



Competence Platform on Energy Crop and Agroforestry Systems for Arid and Semi-arid Ecosystems – Africa



COMPETE

COMPETE Project Meeting

21 June 2007, Mauritius

Dr. Rainer Janssen

WIP – Renewable Energies, Munich



www.wip-munich.de

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COMPETE Platform

COMPETE Website: www.compete-bioafrica.net

COMPETE Duration: January 2007 to December 2009

Coordinators:

Rainer Janssen, Dominik Rutz, Peter Helm (WIP)

Jeremy Woods, Rocio Diaz-Chavez (Imperial College)

COMPETE is co-funded by the European Commission in the
6th Framework Programme – Specific Measures in Support of
International Cooperation (INCO-CT-2006-032448).



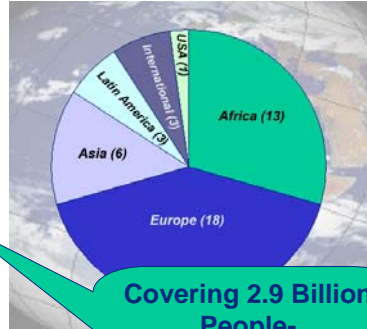
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COMPETE – Partnership

- The COMPETE Consortium consists of 44 partners from 5 continents.
- **African partners** are from Botswana, Burkina Faso, Kenya, Mali, Senegal, South Africa, Tanzania, and Zambia
- **European partners** are from Austria, Belgium, Germany, Italy, Norway, The Netherlands, Sweden, and UK
- **Asian partners** are from China, India, and Thailand
- **Latin American partners** are from Brazil and Mexico
- **International partners** are the AFDB, CI, and FAO



Covering 2.9 Billion People- nearly 50% of the world's population!

COMPETE Objectives

COMPETE will establish a platform for policy dialogue and capacity building and identify pathways for the sustainable provision of bioenergy

- to improve the quality of life and create **alternative means of income** for the rural population in Africa
- to aid the **preservation of intact eco-systems** in arid and semi-arid regions in Africa
- to enhance the equitable **exchange of knowledge** between EU and developing countries



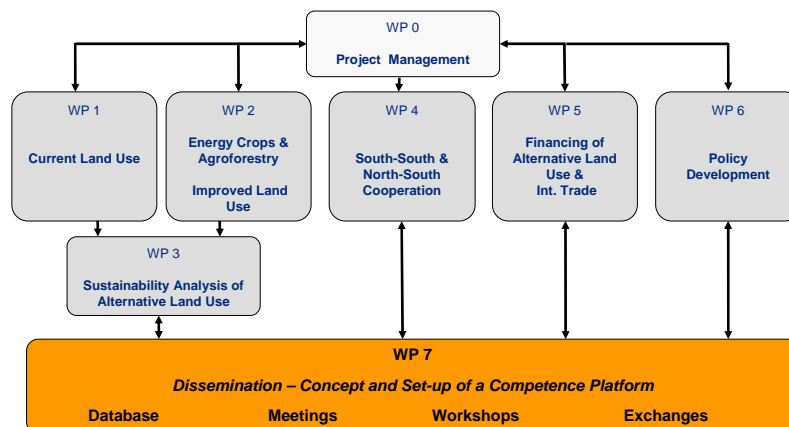


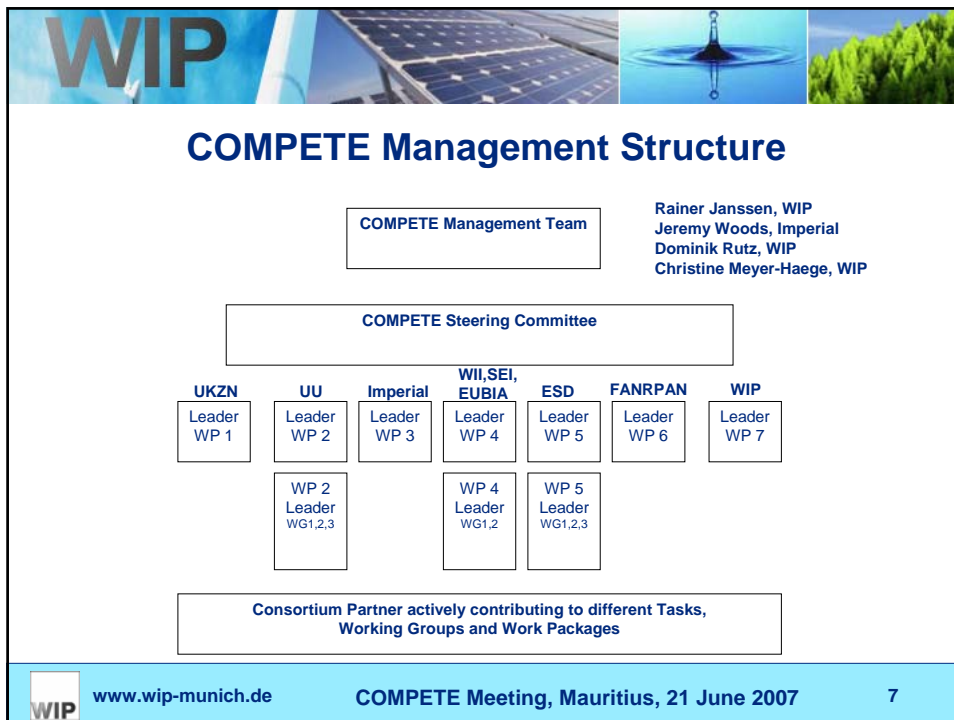
COMPETE – Main Activities and Results

- to evaluate current and future **potential for the sustainable provision of bioenergy in Africa**
- to facilitate **South-South technology and information exchange** capitalising the world-leading RD&D in bioenergy
- to develop innovative tools for the **provision of financing** for national bioenergy programmes and local bioenergy projects
- to develop practical, targeted and **efficient policy mechanisms** for the development of bioenergy systems
- to **establish the Competence Platform** to ensure effective dissemination and knowledge exchange



Work Package Overview





-
- Project Management**
- Overall Project Coordination: WIP
 - Project Management Team: WIP, Imperial
 - Project Steering Committee
 - Guidance and advice
 - Work Package Leaders: UKZN, UU, Imperial, WII/SEI/EUBIA, ESD, FANRPAN, WIP
 - Responsible for coordination of activities in WPs
 - Responsible for coordination of working groups
 - Responsible for motivating and involving partners
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WP0 – Project Management


WP leader: WIP

Partners: UKZN, RUUTR.STS, Imperial, WII, ESD, FANRPAN

Objective: **Ensure a smooth running of the project with maximum results**

Deliverables: D0.1 – D0.3


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WP1 – Current Land Use Patterns and Impacts


WP leader: UKZN

Partners: WIP, Imperial, RUUTR.STS, CNR, ENDA, MFC, MU, TaTEDO, UCT, CENBIO, TERI, UiO, UNIVBRIS, UB, UFH, CAREI, FAO

Objective: **Synthesise information from high quality sources that have categorised and evaluated land use patterns**

- (a) identifying land suitable for biomass production
- (b) suitable for conversion from other uses
- (c) filtering out land that is not available or not suitable

Deliverables: D1.1 – D1.6


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WP2 – Energy Crops and Agroforestry Systems – Improved Land Use

WP leader: RUUTR.STS

Partners: WIP, Imperial, SEI, ABI, FJ BLT, ETA, EUBIA, AGAMA, CEEEZ, ENDA, FELISA, MFC, MU, TaTEDO, UKZN, CAAS, TERI, AFDB, ESD, Eco, FAO

Objective: **Provide an overview of experiences and concepts for sustainable production (and use) of biomass for energy**

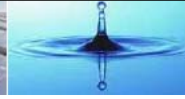
- (a) known agricultural practices
- (b) experience with different existing biomass production systems
- (c) promising new (or improved) biomass production and utilisation schemes

Deliverables: D2.1 – D2.6



WP2 – Working Groups

- (1) **WG1** - Energy crops for ethanol production
(Leader: ETA)
- (2) **WG2** - Energy crops for biodiesel production
(Leader: ABI)
- (3) **WG3** - Biomass production and supply for production of electricity and heat (Leader: ESD)



WP3 – Sustainability Analysis of Alternative Land Use

WP leader: Imperial

Partners: WIP, RUUTR.STS, ABI, CNR, ISUSI, CEEEZ, MU, UKZN, IISc, UNICAMP, CIRPS, UiO, UNIVBRIS, UB, UFH, TWIN, JGSEE, FAO, CI

Objective: **Ensure the ecological, economic and social sustainability of the implementation of alternative energy crop and agroforestry schemes**

Topics: Life Cycle Analysis, Land-use change, Climate Change, Monitoring sustainability

Deliverables: D3.1 – D3.5



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WP4 – South-South and North-South Cooperation – Africa, Latin America, Asia and Europe

WP leader: WII, SEI, EUBIA

Partners: WIP, CAAS, CENBIO, IISc, TERI, UNAM, UNICAMP, JGSEE, CAREI

Objective: **Link the project activities in Africa with on-going successful research and demonstration efforts in the field of energy crops and agroforestry systems (WG1)**

Transfer of knowledge and technical know-how between developed and developing countries (WG2)

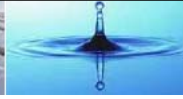
Deliverables: D4.1 – D4.7



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WP5 – Financing of Alternative Land Use and International Trade

WP leader: ESD

Partners: RUUTR.STS, PA, E+Co, AGAMA, ENDA, MFC, TaTEDO, AFDB, Eco, EKMD

Objective: **Identify existing financing mechanisms and barriers**
Opportunities for financing energy crop and agroforestry activities in arid and semi-arid Africa
Identify opportunities for linking bio-energy production in Africa to international (export) markets

Deliverables: D5.1 – D5.7




WP5 – Working Groups

(1) WG1 – Carbon Credits / Green Certificates
(Leader: Practical Action)

(2) WG2 – Bilateral and Multilateral Financing
(Leader: AFDB)

(3) WG3 – International biomass/bioenergy trade
(Leader: RUUTR.STS)



WP6 – Policy Development


WP leader: FANRPAN

Partners: WIP, EUBIA, ISUSI, AGAMA, CEEEZ, ENDA, FELISA, MFC, MU, TaTEDO, PRBE, UCT, CIRPS, Eco, FAO, EKMD

Objective: **Coordinate policy research activities in African countries aimed at efficient implementation of improved energy crop and agroforestry systems**

Identify and evaluate policies and strategies in African countries

Deliverables: D6.1 – D6.7


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WP7 – Dissemination – Concept and Set-up of a Competence Platform

WP leader: WIP

Partners: Imperial, RUUTR.STS, FJ BLT, ETA, EUBIA, PA, ISUSI, AGAMA, FANRPAN, PRBE, UKZN, UCT, WII, AFDB, FAO

Objective: **Actively promote the exchanges between the working groups and effectively link with existing networks and a large variety of stakeholders, target groups, key actors**

Deliverables: D7.1 – D7.10


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COMPETE Website www.compete-bioafrica.net



COMPETE Newsletter and Flyer



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Competence Platform on Energy Crop and Agroforestry Systems - Africa

COMPETE

The objective of this Competence Platform on Energy Crop and Agroforestry Systems for Arid and Semi-arid Ecosystems in Africa (COMPETE) is to stimulate bioenergy implementation in arid and semi-arid regions in Africa.

COMPETE aims to improve the quality of life and create alternative means of income for the rural population in Africa.

COMPETE supports the preservation of intact ecosystems in arid and semi-arid regions in Africa.

COMPETE enhances the equitable exchange of knowledge between EU and developing countries.

Please click here to download the project flyer.

This Project is coordinated by WIP - Renewable Energies, Germany. All Project Partners are listed under 'Consortium'.

Project Duration: January 2007 to December 2009

COMPETE - OBJECTIVES

COMPETE will establish a platform for policy dialogue and capacity building and identify pathways for the sustainable provision of bioenergy.

- to improve the quality of life and create alternative means of income for the rural population in Africa
- to aid the preservation of intact ecosystems in arid and semi-arid regions in Africa
- to enhance the equitable exchange of knowledge between EU and developing countries

COMPETE - ACTIVITIES

COMPETE will deliver a range of multi-stakeholder and interdisciplinary workshops.

- to evaluate current and future capacity for the sustainable provision of bioenergy in Africa in relation to existing and emerging technologies
- to facilitate South-South, technology and information exchange involving the sector leading entities in Germany and the key countries (Brazil, Mexico, India, China and Thailand)
- to develop knowledge tools for the provision of bioenergy for national planning, implementation and monitoring (energy, economic, social, environmental and institutional policy, and socio-economic)
- to develop national, regional and efficient policy instruments for the development of bioenergy systems and related policy instruments
- to establish the Competence Platform to ensure effective dissemination and knowledge exchange across and between stakeholders

COMPETE PARTNERSHIP

The COMPETE partnership comprises 22 European and 22 non-European partners: 11 partners from 11 African countries, 2 regional, African, Asian, and European Union, African, and other partners from 10 other African countries, 10 partners from 10 European countries, 1 partner from the United States of America, and 1 partner from the United Kingdom.

COMPETE Website: www.compete-bioafrica.net

COMPETE Duration: January 2007 to December 2009

COMPETE is funded by the European Commission in the framework of the 6th Framework Programme (FP6) under the contract number 0198-2005-5-00100-6-0.

COMPETE

Competence Platform on Energy Crop and Agroforestry Systems - Africa

COMPETE Coordinator:
WIP - Renewable Energies, Germany
Zentrum für Erneuerbare Energien
Email: www.compete@wip-munich.de

Contact:
Tel: +49 89 30909 100
Fax: +49 89 30909 101
E-mail: www.compete@wip-munich.de

Partners in West African Countries:
University of Pretoria, South Africa
International Institute for Tropical Agriculture, Nigeria
University of Ghana, Ghana
University of Zimbabwe, Zimbabwe
University of Botswana, Botswana
University of Malawi, Malawi
University of Zambia, Zambia
University of Namibia, Namibia
WIP - Renewable Energies, Germany

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COMPETE Associate Membership

The Associate Membership

- facilitates the involvement of other interested organisations

Associate Members

- **will be** regularly informed about events and activities of **the COMPETE project**
- **are invited to** make use of the dissemination platforms **established in the framework of the COMPETE project**



Competence Platform on Energy Crop and Agroforestry Systems for Arid and Semi-arid Ecosystems – Africa

Associate Member Application Form

(Please type or use block letters)

Family Name _____
 First Name _____
 Firm/Organisation _____
 Address _____
 Postal Code and City _____
 Country _____
 Tel. _____
 Fax _____
 eMail _____
 Internet _____

COMPETE Associate Members will be regularly informed about events and activities of the COMPETE project. COMPETE Associate Members are invited to make use of the dissemination platforms established in the framework of the COMPETE project.

By signing this form the applicant agrees that contact details (name, organization, email address) are published in a database on the COMPETE website.

Signature _____ Date _____

COMPETE is funded by the European Commission in the 6th Framework Programme - Specific Measures in Support of International Co-operation (ANCO-CT-2004-02448)


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Sustainability – Environmental Criteria

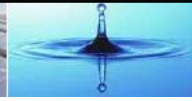
Emerging Principles and standard(s)

1. Carbon storage [stocks]
2. Biodiversity
3. Soil quality
4. Water quality and quantity
5. Air pollution

+ reporting on LUC (displacement effects and carbon report)

COMPETE will give a voice to African stakeholders in the process of the development of sustainability criteria and certification schemes

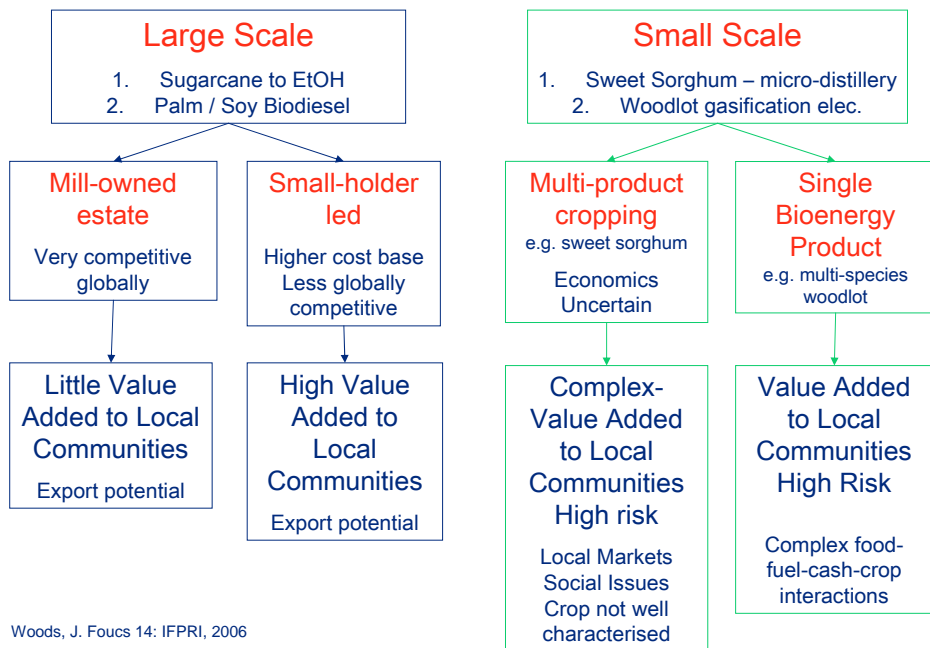

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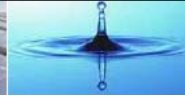


Sustainability – Social Criteria

1. Child labour
2. Freedom of association
3. Discrimination
4. Health and safety
5. Forced labour
6. Wages
7. Working hours (Plus standard only)
8. Contracts and subcontractors
9. Land rights

Bioenergy Development Options - Scale matters





Bioenergy – Ensuring Sustainability

Bioenergy is now going to happen at very large scales in many African countries

This can be either:

- 1) **Very damaging** and lock Africa out of new development opportunities
 - 2) **Sustainable and beneficial to African Development**
- **COMPETE** provides an opportunity to help option '2' to happen
 - **Multi-disciplinary understanding** to develop policies which reward best practice
 - **Human capacity building** to unlock synergistic exploitation rather than competition for resources



**We look forward to the Cooperation
in the framework of the COMPETE project!!**

Contact

Dr. Rainer Janssen, Dominik Rutz

WIP – Renewable Energies

Sylvensteinstrasse 2

81369 Munich, Germany

www.wip-munich.de

rainer.janssen@wip-munich.de

dominik.rutz@wip-munich.de

