



SMART

**SMART Basic User Training Workshop
II**

01 - 05 October 2018

College of African Wildlife Management, Mweka

Announcement

Background

The [SMART Partnership](#) is supporting the implementation of the SMART approach to protected area conservation, protection, and management. A suite of technical training tools has been developed and is utilized during trainings to help ensure successful achievement of technical and adaptive management expertise in the implementation of SMART that can be applied at site, national, and regional scales. All training courses also utilize these SMART-certified training materials to ensure that a high standard is maintained.

Training workshop

The College of African Wildlife Management, Mweka will host a SMART basic user training workshop II at Mweka. The workshop II is made possible due to support from United for Wildlife (UfW) Foundation and the Wildlife Conservation Society (WCS).

The objectives of the project are:

- Boost capacity of CAWM students and faculty, and government, non-governmental agencies and community organizations in East Africa to implement a SMART- based adaptive management approach to the operation, monitoring, and evaluation of protected areas
- Leverage SMART as a global platform to provide standardized measures of threat levels and enforcement efforts at priority wildlife sites across East Africa

Participants

Appropriate staff to receive this training would be individuals who are based at conservation sites and are involved in the entry of field patrol data onto computer, analysis & interpretation, management and/or administration of patrol data, or people in national offices who have direct responsibility for managing data coming from conservation sites. These individuals would hold positions such as:

- site-based data entry staff
- senior rangers who work with patrol data
- patrol supervisors
- park managers
- nationally-based enforcement data managers

Participants will need a minimum of basic English language skills, and computer literacy (able to operate a laptop or PC, and be familiar with Windows or Mac OSX operating systems). Ideally, participants would be capable of training other staff at your sites or departments.

Training objectives

- Understand the use of LEM as a tool to support conservation area protection activities.
- Be familiar with the SMART software and basic functions for creating a conservation area database, defining patrol mandates and other metadata, entry of patrol data, conduct basic analysis, reporting, and patrol planning.
- Be capable of training government and conservation NGO staff in use of the SMART software and approach at the field sites.

Content summary

1. Review LEM; what is it and how can it support protected area management?
2. Review of patrol data collection methodology and structure of the SMART database, and creation and management of base maps.
3. How to enter patrol data collected with GPS and forms into SMART, and how to download data collected using SMART phones and tablets into SMART.
4. How to create queries to get results, and how to use the reporting functions.
5. Managing the SMART database (backups, exports, adding in employees).
6. How to manage and archive files on the computer.

Prerequisites for training participants:

1. Good reading and listening English skills (training will be presented in English language)
2. Direct responsibility for training staff, previous training experience with protected area managements staff an advantage
3. Basic computer skills and familiarity with Windows or Mac OSX operating systems
4. Familiarity with law enforcement monitoring data an advantage

Proposed schedule¹

Day 1:	
09:00-09:30	Registration, welcome remarks, introductions and training outline
09:30-10:00	Presentation: Introduction to the Spatial Monitoring and Reporting Tool (SMART) for patrol data management
10:00-11:00	Interactive discussion: Overview of Law Enforcement Monitoring, What data to collect? Why? What is the benefit of having geo-referenced data? Importance of data management, Data quality, Information needs for the implementing agency Why SMART? Reasons for choosing SMART over other LEM monitoring tools
11:00-11:30	Break
11:30- 12:00	Introduction of training manual and format for the training Installation of the SMART software + Overview of SMART software
12:00-13:30	Lunch
13:30-15:00	Setting up the SMART database Data models – proposed generalized SMART data model for East Africa
15:00-15:30	Break
15:30-16:30	Defining parameters for the conservation area Patrol characteristics Creating maps of the conservation area
Day 2:	
09:00-10:30	Introduction and demonstration of SMART-Cybertracker mobile data gathering plug-in and configurable model
10:30-11:00	Break
11:00- 12:00	Data collection field exercise using GPS + patrol forms, and Cybertracker
12:00-13:30	Lunch
13:30-15:00	Data collection field exercise using GPS + patrol forms, and Cybertracker
15:00-15:30	Break
15:30-16:30	Demonstration of entering data into SMART.
Day 3:	

¹ Unless otherwise indicated, all sessions will be instructed/facilitated by CAWM Trainers under a close supervision of Antony Lynam.

09:00-10:30	Managing patrol data: Entering data from patrol forms, importing SMART-CT data
10:30-11:00	Break
11:00- 12:00	Basic data analysis – queries and summaries
12:00-13:30	Lunch
13:30-15:00	Basic data analysis – queries and summaries (continued)
15:00-15:30	Break
15:30-16:30	Overview of reports
Day 4:	
09:00-10:00	Lessons learned from implementing SMART at sites in Tanzania – reports from practitioners
10:00-10:30	Break
10:30- 12:00	Overview of other SMART applications (Planning, Intelligence, Entity Tracker, Independent Observations and Ecological Records)
12:00-13:30	Lunch
13:30-15:00	Administrative tasks for the data manager Data base management (setting up, backing up the database, backing up patrols, plans, intelligence) Data management – GPS raw data, photos.
15:00-15:30	Break
15:30-16:30	Preparing to set up your own SMART database using shapefiles, staff lists, patrol mandates, types and teams from your conservation area.
Day 5:	
09:00-10:30	Setting up your own SMART database
10:30-11:00	Break
11:00- 12:00	Setting up your own SMART database (continued)
12:00-13:30	Lunch
13:30-15:00	Setting up your own SMART database (continued)
15:00-15:30	Break
15:30-16:30	Adaptive patrol management – making the manager aware of SMART, roles and responsibilities of protected area staff in making SMART work as a

	management tool. SMART forum – how to ask questions about SMART and get answers from experts and practitioners
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Participant equipment and material requirements

Each participant must have access to the following class resources:

1. Desktop computer or laptop with original Windows or Mac OS software
2. GPS with batteries and data cables, if possible
3. Tablets/PDAs or rugged smartphone
4. Shape files (ArcGIS format) and staff lists of your conservation area.



**SMART Mobile Data Collection
Training Workshop II**

06 – 08 October 2018

College of African Wildlife Management, Mweka

Announcement

Background

The [SMART Partnership](#) is supporting the implementation of the SMART approach to protected area conservation, protection, and management. A suite of technical training tools has been developed and is utilized during trainings to help ensure successful achievement of technical and adaptive management expertise in the implementation of SMART that can be applied at site, national, and regional scales. All training courses also utilize these SMART-certified training materials to ensure that a high standard is maintained.

Training workshop

The College of African Wildlife Management, Mweka will host a SMART mobile data collection training workshop II at Mweka. The training workshop II is made possible due to support from United for Wildlife (UfW) Foundation and the Wildlife Conservation Society (WCS).

The objectives of the project are:

- Conduct SMART basic user training and specialist training in mobile data collection for CAWM students and faculty, and government, non-governmental agencies and community organizations in East Africa;
- Develop new training materials and adapt existing training materials for use in East Africa
- Leverage SMART as a global platform to provide standardized measures of threat levels and enforcement efforts at priority wildlife sites across East Africa

Participants

Appropriate staff to receive this training would be individuals who are based at conservation sites and are involved in the collection of field patrol data, management and/or administration of patrol data, or people in national offices who have direct responsibility for managing data coming from conservation sites. These individuals would hold positions such as:

- site-based data entry staff
- frontline staff involved in the collection of patrol data
- patrol supervisors
- park managers

Participants will need basic reading and writing capacity (English), familiarity with GPS, smartphones and basic computer skills, and be physically and mentally fit for patrol duties.

Training objectives

1. Understand the importance of data collection for gathering evidence for case management, law enforcement monitoring and adaptive patrol management.
2. Be able to use Global Positioning System (GPS) devices and digital cameras.
3. Be able to collect concise patrol data using Android-based handheld devices and Cybertracker App, and upload the data to SMART via a field laptop computer.
4. Be capable of training other staff in use of the mobile devices and Cybertracker

Content summary

1. Review of patrol data collection methodology using paper forms, GPS and digital cameras.
2. Learn use of configurable data models for data collection with SMART-Cybertracker.
3. Learn basic functions of rugged smartphones and devices.
4. How to upload patrol data to the computer.

Expected outcome: All participants know the importance of data collection, are familiar with techniques for collecting patrol data and are capable of collecting high-quality data from the field.

Proposed schedule²

Day 1:	Description
08:00-09:00	Introductions and explanation of the training course schedule.
09:00-09:30	Presentation: Introduction to Law Enforcement Monitoring (LEM) and the importance of data collection
09:30-10:00	Interactive discussion: information needs East African parks - What information is needed for effective park protection and management of endangered species? Overview of what data should be collected to get this information. Documenting evidence of illegal human activity, persons encountered, camps, vehicles, equipment, carcasses
10:00-10:30	Tea Break
10:30- 12:00	Presentation: Overview of SMART data model for East Africa; categories and attributes of data; human activity, wildlife, features, patrol position
12:00-13:30	Lunch Break
13:30-14:00	Presentation: Introduction to GPS and navigation
14:00-15:00	Presentation: Introduction to Cybertracker and handheld device for recording data
15:00-15:30	Tea Break
15:30-17:00	Practical exercise. First steps: practical exercise around the training room and site with handheld device
Day 2:	Description
08:30-08:45	Presentation: Overview of first day of training results
08:45-10:00	Practical exercise: Use of GPS for navigation with some target points around the training site.
10:00-10:30	Tea Break
10:30- 12:00	Practical exercise with Cybertracker around the training site documenting crime scenes
12:00-13:30	Lunch Break
13:30-15:30	Uploading data to SMART via the field laptop computer
15:30-16:00	Tea Break
16:00-16:30	Continuation on uploading data to SMART via the field laptop computer
16:30-17:00	Debrief on patrol effort and observations
Day 3:	Description
08:00-12:00	Practice data collection using Cybertracker equipped handheld devices on a half day foot patrol exercise along trails (suggested 3-4 km max)
12:00-13:30	Lunch Break
13:00-14:00	Upload data from CyberTracker to SMART database and verification of data collected, correction of problems and issues.
14:00-15:00	Debriefing on the patrol effort and observations, experiences.
15:00-16:30	Interactive discussion: Next steps for implementing SMART data collection; expectations of patrol leaders and teams.

² Unless otherwise indicated, all sessions will be instructed/facilitated by CAWM Trainers under a close supervision of Antony Lynam..

Participant equipment and material requirements

1. Android-based smartphones (Blackview BV6000, Cedar CT5 or equivalent specs)
2. Global Positioning System (GPS) devices
3. Local topographic map sheets for training sites
4. Laptop computers (for SMART data entry)

Training Costs

There will be no training fee charged to selected candidates. The project will provide a training allowance to each candidate for eight (8) training days which may serve as a subsistence allowance during the two training workshops. However, the selected candidates will be required to cater for their return travel expenses.

Registration for the Course

To register your interest in attending this course please submit your CV (max. 2 pages) and a motivational letter which include details of how you think attendance in the two back-to-back training workshops [**SMART Basic User Training Workshop II (01st – 05th October 2018)** and **SMART Mobile Data Collection Training Workshop II (06th – 08th October 2018)**] will support your work and career development. Please email your application in Microsoft Word or PDF format at antipoaching_p@mwekawildlife.ac.tz

Application deadline

Applications should reach us not later than 22nd September 2018