requirements. By May 2015 the master engineering programme at the partner universities should have been developed and adapted and by September 2015 be ready for implementation. In order to assure the preparation of future teachers the project will develop and implement a "train the trainer" online programme at master/PhD level.

In addition the project will aim to update and implement a quality assurance system within the partner institutions aligned to EU quality standards. As a result a new master programme on Energy Efficiency will be implemented in the four African Universities along with a guideline on engineering programme design and Curriculum and syllabus development.

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E.21

Enhancing nutrition and food security through improved capacity of agricultural higher education institutions in East and Southern Africa

Lead Partner: Kenyatta University
Partner 1: Università Politecnica delle Marche
Partner 2: Leibniz Universität Hannover
Partner 3: Chinhoyi University of Technology
Partner 4: South Eastern University College, University of Nairobi

Contract Number: FED/2013/320-148

EC Grant: EUR 488,984.28

Sector: Agriculture and food security

Location: Kenya, Uganda, Zimbabwe, Germany, Italy

Duration (months): 36

Start Date: 28 September 2013

Project Summary

The project aims to upgrade the capacity of local academic staff in the African institutions through upgrading skills in curriculum development and teaching methods. The project will develop new and revised curricula and strengthen the inter-institutional network between the partner HEIs. Key themes for an effective and relevant training in horticulture and associated disciplines for food and nutrition security will be identified; revamped and a new regionally harmonized horticulture curriculum developed. It is expected that better trained graduates in the agricultural sector will improve the performance of both state institutions and private organisations within the sector.

In support of the skills and curricula development, the project intends to enhance the administrative and management capacity of units supporting agriculture training, especially within the areas of managing donor grants and international programmes.

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E.22

FSBA Food Security and Biotechnology in Africa

Lead Partner: University of Groningen
Partner 1: University of Eldoret
Partner 2: University of Nigeria
Partner 3: Université de Ougadougou

Contract Number: FED/2013/320-152
EC Grant: EUR 498,103.03

Sector: Agriculture and food security
Location: Burkina Faso, Kenya, Nigeria, the Netherlands

Duration (months): 36
Start Date: 08 October 2013

Project Summary

The project will strengthen the education and outreach capacities of the African partners in creating the necessary conditions for a sustainable application of biotechnology in food production in Kenya, Nigeria and Burkina Faso. The project aims to achieve this by the joint elaboration of Master level courses and outreach events and materials. The expertise of the African partners' academic staff will be upgraded in the application of biotechnology in food production with the aim of creating the capacity to deliver 120 hours of up-to-date, pre-tested Master's level courses in this field as well as an enhanced public outreach capacity. Faculty and support staff will also be trained in project management and financial administration. Partner departments will also be upgraded with new equipment.

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E.23

DairyChain - Strengthening Capacity of Higher Education Institutions in Eastern and Western Africa to Enhance Efficiency in the Dairy Value Chain

Lead Partner: Egerton University
Partner 1: Obafemi Awolowo University
Partner 2: University of Education, Winneba

Contract Number: FED/2013/320-157
EC Grant: EUR 499,940.70

Sector: Agriculture and food security
Location: Ghana, Kenya, Nigeria

Duration (months): 36
Start Date: 05 October 2013

Project Summary

This project is based on the need for new knowledge and methods of doing business in a young and emerging dairy sector in Ghana, Kenya and Nigeria. Agricultural higher education institutions (HEI) will need to continuously strengthen their capacity to meet the new demands of this knowledge-led and market oriented transformation to boost dairy and value added production.

The project is designed to reinforce and intensify exchange and collaboration between HEI in Kenya, Nigeria, Ghana and Europe with an urgent need to upgrade the institutions, human resources and curricula to produce young professionals equipped with the relevant skills, including the introduction of inter-disciplinary teaching and problem-solving skills. Curricula for dairy production with a poverty-reduction focus will be developed jointly focusing on the relevance to the needs of the dairy sector and labour market, ensured through an integrated evaluation and quality management system. Special emphasis will be placed on developing HEI-labour market linkages as the nucleus of curriculum improvement regarding quality and relevance.

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E.24

CarEnTrain - Mainstreaming Energy Efficiency and Climate Change in Built Environment Training and Research in the Caribbean

Lead Partner: The University of the West Indies

Partner 1: University of Guyana

Partner 2: Anton de Kom University

Partner 3: University of Antwerp

Partner 4: University of Technology (UTech)

Contract Number: FED/2013/320-159

EC Grant: EUR 486,151.99

Sector: Energy access and efficiency

Location: Guyana, Jamaica, Suriname, Trinidad and Tobago, Belgium

Duration (months): 42

Start Date: 02 October 2013

Project Summary

The Project proposes to mainstream energy efficiency into existing curricula and Continuous Professional Development courses in Urban and Transportation Planning and Engineering and Architecture programmes of Caribbean Higher Education Institutes. The Action is planned as a three-year programme. Technical working and focus groups will be established and the curricula review will begin in the first year. In the second year, there will be cross-fertilisation between programmes across the Caribbean region and well as the initiation of the inclusion of regional mainstreaming modules on energy efficiency into existing courses. In the third and final year, the updated programmes and cross-disciplinary specialisations across programmes will be implemented at each institution, including urban design courses as a cross-cutting subject.

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E.25

Capacity building in applied renewable energy technologies in Guyana and Suriname

Lead Partner: Anton de Kom University
Partner 1: University of Guyana
Partner 2: Katholieke Universiteit Leuven

Contract Number: FED/2013/320-163
EC Grant: EUR 457,640.00

Sector: Energy access and efficiency
Location: Guyana, Suriname, Belgium

Duration (months): 42
Start Date: 08 October 2013

Project Summary

The objective of the project is to deliver improved programs and courses in applied renewable energy with specific emphasis on hydropower, biomass, solar and wind energy. The partners' research infrastructure will be targeted and linked to the educational program in renewable energy, including the capacity to review and recommend relevant policy and legislative structures that would facilitate the use of renewable energy sources by public and private entities. The partners will develop a curriculum for a new joint master program (at AdeKUS and UG) in applied renewable energy technologies. The project expects to deliver a first edition of the master program with students participating from Guyana and Suriname. A further seven professional development and policy related courses will be developed with staff from AdeKUS and UG, trained in order to lecture and undertake research for the courses. The aim is to deliver at least one of these courses during the project.

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E.26

ENERGY-AGRO-FOOD: Energy - Agro-food Synergies in Africa: New Educational Models for Universities

Lead Partner: Università di Bologna - Alma Mater Studiorum

Partner 1: Università di Pavia

Partner 2: Université D'Auvergne - Clermont Ferrand 1

Partner 3: University of Nairobi

Partner 4: Mekelle University

Partner 5: Sokoine University of Agriculture

Partner 6: Addis Ababa Institute of Technology

Contract Number: FED/2013/320-168

EC Grant: EUR 499,501.68

Sector: Both sectors

Location: Ethiopia, Kenya, Tanzania

Duration (months): 30

Start Date: 11 October 2013

Project Summary

The project will introduce specific teaching modules in the fields of Energy and Agro-food consistent with the needs of the regional and local labour market. The aim is to improve the expertise and competences of academic staff according to four main criteria: 1. Integration between the Energy and Agro-food thematic fields; 2. Inter-disciplinarily; 3. Inter-sectoral by improving communication between the academics and the labour market through internship opportunities for students in local businesses and farms; 4. Inter-regional (creation of specific schemes for students' mobility). The project will facilitate short to medium term 'experiences' in the European partner universities for the African staff associated with the project. In the meantime, international quality assurance schemes and standard procedures will be introduced to upgrade postgraduate study programmes.

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E.27

ENERGISE - Enlarged Network in Education and Research for Growing Impact of Sustainable Energy engineering on local development

Lead Partner: Politecnico di Milano

Partner 1: Jimma University

Partner 2: Dar es Salaam Institute of Technology

Partner 3: Kenya Polytechnic University College

Partner 4: Mombasa Polytechnic University College

Contract Number: FED/2013/320-173

EC Grant: EUR 498,119.66

Sector: Energy access and efficiency

Location: Ethiopia, Kenya, Tanzania

Duration (months): 42

Start Date: 11 October 2013

Project Summary

The project ENERGISE aims at promoting innovative and labour driven curricula in Energy Engineering within each partner institution while enforcing their capacity to interact with the local socio-economic framework. The goal is to increase the number, the quality and the skills of specialised energy engineers who can act as employees or entrepreneurs within the complex challenge of sustainable access to energy. They will be able to promote appropriate technologies including long term socio-economic and environmental perspectives. The project will deliver intensive training sessions for faculty members (live and on a dedicated e-collaborative platform) to foster capacity building on new teaching methodology and on Distributed Energy Systems, based on Renewable Energies. The long term vision is a new generation of African innovators in the energy sector. Indeed the project deals first with innovative teaching methodologies for preparing future professionals, which then will be able to promote directly on field, sustainable and innovative solutions for local energy systems.

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E.28

Embedding Entrepreneurship in African Management Education

Lead Partner: Università Cattolica del Sacro Cuore, Milano

Partner 1: University of Makeni

Partner 2: Tangaza College, Catholic University of Eastern Africa

Contract Number: FED/2013/320-176

EC Grant: EUR 499,669.84

Sector: both sectors

Location: Kenya, Sierra Leone

Duration (months): 42

Start Date: 12 October 2013

Project Summary

The project forms a strategic alliance between HEIs in Sierra Leone, Kenya and Italy aimed at the execution of a (3) editions of a Master in Social Entrepreneurship in Makeni University, Makeni Sierra Leone. The academic and administrative staff of Makeni University will be trained and supported in the design and implementation of an economically sustainable entrepreneurial management program by the professors and administrative staff from Università Cattolica del Sacro Cuore, Italy and Tangaza College, Nairobi, Kenya. The program will have a particular focus on training entrepreneurs in the energy and agricultural sectors. The support offered Makeni University will also include the installation of an e-learning platform and the training in the use of said platform.

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E.29

Construction en synergie avec les milieux socioprofessionnels de masters innovants en agronomie durable en réseau dans 3 EES de l'Afrique de l'Ouest

Partenaire principal : Institute National Polytechnique Felix Houphouet-Boigny

Partenaire 1 : Université d'Abomey Calavi

Partenaire 2 : Université Abdou Mpoumouni de Niamey – CRESA

Partenaire 3 : Montpellier SupAgro

Numéro du Contrat : FED/2013/320-181

Subvention CE : EUR 495,395.97

Secteur : Agriculture et sécurité alimentaire

Lieu : Benin, Côte d'Ivoire, Niger, France

Durée (mois) : 42

Date de Démarrage : 05 Octobre 2013

Résumé du projet

L'Action s'appuiera sur l'élaboration d'une stratégie de collaboration et de communication avec les milieux socioprofessionnels afin de permettre une plus grande participation et implication des professionnels à l'élaboration de curricula pertinents.

Cette stratégie sera validée par la mise en place d'un master 1ère année (M1) sur le thème général de la production végétale, et construit sur une base similaire par les trois EES. L'Action vise aussi un plus grand accès des femmes dans les cursus de formation des EES à travers des mesures spécifiques mises en place. Enfin, l'Action contribuera au renforcement des capacités de recherche et à l'amélioration de la coopération dans les trois EES susmentionnés. Elle vise à développer les partenariats pour créer un réseau de compétences complémentaires dans le domaine des sciences agronomiques. De ce point de vue, les mentions des masters à mettre en place seront judicieusement choisies dans un souci de complémentarité qui favorisera la mobilité des étudiants.

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E.30

PESCADO- Pioneering Education for Sustainability of Caribbean Aquaculture Development & Opportunities

Lead Partner: Universidad ISA
Partner 1: University of Sterling
Partner 2: University of Guyana

Contract Number: FED/2013/320-185
EC Grant: EUR 495,462.86

Sector: Agriculture and food security
Location: Dominican Republic, Guyana, the United Kingdom

Duration (months): 42
Start Date: 03 October 2013

Project Summary

The project's purpose is the creation of a Bachelors & Master Degree programme in Commercial Aquaculture in the Caribbean. The project will also aim to establish the foundations for a virtual Institute of Aquaculture & Aquaponics (IAA) in the Caribbean region for fish farmers, producer groups and academia to integrate technical know-how with entrepreneurship.

The project aims to complete the offer of BSc & MSc Degree programmes and curriculum for the two Caribbean Universities (2 degree programmes) aiming for 10 BSc Students in Guyana and Dominican Republic (DR) and 10 MSc students studying in the Dominican Republic.

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E.31

MAINBIOSYS – Mainstreaming the Biofarming System in Ethiopian and Ugandan Higher Education Institutions

Lead Partner: Università degli Studi del Molise (UNIMOL)

Partner 1: Gulu University

Partner 2: Addis Ababa University

Partner 3: Hawassa University

Contract Number: FED/2013/320-189

EC Grant: EUR 475,968.92

Sector: Agriculture and food security

Location: Ethiopia, Uganda

Duration (months): 36

Start Date: 08 October 2013

Project Summary

The project's goal is to facilitate the transfer of knowledge and research methodology throughout the joint development of demonstration actions and the establishment of a research network among ACP HEIs and European Union HEIs to enhance the partners' capacity to train competent and professional experts in sustainable agriculture. The project aims to achieve results with a needs-based approach in strengthening human resource capacity in developing collaborative research, technology transfer and knowledge exchanges on best practices and procedures in the sustainable agriculture sector. This will require increased inter-institutional networking cooperation and collaboration between the participating ACP and EU HEIs and between ACP HEIs and local stakeholders. This will result, in the long run, in increased mobility of postgraduate students and staff, in quality education that is relevant to the needs of labour market and consistent with the socio-economic priorities of the regional ACP Countries.

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E.32

Development of a Regional Master Programme in Pig Production and Food Security in Caribbean Countries

Lead Partner: Universidad de Girona (UdG)

Partner 1: Universität Leipzig

Partner 2: Universidad ISA

Partner 3: Universidad Central Marta Abreu de las Villas

Partner 4: Universidad Nacional Pedro Henrique Urena

Partner 5: Université Chrétienne du Nord d'Haiti

Contract Number: FED/2013/320-193

EC Grant: EUR 499,693.53

Sector: Agriculture and food security

Location: Cuba, Haiti, Dominican Republic, Germany, Spain

Duration (months): 36

Start Date: 04 October 2013

Project Summary

The specific objective of the project is to introduce an interdisciplinary master degree program in pig production in the four Caribbean Universities located in the Dominican Republic, Cuba and Haiti. The programme will include the exchange of staff and students and close co-operation with the national authorities of the participating countries in order to achieve a high quality programme in food security and production. In this sense the project will prepare a new generation of future experts capable of performing all services within different production and food security domains by using the latest advances within the swine industry. The project will focus on the capacity building for ACP academic staff and teachers as well as building the capacity for ACP management, administration, students and outreach to companies.

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E.33

eLEFANS - Capacity Building for E-Learning Network on Food and Nutrition Security with Partner Universities in Eastern Africa and Europe

Lead Partner: University of Ulm
Partner 1: Justus Liebig University Giessen
Partner 2: Makerere University
Partner 3: Jomo Kenyatta University of Agriculture and Technology
Partner 4: Hawassa University
Partner 5: Egerton University
Partner 6: Kenyatta University

Contract Number: FED/2013/320-196
EC Grant: EUR 489,791.00

Sector: Agriculture and food security
Location: Ethiopia, Kenya, Uganda

Duration (months): 42
Start Date: 06 December 2013

Project Summary

The specific objective is to create a network of universities, practitioners, investors and policy-makers to enhance innovative strategies in new teaching methods (e-learning practice) as part of a collective endeavour to support the education process in Food Security and Nutrition (FSN). The project will establish e-learning centres in participating institutions, train staff members and students in relevant ICT for e-learning and develop courses/modules/databases for e-learning in the field of FSN. The project will encourage resource sharing, courses transfer and academic (virtual) mobility at regional and international level.

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E.34

HEEMS Project - Reinforcement of Higher education as a tool to foster efficient use of energy applied to the poverty reduction within the marine sector through capacity building and regional integration

Lead Partner: Universidade de Vigo
Partner 1: Universidade Zambeze
Partner 2: Universidade Eduardo Mondlane
Partner 3: Universidade de Cabo Verde
Partner 4: Instituto de Emprego e Formacao Profissional (IEFP)
Partner 5: Centro Politécnico Sao Tome e Principe

Contract Number: FED/2013/320-201

EC Grant: EUR 411,259.98

Sector: Energy access and efficiency

Location: Cabo Verde, Mozambique, Sao Tome e Principe

Duration (months): 30

Start Date: 16 October 2013

Project Summary

The project approach will be to both increase the capabilities of the HEI and particularly academic staff through the review and elaboration of specific curricula adapted to the real needs of the sector and to incorporate practical modules to the curriculum that may be taught through targeted demonstration projects, developed and tested through this intervention. Networking will be reinforced at regional and international levels both between HEIs and other sectorial associations, private companies and Government.

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E.35

Establishing and Piloting Postgraduate Programmes for Supporting Agricultural Development in Post-conflict countries of Central and Eastern Africa

- Lead Partner:** Makerere University
Partner 1: Université Catholique de Bukavu
Partner 2: Université d'Antananarivo
Partner 3: RUFORUM - Regional Universities Forum for Capacity Building in Agriculture
Partner 4: AGREENIUM
Partner 5: University of Ghent
Partner 6: Montpellier SupAgro
Partner 7: Université de Burundi

Contract Number: FED/2013/320-203

EC Grant: EUR 490,315.77

Sector: Agriculture and food security

Location: Burundi, DR Congo, Madagascar, Uganda, Belgium, France

Duration (months): 42

Start Date: 12 October 2013

Project Summary

The specific objective is to establish post graduate training programs supporting agricultural development in the targeted ACP countries. The action will strengthen the partnership between institutions in north and south, within the partners in the south, will facilitate staff networking including institutional arrangements, and will establish demand driven postgraduate training in three countries emerging from conflicts. Three academic programmes will be developed and piloted in the three targeted countries emerging from conflicts and will also support the upgrading of qualifications of the ACP academic staff. The new postgraduate programme will be aligned to the 3-2-3 License Master Doctoral system, thus contributing to national and regional policies and development plans for co-operation in higher education.

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E.36

ANEER - African Network for Education in Energy Resources

Lead Partner: Universidad de Cordoba
Partner 1: Universidade José Eduardo dos Santos
Partner 2: Instituto Superior Politecnico de Gaza

Contract Number: FED/2013/320-205
EC Grant: EUR 499,372.66

Sector: Energy access and efficiency
Location: Angola, Mozambique, Spain

Duration (months): 42
Start Date: 09 October 2013

Project Summary

Energy efficiency specific modules will be inserted within the academic curriculum of the degrees in Forest Engineering and Agricultural Engineering in order to enlarge the professional orientations ingrained on these degrees. A Common Teaching Virtual Platform will be created in order to promote knowledge transference between institutions and the public and private stakeholders. In order to identify labour market needs and the design of the academic curriculum, an initial research on energy implementation and natural resource use and efficiency will be conducted. Through specific training programmes as well as the common virtual campus, the project aims to increase the technical capacities of both institutions and teachers by introducing new teaching techniques and virtual tools (Internet and Intranet) and state-of-the-art programs.

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E.37

PARTICIPIA - Participatory Integrated Assessment of Energy Systems to promote Energy Access and Efficiency

Lead Partner: Universitat Autònoma de Barcelona

Partner 1: University of Bergen

Partner 2: Stellenbosch University

Partner 3: University of Botswana

Partner 4: Polytechnic of Namibia

Contract Number: DCI-AFS/2013/320-333

EC Grant: EUR 497,499.09

Sector: Energy access and efficiency

Location: Botswana, Namibia, South Africa

Duration (months): 36

Start Date: 02 October 2013

Project Summary

The objective of the project is to jointly design innovative and competitive Master Modules and/or Programs in Participatory Integrated Assessment of Renewable Energy Systems for implementation at Stellenbosch University, the University of Botswana, and the Polytechnic of Namibia, so as to equip their graduates with high-level skills necessary for a comprehensive assessment of energy policies at local, regional and national levels. The project consortium will utilise their available expertise on complex system theory, participatory processes of governance and decision making, integrated assessment, and alternative energy systems to develop innovative teaching material, ensuring the material meets national and international quality assurance standards. In this way, and through the dissemination of related know-how through non-academic channels (through NEPAD and FAO), the action seeks to foster access to alternative energy technologies and their efficient utilization in different socio-economic and geographical contexts in Southern Africa.

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E.38

CAP4INNO - Knowledge transfer capacity building for enhanced energy access & efficiency in the Caribbean

Lead Partner: Universidad de Alicante

Partner 1: Chalmers University of Technology

Partner 2: University of Technology (UTech)

Partner 3: Instituto Tecnológico de Santo Domingo (INTEC)

Partner 4: The University of the West Indies

Contract Number: FED/2013/320-272

EC Grant: EUR 490,813.22

Sector: Energy access and efficiency

Location: Caribbean

Duration (months): 36

Start Date: 09 October 2013

Project Summary

The intervention will aim to modernise the curricula and training offered in the three participating Caribbean HEIs serving 18 Caribbean countries, to build capacities for transfer and exploitation of innovative solutions and modern technologies for enhanced energy access and efficiency. In order to achieve this, the qualifications of HEI academic & management staff will be upgraded with a view to providing high-level skills required for capacity development in the energy sector, and the offer of academic and research programmes will be amplified, including lifelong learning courses offered to professionals. The inter-institutional co-operation among HEIs, enterprises & governments in the Caribbean will be strengthened, as will innovation and knowledge transfer through networking & policy support actions.

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E.39

IP4Growth- Enhancing Intellectual Property Capacities for Agricultural Development

Lead Partner: Universidad de Alicante

Partner 1: Queen Mary and Westfield College - University of London

Partner 2: Université Ouaga 2

Partner 3: Université de Cocody

Partner 4: Université de Thiès

Contract Number: FED/2013/320-273

EC Grant: EUR 453,193.41

Sector: Agriculture and food security

Location: Burkina Faso, Ivory Coast, Senegal, Spain, the United Kingdom

Duration (months): 36

Start Date: 09 October 2013

Project Summary

The action is based on the relevance of Intellectual Property (IP) management for agricultural and socio-economic growth. Within the IP rights system, Geographical Indications constitute very particular IP rights because, as indications and signs linking agricultural and other products with a specific origin and thus singular characteristics and quality, they protect and promote collective interests. Higher Education Institutions constitute a primary link in the knowledge transfer chain and in innovation-driven development. Enhancing their understanding and expertise in the IP field will bring their local communities enduring benefits for development and poverty reduction. The project will be based on 1) Building the capacity of the HEIs and 2) Local actions to facilitate knowledge transfer to farming communities.

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E.40

SUCCEED Network - East African Higher Education Network on Sustainable and Energy Efficient Campus Development

- Lead Partner:** Universidad de Alicante
Partner 1: Université de Burundi
Partner 2: Moi University
Partner 3: National University of Rwanda (NUR)
Partner 4: Mzumbe University
Partner 5: Makerere University

Contract Number: FED/2013/320-274
EC Grant: EUR 495,100.58

Sector: Energy access and efficiency
Location: Burundi, Kenya, Rwanda, Tanzania, Uganda, Spain

Duration (months): 36
Start Date: 09 October 2013

Project Summary

The objective of the project is to promote East African university campuses as “living laboratories” for sustainability energy and efficiency. University campuses and Higher Education Institutions in general have a great potential to become key players to promote sustainability and energy efficiency, starting with their own campuses. Specifically the project is to establish a sustainable campus development platform to foster collaborative learning and action for energy access and efficiency. Top level management staff will be targeted to increase awareness and improve institutional frameworks with regard to campus energy access and efficiency. Increased academic co-operation between the universities via an on-line platform (SUCCEED) on energy efficiency and renewable energy is intended to enhance the capacity of academic staff to modernise their educational programmes and increase the courses on offer in renewable energy.

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E.41

CAPACITY4FOOD – Integrated Soil Fertility Management for Food Security: matching capacities in Anglo-phone West African Nation HEIs with local needs

Lead Partner: Universidad de Alicante
Partner 1: University of Dschang
Partner 2: University of the Gambia
Partner 3: University of Ghana
Partner 4: Federal University of Technology
Partner 5: University of Sierra Leone

Contract Number: FED/2013/320-275
EC Grant: EUR 489,578.44

Sector: Agriculture and food security
Location: Cameroon, Ghana, Nigeria, Sierra Leone, the Gambia, Spain

Duration (months): 36
Start Date: 09 October 2013

Project Summary

The purpose of the project is to enhance regional networking and institutional strengthening in Integrated Soil Fertility Management (ISFM) by setting up a Regional Network of Centres of Excellence within partner universities. CAPACITY4FOOD will mainly target the ISFM topic to increase universities capacities by means of trained staff, updated materials, harmonisation/co-operation on curriculum content, formalised linkages with stakeholders, increased coherence of degree study programmes and international cooperation. The project will facilitate synergies and networking between universities their national context towards the development of strategic expertise aiming at reinforcing socio-economic development. The staff of the Centres of Competence will be trained on topics such as study programmes quality of design, use of ICT tools, project management, fundraising, and other strategic topics. The Network will be a reference for other universities in the countries involved and at regional level.

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E.42

FISHERMAN - Capacity building for sustainable Fisheries Management in southwest Indian Ocean

Lead Partner: Universidad de Alicante

Partner 1: Universidade do Algarve

Partner 2: University of Dar es Salaam

Partner 3: University of Toliara

Partner 4: Universidade Eduardo Mondlane

Partner 5: University of Seychelles

Partner 6: Université des Comores

Contract Number: FED/2013/320-279

EC grant: EUR 491,110.22

Sector: Agriculture and food security

Location: Comoros, Madagascar, Mozambique, Seychelles, Tanzania, Portugal, Spain

Duration (months): 36

Start Date: 09 October 2013

Project Summary

The Specific objective of the project is to develop and implement a master program with a regional dimension aimed at building competences in sustainable fisheries management in Southwest Indian Ocean universities as well as to prepare a new generation of skilled professionals for a sustainable fisheries management in the region. The expected results will include a Master program in Sustainable fisheries Management; a regional online platform on fisheries management; public awareness activities and dissemination of the programme; as well as sound management and quality control activities.

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E.43

Renewable energy in Pacific islands: Developing Skills and Capacity

Lead Partner: Universidad de Alicante
Partner 1: University of Fiji
Partner 2: University of Papua New Guinea

Contract Number: FED/2013/320-282
EC Grant: EUR 398,993.33

Sector: Energy access and efficiency
Location: Fiji, Papua New Guinea, Spain

Duration (months): 36
Start Date: 09 October 2013

Project Summary

The overall objective of EPIC is to encourage the regional co-operation in renewable energy by establishing a Master programme in Renewable Energy Management (REM) as well as a Centre for Renewable Energy (CORE) in both Fiji and Papua New Guinea. Through a series of capacity building activities and a study visit, a basic common curriculum for REM will be developed to train young professionals. On the other hand, the CORE will facilitate research and co-operation at national as well as regional levels in the field of RE. Power plant will be installed as a pilot action for research on solar energy, albeit non-exclusive. In addition, the CORE will become self-financially sustainable by developing as well as adopting a strategic business plan.

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E.44

RENet: Renewable energies Education Network

Lead Partner: Universidad Carlos III de Madrid

Partner 1: Université d'Etat Haiti

Partner 2: Universidad de Oriente

Partner 3: Instituto Superior Minero Metalúrgico de Moa

Contract Number: FED/2013/320-289

EC Grant: EUR 499,714.04

Sector: Energy access and efficiency

Location: Cuba, Haiti, Spain

Duration (months): 42

Start Date: 09 October 2013

Project Summary

The objective is to improve graduate and postgraduate academic capacity of partner universities in energy access and efficiency and to create new academic and technological tools that respond to society and the labour market. The project will aim to foster south-south networks of co-operation in the Renewable Energy area by creating academic and institutional links among project partners, associates and entities from other countries.

The main activities foreseen are to design and implement a new postgraduate degree in energy that bridges the gap between Haiti and its regional context and to strengthen the pre-existing academic degrees of partner universities through the improvement of content and curricula. Professional training courses will also be developed. In order to facilitate these developments a "training of trainers" course will be implemented along with strengthening the research capacities of partner universities through the design and equipping of a Renewable Energy laboratory in each partner university.

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E.45

SAPHE - Strengthening Agroforestry Programmes in Higher Education for Food Security in Sub-Saharan Africa

Lead Partner: Universidad de Valladolid

Partner 1: Hawassa University

Partner 2: Arba Minch University

Partner 3: Institute Polytechnique Rural de Formation
et de Recherche Appliquée

Partner 4: Université de Maradi

Contract Number: FED/2013/320-291

EC Grant: EUR 404,955.67

Sector: Agriculture and food security

Location: Ethiopia, Mali, Niger, Spain

Duration (months): 36

Start Date: 09 October 2013

Project Summary

The aim of the project is to implement an MSc in Agroforestry and cross-training programmes, including a Master in Geo-information Technology, and three short-courses on Information Literacy, Agroforestry and HIV/AIDS and Agroforestry and Gender at four sub-Saharan universities. The project also intends to implement a University Extension Program in Agroforestry, edit didactic materials for the courses and develop extension Agroforestry manuals. In order to achieve this, academic and research staff will be trained, laboratories for Agroforestry and for GIS and Remote Sensing will be equipped, and specific Agroforestry educational facilities and didactic materials will be developed (database for species with high value for rural communities, lexicon of food and forage plants of Sahel and Horn of Africa, university herbarium and demonstrative plots).

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E.46

Concerted Fit-for-purpose PhD training in aquaculture and fisheries to improve food security and livelihoods in Sub-Saharan Africa.

Lead Partner: Lilongwe University of Agriculture and Natural Resources (LUANAR), Bunda College of Agriculture

Partner 1: Makerere University

Partner 2: Moi University

Partner 3: Rhodes University

Contract Number: DCI-AFS/2013/320-302

EC Grant: EUR 497,986.33

Sector: Agriculture and food security

Location: Kenya, Malawi, South Africa, Uganda

Duration (months): 42

Start Date: 08 October 2013

Project Summary

Existing PhD curriculum and teaching methods in aquaculture and fisheries will be upgraded and Bunda (LUANAR) will aim to become a regional node for training in aquaculture and fisheries sciences. Links will be developed between teaching, modern technologies, learning, research and the demands of the fisheries and aquaculture sector. Expertise will be drawn from the University of Rhodes and experiences from Moi and Makerere. International partnerships will allow the mobility of and improve the supervision of PhD students and the flexibility of conducting research in any of the partner institutions. International partners will assist in curriculum review thereby ensuring that the PhD program has the regional and international quality to be regionally appealing. Both members of staff and students among partner institutions will benefit from exchange visits and joint research. Key publications from this process will be a revised PhD curriculum, course modules, students' theses and journal publications.

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E.47

ACADIA: African Centre for Applicative Development & Innovation in Agribusiness

Lead Partner: Polytechnic University of Cartagena

Partner 1: Chuka University

Partner 2: Gulu University

Contract Number: DCI-AFS/2013/320-339

EC Grant: EUR 478,626.89

Sector: Agriculture and food security

Location: Kenya, Uganda

Duration (months): 36

Start Date: 10 October 2013

Project Summary

Curricula will be updated to a more market oriented and efficient agribusiness curricula. The project will involve industry in (1) curricula design (by consultation meetings, interviews, etc.), (2) study tours to real operations, to know managerial and organizational techniques, as well as state of the art facilities (3) e-learning and exchange platform (ACADIA will promote use of platform for academic training, knowledge transfer and dissemination of industry information about new techniques, products or practices, etc.). The sustainability of the project will be assured around three components: a stable and easy-to-access network of Universities for the exchange of information; a stable network of University-Industry relationships; and a virtual platform where contents will be easily updated. The action is focused on: agroindustry market orientation curricula, boost of accessibility of education (distance learning), agricultural productivity, fostering entrepreneurship and co-operative work on agroindustry sector as a way of employment creation, rural development, and preventing urban exodus.

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ACP S&T Programme II

The ACP Science and Technology Programme has also started a second phase. The 2012 Call for Proposals has awarded 21 grant projects, for a total financing of € 20.8 M sourced from both the 10th EDF and the EU Budget (co-operation with South Africa).

The objectives of ACP S&T II are to address the scientific and technological divide between ACP member states and the most industrialised countries; to strengthen Science, Technology and Innovation (STI) in ACP countries to enable creation, update and use of scientific knowledge; and to enhance the use of STI as a key enabler for poverty reduction, growth and socio-economic development. The Programme is convinced that one of the requirements for an effective fight against poverty in the ACP countries is the appli-

Le Programme ACP Science et Technologie vient également de commencer une deuxième phase. L'appel à propositions 2012 a conclu par des subventions attribuées à 21 projets, pour un financement total de 20,8 M € provenant à la fois du 10^{ème} FED et du budget de l'UE (coopération avec l'Afrique du Sud).

Les objectifs de ce programme sont de combler le fossé scientifique et technologique entre les Etats membres du Groupe ACP et les pays les plus industrialisés ; de renforcer la science, la technologie et l'innovation (STI) dans les pays ACP pour permettre la création, l'actualisation et l'utilisation des connaissances scientifiques ; et d'améliorer l'utilisation des STI comme un élément clé pour la réduction de la pauvreté, la croissance et le développement socio-économique. Le Programme est convaincu que l'une des conditions pour une lutte efficace contre la

caution of knowledge gained from Science and Technology in order to promote innovation and ultimately develop appropriate technologies, which could be effectively deployed within the context of local needs and resources.

ACP S&T II focuses also on the two priority thematic areas, 'Energy access and efficiency' and 'Agriculture and food security'.

The 21 new projects (presented in this brochure) will address the two target sectors as follows: Agriculture and food security: 15 projects; Energy access and efficiency: 4 projects; both themes: 2 projects. The projects represent the participation of 80 institutions from 31 ACP states, as well as 26 institutions from 9 EU countries, USA and India.

pauvreté dans les pays ACP est l'application des connaissances acquises en science et technologie afin de promouvoir l'innovation et, finalement de développer des technologies appropriées, qui pourraient être efficacement déployées dans le contexte des besoins et des ressources locaux.

ACP S & T II se concentre également sur les deux domaines thématiques prioritaires 'Accès à l'énergie et efficacité énergétique' et 'Agriculture et sécurité alimentaire'.

Les 21 nouveaux projets (présentés dans cette brochure) s'axeront sur les deux secteurs ciblés comme suit : agriculture et sécurité alimentaire : 15 projets ; accès à l'énergie et efficacité énergétique : 4 projets ; les deux thèmes : 2 projets. Ces projets voient la participation de 80 institutions de 31 États ACP, ainsi que de 26 institutions de 9 pays de l'Union européenne, des Etats-Unis et l'Inde.

S.1

OPTIONS - Optimisation of Pesticidal-plants: Technology Innovation, Outreach & Networks

Lead Partner: Natural Resources Institute (NRI) - University of Greenwich

Partner 1: Royal Botanic Gardens

Partner 2: University of Zimbabwe

Partner 3: Mzuzu University

Partner 4: Sokoine University of Agriculture

Partner 5: World Agroforestry Centre (ICRAF)

Partner 6: Sustainable Global Gardens

Partner 7: National Museums of Kenya

Contract Number: FED/2013/329-272

EC Grant: EUR 993,525.39

Sector: Agriculture and food security

Location: Kenya, Malawi, Tanzania, United Kingdom, Zimbabwe

Duration (months): 36

Start date: 01 January 2014

Project Summary

The use of pesticidal plants for food security through pest control technologies which meet local needs and resources will be promoted, facilitated and optimised. The project partners and community-based organisations in Kenya such as the Communities Initiatives for Rural Development (CIFORD) will be enabled to support the technology innovations through propagation, training and revising policies to facilitate outreach. The project will optimise use and propagation of pesticidal plants, raise awareness about pesticidal plant use, create an environment for cross-training and skill transfer, and develop policies that enable commercialisation, marketing and promotion of safe and effective pesticidal plants.

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S.2

IFCIC - International Fine Cocoa Innovation

Lead Partner: The University of the West Indies (UWI)

Partner 1: Caribbean Fine Cocoa Forum

Partner 2: Cocoa Industry Board

Partner 3: Newer Worlds

Contract Number: FED/20113/330-204

EC Grant: EUR 2,170,945.00

Sector: Agriculture and food security

Location: Jamaica, Trinidad and Tobago, the United Kingdom

Duration (months): 36

Start date: 01 March 2014

Project Summary

The construction and operation of an International Fine Cocoa Innovation Centre (IFCIC) will underpin the growing potential of fine cocoa as a strategic crop in the Caribbean, with support being provided in the areas of cocoa growing, processing, value-adding, and food and drink applications. It will facilitate the Cocoa Research Centre's (CRC) transfer of academic research into practical applications and innovations for the benefit of, amongst others, regional small cocoa farmers and agro-businesses (utilising locally processed chocolate derivatives) incubated at the IFCIC. A modern cocoa orchard and museum will demonstrate the innovations, and support will be given to increase cocoa productivity through modern genetic tools.

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S.3

In situ Conservation and Use of Crop Wild Relatives in three ACP countries of SADC region

Lead Partner: International Plant Genetic Resource Institute (IPGRI; Bioversity International)

Partner 1: University of Birmingham

Partner 2: University of Mauritius

Partner 3: Directorate Genetic Resources

Partner 4: Ministry of Agriculture and Livestock of Zambia

Contract Number: FED/2013/330-210

EC Grant: EUR 973,747.78

Sector: Agriculture and food security

Location: Italy, Mauritius, South Africa, United Kingdom, Zambia

Duration (months): 36

Start date: 01 January 2014

Project Summary

Crop wild relatives (CWR) are gene providers for developing adapted crop varieties that enable farmers to cope with all kinds of adverse conditions, for example those induced by climate change, but these crops are threatened in the wild. The link between conservation and the use of CWR will be explored and strengthened. The scientific capacities of national environmental and conservation scientists and managers from the Southern African Development Community (SADC) countries will be developed to conserve CWR, identify useful potential traits to adapt them to climate change, and ensure sustainable conservation through the development of national strategic action plans on in situ conservation of CWR as a means of underpinning regional food security and mitigating the adverse effects of climate change.

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S.4

IPICA – Empowering knowledge transfer in the Caribbean through effective IPR & KT regimes

Lead Partner: Universidad de Alicante (UA)

Partner 1: FH JOANNEUM Gesellschaft mbH

Partner 2: University of Technology

Partner 3: Instituto Tecnológico de Santo Domingo

Partner 4: The University of the West Indies

Partner 5: Jamaica Intellectual Property Office

Partner 6: Oficina Nacional de la Propiedad Industrial

Partner 7: Ministry of Science, Technology and Mining of Jamaica

Contract Number: FED/2013/330-211

EC Grant: EUR 691,879.39

Sector: Energy access and efficiency

Location: Austria, Dominican Republic, Jamaica, Spain, Trinidad and Tobago

Duration (months): 36

Start date: 01 January 2014

Project Summary

IPICA will reinforce innovation systems in the Caribbean by empowering the generation, application and transfer of scientific knowledge for enhanced energy access and efficiency. Different innovation system stakeholders – higher education institutions (HEIs), national intellectual property offices, ministries and international organisations, researchers, enterprises, as well as students – will be trained to modernise national and institutional intellectual property and knowledge transfer policies and strategies. This will create practical support to facilitate knowledge transfer and to promote innovation culture in Caribbean societies.

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S.5

GeosAF - Geomatic technology transferred to animal health services in southern Africa

Lead Partner: CIRAD - Centre de coopération Internationale en Recherche Agronomique pour le Développement

Partner 1: Division of Veterinary Services of Zimbabwe

Partner 2: Division of Veterinary Services of Botswana

Partner 3: Direcção Nacional dos Serviços de Veterinaria

Partner 4: University of Zimbabwe

Partner 5: University Eduardo Mondlane (UEM)

Contract Number: FED/2013/330-214

EC Grant: EUR 832,014.00

Sector: Agriculture and food security

Location: Botswana, France, Mozambique, Zimbabwe

Duration (months): 36

Start date: 3 February 2014

Project Summary

In Southern Africa, vector-borne diseases have a major impact on livestock production, which plays an important role in sustaining livelihoods in marginalised rural communities. The use of geomatic technologies will provide major inputs for the planning, management and control of diseases transmitted by vectors. Though a certain level of technical health expertise is available, veterinary services lack the skills to use them. The project supports the adoption of geomatic technologies by central and local veterinary services to improve vector-borne disease management in Botswana, Mozambique and Zimbabwe, as well as at the Southern African Development Community (SADC) level.

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S.6

One Health, One Caribbean, One Love

Lead Partner: The University of the West Indies (UWI)

Partner 1: Pan American Health Organization

Partner 2: CIRAD - Centre de Coopération Internationale en Recherche Agronomique pour le Développement

Partner 3: Ministry of Agriculture of Guyana

Partner 4: Ministry of Agriculture, Marine Resources and Cooperatives of St. Kitts and Nevis

Partner 5: Ministry of Agriculture, Forestry and Fisheries of Grenada

Contract Number: FED/2013/330-215

EC Grant: EUR 989,692.76

Sector: Agriculture and food security

Location: France, Grenada, Guyana, Saint Kitts and Nevis, Trinidad and Tobago, United States

Duration (months): 36

Start date: 01 March 2014

Project Summary

A 'one health' policy – the collaborative effort to attain optimal health for people, animals and the environment in relation to interactions between them – will be formulated and promoted across the Caribbean region through the development of national one-health leaders, and developing and implementing regional and national one-health strategic plans. To strengthen the ability of Caribbean countries to recognise, diagnose and respond to animal/zoonotic diseases, technical training will be provided for laboratory personnel in quality assurance, laboratory management and the use of appropriate low-cost, sensitive diagnostic techniques, and for Caribbean veterinary surgeons and 'first responders' who deal with high-priority animal/zoonotic diseases.

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S.7

INVOCAB - Improving Innovation Capacities in the Caribbean

Lead Partner: Scientific Research Council (SRC)

Partner 1: National Institute of Higher Education, Research, Science and Technology (NIHERST)

Partner 2: University of Technology (UTECH)

Partner 3: The Mico University College

Contract Number: FED/2013/330-216

EC Grant: EUR 801,506.88

Sector: Agriculture and food security
Energy access and efficiency

Location: Jamaica, Trinidad and Tobago

Duration (months): 36

Start date: 01 January 2014

Project Summary

Low innovation levels in the Caribbean can be attributed to inadequate exposure to science and technology activities in the education system. Students are prepared for employment rather than being taught the skills for business creation or inventing products and services. The INVOCAB project involves both students and teachers: entrepreneurship and creative problem-solving will be introduced at an early age to create an interest in science, technology and innovation by improving the science infrastructure, running teacher training workshops and student camps, establishing science clubs and science centres, and by making education policy recommendations. The aim of these combined interventions is to increase the number of successful external examinations at primary and secondary school levels.

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S.8

AFRHINET - An ACP-EU Technology Transfer Network on Rainwater Harvesting Irrigation Management for Sustainable Dryland Agriculture, Food Security and Poverty Alleviation in sub-Saharan Africa

Lead Partner: Hamburg University of Applied Sciences (HAW)

Partner 1: Addis Ababa University

Partner 2: University of Nairobi

Partner 3: Eduardo Mondlane University

Partner 4: University of Zimbabwe

Contract Number: FED/2013/330-218

EC Grant: EUR 999,968.42

Sector: Agriculture and food Security

Location: Ethiopia, Germany, Kenya, Mozambique, Zimbabwe

Duration (months): 36

Start date: 01 March 2014

Project Summary

Through the implementation of integrated theoretical and practical capacity-building, and the development of technology-transfer and demonstration projects in the field of rainwater harvesting irrigation (RWHI), the knowledge and use of RWHI management for small-scale irrigation will be enhanced in rural dryland areas of sub-Saharan Africa. In addition, through the development of research and technology-transfer centres, and a transnational network, a platform for co-operation and the exchange of experience in RWHI management will be created. The network will comprise micro-enterprises, non-governmental and public actors, academic/scientific institutions, and rural dryland local communities, especially farmers, women and youth groups.

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S.9

Boosting coffee productivity in Kenya and Malawi through better access to and use of modern technologies and innovations

Lead Partner: CAB International (CABI)

Partner 1: Lunyangwa Agriculture Research Services,
Ministry of Agriculture

Partner 2: Coffee Research Foundation

Contract Number: FED/2013/330-219

EC Grant: EUR 804,447.82

Sector: Agriculture and food security

Location: Kenya, Malawi

Duration (months): 36

Start date: 01 March 2014

Project Summary

Researchers in Kenya and Malawi will be trained in modern techniques for producing tissue culture coffee seedlings using temporary immersion methods and modern tissue culture equipment, for which laboratories will be upgraded. Nursery managers at co-operatives will be trained on weaning procedures for tissue culture seedlings. Chemistry laboratories in Malawi will be modernised to undertake pesticide and fertiliser analysis. In addition, a system for providing routine pesticide and fertiliser recommendations to farmers will be developed. Linkages between researchers, pest control product boards, agrochemical importers and producer organisations will be strengthened.

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S.10

NEED - Network of Excellence in Renewable Energy Technologies for Development

Lead Partner: Technische Hochschule Ingolstadt (THI)

Partner 1: Botswana International University of Science and Technology (BIUST)

Partner 2: Gobabeb Research & Training Centre (GBB)

Partner 3: Okavango Research Institute (ORI)

Partner 4: Polytechnic of Namibia

Partner 5: University of Zambia

Contract Number: FED/2013/330-221

EC Grant: EUR 995,252.98

Sector: Agriculture and food security

Location: Botswana, Germany, Namibia, Zambia

Duration (months): 36

Start date: 01 March 2014

Project Summary

A network of excellence, inter-linking existing successful renewable energy technology initiatives, institutions and experts will be established and become active in formulating research policies, developing industry standards and enhancing practical education ('dual studies') in Botswana, Namibia and Zambia. Furthermore, energy concepts for two rural model regions will be worked out, including the evaluation of the current local energy situation, the development a roadmap for regional transition from conventional to renewable energy supplies, awareness raising and policy briefing. The model regions are 'Fossil-free wetlands' in Botswana and 'Renewable mini-grid drylands' in Namibia.

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S.11

StopRats: Sustainable Technology to Overcome Pest Rodents in Africa Through Science

Lead Partner: Natural Resources Institute (NRI) - University of Greenwich

Partner 1: University of Namibia

Partner 2: Association Vahatra

Partner 3: Concern Worldwide

Partner 4: Plant Protection Research Institute - Agricultural Research Council

Partner 5: University of Venda

Partner 6: University of Swaziland

Partner 7: Sokoine University of Agriculture

Contract Number: FED/2013/330-223

EC Grant: EUR 992,688.66

Sector: Agriculture and food security

Location: Madagascar, Namibia, Sierra Leone, South Africa, Swaziland, Tanzania, the United Kingdom

Duration (months): 36

Start date: 01 January 2014

Project Summary

The StopRats project combines the strengths of agricultural research and extension institutions to develop technologies to overcome rodent pests. Smallholder farmers in Tanzania, Swaziland, Namibia, Madagascar, South Africa and Sierra Leone will benefit from innovations in sustainable rodent pest management technologies. Evaluating current knowledge, attitudes and practices about the impact and management of rodents will be used to inform and develop (inter)national networks of stakeholders (business, research, policy, extension) related to rodent management. A space will be created for stakeholders to network, building their capacity to effectively communicate on rodent pest issues to the scientific and policy-making arenas.

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S.12

WABEF - Western Africa Biowastes for Energy and Fertilizer

Lead Partner: CIRAD - Centre de coopération Internationale en Recherche Agronomique pour le Développement

Partner 1: Université Cheikh Anta Diop (UCAD)

Partner 2: Institut Africain de Gestion Urbaine (IAGU)

Partner 3: Association d'Entraide pour le Développement Rural – Teriya Bugu (AEDR)

Partner 4: Songhai Regional Centre

Partner 5: International Network of Resource Centres on Urban Agriculture and Food Security (RUAF Foundation)

Contract Number: FED/2013/330-225

EC Grant: EUR 742,892.50

Sector: Energy access and efficiency
Agriculture and food security

Location: Benin, France, Mali, the Netherlands, Senegal

Duration (months): 36

Start date: 01 February 2014

Project Summary

Using existing scientific data and industrial references, a stepwise approach and tools will be devised in a participatory way with public decision-makers and executives, researchers and teachers, NGO trainers, engineers and technicians. They will assess anaerobic digestion technologies and practices for recycling agricultural, agro-industrial and municipal biowastes into energy (i.e. biogas) and fertilisers (i.e. bioslurry, compost) with local applications that are relevant for Sudano-Sahelian Africa. The results will be disseminated through regional schools and e-learning curriculums for practitioners and universities to further promote the use of biowastes.

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S.13

Strengthening the capacities for fostering innovation along potato value chains in East Africa

Lead Partner: Inkoa Sistemas, S.L. (INKOA)

Partner 1: Agricultural Research Institute - Uyole (ARI-Uyole)

Partner 2: College of Science and Technology / University of Rwanda

Partner 3: Makerere University (MAK)

Partner 4: University of Nairobi (UoN)

Partner 5: Basque Institute for Agricultural Research and Development (NEIKER)

Contract Number: FED/2013/330-228

EC Grant: EUR 976,040.84

Sector: Agriculture and food security

Location: Kenya, Rwanda, Spain, Tanzania, Uganda

Duration (months): 36

Start date: 01 January 2014

Project Summary

Potato quality in Eastern Africa will be enhanced by the adoption of innovative technologies and practices along the entire value chain: from seed production to processing and commercialisation. Sharing knowledge via physical and virtual platforms will be made possible, thus increasing the research capacities of East African and international research organisations. These organisations and private value-chain actors will be brought together in innovation sessions to produce guidelines for enhancing the product quality along the potato value chain through the use of innovative technologies and practices. Similarly, policy recommendations will be formulated to foster innovations through the modification of existing policies, regulations and standards.

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S.14

ENRICH - Enhancing Energy Accessibility & Efficiency through establishing sustainable STI Support National Networks with a regional dimension in East Africa

- Lead Partner:** Universidad de Alicante (UA)
Partner 1: Glasgow Caledonian University
Partner 2: African Virtual University
Partner 3: Moi University
Partner 4: Mzumbe University
Partner 5: Makerere University
Partner 6: Inter University Council for East Africa (IUCEA)
Partner 7: Directorate of Research Management and Development (DRMD)
Partner 8: Tanzanian Commission for Science and Technology (COSTECH)
Partner 9: Uganda National Council for Science and Technology (UNCST)

Contract Number: FED/2013/330-235

EC Grant: 730,299.47 EUR

Sector: Energy access and efficiency

Location: Kenya, Spain, Tanzania, Uganda, the United Kingdom

Duration (months): 36

Start date: 01 January 2014

Project Summary

The project will promote regional co-operation in the energy and environment sectors in East African countries by establishing three national networks to support science, technology and innovation (STI) and a regional portal with a database of experts. This infrastructure will foster regional dialogue among academia, researchers, industries and policy makers, improving the flow of communication between the levels of policy and operation. Managers and researchers will be trained in crucial aspects of innovation management and will replicate these trainings through national support networks. Collaboration and dialogue with policy makers will take place at national (round tables) and regional (supranational conferences) level.

Contact Person: Juan Llopis

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S.15

BIOCHAR PLUS – Energy, health, agricultural and environmental benefits from biochar use: building capacities in ACP Countries

Lead Partner: Università degli Studi di Udine

Partner 1: ECOWAS Centre for Renewable Energy and Energy Efficiencies (ECREEE)

Partner 2: STARTER, Italy

Partner 3: ASA Initiative

Partner 4: Université de Lomé

Partner 5: Counterpart in Rehabilitation and Development in Sierra Leone (CORD SL)

Partner 6: Jimma University

Partner 7: Bindura University of Science Education

Contract Number: FED/2013/330-236

EC Grant: EUR 999,756.80

Sector: Energy access and efficiency

Agriculture and food security

Location: Cabo Verde, Ethiopia, Ghana, Italy, Sierra Leone, Togo, Zimbabwe

Duration (months): 36

Start date: 01 February 2014

Project Summary

Biochar Plus promotes knowledge and use of biochar, a promising and environmentally-friendly technology which offers several benefits in terms of energy access and efficiency, health, agriculture, environment, and socio-economic development. Seizing the opportunity offered by the widespread availability of feedstock (agricultural bio-wastes), the simplicity of converting biomass into biochar through pyrolysis with Elsa's stoves, the low level of economic investment required, the high demand for charcoal as cooking fuel and the increasing demand for smoke-free cooking stoves, the project will channel the production of biochar - around energy clusters - into a sustainable and eco-friendly business opportunity for local communities.

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S.16

Strengthening capacities and informing policies for developing value chains of neglected and underutilized crops in Africa

Lead Partner: International Plant Genetic Resource Institutes (IPGRI); Bioversity International)

Partner 1: African Network for Agriculture, Agroforestry and Natural Resources Education (ANAPE)

Partner 2: International Foundation for Science (IFS)

Partner 3: Laboratoire d'Agrobiodiversité et Amélioration des Plantes Tropicales (LAAPT) - Université d'Abomey-Calavi

Partner 4: University of Nairobi

Partner 5: Africa University

Contract Number: FED/2013/330-241

EC Grant: EUR 992,789.06

Sector: Agriculture and food security

Location: Benin, Italy, Kenya, Sweden, Zimbabwe

Duration (months): 36

Start date: 01 January 2014

Project Summary

Neglected and underutilised species (NUS) offer niche markets and incomes for resource-poor farmers, better nutrition, and options for climate change adaptation, but such crops are often ignored in agricultural systems. Stakeholders in Benin, Kenya and Zimbabwe (e.g. farmers, processors, researchers, private sector) will take part in innovation platforms to develop National Action Plans for value chain upgrading of two promising crops, Bambara groundnut and amaranth. In Eastern, Western and Southern Africa, the approaches to developing NUS value chains will be shared by training young scientists, developing agricultural education curricula and informing policy makers, contributing to diversifying agricultural and food systems.

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S.17

ILINOVA - Strengthening Capacity for Participatory Management of Indigenous Livestock to Foster Agricultural Innovation in Eastern, Southern and Western Africa

Lead Partner: Egerton University

Partner 1: Lilongwe University of Agriculture and Natural Resources (LUANAR)

Partner 2: Obafemi Awolowo University (OAU)

Contract Number: FED/2013/330-246

EC Grant: EUR 999,736.74

Sector: Agriculture and food security

Location: Kenya, Malawi, Nigeria

Duration (months): 36

Start date: 01 January 2014

Project Summary

This project improves the management of indigenous livestock (IL) through building capacity in the creation, update and use of innovative livestock technologies. The state of the art of IL innovation potential and levels of research and development (R&D) investments, and the relationships between research and industry will be analysed, while needs and measures to improve IL management will be discussed with stakeholders along the IL value chain. IL management capacity will be strengthened through summer camps and links between research, industry and civil society. Finally, a livestock innovation and business centre will be established to build on existing capacity, and foster innovation and agribusiness development.

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S.18

Promoting Sustainable Energy Access through the use of Geospatial technologies in West Africa

Lead Partner: ECOWAS Regional Centre for Renewable Energy and Energy Efficiency (ECREEE)

Partner 1: The Energy Center, Kwame Nkrumah University of Science and Technology

Partner 2: Ministry of Energy, of Cape Verde

Partner 3: NOVELTIS S.A.S

Partner 4: University of Geneva

Contract Number: FED/2013/330-248

EC Grant: 927,204.47 EUR

Sector: Agriculture and food security

Location: Cabo Verde, France, Ghana, Switzerland

Duration (months): 36

Start date: 01 March 2014

Project Summary

The operational capacities of the web-based ECOWAS (Economic Community of West African States) Observatory for Renewable Energy and Energy Efficiency (ECOWREX) will be enhanced by improving and creating new datasets. New standard functionalities will also be incorporated, including the development of energy access maps for member states, enhancing the solar and wind resources, and developing a Spatial Data Infrastructure (SDI) which will help to promote the science behind spatial data management and which is focused on increasing investment in the energy sector in Western Africa.

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S.19

WIKWIO - Weed Identification and Knowledge in the Western Indian Ocean

Lead Partner: CIRAD - Centre de coopération Internationale en Recherche Agronomique pour le Développement, France

Partner 1: Institut Français de Pondichéry (IFP)

Partner 2: Mauritius Sugarcane Industry Research Institute (MCIA/MSIRI),

Partner 3: Centre National pour le Développement Rural (FOFIFA)

Partner 4: Centre National de Documentation et de Recherche Scientifique (CNDRS)

Contract Number: AFS/2013/329-240

EC Grant: EUR 849,671.76

Sector: Agriculture and food security

Location: Comoros, France, India, Madagascar, Mauritius

Duration (months): 36

Start date: 21 November 2013

Project Summary

WIKWIO enhances the weed management capacities of researchers and extension services, private sector agronomists, civil society organisations and farming communities through the interdisciplinary and participatory building of an ICT knowledge base of major weeds affecting food and cash cropping systems in the islands of the Western Indian Ocean and South East African region. As weeds pose a major threat to agricultural productivity, an intervention based on a solid scientific approach and facilitated by the latest appropriate technologies to address this impediment will contribute to effective weed management practices and improved agricultural productivity in the region.

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S.20

Strengthening innovation and technology dissemination for sustainable development in cereals, cocoa and coffee value chains in Western and Eastern Africa

Lead Partner: Università degli Studi del Molise (UNIMOL)

Partner 1: Agenzia Regionale per la Protezione Ambientale del Molise (ARPA Molise)

Partner 2: Gulu University

Partner 3: Bioeconomy Africa (BEA)

Partner 4: University of Energy and Natural Resources (UENR)

Contract Number: AFS/2013/329-258

EC Grant: 621,576.82 EUR

Sector: Agriculture and food security

Location: Ethiopia, Ghana, Italy, Uganda

Duration (months): 36

Start date: 01 January 2014

Project Summary

The project will promote the adoption of proper pest and disease management techniques, such as preventive quality control systems, drying and storage, based on identified critical points along the value chains of maize, rice, cocoa and coffee. Centres of innovation and technology dissemination (CITED) will be established in Ethiopia, Ghana and Uganda; CITED staff, extension workers, advisory services workers, agricultural experts and others will be trained to work with the appropriate technologies, which have proven to be successful in the local context; and these technologies will be demonstrated and widely disseminated throughout the region.

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S.21

GMASSURE - Assuring agricultural and food safety of Genetically Modified Organisms (GMOs) in Southern Africa

- Lead Partner:** University of Pretoria (UP)
Partner 1: Agricultural Research Council (ARC)
Partner 2: Council for Scientific and Industrial Research (CSIR)
Partner 3: University of Namibia (UNAM)
Partner 4: University of Johannesburg (UJ)
Partner 5: University of Zimbabwe (UZ)
Partner 6: Technical University of Denmark

Contract Number: AFS/2013/329-265

EC Grant: EUR 868,328.34

Sector: Agriculture and food security

Location: Denmark, Namibia, South Africa, Zimbabwe

Duration (months): 36

Start date: 01 January 2014

Project Summary

The project will address the lack of widespread knowledge concerning biotechnology, and food and agricultural biosafety by providing government officials, policy makers and scientists in the Southern African Development Community (SADC) with the knowledge required to make informed decisions around the acceptance of genetically modified organisms (GMOs). Misinformation in the public domain will be addressed by providing consumers, the general public and religious groups, amongst others, with objective information about the agricultural and food safety of GMOs.

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ACP Caribbean & Pacific Research Programme for Sustainable Development

The 2010 Call for Proposals has awarded 10 grant projects, for a total financing of €4.8M sourced from the 10th EDF.

The Programme is complementary to other ACP and/or EU initiatives such as the EDULINK and ACP S&T programmes and the FP7 Framework Programme for Research. For sustainable development, the inclusion of Science and Technology is imperative not only for Caribbean and Pacific (C&P) countries to become more resilient to adverse impacts of climate change, but also to become self-sufficient and to meet the Millennium Development Goals, in particular the 'eradication of extreme poverty and hunger'.

The objective of this Programme is to contribute to sustainable development of C&P countries

L'appel à propositions de 2010 a favorisé 10 projets de subvention, pour un financement total de 4,8 M€ provenant du 10^{ème} FED.

Le programme est complémentaire aux autres initiatives ACP et /ou de l'UE tels que EDULINK et ACP S&T et du 7^{ème} programme-cadre de recherche. Pour un développement durable, l'inclusion de la science et de la technologie par les pays des Caraïbes et du Pacifique (C&P) est essentielle non seulement pour devenir plus résilients aux effets néfastes des changements climatiques, mais aussi pour devenir autonomes et pour atteindre les Objectifs du Millénaire pour le développement, en particulier 'l'éradication de l'extrême pauvreté et de la faim'.

L'objectif de ce programme est de contribuer au développement durable des pays C&P appar-

tenant à la fois au groupe des États ACP à travers la recherche en science et technologies en soutenant des projets de recherche dans les domaines de 'Agriculture and post-harvest', 'Renewable and sustainable energy', 'Water and sanitation' and 'Climate change'.

The 10 projects (presented in this brochure) will address the four target sectors as follows: Agriculture and post-harvest: 5 projects; Renewable and sustainable energy: 1 project; Water and sanitation: 1 project; Climate change: 1 project; two themes: 2 projects. The projects represent the participation of 4 institutions from 3 Pacific states, 10 institutions from 5 Caribbean states as well as 6 institutions from 4 EU countries and Thailand.

tenant au groupe des États ACP à travers les sciences et les technologies en soutenant des projets de recherche dans les domaines de la 'agriculture et post-récolte', 'énergie renouvelable et durable', 'eau et assainissement' et 'changement climatique'.

Les 10 projets (présentés dans cette brochure) portent sur les quatre secteurs ciblés comme suit : post-récolte et agriculture : 5 projets ; énergie renouvelable et durable : 1 projet ; eau et assainissement : 1 projet ; changement climatique : 1 projet ; deux thèmes : 2 projets. Ces projets voient la participation de 4 institutions de 3 États Pacifique, de 10 institutions de 5 États Caraïbes, ainsi que de 6 institutions de 4 pays de l'Union européenne et de Thaïlande.

R.1

Enhanced food security through preservation and improvement of genetic diversity of sweet potato and aibika in Papua New Guinea and Solomon Islands

Lead Partner: National Agricultural Research Institute (NARI)

Partner 1: Ministry of Agriculture and Livestock of Solomon Islands

Contract Number: FED/2011/280-510

EC Grant: EUR 492,582.00

Sector: Agriculture and post-harvest

Location: Papua New Guinea, Solomon Islands

Duration (months): 36

Start date: 01 August 2012

Project Summary

Sweet potato and aibika (slippery cabbage) are important crops in Papua New Guinea and Solomon Islands where they are critical as inexpensive sources of nutrition for the rural population. The genetic resources of these crops are, however, poorly managed with no systematic crop improvement programme currently in progress. The project fills this gap by analysing their genetic resources through DNA fingerprinting and improving the quality of the two crops by mutation breeding. Germplasm collections are being established and DNA fingerprinting performed for sweet potato and aibika lines, which will be followed by chemical mutagenesis and screening for climate change-related stress tolerance.

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R.2

WACOP Project - Changing Waves and Coasts in the Pacific

Lead Partner: Secretariat of the Pacific Community

Partner 1: University of the South Pacific

Partner 2: UNESCO-IHE Institute for Water Education

Contract Number: FED/2011/281-131

EC Grant: EUR 499,233.00

Sector: Climate change
Renewable and sustainable energy

Location: Fiji, the Netherlands

Duration (months): 36

Start date: 01 December 2012

Project Summary

Understanding wave climate changes in the Pacific region is critical for coastal management and for the implementation of climate change adaptation measures. However, little is known about wave climate and how its variability is affecting the coast. The Changing Waves and Coasts in the Pacific (WACOP) project is using the latest research tools to assess the baseline wave climate and its variability as well as the predicted changes in wave climate in the Pacific region. The project will use this wave climate information to better understand coastal erosion and inundations and to assess the potential for wave energy harvesting.

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Website: www.sopac.org/index.php/marinecoastalsciencesurvey/wacop

R.3

GoLoCarSce - Global Local Caribbean Climate Change Adaptation and Mitigation Scenarios

Lead Partner: The University of the West Indies (UWI)

Partner 1: Caribbean Community Climate Change Centre (CCCCC)

Partner 2: Caribbean Agricultural Development Institute (CARDI)

Partner 3: The Cropper Foundation (TCF)

Partner 4: Stockholm Environment Institute (SEI)

Contract Number: FED/2011/281-134

EC Grant: EUR 499,299.00

Sector: Climate change

Location: Belize, Thailand, Trinidad and Tobago

Duration (months): 36

Start date: 01 August 2012

Project Summary

The 'Global-local climate change adaptation and mitigation scenarios' (GoLoCarSce) project contributes to efforts to help Small Island Developing States (SIDS) within the Caribbean region better understand and manage the effects of climate change. A set of socio-economic scenarios will be developed to examine the medium- to long-term effects of climate change based on projected impacts on human health, water availability, forest biodiversity, agriculture and coasts. This knowledge will improve the countries' resilience and build their adaptive capacity towards promoting more sustainable forms of development and sustainable livelihoods.

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Website: www.golocarsce.org

R.4

The application of solar-powered Polymer Electrolyte Membrane (PEM) electrolysers for the sustainable production of Hydrogen gas as fuel for domestic cooking

Lead Partner: University of Technology (UTech)
Partner 1: The University of the West Indies (UWI)
Partner 2: Brunel University (BU)
Partner 3: Bureau of Standards Jamaica (BSJ)
Partner 4: Ministry of Science, Technology, Energy and Mining (MSTEM)

Contract Number: FED/2011/281-135
EC Grant: EUR 421,042.70

Sector: Renewable and sustainable energy
Location: Jamaica, the United Kingdom

Duration (months): 36
Start date: 01 August 2012

Project Summary

The project addresses the need for sustainable and affordable energy for domestic cooking using indigenous renewable resources. This will result in reducing Jamaica's reliance on imported liquefied petroleum gas (LPG) and its carbon footprint. Hydrogen gas will be produced through electrolysis by using a solar-powered polymer electrolyte membrane (PEM) electrolyser. Odourising the gas and colouring the flame, and modifying traditional gas stoves and their storage cylinders are major safety issues being worked on. In parallel a regulatory framework is being drafted to promote greater acceptance by households and the wider public.

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Website: www.solarhydrogen.utechsapna.com

R.5

Developing sustainable disease management strategies to improve vegetable production towards self-sufficiency and food security in the Caribbean region

Lead Partner: The University of the West Indies (UWI)

Partner 1: National Agricultural Research Institute (NARI)

Partner 2: Ministry of Agriculture, Rural Transformation, Forestry and Fisheries, St. Vincent and the Grenadines

Partner 3: CIRAD, Reunion Island

Contract Number: FED/2011/281-139

EC Grant: EUR 498,970.00

Sector: Agriculture and post-harvest

Location: Guyana, France, St. Vincent and the Grenadines, Trinidad and Tobago

Duration (months): 36

Start date: 01 August 2012

Project Summary

The production of model vegetable crops (tomato, cowpea and pumpkin) will be investigated in the field and laboratory by quantifying disease prevalence and developing diagnostic tools and integrated disease management (IDM) practices. These practices will be transferred to growers in the southern Caribbean region through the respective government ministries via training of farmers and agricultural personnel. The new disease management practices will substantially reduce the over-dependence and use of chemical fungicides, and thereby minimise the crop production costs and maximise profits to farmers. It would also minimise the accumulation of toxic chemical residues in the environment.

Contact Person: Jayaraj Jayaraman

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Website: www.uwiacp-idm.com/335368939

R.6

Impact on a freshwater lens in atoll environments under different climate and abstraction scenarios

Lead Partner: Secretariat of the Pacific Community (SPC)

Partner 1: University of the South Pacific (USP)

Contract Number: FED/2011/281-140

EC Grant: EUR 500,000.00

Sector: Water and sanitation
Climate change

Location: Fiji

Duration (months): 36

Start date: 01 September 2012

Project Summary

Hydrogeological investigations will be undertaken in two Pacific atoll countries, Kiribati and Tuvalu, using different field techniques and groundwater modelling approaches to assist governments and island communities in improving their understanding of atoll hydrology. The focus will be on the impacts of climate change and abstraction. A concept of sustainable freshwater yield will be developed for specific applications in atoll environments, impacts under projected climate and abstraction scenarios will be quantified, and water resource management will be improved. Groundwater modelling will be used on one site to trial abstraction optimisation to assess the abstraction potential of the groundwater resource under different climate scenarios.

Contact Person: Peter Sinclair

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R.7

Enhancing productivity of land and labour through small-scale mechanization for subsistence farmers in Papua New Guinea and Solomon Islands

Lead Partner: National Agricultural Research Institute (NARI)

Partner 1: Ministry of Agriculture and Livestock (MAL)

Contract Number: FED/2011/281-144

EC Grant: EUR 390,233.56

Sector: Agriculture and post-harvest

Location: Papua New Guinea, Solomon Islands

Duration (months): 36

Start date: 01 August 2012

Project Summary

Most people in Papua New Guinea and Solomon Islands are subsistence farmers using hand-held tools for crop and livestock production, which results in low agricultural outputs. Prototypes of small-scale farm machinery, such as solar dryers, rice mills, multi-purpose nut roasters and peanut shellers will be developed in collaboration with farmers. The piloting and adoption of this machinery will lead to the enhanced productivity of farm products, thus contributing to food security and improved nutrition, household income and livelihood for farmers.

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R.8

CASCADE - Climate change impacts on water resources and human livelihoods in the coastal zones of small island developing states

Lead Partner: The University of the West Indies

Partner 1: Caribbean Community Climate Change Centre

Partner 2: Centro Euro-Mediterraneo per I Cambiamenti Climatici

Contract Number: FED/2011/281-147

EC Grant: EUR 472,978.68

Sector: Water and sanitation

Location: Belize, Italy, Trinidad and Tobago

Duration (months): 36

Start date: 01 August 2012

Project Summary

CASCADE will design and promote multi-stakeholder climate change adaptation strategies in the water and sanitation sector for Small Island Developing States (SIDS) in the Caribbean and the Indian Ocean regions, which will improve water security and human wellbeing. Based on vulnerability assessments, different future scenarios of climate change impacts will be developed that can be effectively implemented by both community-based organizations, local authorities and indigenous peoples, and by coastal communities, water managers, the tourism and agricultural sectors, civil society organisations and public officials.

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Website: <http://www2.sta.uwi.edu/cascade>

R.9

Improving Caribbean food security in the context of climate change (the Netherlands, Trinidad and Tobago)

Lead Partner: Caribbean Agricultural Research and Development Institute (CARDI)

Partner 1: Trinidad and Tobago Agribusiness Association

Partner 2: University of Wageningen

Contract Number: FED/2011/282-938

EC Grant: EUR 500,000.00

Sector: Agriculture and post-harvest

Location: the Netherlands, Trinidad and Tobago

Duration (months): 36

Start date: 01 August 2012

Project Summary

Climate change resilient germplasm of a selection of crops (sweet potato, yams, beans, peas and maize) which are important to the Caribbean Community and Common Market (CARICOM) region's food and nutrition security will be identified through the characterization of soil and climatic environments in distinct agro-ecological zones, where the various crop varieties will be evaluated, selected, conserved and multiplied for later dissemination to farmers. Farmers and technicians from national agricultural research entities in the Caribbean region will be given the capacity to successfully managing the resulting production systems.

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Website: www.cardi.org/10th EDF Project

R.10

Optimisation of cocoa pollination for increased cocoa yields and income generation

Lead Partner: The University of Trinidad and Tobago (UTT)

Partner 1: Natural Resources Institute, University of Greenwich

Partner 2: The Cocoa Industry Board of Jamaica

Partner 3: Centre for Agriculture and Biosciences International (CABI)

Contract Number: FED/2012/290-490

EC Grant: EUR 499,462.82

Sector: Agriculture and post-harvest

Location: Jamaica, Trinidad and Tobago, the United Kingdom

Duration (months): 36

Start date: 01 October 2012

Project Summary

Midge biology, including the rearing and release of midges to improve pollination and fertilisation of cocoa, will be studied. During insect diversity surveys on cocoa estates in Jamaica and Trinidad and Tobago, insects will be catalogued for further identification based on morphological and deoxyribonucleic acid (DNA) characteristics. Cocoa flower odour analysis, synthesis and evaluation as potential attractants will also be conducted. Through mass rearing and multiplication of the pollinators, the natural insect population will be augmented. Finally, a cost-benefit analysis of the viability of rearing the insects as a business will be undertaken, together with training farmers on ecologically managing the environment for optimum insect survival.

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Matrix country-sector

Country	Energy	Agriculture	Environment
Angola	E-36		
Austria	S-4		
Belgium	E-24; E-25	E-35; E-12	
Belize			R-3; R-8
Benin		E-29; S-16; S-12	
Botswana	E-9; E-18; E-37; S-10	E-17; S-5	
Burkina faso		E-11; E-22; E-39	
Burundi	E-40	E-35	
Cabo Verde	E-34; S-15; S-18	E-1; S-15	
Cameroon		E-41	
Chad		E-11	
Comoros		E-13; E-42; S-19	
Cuba	E-14; E-44	E-4; E-32	
Denmark		E-5; E-8; E-10; S-21	
Dominican Republic	E-38; S-4	E-4; E-30; E-32	
DR Congo		E-35	
Ethiopia	E-26; E-27; S-15; S-20	E-8; E-15; E-26; E-31; E-33; E-45; S-8; S-15	
Fiji	E-2; E-43; R-2		R-2; R-6
Finland	E-14		
France	E-26; S-18	E-5; E-26; E-29; E-35; S-5; S-6; S-12; S-19; R-5	
Germany	E-2; E-16; E-18; E-20; S-10	E-15; E-21; E-32; E-33; S-8	
Ghana	S-15; S-18; S-20	E-3; E-17; E-23; E-41; S-15	
Grenada		S-6	
Guyana	E-24; E-25	E-30; S-6; R-5	
Haiti	E-44	E-32	
India		S-19	

Country	Energy	Agriculture	Environment
Italy	E-9; E-26; E-27; E-28; S-15; S-20	E-4; E-6; E-11; E-13; E-21; E-26; E-28; E-31; S-3; S-15; S-16	R-8
Ivory Coast		E-29; E-39	
Jamaica	E-14; E-24; E-38; S-4; S-7; R-4	S-2; S-7; R-10	
Kenya	E-9; E-16; E-26; E-27; E-28; E-40; S-14	E-5; E-7; E-8; E-10; E-12; E-15; E-21; E-22; E-23; E-26; E-28; E-33; E-46; E-47; S-1; S-8; S-9; S-13; S-16; S-17	
Lesotho	E-18		
Liberia		E-3	
Madagascar		E-13; E-35; E-42; S-11; S-19;	
Malawi		E-6; E-46; S-1; S-9; S-17	
Mali		E-45; S-12	
Mauritius	E-2	S-3; S-19	
Mozambique	E-34; E-36	E-1; E-19; E-42; S-5; S-8	
Namibia	E-18; E-20; E-37; S-10	E-6; S-11; S-21	
Niger		E-11; E-29; E-45	
Nigeria		E-3; E-8; E-22; E-23; E-41; S-17	
Norway	E-37		
Papua New Guinea	E-2; E-43	R-1	R-7
Portugal		E-1; E-19; E-42	
Rwanda	E-16; E-40	S-13	
Saint Kitts and Nevis		S-6	
Sao Tome e Principe	E-34		
Senegal		E-39; S-12	

Country	Energy	Agriculture	Environment
Seychelles		E-42	
Sierra Leone	E-28; S-15	E-3; E-28; E-41; S-11; S-15	
Slovenia		E-6; E-17	
Solomon Islands		R-1	R-7
South Africa	E-9; E-16; E-20; E-37	E-6; E-7; E-19; E-46; S-3; S-11; S-21	
Spain	E-34; E-36; E-37; E-38; E-40; E-43; E-44; S-4; S-14	E-39; E-41; E-42; E-47; S-13; E-32; E-45; S-13	
St. Vincent and the Grenadines		R-5	
Suriname	E-24; E-25		
Swaziland		S-11	
Sweden	E-38; S-4	S-16	
Switzerland	S-18		
Tanzania	E-26; E-27; E-40; S-14	E-5; E-10; E-26; E-42; S-1; S-11; S-13	
The Gambia		E-41	
The Netherlands	E-9; R-2	E-5; E-22; S-12; R-9	R-2
Togo	S-15	S-15	
Trinidad and Tobago	E-14; E-24; E-38; S-4; S-7	E-17; S-2; S-6; S-7; R-5; R-9; R-10	R-3; R-8
Uganda	E-9; E-16; E-40; S-20; S-14	E-5; E-7; E-8; E-10; E-12; E-31; E-33; E-35; E-46; E-47; S-13	
United Kingdom	E-9; S-14; R-4	E-30; E-39; S-1; S-2; S-3; S-11; R-10	
United States		S-6	
Zambia	S-10	S-3	
Zimbabwe	S-15	E-21; S-1; S-5; S-8; S-15; S-16; S-21	

Energy: Energy access and efficiency; Renewable and sustainable energy

Agriculture: Agriculture and food security; Agriculture and post-harvest

Environment: Climate change; Water sanitation

For more information, consult the following websites
EDULINK: <http://www.acp-edulink.eu>
ACP Science and Technology: <http://www.acp-st.eu>
ACP Groupe of States: <http://www.acp.int>
Europe Aid Co-operation Office: <http://ec.europa.eu/europeaid>

Or write to the Technical Assistance Unit:
info@ACP-edulink.eu
ACP-st@ACP-st.eu

