

# ROSA

## Resource-Oriented Sanitation concepts for peri-urban areas in Africa



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Contract No. 037025 (GOCE)

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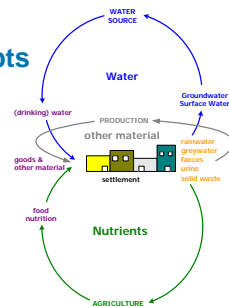
Duration: 1.10.2006 – 30.9.2009, Total budget: 2'900'000 EUR

### Project objectives

- to add to the current efforts for promoting resource-oriented sanitation concepts as a route to sustainable sanitation and to fulfil the UN MDGs,
- to research the gaps for the implementation of resource-oriented sanitation concepts in peri-urban areas,
- to develop a generally applicable adaptable framework for the development of participatory Strategic Sanitation and Waste Plans (SSWPs), and
- to implement resource-oriented sanitation concepts in four pilot cities in East Africa (Arba Minch, Ethiopia; Nakuru, Kenya; Arusha, Tanzania; and Kitgum, Uganda)

### Resource-oriented sanitation concepts

- wastewater is a resource and not waste
- closing water, nutrient, material, energy cycles on a local scale
- resource and reuse oriented
- single technologies are only means to an end
- liquid and solid waste are considered



### Project consortium

- BOKU - University of Natural Resources and Applied Life Sciences Vienna, Austria (Co-ordinator)
- Hamburg University of Technology, Germany
- EcoSan Club, Austria
- WASTE - Advisors on Urban Environment and Development, The Netherlands
- London School of Hygiene and Tropical Medicine, United Kingdom
- Makerere University, Department of Civil Engineering, Uganda
- University of Dar es Salaam, Department of Water Resources Engineering, Tanzania
- Egerton University, Department of Water and Environmental Engineering, Kenya
- Arba Minch University, Ethiopia
- Kitgum Town Council, Uganda
- Arusha City Council, Tanzania
- Municipal Council of Nakuru, Kenya
- Arba Minch Water Town Service, Ethiopia

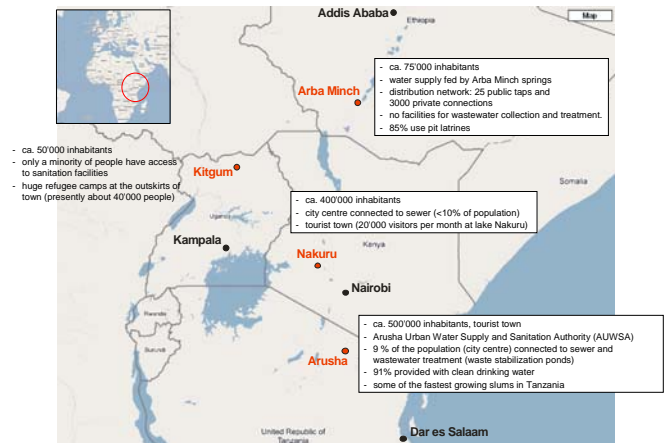
### Research topics

- are focussed on applied research for implementation in peri-urban areas
- study on the implementation of the updated WHO-guidelines for use of waste and excreta in agriculture (release in September 2006) in peri-urban areas and the integration of resource-oriented solutions in regulatory frameworks
  - development of operation and management strategies
  - development of decentralized solutions for greywater treatment in arid and semi-arid areas including the optimisation of constructed wetland design taking into account the local conditions
  - integration of resource-oriented sanitation into local settlement structures
  - development of local structures for financing of sanitation

### Project implementation

#### General characteristics of the pilot cities

- Lack of sanitation and waste management
- High population growth



#### Local project consortia

- starting with local university, municipality and a European partner
- involving local stakeholders, NGOs and CBOs from the very beginning
- creating local ownership

#### Time schedule

- Year 1:
- Assessment and baseline study
  - Development of a Strategic Sanitation and Waste Plan (SSWP) for the whole municipality
- Year 2
- Decision on the implementation in a selected area of the municipality
  - Implementation
- Year 3
- Operation and monitoring
  - Evaluation and adaptation

### Contact and information

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