Frontier Space Technology for Wildlife Conservation

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>5000 staff; >100 Countries; action at every level
Bending the curve
Operational Wildlife Counts From Space?

Overcoming space, time, and cost constraints
- Higher resolution
- More frequent
- More affordable
Impacts of Wildlife Movements from Space
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Remote Sensing in 4-D: space video
Remote Sensing in 4-D: space video
Artificial Intelligence Applications

General Questions
• What will happen next, and where?
• Why is this happening here?
• Where should we invest our limited resources?

Specific questions
• Where will wildlife go under scenario x,y,z?
• Predictions of poverty, crop yields
• Human-wildlife conflicts and anti-poaching resources
New technology to fight wildlife crime

Tiny Satellites!
- Gyroscope
- Magnetometer
- Solar Cells
- Microcontroller
- Radio
- Antenna

Tiny Trackers!
PandaSat: Nano-Tags & Nano-Satellites
PandaSat for Oceans

Affordable tracking technology for plastics and marine debris

• Plastic tracking
  • identifying the paths from river mouths

• Deployable technology for fishing nets
  • Alerts and tracking to monitor and prevent ghost gear

• Marketable space for sustainability
  • Seafood sourcing

• Ship and fishing monitoring
In Summary

• We are always looking for new technologies and applications to test and activate
• We have a network of offices and boots on the ground
• We have an integrated online mapping system: GLOBIL to distribute and access spatial data
• Our projects provide real-world applications
OFFICES IN OVER 100 COUNTRIES
FIRST-HAND KNOWLEDGE

IN-HOUSE WILDLIFE EXPERTS
APES

PARTNERSHIPS WITH LEADING INNOVATORS

PROVEN SCIENCE AND CONSERVATION TRACK RECORD

GLOBAL REACH AND MOBILIZATION

COMMITMENT TO CONSERVATION AND SUSTAINABILITY

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