



EDULINK II  
ACP-EU Co-operation Programme  
in Higher Education

# HEI's cooperation contributing to rural development in Mozambique

## SUMMARY OF RESULTS

Models for sustainable community development were introduced into the courses offered by OWU with 6 specific thematic units and materials. The teaching materials were improved and adapted to local contexts. The teaching capacity of OWU was improved with the training of teachers in new technologies for sustainable renewable energy resources and small-scale conservation farming. The university has also increased its capacity to design and carry out research activities. The physical and virtual Knowledge Resource Centre was established and a sound co-operation formed among the HEIs in Mozambique, Portugal and South Africa.

## BACKGROUND

The majority of the population in Mozambique depends on small-scale conservation farming and lives below the poverty line. The environment and agricultural production are increasingly subject to adverse effects of climate change including flooding and drought. The project aimed at developing methods in training, and interventions by students and graduates to secure sustainable agricultural methods, food security and sustainable living conditions for rural communities.

The project strengthened both academic and community capacities by developing and enhancing the relevance of the existing course in Community Development based on practical actions. The goal was to improve production and livelihoods in rural communities through developing thematic units and teaching materials, alongside teacher training in delivering research and techniques on small-scale renewable energy and agricultural systems.

The goal also included the establishment of a virtual and physical Knowledge Resource Centre. This was complemented by increased collaboration between the partner Higher Education Institutions (HEIs) on the use of evidence-based solutions for sustainable development in improving the training of community developers.

ISET/OWU offers two specialisation courses: Community development and Pedagogy. ISET/OWU is supported by a Research and Knowledge Center that develops tailor-made solutions for the particular challenges faced by the local communities in the Changanane. ISET/OWU has an annual enrolment rate of 250 students and has 30 teachers and administrative staff.

## METHODOLOGY

### Improved curriculum

Improved curriculum of the partner HEIs to test and adapt to different local circumstances for sustainable community development.

### Techno-socio-economic feasibility studies

Renewable energy solutions for solar water pumping and purification and for supporting agricultural systems.

### Improved teaching materials

Analysis of methods to introduce new technologies to small-scale conservation farmers and increase the value and commercialisation of food and cash-crops. Produce teaching modules on sustainable technologies.

### Improved teaching capacity

Training seminars for teachers in technologies for sustainable RES and small-scale conservation farming as well as human resource organisation.

### Creating a network

Creation of a network of HEIs in Mozambique, South Africa and Portugal involved in sustainable technologies.

### Increasing capacity of HEIs to conduct research

Teacher training on implementation of techno-socio-economic feasibility studies on renewable energy resources (RES) solutions. Course development on different approaches for organising and leading farmers and simplified feasibility studies.

### Physical and virtual knowledge resource centre

Creation of the centre and development of a detailed establishment and activity plan.



Researcher from ISA Portugal training students in sustainable agriculture methods.

## PROJECT IMPLEMENTATION PERIOD

November 2013 – January 2017

## CONSORTIUM

- Instituto Superior de Educação e Tecnologia - One World University (ISET/OWU), Mozambique
- Stellenbosch University, South Africa
- Instituto Superior de Agronomia (ISA), Universidade Técnica de Lisboa, Portugal

## PROJECT CONTACT

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## PROJECT WEBSITE

<http://www.adpp-mozambique.org/>

## RESULTS

### → Outputs

#### Capacity building

- 6 teachers and 90 students trained in technologies for sustainable RES and small-scale conservation farming.
- 6 teaching modules on sustainable technologies.
- Teaching materials on subjects such as food security, sustainable technologies and environmental conservation introduced into subjects of Agriculture and Technology and Production.

#### Documents

- Manuals:
  - Sustainable agriculture.
  - Simplified feasibility studies.
  - Energy and water management.
  - Solar photovoltaic charging station.
- Feasibility studies:
  - Renewable energy.
  - Sustainable technologies.

#### Networking

- The physical and virtual Knowledge Resource Centre used to provide technical support, training and promotion of renewable and sustainable technologies

for the community.

- 10,350 men and women reached via activities of the students in local communities in Changalane.
- Links with national universities and research centres.

#### Visibility

- ISET/OWU and ADPP (*Ajuda de Desenvolvimento de Povo para Povo*) websites ([www.adpp-mozambique.org](http://www.adpp-mozambique.org)).
- Posters, pamphlets about conservation farming, climate change, etc.

### ↑ Outcomes

- ISET/OWU has capacity in developing local sustainable development solutions.
- ISET/OWU has capacity to deliver teaching and conduct research in sustainable community development.
- Knowledge Resource Centre has cemented international co-operation for resource use in research and teaching.

### 🎯 Impacts

#### Usage

- The training materials produced and the education modules introduced into ISET/OWU's curricula will sustain a more ambitious and pragmatic knowledge creation, management and application at the university level.

#### Policy implications

- Renewable energy and food security are high on the agenda of the government of Mozambique, but policy and implementation need further development. ISET/OWU is in a position to influence

policy and practice via its new capacities in research and producing professionals.

#### Sustainability

- With the potential to increase the number of professionals, government authorities have been supportive of the intervention including the Ministry of Science and Technology which has pledged funds and ongoing support in order to promote science, technology and innovation in rural development.



Students studying theoretical studies.



Students in a local community meeting.

## TESTIMONIAL



**Acacio Chelene,**  
community development  
worker, Changalane  
village, Mozambique

“I have been trained by teachers from universities in Portugal and South Africa to work directly with communities. My work covers implementation and teaching about renewable energy and solutions. People now understand the importance of conservation farming, renewable energy and strategies to mitigate climate change. This kind of training is very important as it provides methods that people are able to develop by themselves.”

ACP-EU Co-Operation Programmes in the fields of Higher Education and Science, Technology and Research

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