Hasita
My journey began in the Pench Tiger Reserve in India (2011)

Masters in Environment Management

Currently work for the Global Wildlife Program

I’ve been an ‘honorary’ KID for four months

Currently leading a conservation technology database / ebook that can used by projects to better monitor, measure, protect biodiversity and combat wildlife crime
Human Elephant Conflict

• WBG projects in Sri Lanka, Uganda, Zambia, Gabon, are working to reduce incidences of conflict

• Electric fences, chili peppers, guard posts, bee hives, satellite tracking of radio-collared elephants

• Too expensive, not durable, opportunity costs, difficult to implement at a large scale
WildEyes™ AI

A scalable solution to this challenge requires a low-cost technology to detect elephants and transmit alerts to wildlife managers and communities to prevent conflict situations before they occur.

WildEyes AI can run for more than 1.5 years on a single charge of its small rechargeable Lithium Ion battery—a game changer for a field-based sensor.
WildEyes AI

Small camera hidden in a tree above the reach of an elephant

A network of cameras running the CVEDIA detector. The detector is agnostic to camera angle. The detector can successfully identify elephants even when the camera is positioned >15' in a tree.

When an elephant passes, the camera’s motion sensor is triggered

The camera remains asleep until the motion sensor is triggered and then, leveraging the AI algorithm, the Intel VPU filters out false triggers. By filtering “on the edge” i.e., only transmitting true positives of elephants, the camera conserves vital battery life.

Computer vision detects elephant in the frame

A sophisticated AI algorithm detects elephants based on synthetic data models created by CVEDIA, running on the Intel Movidius vision processing unit (VPU) embedded in the WildEyes AI camera.

Transmits the image in near-real time to cell phones of villagers

The image of the elephants can be sent over a GSM network, or via a long-range radio link in areas without cell connectivity, in under two minutes from the camera, to the Internet, and back to the local guardians, completing the loop.
In Conclusion…

Let the KIDS know how they can help “disrupt” your work!

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Join the KIDS CoP on Yammer!

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