The context

Increasing demand for wildlife products locally & globally

Increasingly well-financed, organized, and connected wildlife crime

Limited resources for conservation
The Genesis of SMART: PAs are key

Protected areas are essential to effective biodiversity conservation\(^1\)

However, only 24\% of protected areas globally have sound management\(^2\)

Efforts to reduce wildlife trade will ultimately only be successful if anti-poaching efforts are effective\(^3\)

\(^3\)Felbab-Brown, V. 2017. The extinction market: wildlife trafficking and how to counter it. *Hurst: London, UK*
The Genesis of SMART: Responding to an immediate need: improved protection of wildlife in PAs

National Authorities
Efficient deployment of resources

Protected Area Managers
Effective coordination

Front-line Conservation Staff
Better enforcement
The SMART Partnership

• Collaborate on developing tools which give conservation practitioners the information they need to best manage protected areas
• Tools, capacity building and standards
• Learn from previous initiatives
• Harmonize efforts and avoid competition
• Make tools available to the conservation community
SMART protected area management tool

- Relational database with powerful query and summary functions
- Support for multiple languages
- Easy data entry and validation
- Built-in mapping and spatial analysis ability
- Automated analysis and report generation
- Facilitation of information sharing
SMART: Adaptive management framework
Evaluation of patrol coverage and performance
Monitoring threats and wildlife
Standardized reporting

WILDLIFE CONSERVATION SOCIETY
CROSS RIVER NATIONAL PARK (OKWANGO DIVISION)
ANNUAL REPORT: JANUARY-DECEMBER 2017

Table 1: Comparison of patrol effort in Okwango 2011-2017

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</thead>
<tbody>
<tr>
<td>number of patrols</td>
<td>33</td>
<td>35</td>
<td>40</td>
<td>44</td>
<td>46</td>
<td>47</td>
<td>51</td>
</tr>
<tr>
<td>number of patrol days</td>
<td>47</td>
<td>135</td>
<td>337</td>
<td>382*</td>
<td>370*</td>
<td>351*</td>
<td>348*</td>
</tr>
<tr>
<td>total distance covered (km)</td>
<td>119</td>
<td>1,483</td>
<td>2,187</td>
<td>2,285*</td>
<td>2,300*</td>
<td>2,085*</td>
<td>2,939</td>
</tr>
</tbody>
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*Sample data due to previous data collection with PDAs used. Data collection on the Grid tracking is data collected with CyberTracker on some patrol days. (65 patrol days in 2014, 10 in 2015 and 59 in 2016).

Figure 1a. Patrol tracks and patrol effort in a 600k2 grid cell for the period January to December 2017. Darker red color indicates areas more intense patrol coverage.

Figure 1b. Data collection with CyberTracker on some patrol days. (65 patrol days in 2014, 10 in 2015 and 59 in 2016).

Figure 2a. Distribution of all signs of human activity recorded during the period January to December 2017.

Table 2. Comparison of hunting pressure in Okwango from 2011-2017

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</thead>
<tbody>
<tr>
<td>signs</td>
<td>5.9</td>
<td>5.8</td>
<td>5.8</td>
<td>5.7</td>
<td>5.6</td>
<td>5.5</td>
<td>5.4</td>
</tr>
<tr>
<td>signs</td>
<td>5.9</td>
<td>5.8</td>
<td>5.8</td>
<td>5.7</td>
<td>5.6</td>
<td>5.5</td>
<td>5.4</td>
</tr>
</tbody>
</table>

Table 3. Distribution of all signs of human activity recorded during the period January to December 2017.

Figure 3. Distribution of all signs of human activity recorded during the period January to December 2017.

a) Wire snares
b) Empty cartridges
Global SMART Footprint

- > 800 sites
- ≥ 60 countries
- 15 nat’l. mandates
SMART: Global leader in PA management tools

- Implemented locally
- Adopted nationally
- Scaled globally

Europe
North America
South America
Asia
Africa


*
Impact: Belize marine protected area system

- Identification of patrol priority zones
- Improved management & deployment of patrols
- 85% decline in MPA fisheries infractions
Impact: Tiger conservation

- Parsa National Park, Nepal
  - >2x patrol effort in <1 year
  - 90% reduction of illegal activity
Impact: Masai Wilderness Conservation Trust, Kenya

- Empowered limited literacy rangers via icon-based reporting
- 74% decrease in poaching rates
- 67% fewer retaliatory hunts
- 0 wildlife poisonings in 2017
An Evolving Protected Area Management Platform
SMART: Successful, proven, and trusted

- Blending latest innovations with tried & tested technology
- Free & open source and community driven
- Supported by a global network of practitioners
- Can be adapted to the needs of any site or network of sites
- Long-term partner commitments
SMART: The power of partnership

- Collaboration
- Responsive to the global user community
- Extensive strategic partnerships
- Scalable
- Demonstrated ability to support, improve and expand products
- Long-term sustainability strategy
The Future

- Integration with Vulcan Earth Ranger and multiple other platforms
- Artificial intelligence
- Fully mobile and device neutral
- Additional modules - Animal Tracker, Infrastructure, Case Tracking
- Richer mapping, enhanced UI, dashboards
- Enhanced global training focus
- Further build global user community
Opportunities for engagement

- Partnership on SMART deployment at sites globally
- Participation in SMART community
- Assistance with maintaining and developing tools and building SMART capacity

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Thank you