

**TOOLS TO SUPPORT THE
MANAGEMENT AND
INVENTORYING
OF IVORY STOCKPILES**

JULY 2019

Benefits of an up-to-date inventory

- Comply with CITES requirements
- Comply with national legal requirements
- Support law enforcement
 - Evidentiary values;
 - Accountability + stock control;
 - Improved understanding of poaching hotspots and trafficking routes
- Information for wildlife management



CITES' requirements relating to Ivory Management

- “Maintain an inventory of government-held stockpiles of ivory and, where possible, of significant privately held stockpiles of ivory within their territory, and inform the Secretariat of the level of this stock each year before 28 February, *inter alia* to be made available to the programme Monitoring the Illegal Killing of Elephants (MIKE) and the Elephant Trade Information System (ETIS) for their analyses”

CONF. 10.10 (REV CoP 17)

REGARDING TRADE IN ELEPHANT SPECIMENS

CITES' requirements relating to Ivory Management

- “RECOMMENDS that whole tusks of any size, and cut pieces of ivory that are both 20 cm or more in length and one kilogram or more in weight, be marked by means of punch-dies, indelible ink, or other form of permanent marking, using the following formula:

country-of-origin two-letter ISO code, the last two digits of the year / the serial number for the year / and the weight in kilograms (e.g. KE 00/127/14)

- The result is a unique number for each piece of marked ivory. This number should be placed at the ‘lip mark’, in the case of whole tusks, and highlighted with a flash of colour.

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REGARDING TRADE IN ELEPHANT SPECIMENS

CITES' requirements relating to Ivory Management

The report to the Secretariat on stockpiles should indicate:

- the number of pieces;
- the weight of each piece;
- their markings;
- the source of the ivory; and
- the reasons for any significant changes in the stockpile compared to the preceding year.



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REGARDING TRADE IN ELEPHANT SPECIMENS

Ivory Management tools available

1. Protocol for Planning and Conducting Ivory Inventories*
2. Stockpile Management System (SMS) – a digital ledger**



*Developed by Stop Ivory, the Elephant Protection Initiative, EY, Save the Elephants, Bityarn Consult, and Born Free

**Developed by Stop Ivory and the Elephant Protection Initiative

1. The Inventory Protocol

1.1 Inventory Protocol

- A tool for **planning** and **carrying out** an inventory
- Outlines decisions to be made before conducting an inventory
- Describes the process to conduct an inventory
- Enables range state compliance with CITES requirements
- Enables collection of important scientific data for conservation

1.1 Inventory Protocol

Freely available to download from

<https://www.elephantprotectioninitiative.org/resources/>

Versions in English, French and Portuguese.

1.2 Using the Protocol

- a) Planning: Understand what currently happens
- b) Planning: Decision making
 - ID Coding format?
 - Data to collect?
 - Sampling for DNA?
 - Data recording method?

Outcomes:

- ⇒ Inventory Protocol developed
- ⇒ Updated Standard Operating Procedures for ivory management
 - Including: inventory and stock checks/audit procedures

1.2 Using the Protocol

c) Planning: logistics and equipment

- Space available for conducting inventory
- Teams required (2-3 people per team; security)
- Time required for the inventory
- Equipment needs



1.2 Using the Protocol

d) Conducting the inventory

- Training
- Daily Briefing
- Data controls
- Data checking

e) Maintaining the inventory

Once the inventory is completed, each new item arriving at a storeroom, should be added into the inventory (SMS) the same day.

Each movement in or out of the storeroom should be recorded in the SMS.



2. Stockpile Management System (SMS)

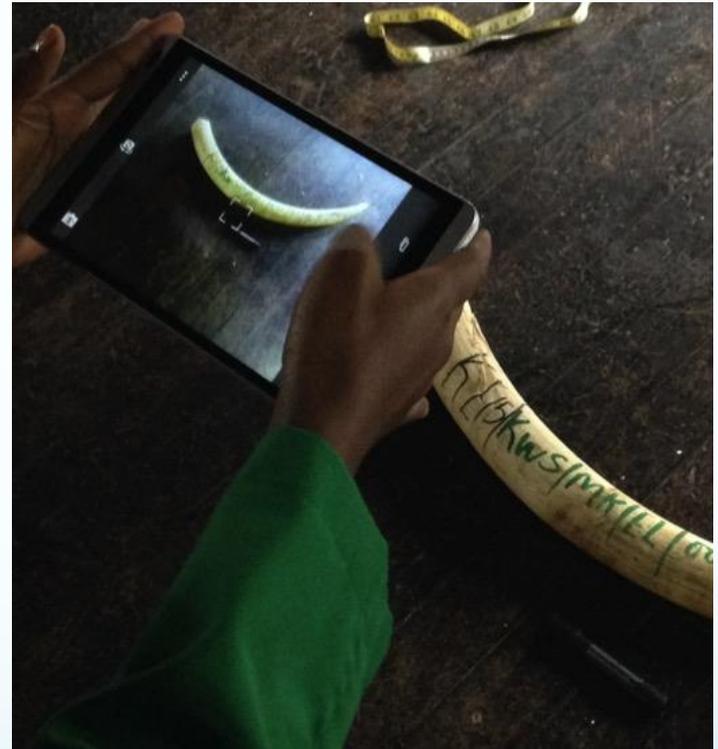
2.1 Stockpile Management System (SMS)

Stockpile Management System: an App-based technology to record data and manage stockpiles.

- Consists of an App and a Server
- Enables rapid data recording from any location, including photographs
- Intuitive and therefore easy to use
- Allows real-time wireless upload and analysis of data
- Training for non-computer literate operators in less than 15 minutes

2.2 SMS: the App

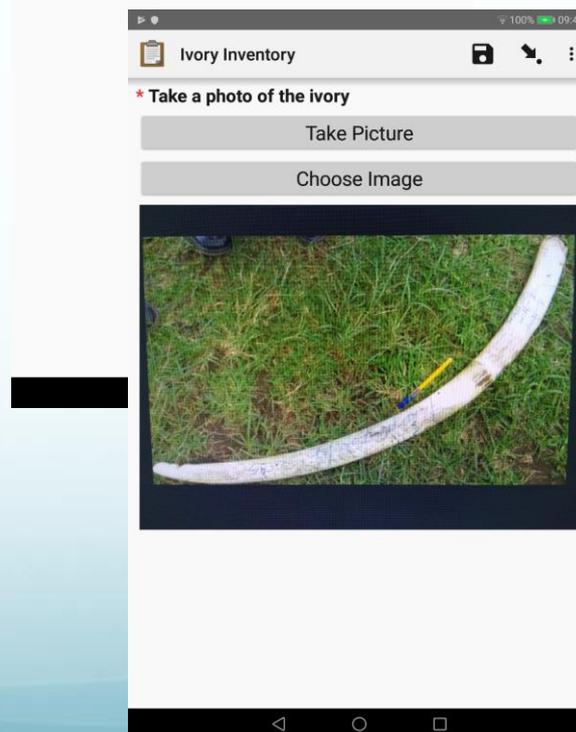
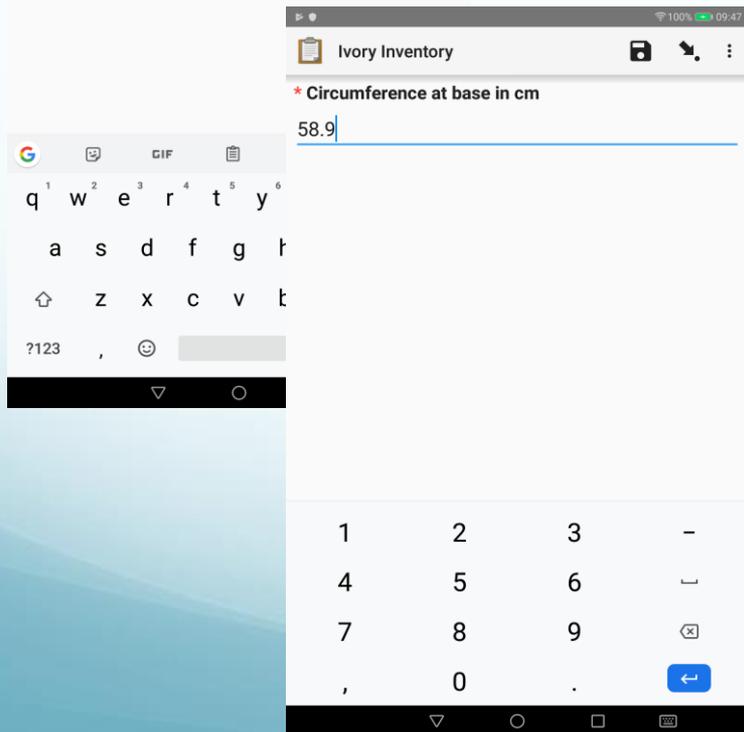
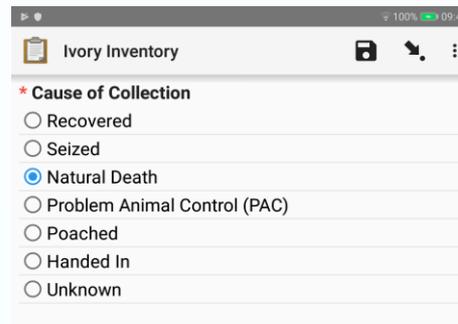
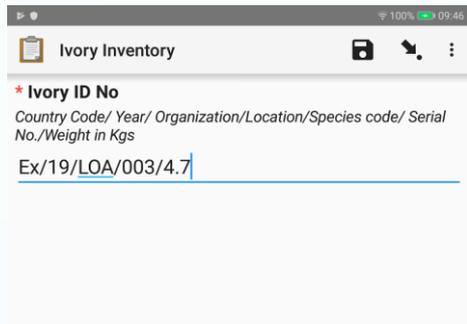
- App to digitally record information about an item
- Data linked to a photo of the item
- Data fields customised to requirements
- Works on Android phone or tablet
- Takes 15 minutes to learn
- Doesn't need Wi-Fi or data to work. Compresses the data to upload to server using mobile data or Wi-Fi when tablet is in areas of connectivity



2.2 SMS: the App

Screen shots of the App

All data fields customizable



2.3 SMS: the Server

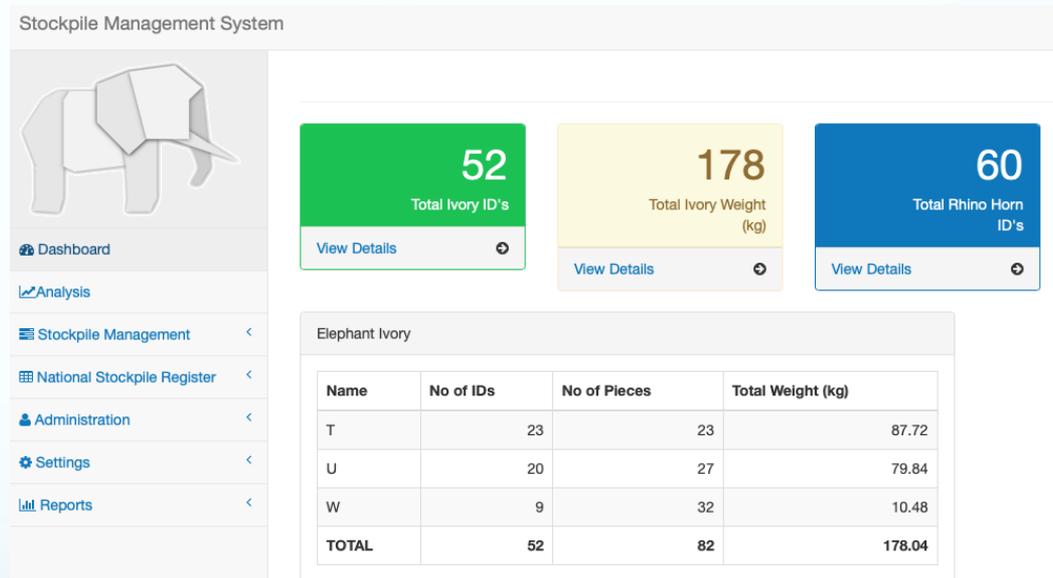


Sign in

- The Server collates the data from the different storerooms using the SMS App
- Server can be hosted on a secure encrypted iCloud or on a local server in-country
- Used for Ivory, Rhino Horn or other wildlife products. Forms for other items can be developed
- Available in English, Portuguese and French. Other languages possible on request

2.3 SMS: the Server

- SMS can be customized to meet the users needs – including what data is needed to be collected
- New functions added to server/App upon request and shared to all users



2.3 SMS: the Server

- Excel style view of all the data. Data seen is customizable
- Each item can be opened to view all its details, history and photo

IvoryID	Other code	Description	ivoryitem	Weight (kg)	Outer Length	cbase	inc
EX/18/NP1/011/2.76			T	2.76	81	24	64
EX/18/NP1/012/3.62			T	3.62	110	20	84
EX/18/NP1/013/9.34			T	9.34	149	33	12
EX/18/NP1/014/2.26			T	2.26	85	18.5	65
EX/18/NP1/015/2.72			T	2.72	60	21	55

EX/18/NP1/003/7.08	
IvoryID	EX/18/NP1/003/7.08
Description	
Ivoryitem	
Weight (kg)	7.08
Outer Length	101.5
cbase	25
Incurve	97
daterecovered	2018-01-01 12:15:00.000
storageref	Shelf
Storage_Number	3
reviewer	Example
descworked	
desctusk	
otherworked	
cause_of_collection	



- Data can easily be exported into Excel
- Data can be filtered to find specific pieces

2.3 SMS: Analysis

Elephant Ivory

By Current Storage Location

Copy CSV PDF Search:

	No of Inventory IDs	No of Pieces	Total Weight (kg)
District storeroom 1	4	4	6.98
District storeroom 2	5	12	14
HQ	11	34	31.22
National Park 1	24	24	103.66
National Park 2	5	5	17.9
Police station A	3	3	4.28
TOTAL	52	82	178.04

Showing 1 to 6 of 6 entries

- Easy to view real time summaries of data
- Easy to export the data as a PDF report

- Function available to design your own reports

Filter ×

Other code	<input type="text"/>	Group By (For Summarised Reports):	
Start	<input type="text"/>	<input type="checkbox"/> Other code	<input type="checkbox"/> Start
End	<input type="text"/>	<input type="checkbox"/> End	<input type="checkbox"/> location
location	<input type="text"/>	<input type="checkbox"/> Ivoryitem	
Ivoryitem	<input type="text"/>	Fields to Show (For Detailed Reports):	
daterecovered	<input type="text"/>	<input type="checkbox"/> IvoryID	<input type="checkbox"/> Other code
		<input type="checkbox"/> Start	<input type="checkbox"/> End
		<input type="checkbox"/> Username	<input type="checkbox"/> location
		<input type="checkbox"/> Description	<input type="checkbox"/> Ivoryitem
		<input type="checkbox"/> Weight (kg)	<input type="checkbox"/> Outer Length
		<input type="checkbox"/> cbase	<input type="checkbox"/> Incurve
		<input type="checkbox"/> daterecovered	<input type="checkbox"/> storageref
		<input type="checkbox"/> Storage_Number	<input type="checkbox"/> reviewer
		<input type="checkbox"/> cause_of_collection	

Filter

2.3 SMS: Access

- Each user has their own password protected log in
- User access managed by designated administrator in-country
- Each user has defined access rights to determined data and functions. (e.g. a storeroom manager can only see their data).

Userlocations

Show 10 entries

Copy CSV Print PDF

Search:

#		Other	Hq	National Park 1	National Park 2	District Storeroom 1	District Storeroom 2	Police Station A
1	Admin	<input checked="" type="checkbox"/>						
2	Gatheru	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Ruth	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	Si	<input type="checkbox"/>						
5	Np Manager 1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. SMS implementation process



3.1 SMS: Implementation Process

- a) Planning with EPI Foundation technical team – using the Protocol
- b) (Fundraising if needed)
- c) Customization of SMS + importing existing digital data
- d) Equipment procurement
- e) Training courses
 - Users (store managers, wardens) on data collection, using the App and the Server (2 days)
 - SMS administrators to manage it (2-3 days)
- f) Inventory or stock check
- g) Regular use of the SMS with technical assistance available upon request

Find out more

Documents available:

- www.elephantprotectioninitiative.org/resources/

- Or contact

info@elephantprotectioninitiative.org