

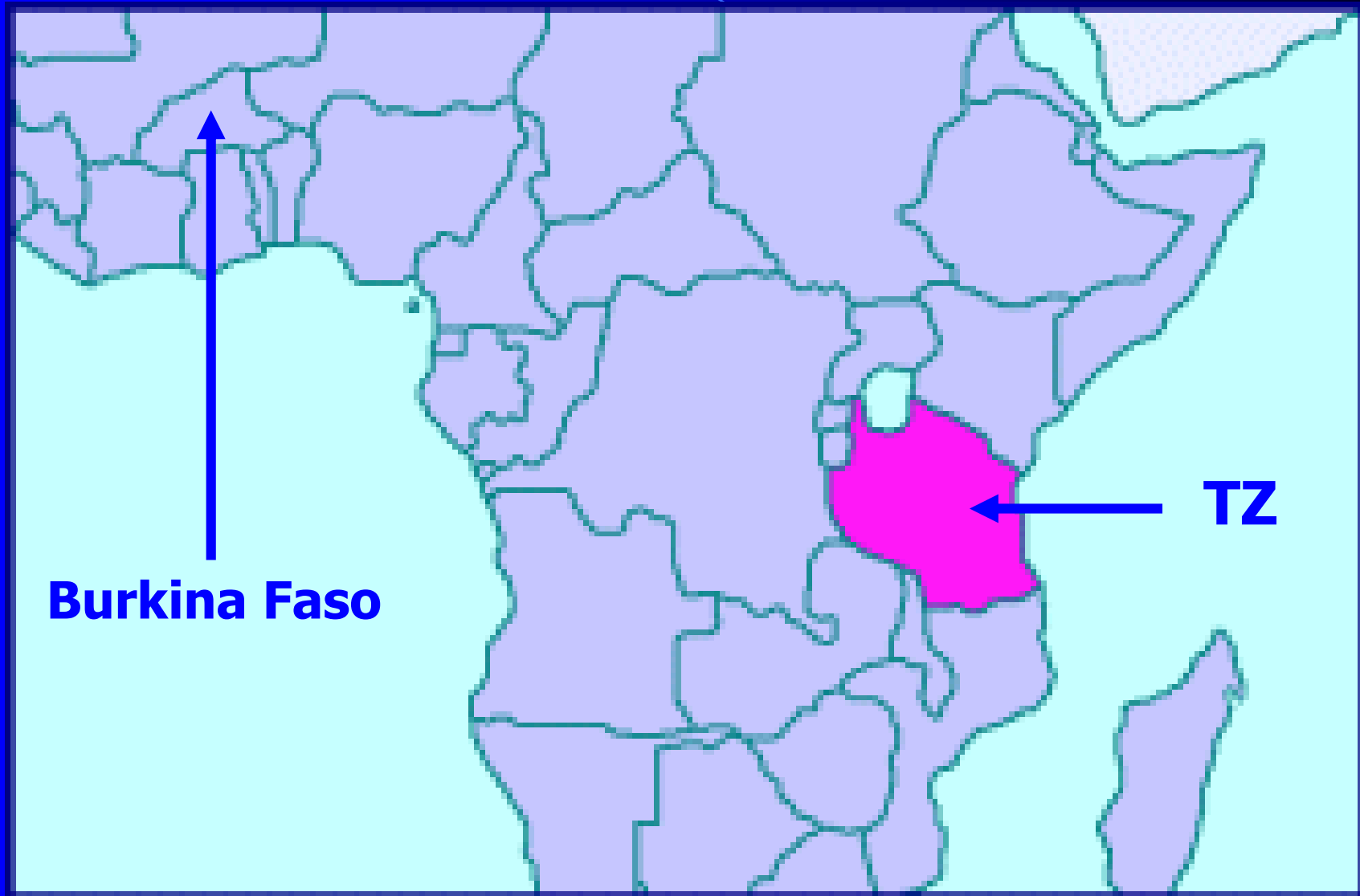


# WORK DONE TOWARDS IMPLEMENTATION OF SUSTAINABLE SANITATION IN ARUSHA

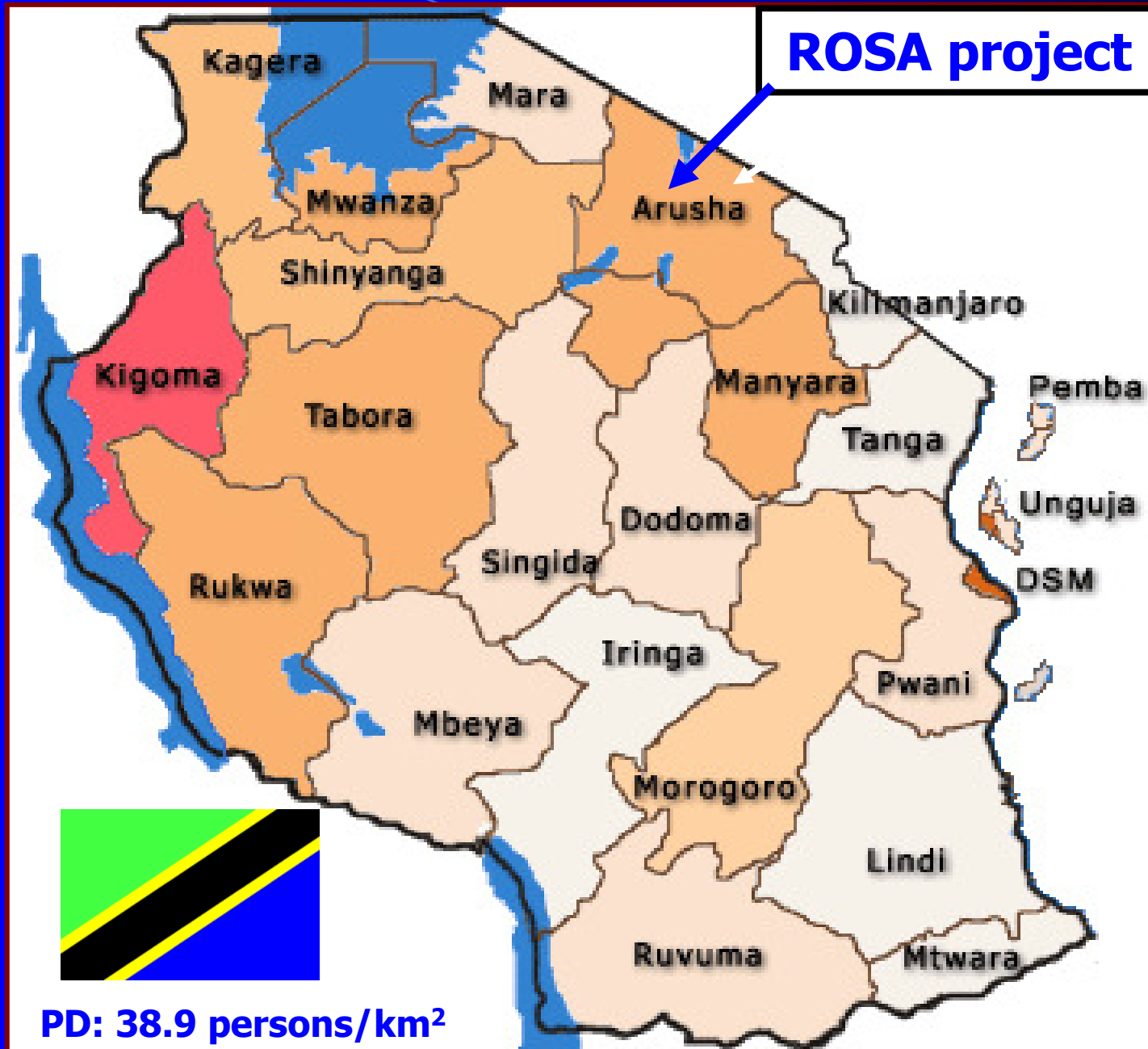
**NETSSAF INTERNATIONAL CONFERENCE-24-27 September, 2008  
Ouagadougou, Burkina Faso**

**By  
Senzia, M.A**

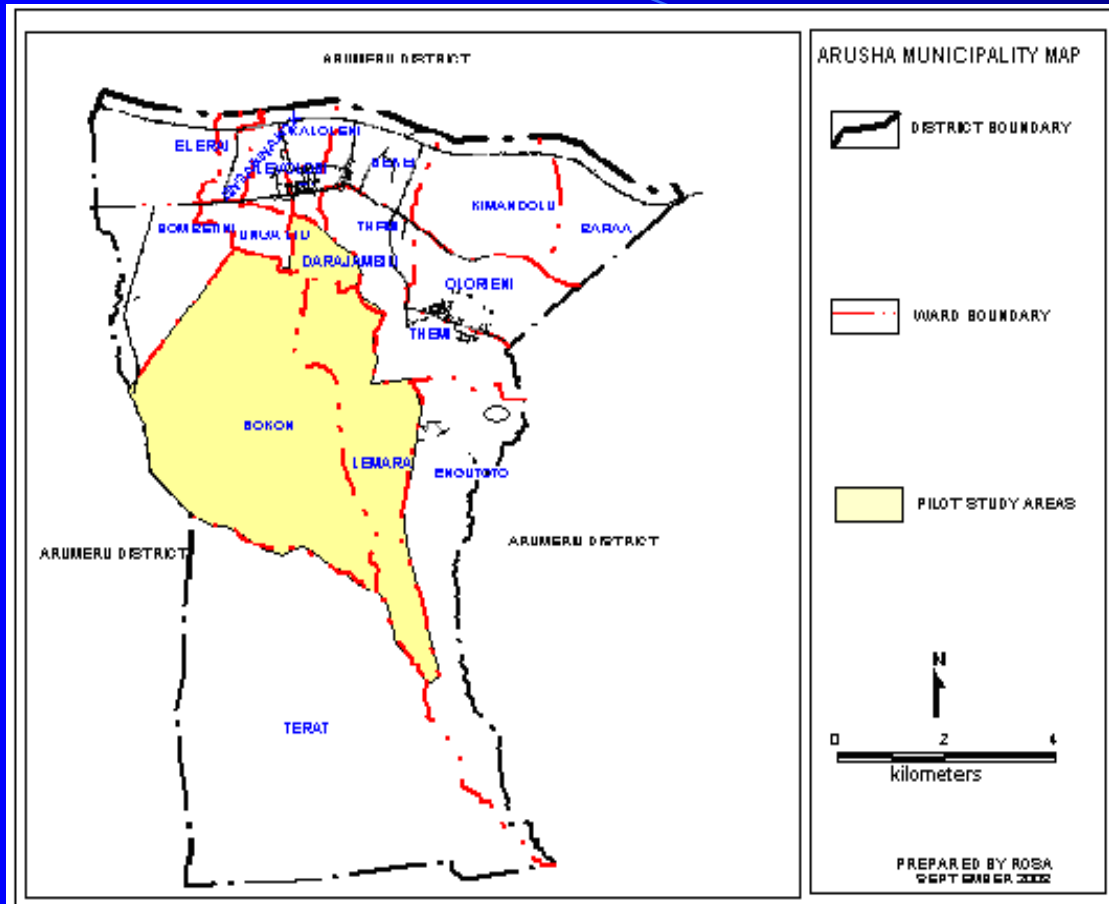
# POSITION OF TANZANIA IN AFRICA



# MAP OF TANZANIA SHOWING REGIONAL BOUNDARIES



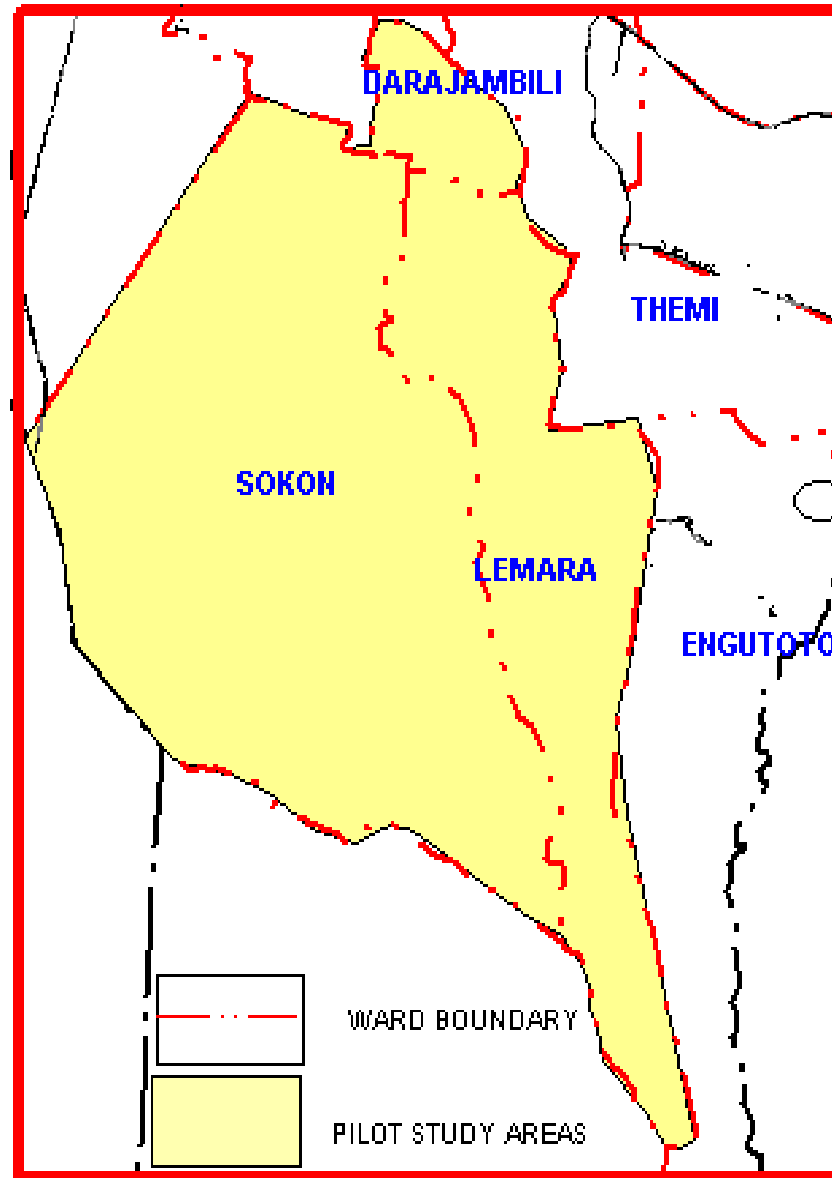
# MAP OF ARUSHA SHOWING STUDY AREA



**PD: 4,992.4 persons/km<sup>2</sup>**

**Economy: Tourism, Industries, Agric, Minerals**

## STUDY AREA



### Population Density

**-Daraja II: 30,458**

**-Sokon I: 4,016**

**-Lemara: 2,588**

# **MAIN ACTIVITIES AS PER ROSA PROJECT DELIVERABLES**

- **BASELINE SURVEY**
  - rapid assessment
  - detail survey
- **FORMATION OF LOCAL CONSORTIUM**
- **STRATEGIC SANIATION WASTE PLAN**
- **DECISION ON THE PILOT AREA**
  - Lemara, sokon I and Daraja II
- **IMPLEMENTATION OF SANITATION OPTIONS**
  - demonstration Units (UDDT)
  - exhibition—dissemination ( EIM)
  - Researches
  - Capacity buliding
- **OPERATION, MAINTENANCE AND MONITORING**
  - Demonstration gardens, O&M Manual

# **BASELINE SURVEY**

- **CITY RAPID ASSESSMENT**
- **DETAILED BASELINE SURVEY ON THREE WARDS**



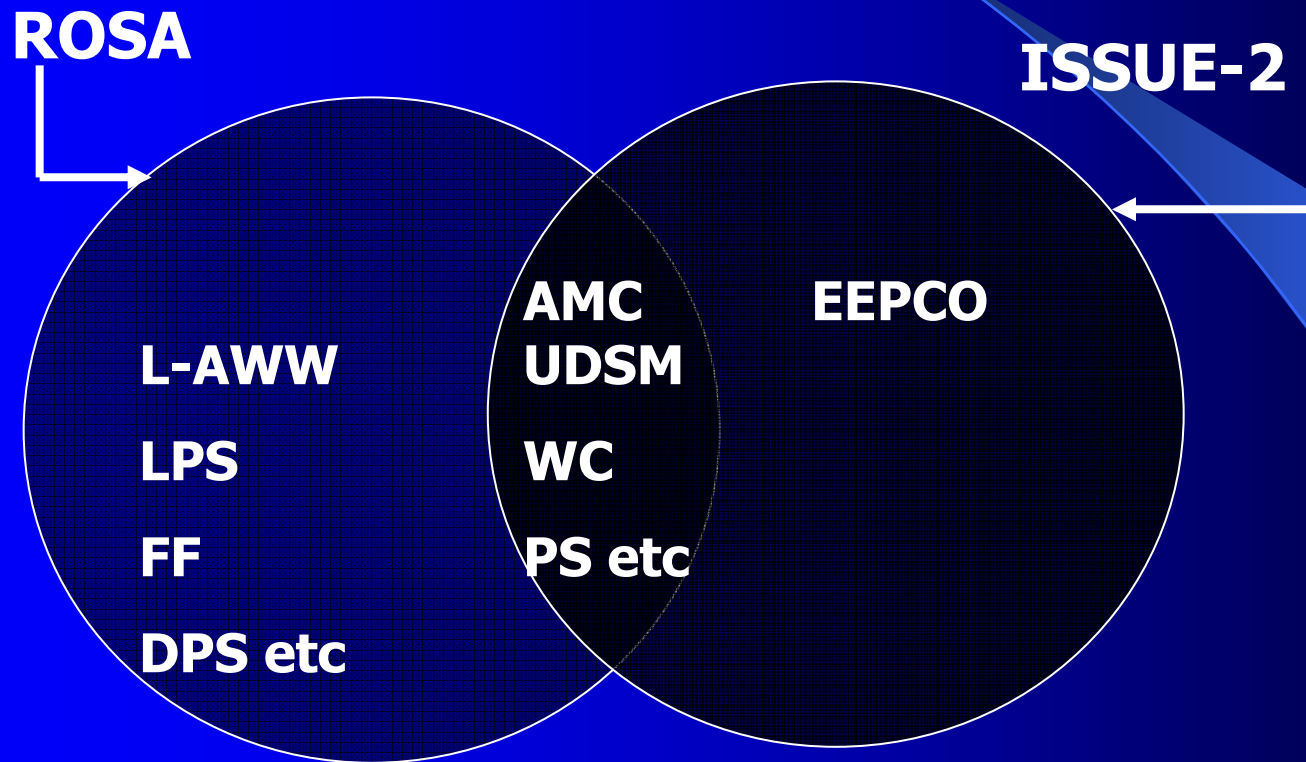
**Findings and lesson from baseline can be found  
from <http://rosa.boku.ac.at>**

# FORMATION OF LOCAL CONSORTIUM

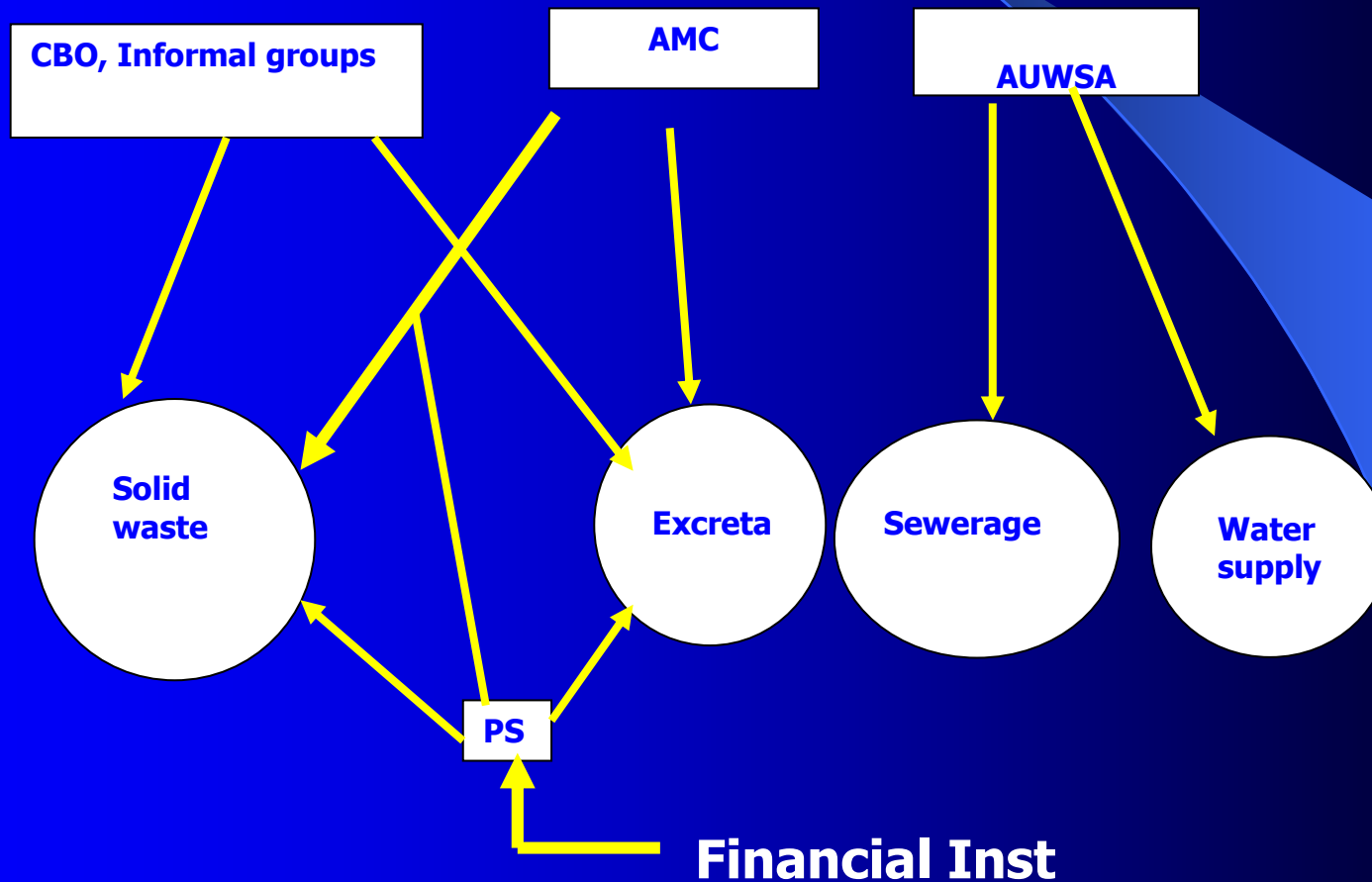
- **Municipal Council of Arusha (AMC)**
- **WASTE**
- **UDSM (Department of Water Resources)**
- **Arusha Water & Sewerage Authority (AUWSA)**
- **NMB, CRDB (National Banks)**
- **PS (Solid waste collector and emptier)**
- **Community Representatives – Ward based committees (WC)**
- **CARMATEC (R &D promotion adoption and dissemination)**
- **Lemara Association of water users (L-AWW)**
- **Lemara Primary School (LPS)**
- **Daraja II Primary School (DPS)**
- **Flowers farmers (FF)**



# ROSA & ISSUE-2 PROJECT



# Institutional setup



## **CAPACITY BUILDING**

- **Training of 32 artisans from project areas in construction of UDDT (ROSA & ISSUE-2)**
- **Training on O & M for UDDT to various stakeholders (ESCA)**
- **Training on solid waste composting techniques (WASTE)**
- **Recruitment of six assistant researchers**

# **STRATEGIC SANITATION AND WASTE PLAN**

## **CONTENTS OF SSWP**

- **Background of Arusha municipality**
- **Situation analysis**
- **sanitation problem analysis**
- **objective analysis**
- **Segmentation of Arusha municipality**
- **Possible Sanitation and reuse options**
- **Implementation strategies in each ward**
- **Financing sanitation options strategies**
- **Operation and maintenance strategies**

# RESEARCHES

- Health impact of the use of WSP effluent for crop production
- Socio economic impact on use of excreta for crop production
- O & M strategies
- Implementation of the concept in densely populated informal settlements
- Greywater re-use (quantity, quality)
- Financing of options

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**AIMING AT ANSWERING MOST FREQUENTLY  
ASKED QUESTIONS ( CHALLENGES)**

# CONSTRUCTED UDDTs

- **1- UNIT HH IN SOKON I (2 VAULTS)**
- **1- UNIT HH IN LEMARA (2 VAULTS)**
- **1- UNIT HH IN DARAJA II (2 VAULTS)**
- **1- UNIT INSTITUTION (ROSA OFFICE, 2 VAULT)**
- **2- UNITS (4 VAULTS)  
(DARAJA II P. SCHOOL)**
- **1-UNIT 88 GROUND (EXBITION PURPOSES)**

# UDDT in Daraja II Primary School





**Capacity building**



# How to use the UDDT





## O & M TRAINING



**DEMONSTRATION GARDEN**  
**In Lemara ward**

# EXHIBITION OF SQUATING UNITS



# LOCAL MADE UDSP

