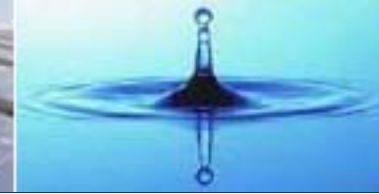


# WIP



## COMPETE Conference

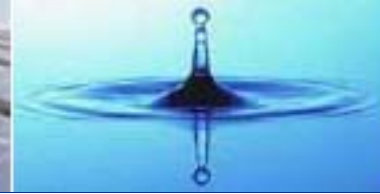
### Bioenergy for Sustainable Development in Africa – Lessons Learnt from COMPETE

## The COMPETE Project – Activities and Results



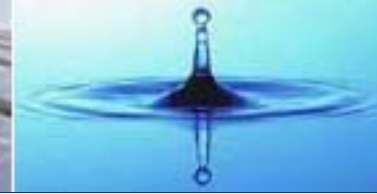
**Rainer Janssen, Dominik Rutz**  
WIP Renewable Energies, Munich, Germany

**25 November 2009**  
**Brussels, Belgium**



## Content

- **The COMPETE project**
- **Sustainability in Africa**
- **COMPETE Activities**
- **COMPETE Declaration on Sustainable Bioenergy for Africa**
- **Conclusion**



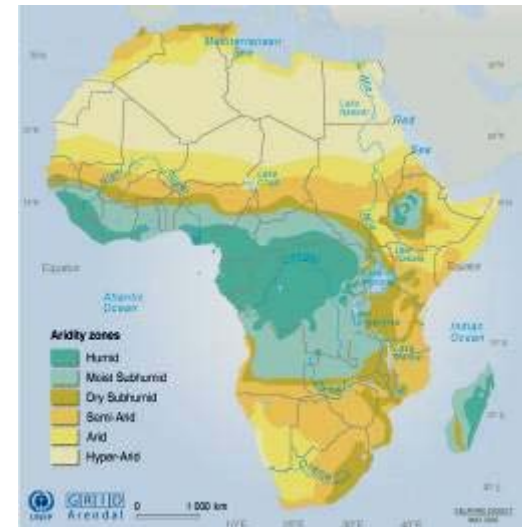
## COMPETE

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



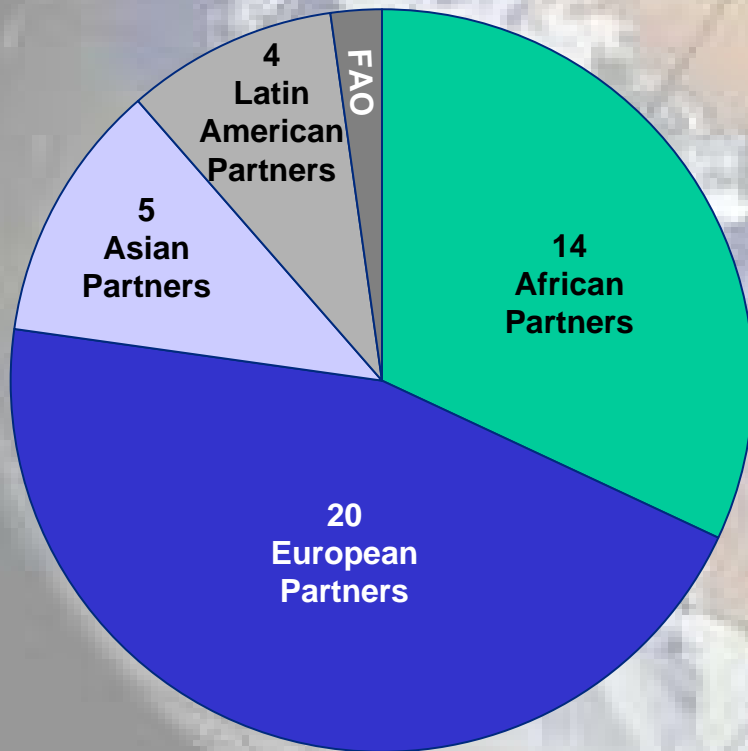
Duration: **January 2007 to December 2009**

[www.compete-bioafrica.net](http://www.compete-bioafrica.net)



**COMPETE is supported by the European Commission in the 6th Framework Programme**

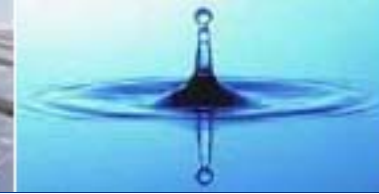
## Project Partners



### *African Countries:*

**Botswana, Burkina Faso, Kenya, Mali, Senegal, South Africa, Tanzania, Zambia**

**44 Partners from 4 Continents**



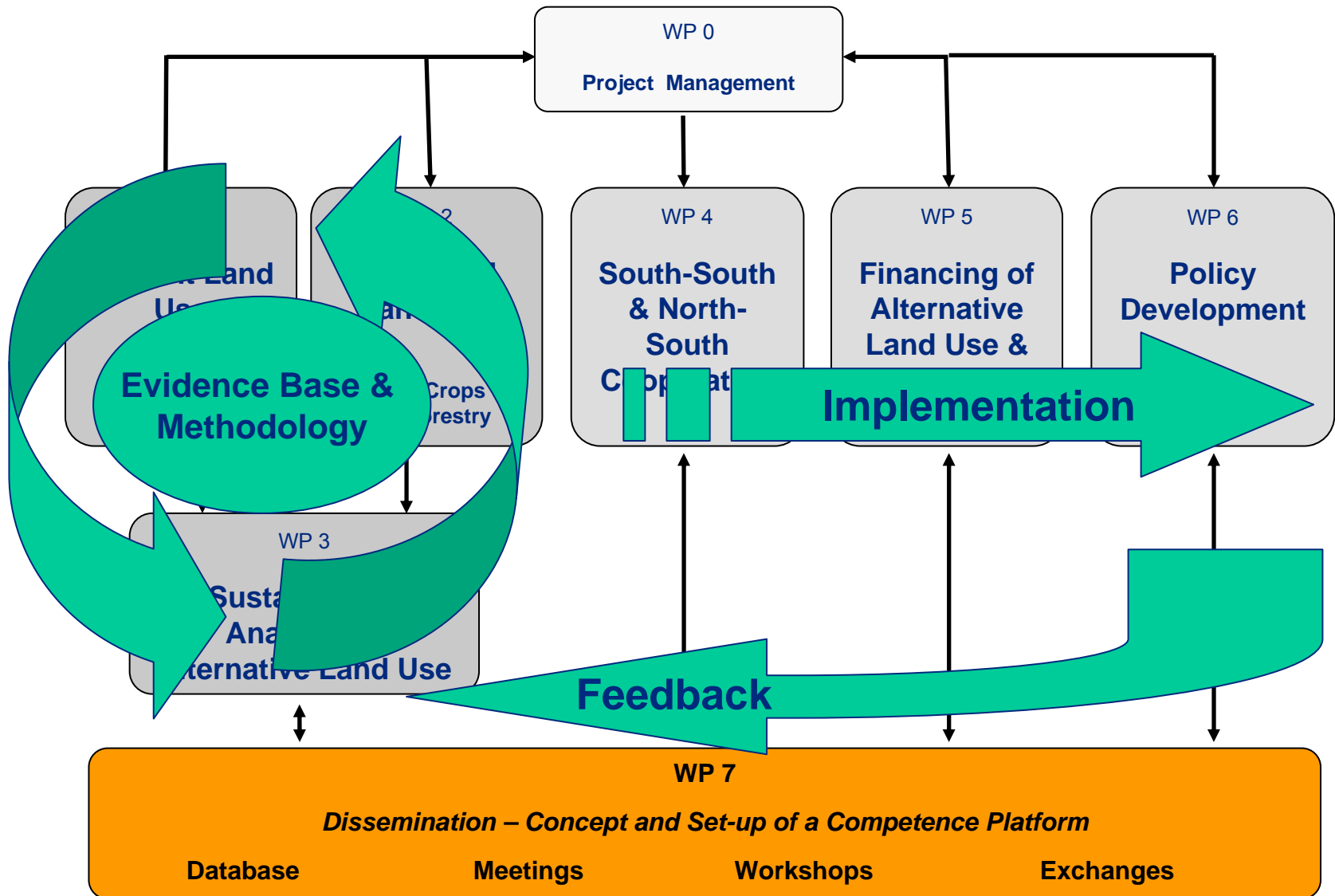
## Objectives of COMPETE



- Create a competence platform (network) for energy crops
- Exchange knowledge: Africa – EU – LAT – Asia
- Improve life quality for rural population in Africa
- Preserve arid/semi-arid ecosystems in Africa



# Project Overview







## Objective: Guarantee SUSTAINABLE biofuels

- Avoid generalisations creating a negative image of biofuels

**Turning food to fuel on the hungry continent**

**Ghana**  
A single firm plans to plant new plantations of substantially less geneticists with government support

**Benin**  
Millions of hectares of forest will be lost to be replaced by industrial and sugar crops to produce ethanol for export

**Ethiopia**  
Over 100,000 people are said to have been displaced by the government's industrial ethanol production

**Uganda**  
Government allows investors full of Malawi subsidies to undertake for ethanol plantations (after other permits)

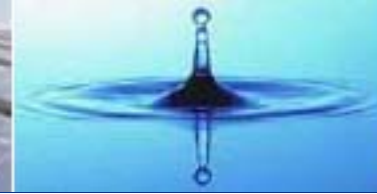
**Tanzania**  
Development of ethanol plantations and rice farming around Kigoma was not sugar crop and pesticide plantations

**Zambia**  
Thousands of 'cash crops' forced into debt to fill from cash crops to grow (including) produce for big investors

**Senegal**  
Ethanol production is the main source of income for the country



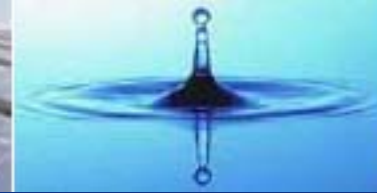
"Klimaschutz geht auch dich was an!"



## Sustainability in Africa

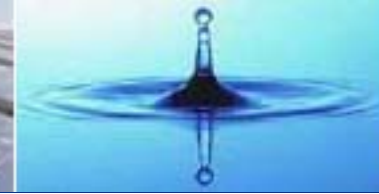
- Biofuels are now introduced at large scales in many African countries
  - Biofuel exports and local use of biofuels have the **potential to mitigate poverty** and to contribute to economic development!
  - Biofuel production can cause **negative social and environmental impacts!**
  - In order to avoid this, **sustainable biofuel production has to be ensured!**
- Challenge: **How can this be achieved without blocking development opportunities?**





## COMPETE Activities - 1

- **COMPETE Workshop on 'Improved Energy Crop and Agroforestry Systems for Sustainable Development in Africa',  
22 June 2007 in Mauritius**
- **COMPETE Participation at the First High-level Biofuels Seminar in Africa;  
A joint activity of the African Union Commission, Brazilian Government  
and UNIDO; 30 July to 1 August 2007 in Addis Ababa**
- **COMPETE Meeting and Roundtables in Burkina Faso  
26-29 November 2007 in Ouagadougou**
- **COMPETE Seminars and Field Visits to Brazil, India and Mexico  
October 2007, February 2008, and March 2009**
- **COMPETE Workshop on Financing of Alternative Land Use  
15 April 2008 Dakar, Senegal**



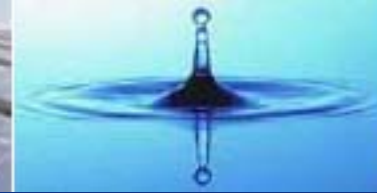
## COMPETE Activities - 2

- **COMPETE Conference and Policy Debate on 'Biofuel Sustainability Schemes - An African Perspective, 16-19 June 2008, Arusha, Tanzania**
- **COMPETE Workshop 'Bioenergy Policies for Sustainable Development in Africa', 25-27 November 2008, Bamako, Mali**
- **COMPETE Conference 'Bioenergy Policy Implementation in Africa', 26-28 May 2009, Lusaka, Zambia**
- **COMPETE Workshop 'Bioenergy for Rural Development in Africa and Asia', 30 June 2009, Hamburg, Germany**
- **COMPETE Conference ' Sustainable Bioenergy Projects in Africa – Barriers and Opportunities for Financing ', Sept/Oct. 2009, Dakar, Senegal**

# WIP







## Conference and Policy Debate on “Bioenergy Sustainability Schemes – An African Perspective



- 16-17 June 2008, Arusha, Tanzania
- Participation of high-level policymakers from several African countries (Kenya, Mozambique, Tanzania, Uganda, Zambia)
- Cooperation with international organisations and initiatives (RSB, FAO-BEFS, GTZ)
- Expected Result: **Policy Declaration on Sustainable Biofuels in Africa**
- Declaration available: [www.compete-bioafrica.net](http://www.compete-bioafrica.net)



# COMPETE Declaration on Sustainable Bioenergy for Africa



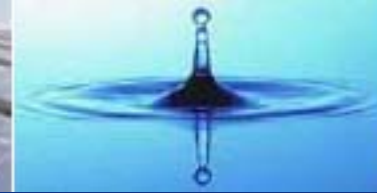
## Visions guiding policies for bioenergy development

- (a) Improve livelihoods for the rural population;
- (b) Increase energy access and income generation opportunities;
- (c) Make large-scale production of biofuels sustainable, involve communities, smallholders, cooperatives, local enterprises and foreign investors;
- (d) Improve agricultural practices and sustainable soil and land management

## Markets (local, national, international) for bioenergy development

- (a) Create policies and standards to facilitate and guide bioenergy market development favouring local over export markets in initial stages;
- (b) Give priority to small-scale projects and local markets (e.g. rural electrification, water pumping, transport fuels in agriculture); then,
- (c) Explore export, global markets and large-scale projects; In all cases, ensure value created for local farmers



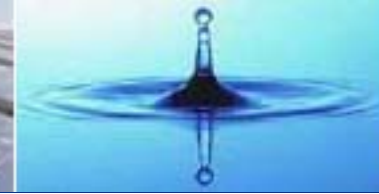


## Development of Land Use Strategies (Avoid Food-Fuel Conflict)

- (a) Include bioenergy in national land use plans and regulations;
- (b) Identify real potential of countries and regions to produce food, energy, materials and chemicals;
- (c) Map indigenous land use practices and build bioenergy development on existing knowledge and practices;
- (d) Identify appropriate use of land and water resources with respect to the local needs of rural communities

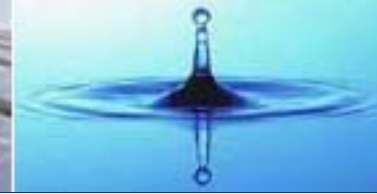
## Appropriate land tenure systems

- (a) Grant Concessions/ownership by national authorities for bioenergy projects focussing on rural and social development;
- (b) Avoid displacement of the rural population and
- (c) Avoid corruption regarding land use issues



## Capacity building and R&D

- (a) Collect and disseminate knowledge on policies and implementation strategies and implement clear strategies and regulations;
- (b) Built Agricultural and technical expertise, R&D on new crops and improved crop management systems and Scale up existing best practices



## COMPETE Documents

- **COMPETE Declaration on Sustainable Bioenergy for Africa, June 2008, Arusha**
- **COMPETE Bioenergy Policy Recommendation on Socio-economic Development and the Food-Fuel Conflict in Africa, May 2009, Lusaka**
- **COMPETE Best Practice Principles, May 2009, Lusaka**
- **Sustainable Bioenergy Projects in Africa: Barriers and Opportunities for Financing, Conference Report and Recommendations, September 2009, Dakar**
- **Practical Guidelines For Investors In Sustainable Bio-Energy In Africa, September 2009, Dakar**

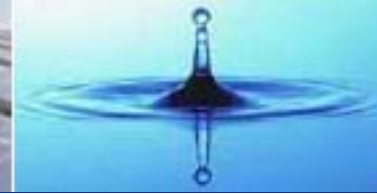
## COMPETE Follow-up

### Launch of Bioenergy Competence Platform for Africa

- COMPETE website under [www.compete-bioafrica.net](http://www.compete-bioafrica.net)
- Provision of information (reports, conferences, policy documents, etc.)
- Regular (bi-monthly) on-line newsletter
- Organisation of COMPETE conferences



- Join the platform as **Associated Partner**



## COMPETE Conclusions

- **There is sufficient arable land available in several African countries to produce food and biofuels**
- **African countries engage in activities to ensure sustainable biofuels production**
- **Main sustainability focus in African countries is on social criteria (local value added, land rights, food security, capacity building)**
- **International cooperation needed to ensure sustainable biofuels production without blocking development opportunities**



# WIP



## *Thank You!*

[www.compete-bioafrica.net](http://www.compete-bioafrica.net)



Dr. Rainer Janssen: [Rainer.Janssen@wip-munich.de](mailto:Rainer.Janssen@wip-munich.de)

Dipl.-Ing. Dominik Rutz M.Sc.: [Dominik.Rutz@wip-munich.de](mailto:Dominik.Rutz@wip-munich.de)



Universiteit Utrecht



*... and Partners*



[www.wip-munich.de](http://www.wip-munich.de)

COMPETE Conference, 24-25 November 2009, Brussels, Belgium

19