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By:



We are crime-fighting engineers





Data Science







Simple tools...





Dramatic effects







Destruction of natural environments





Raw figures



(C)

The Earth is losing mammal species 20 to 100 times the rate of the past.



SOURCE: Study, Science Advances





Our Mission

making available best-of-breed technologies to conserve ecosystems and protect wildlife





Our growing coalition for wildlife





You can help!

01WORK WITH US02FUND OUR WORK





area entry > searching target > tracking > the kill > securing trophies > escaping > area exit







Human-Wildlife Conflicts





360[°] situational awareness for wildlife protection







STEP 1

Develop intel networks

- Rangers
- Partners
- Community members
- Data collection
- Sharing observations and intel

STEP 2

Strengthen analytical capabilities

- Combining data sources
- Semantic data integration
- Multiple visualisations
- Situational understanding
- Real-time intelligence

STEP 3

Extend virtual presence

- Sensors
- Trackers
- Geo-fences
- Knowledge rules
- Early warning signals



Develop intel networks: share observations **STEP 1**



Know where your friends are



Know where the problems are



Coordinate a swift response



Extend virtual presence





STEP 1 Develop intel networks

STEP 2 Strengthen analytical capabilities STEP 3 Extend virtual presence



Sensors to detect poachers



Hiding a Trespasser field sensor



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Photos: J.K. Schakel.



































Our definition of Sensing



Sensing = sentience automation, from sensor to sensemaking

Sentience = process of registration, reconstruction and meaning













STEP 2

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Transfer (syntactic):

Translate (semantic):

Transform (pragmatic):

what you type is what you get

what you mean is what you get

what you want to know is what you get



"The" 7 golden questions

- What? Concepts for natural resources, illegal actions, findings, etc.
 - Concepts for time-spatial pattern, days, periods, seasons, etc.
 - Concepts for geo-spatial pattern, locations, routes, destinations, etc.
 - Concepts for people, groups, social networks, roles
 - Concepts for equipment, transport, etc.
 - Concepts for modus operandi, performance, escape routes, etc.
 - Concepts for motives: e.g. commercial, subsistence, bycatch, etc.

With what?How?

Who?

When?

Where?

• Why?





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MO: Elephants killed by arrow vs firearms



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Warthog kills bycatch of charcoalers? **STEP 2**







360[°] situational awareness for wildlife protection







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That's how we turn wild spaces into safe havens!



contact@sensingclues.org

WORK WITH US

01

02 FUND OUR WORK