



SMART

Spatial Monitoring and Reporting Tool

A site-based approach to monitor, evaluate and improve the effectiveness of conservation management



Site-based protection

Frontline Conservation Staff
more effective protection



Protected Area Managers
more effective coordination

Indigenous and Local People
support community-based management



Results-Based Management





SMART software



Patrol Effort Summary by Leader

This table summarizes patrol effort for a given time period by Patrol Leader
2012-07-16 to 2012-11-03

Leader	No. of Patrols	No. of Days	Distance (km)	No of Hours	Percentage
smart smart [198000055]					
dataentry dataentry [195000060]					
analyst analyst [195000061]					
manager manager [195000062]					
admin admin [195000063]					
Dana Owens [SMART1]	4	8	66.31	192	103%
Ellen Cohen [SMART2]					
Roger Barrett [SMART3]	1	1	0.00	24	48
Paul Hewson [SMART4]	2	2	220.75	48	168
Rawlston Gordon [SMART5]	1	1	8.01	24	72
Johnny Hendrix [SMART6]					
Cherilyn Sarkisian [SMART7]					
Gordon Sumner [SMART8]					
John Gillis [SMART9]					
Robert Zimmerman [SMART10]	1	1	10.73	13	65



Elephant poaching

Nov 2, 2012 11:10 AM

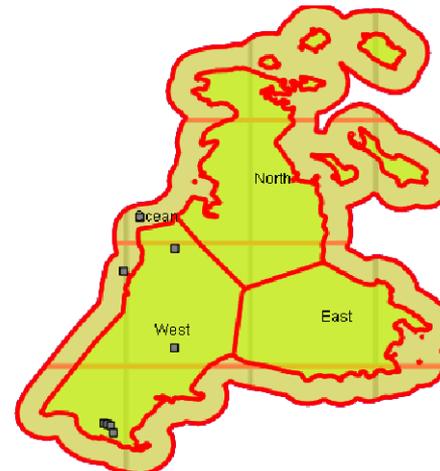
2012-07-16 to 2012-11-03

This table summarizes distribution of poached elephant carcasses

Summary of patrols that observed elephant carcasses

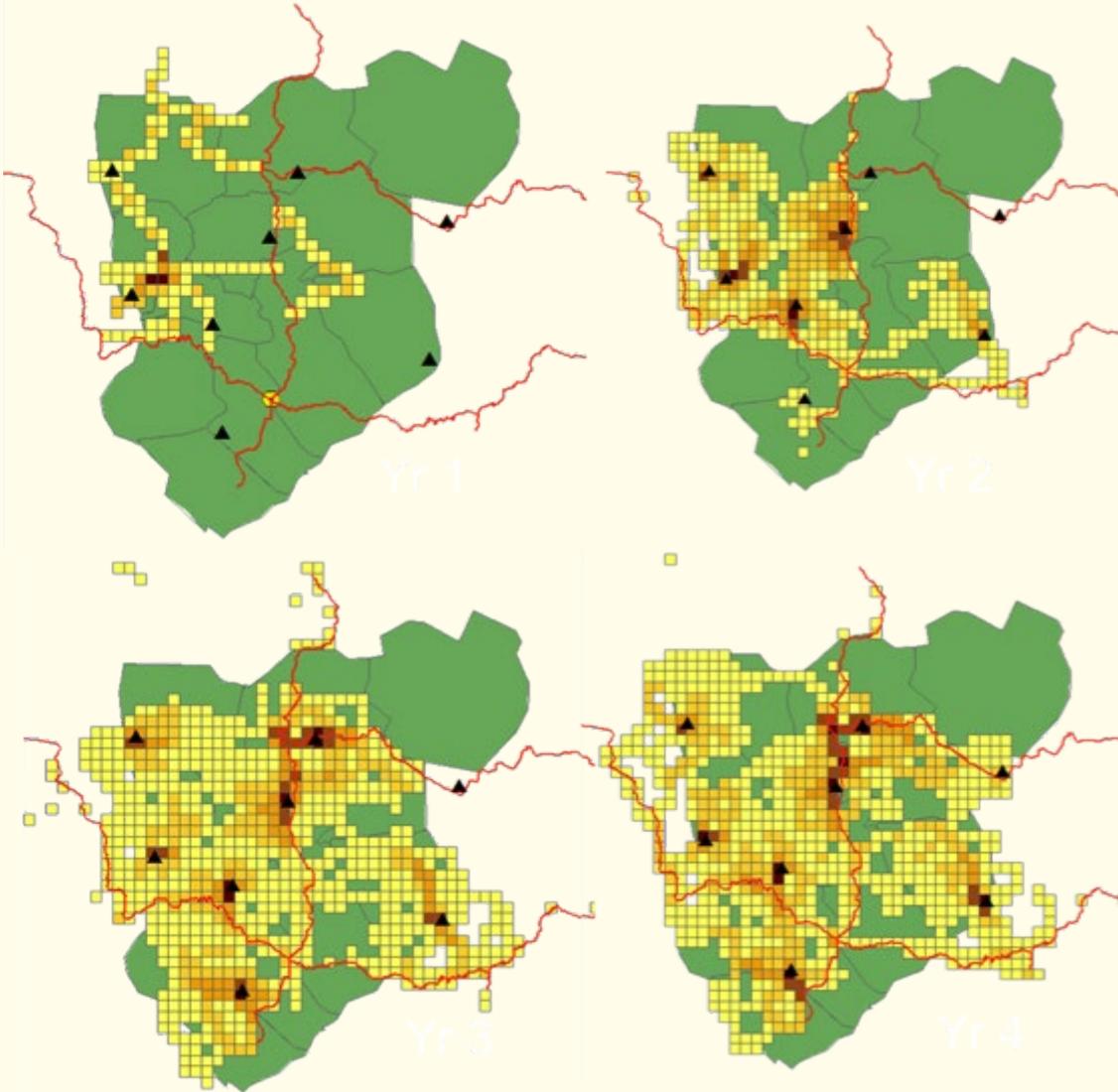
Patrol ID	Type	Patrol Start Date	Patrol End Date	Station	Team
SMART_000001	Ground	Sep 2, 2012	Sep 2, 2012	HQ	Team 1
SMART_000007	Ground	Jul 22, 2012	Jul 24, 2012	Patrol Station 2	Team 3
SMART_000007	Ground	Jul 22, 2012	Jul 24, 2012	Patrol Station 2	Team 3
SMART_000007	Ground	Jul 22, 2012	Jul 24, 2012	Patrol Station 2	Team 3
SMART_000007	Ground	Jul 22, 2012	Jul 24, 2012	Patrol Station 2	Team 3
SMART_000003	Air	Jul 19, 2012	Jul 19, 2012	HQ	Team 1
SMART_000006	Air	Jul 16, 2012	Jul 16, 2012	HQ	Team 1
SMART_000006	Air	Jul 16, 2012	Jul 16, 2012	HQ	Team 1

Distribution of poached elephant carcasses



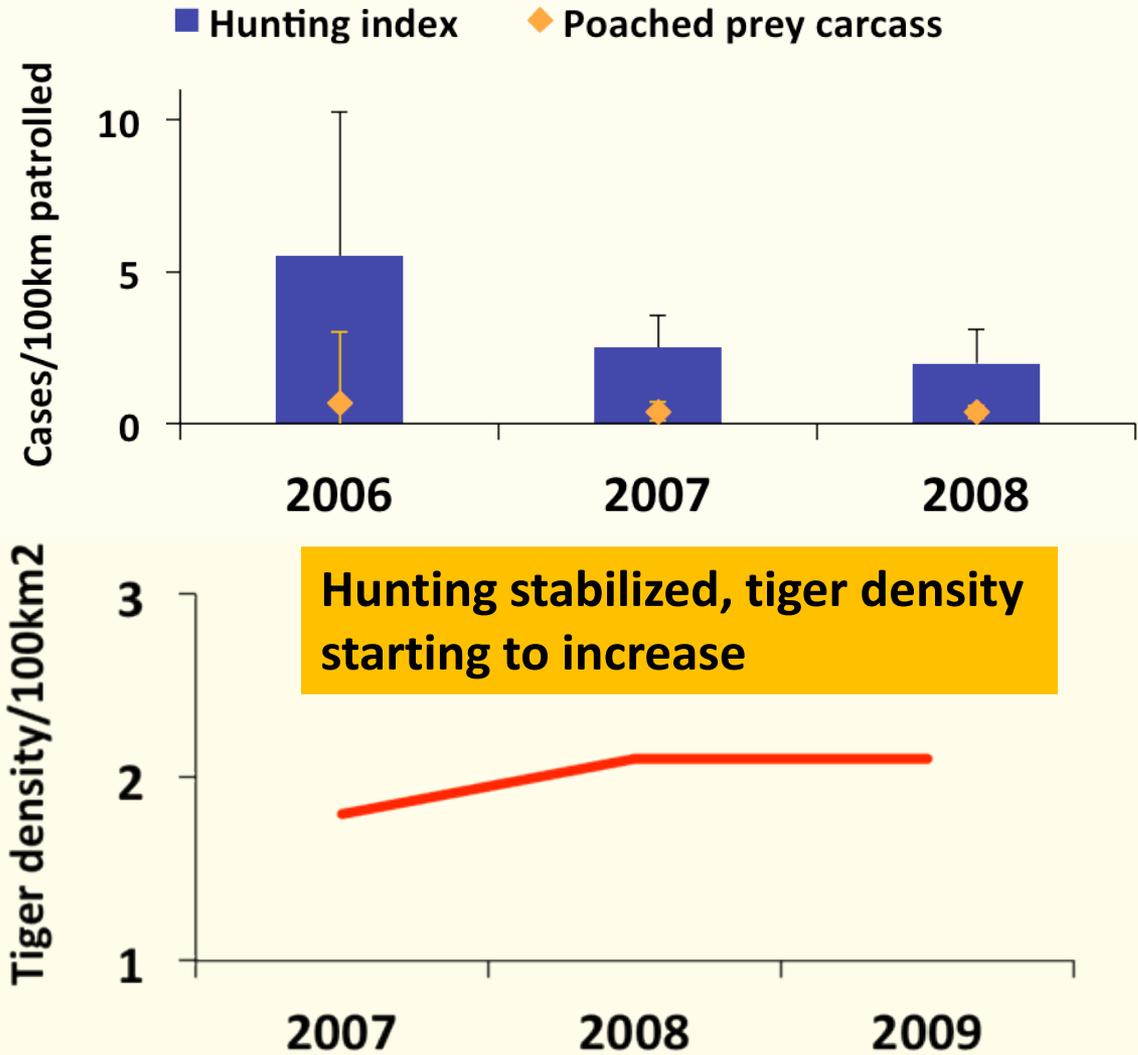
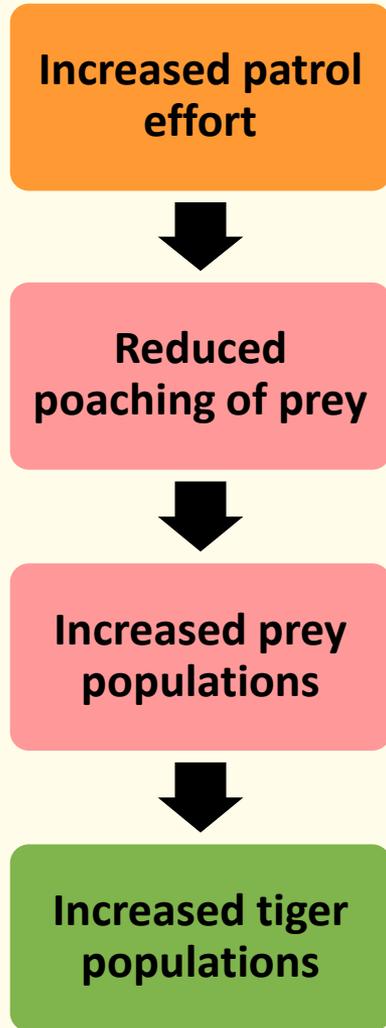


Evaluating patrol performance





Evaluating enforcement effectiveness





What SMART does that other systems don't

- **Standardized:** Incorporates standards for all aspects of law enforcement monitoring
- **Intelligence:** Fully integrated into protection activities
- **Planning:** Comprehensive planning and evaluation functions
- **Analysis:** Powerful analysis and reporting engine
- **Flexible:** Adaptable to local contexts and languages





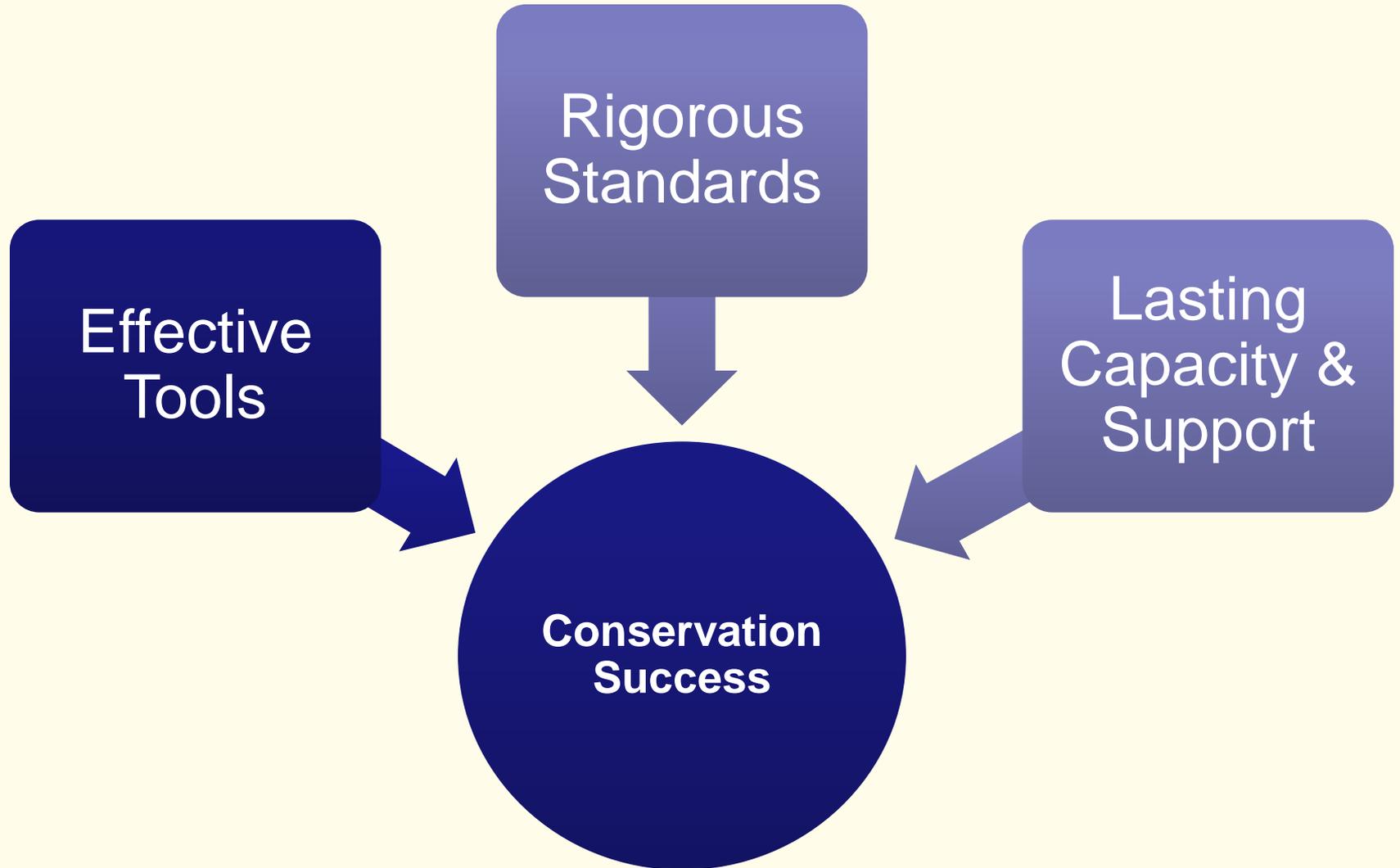
What SMART does that other systems don't

- **Extensible:** A powerful platform and plugin framework to enable extension to include other aspects of conservation area management
- **Training:** Suite of training materials, and a growing cadre of trainers in Africa, Asia, Latin America, Europe and North America
- **Sustainable:** community-owned, open-source and supported, long-term vision
- **Compatible:** Tools to import legacy data





The SMART Approach





SMART Partnership

- Unique collaborative effort
 - The whole is greater than the sum of its parts
 - Built on a common vision and philosophy
- Measurable impact
 - SMART measures itself!
- Global scale of implementation





SMART Partnership Vision

Effective management of conservation areas delivered through global implementation of tools and standards

- *Developing and maintaining SMART software functionality*
- *Providing tools to secure adoption by implementing agencies*
- *Developing protection standards*
- *Partner outreach and coordination*



SMART Software



SMART

Conservation Area:

User Name:

Password:

[Advanced...](#)



SMART software

SMART : HKK - Training

File Conservation Area Patrol Query Report Planning Help

smart smart

Layers

- Management Sectors
- Buffered Management Area
- Conservation Area Boundary
- Patrol Sectors
- Administrative Areas

SMART Map View

98.6252, 15.0727 | 1:669,397 | WGS 84

The image shows a screenshot of the SMART software interface. The main window displays a map titled 'SMART Map View'. The map shows a large, irregularly shaped area filled with a brown color, representing a Management Sector. This area is surrounded by a thick, pink, irregularly shaped boundary, representing the Buffered Management Area. Within the brown area, there are several smaller, irregularly shaped areas outlined in green, representing Patrol Sectors. The interface includes a menu bar at the top with options like 'File', 'Conservation Area', 'Patrol', 'Query', 'Report', 'Planning', and 'Help'. Below the menu bar is a toolbar with various icons. On the left side, there is a 'Layers' panel with a list of layers and checkboxes. At the bottom right, there is a status bar showing coordinates (98.6252, 15.0727), a scale (1:669,397), and a coordinate system (WGS 84).



Phase II Functionality

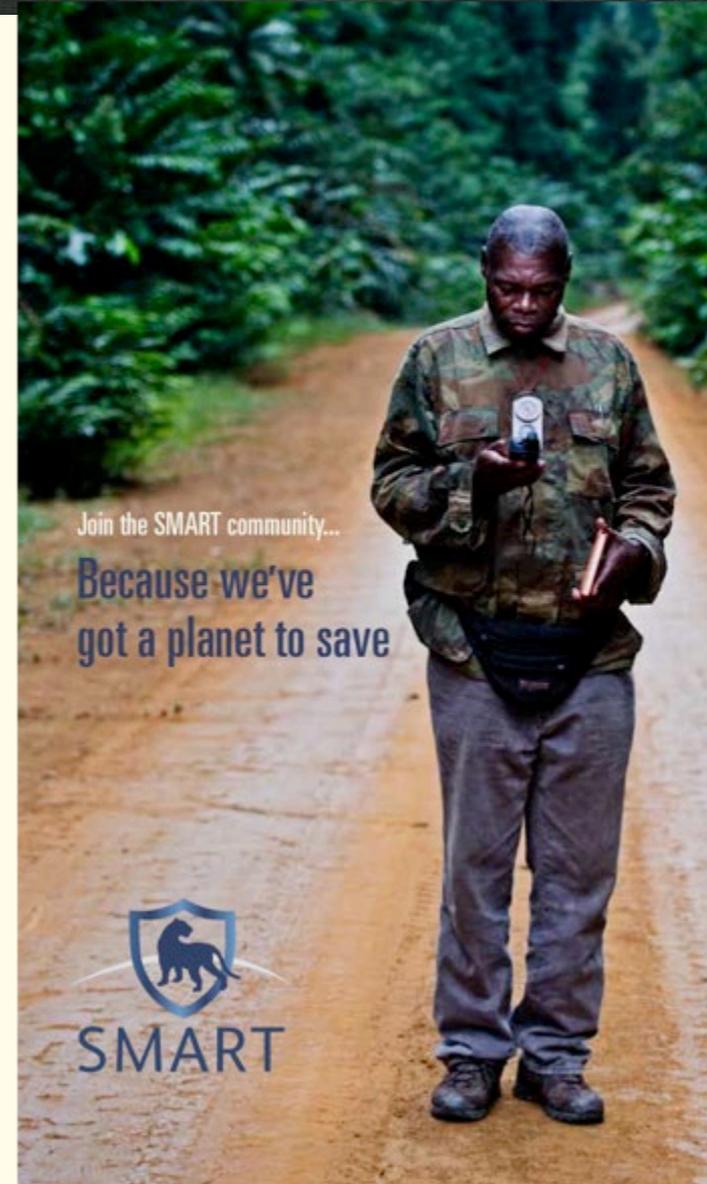
- Mobile data collection
- Marine Protected Area application
- Dynamic case tracking
- Intelligence and new detection methods (e.g. informant networks, aerial surveillance)
- Integration with other areas of PA management (e.g. ecological monitoring)





Phase II Adoption

- Training materials
- ToT Programs
- IT Support
- Facilitating govt outreach
- Monitoring SMART uptake
- Identifying key implementing partners





SMART Testing Sites



22 sites
6 agencies



Proposed Phase II Implementation



138 sites
8 agencies



Phase II Protection Standards



- Developing and dissemination of protection standards
- Site evaluation and feedback
- SMART accreditation



How to join SMART?

Community

Global SMART
User community

Members

Financial contribution
Commitment to
oversee
implementation

Supporters

Commitment to
oversee
implementation
Active participation
on Councils

Partners

Financial or
technical
contribution to
supporting SMART
Partnership

Get the SMART solution
for your protected area



Powerful,
Adaptable,
Free.



SMART



Help rangers on the front line of conservation...
Join the SMART partnership



<http://www.smartconservationsoftware.org/>





SMART Roadmap

Phase I

II

III

IV

2011

SMART
Development

2013

SMART
Uptake

2015

SMART
Evaluation

2018

SMART
Sustainability

2021



Phase II Partnership

