

AFRICA POPULATION INSTITUTE (API) GIS INTERNATIONAL TRAINING REPORT,

Submitted by

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NAME OF TRAINING: Geographical Information Systems, SAGA Software Training

HOSTING INSTITUTION: Africa Population Institute

LOCATION: Kampala – Uganda – East Africa

DATES: From Monday 28th January to Friday 1st February 2019

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Background

The training was organized by Africa Population Institute Uganda in Conjunction with the Center for Earth System Research and Sustainability, Institute of Geography, University of Hamburg Germany and IGU Commission on Biogeography and Bio-Diversity. It was a One Week Intensive training in Geographical Information Systems(GIS) From Monday the 28th January to Friday 1st February 2019

Rationale

The goal of the training is to equip you with the relevancy and practical applicability of GIS in management of problems in such fields as health, agriculture, urban planning, education and environment conservation.

Objectives

The training intended:

- To equip the participants with hands-on experience on mapping and digital data collection, computerization and dissemination.
- To provide the state-of-the-art knowledge in Geographical Information systems as problem solving tool.
- To familiarize the participants with the usage of application in management using GIS software at various levels.
- To equip the researchers with the desired skills to handle interpret complex data collected by the GIS application for effective decision making

Methods

Lecture discussions accompanied with hands-on sessions, Case Analysis and Individual Exercises by sharing experience and most significant change stories. In order to acquire knowledge and skills in SAGA software, a conceptual framework was used to lead the presentations, exercises and discussion in the training. Various techniques for training were used to involve participants in learning. Also exercises and assignments were provided to stimulate learning by doing.

Curriculum

The training adhered to the curriculum which is elaborated in Table 1 below.

Table 1. The Training Schedule

	Monday 28th.	Tuesday 29th.	Wednesday 30th.	Thursday 31st.	Friday 1st.
10:00 to 12:00	Public Lecture by Prof. Schickhoff	SAGA Software and Data Installation, Import, Vector and Raster Data	Raster Data Mosaicking, Projecting, Calculating Terrain Parameter	Exercise GIS Application Hands-on	Exercise GIS in Biodiversity
01:00 to 04:00	Introduction Welcome SAGA/GIS, Basic Concepts	Vector Data Points, Lines, Polygons, Attributes	Remote Sensing Landsat Bands, NDVI derivation and other indices	Exercise GIS Application Hands-on	Exercise GIS in Biodiversity

List of Materials Distributed

PPP notes on:

1. Presentation and Public Lecture as were given by Prof. Schickhoff
2. Handout on GIS SAGA software by Dr. Jan-A. Weiberg
3. Various data and map extractions

Participants and Attendance

We emphasized attendance as a yardstick for everyone to achieve the above objects, we had to draft a training roaster to make sure no one dodges the any of the sessions. Whoever was missing in the class, we put it upon ourselves to call them in person. Each person was a guardian to another.

The advisory committee members

Prof. Dr. Suraj Mal; International Geographical Union(IGU) Commission Biogeography and Biodiversity
Prof. Buyinza Mukadasi Directorate of Graduate Training and Research, School of Post Graduate, Makerere University

Prof. Yazidhi Bamutaze Head of Geography Department Makerere University

Dr. Lydia Mazzi Kayondo Head, GIS Centre, CEDAT Makerere University

Dr. Joab Agaba College of Computing and Information Sciences Makerere University

Dr. John Mushomi Atwebembeire Department of Population Studies Makerere University

Dr. Bruce Rukundo, Senior Environmental Management specialist, Kampala Capital City Authority (KCCA)

Plan for follow-up activities.

The practical sessions were used to prepare participants to address some of the challenges when using SAGA software and GIS activities at work place. Also participants were given an opportunity to do their work. These two activities were aimed to provide participants capacity to use the software in their work even after training.

The training

should be conducted as a workshop. After three months of mainly classroom and practical sessions the GIS training should be conducted differently for motivation and involvement students.

The practical sessions should be made available to allow participants to observe and question some aspects in the GIS Saga. This could be arranged in the second work of the course after the first more theoretical sessions in the first week.

As we plan for the IGU international conference next year, all the participants pledged their support to the secretariat to help mobilize more participants for the future

Because of the crush program we did not issue the training evaluation forms for feedback but it was part of the program.

Pictorial









