



**Thank you for joining AmazonTEC!
We will start promptly at 2:00 pm EST.**

Did you know?

Real-time, satellite-based forest loss monitoring (such as GLAD alerts) can quickly detect any possible new threats, even across vast and remote areas.

Amazon Conservation is comField patrols with drone flights can then verify these alerts and capture very high resolution images that can be submitted to authorities.

Learn more at: <https://maaproject.org/2020/drones-peru/>

**Thank you for joining AmazonTEC!
We will start promptly at 2:00 pm EST.**

Did you know?

Amazon Conservation's Monitoring of the Andean Project (MAAP) performs real-time, satellite-based forest loss and fire monitoring across 83% of the Amazon, covering 5 countries - Brazil, Bolivia, Colombia, Ecuador, and Peru.

See more: maaproject.org

Follow us for the latest updates:



@ACA_DC



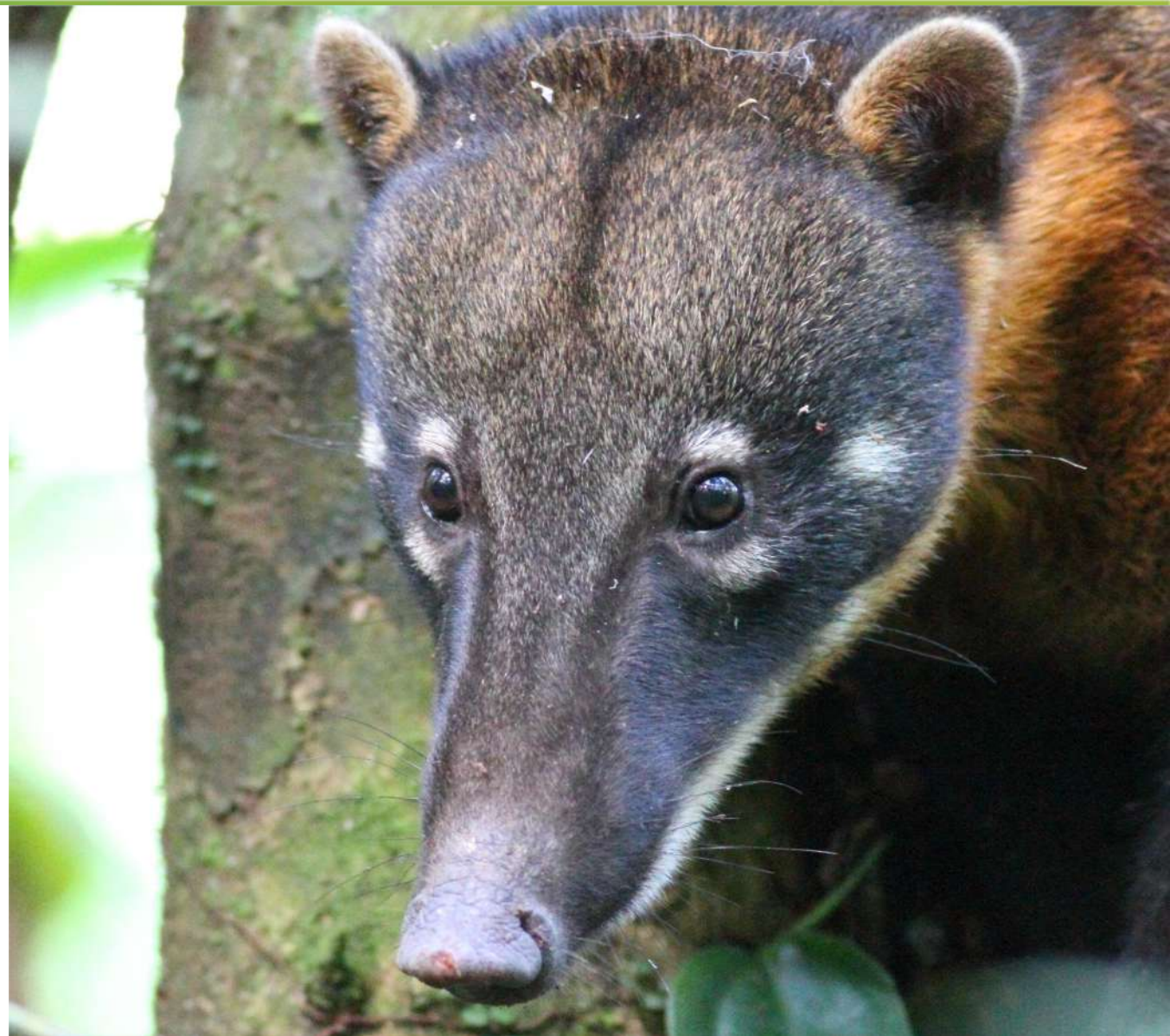
@AmazonConservation



Amazon Conservation



Amazon Conservation





**Thank you for joining AmazonTEC!
We will start promptly at 2:00 pm.**

Did you know?

Amazon Conservation's camera trap program in the Bolivian Amazon has captured over 10,000 videos and images of wildlife, including endangered species and several species which had previously been declared as no longer living in the area. This melanistic jaguar captured by one of our cameras was the first ever photographed in Bolivia!

Follow us for more camera trap photos:

 @AmazonConservation

 @ACA_DC

 Amazon Conservation

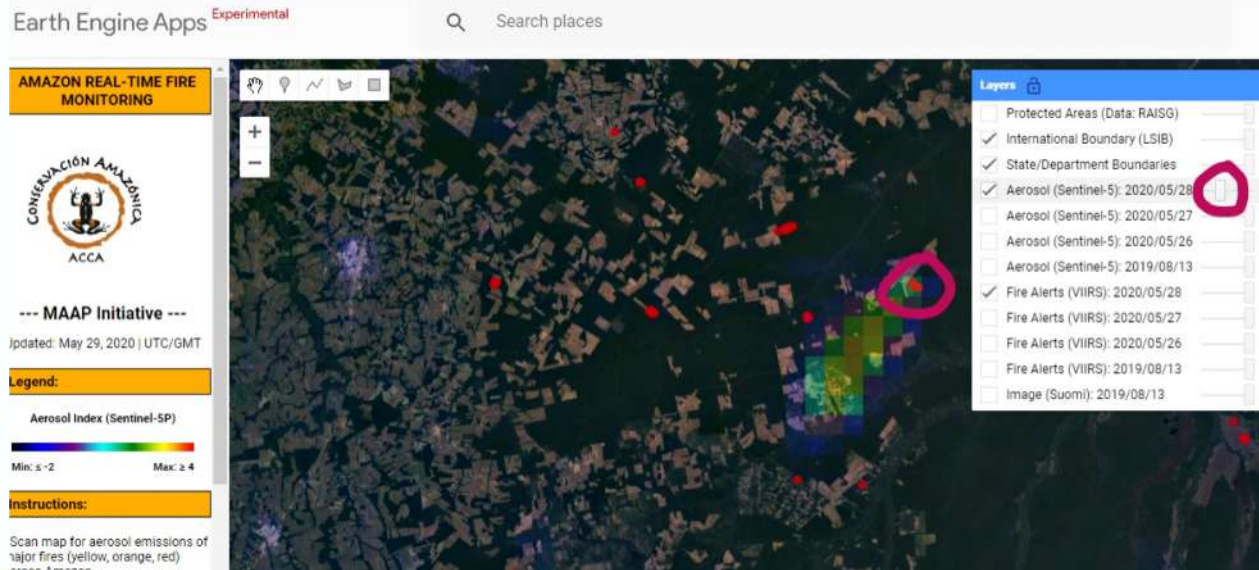
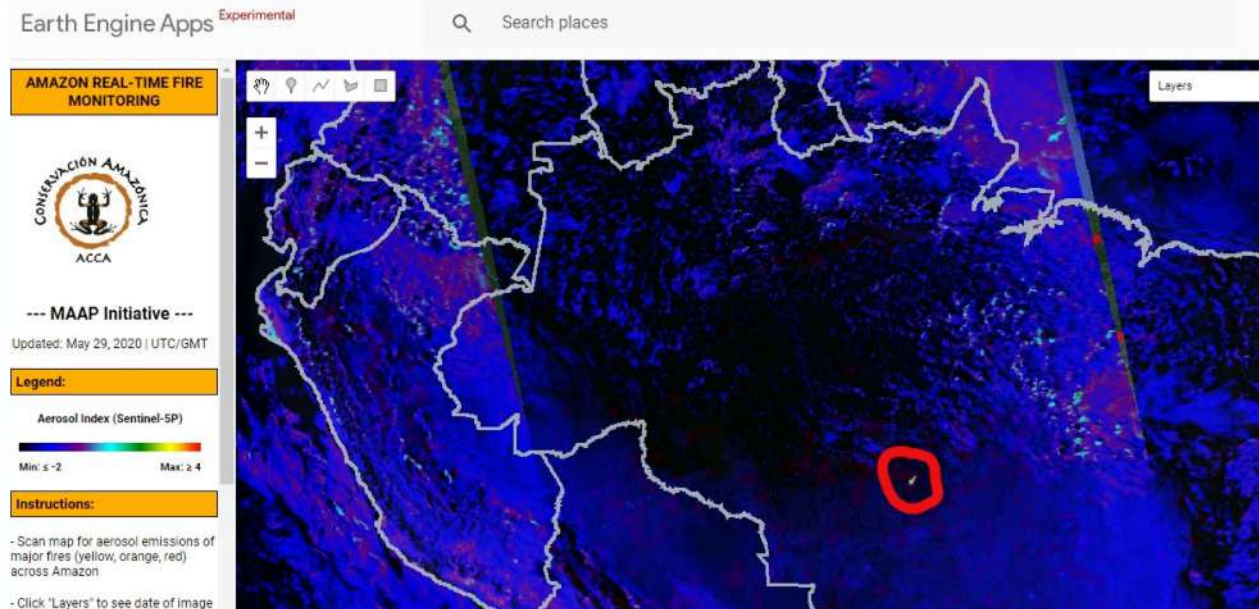
 Amazon Conservation

**Thank you for joining AmazonTEC!
We will start promptly at 2:00 pm.**

Did you know?

This past summer Amazon Conservation released an updated version of our real-time fire monitoring app, able to predict and locate major fires across the Amazon based on the aerosol emissions detected by the new Sentinel-5P satellite.

Learn more at:
<https://maaproject.org/2020/amazon-fire-app/>



Bolivia: Parque Noel Kempff Mercado- Fire# 61
Septiembre 8, 2020
Imagen Planet Scope



**Thank you for joining AmazonTEC!
We will start promptly at 2:00 pm.**

Did you know?

Though this year's fire season didn't get as much media attention as last year, it was just as severe if not more so. With our real-time fire tracker app, we have detected:

- Over 2,500 major fires across the Amazon in 2020
- In Brazil, 52% of fires burned recently deforested areas (1.8 M acres)
- An estimated 41% of aburned forest (5.3 M acres)

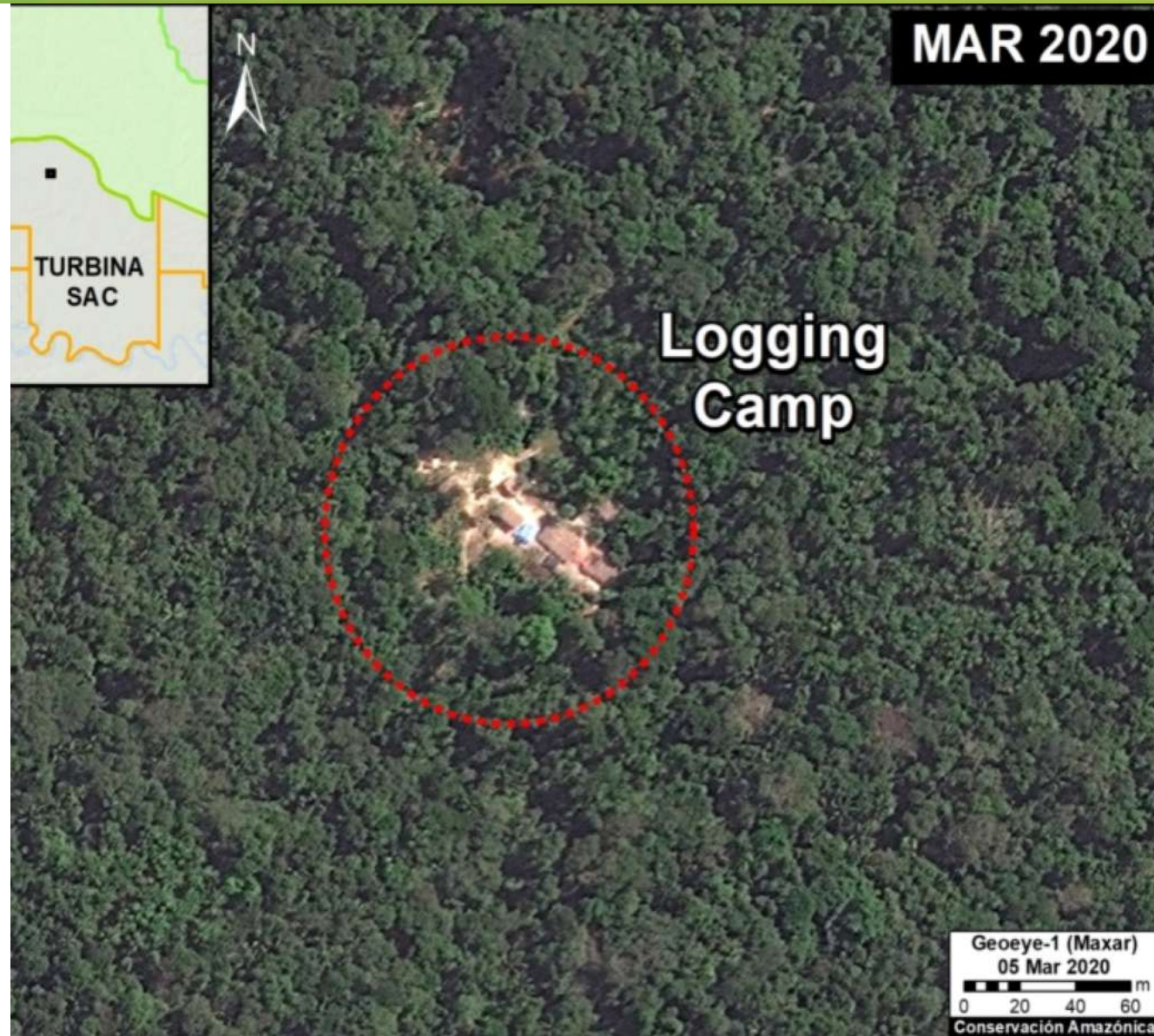
**Thank you for joining AmazonTEC!
We will start promptly at 2:00 pm.**

Did you know?

There is enormous potential to identify illegal logging using very high resolution satellite imagery (<70 cm). The leading entities that offer this type of data are Planet (Skysat) and Maxar (Worldview).

Illegal logging in the Peruvian Amazon is mainly selective and, until now, difficult to detect through satellite information. This technique has the potential to detect the illegal activity in real time, when preventive action is still possible.

See more: <https://maaproject.org/2020/high-res-satellites/>

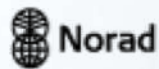




Science and Technology for a Sustainable Amazon

Building a Sustainable Amazon Through Science, Technology, and Governance

ORGANIZED BY



General Welcome and Event Introduction



John Beavers

Executive Director of
Amazon Conservation



Welcome and Announcements from Norway



Henrik Fliflet

Senior Adviser at Norway's International Climate and Forest Initiative (NICFI), Norwegian Ministry of Climate and Environment

Photo of Wayqecha Cloud Forest by Jess Suarez

Opening Remarks



Manuel Pulgar Vidal

Leader of the Climate & Energy Global Practice, World Wild Fund for Nature International (WWF)

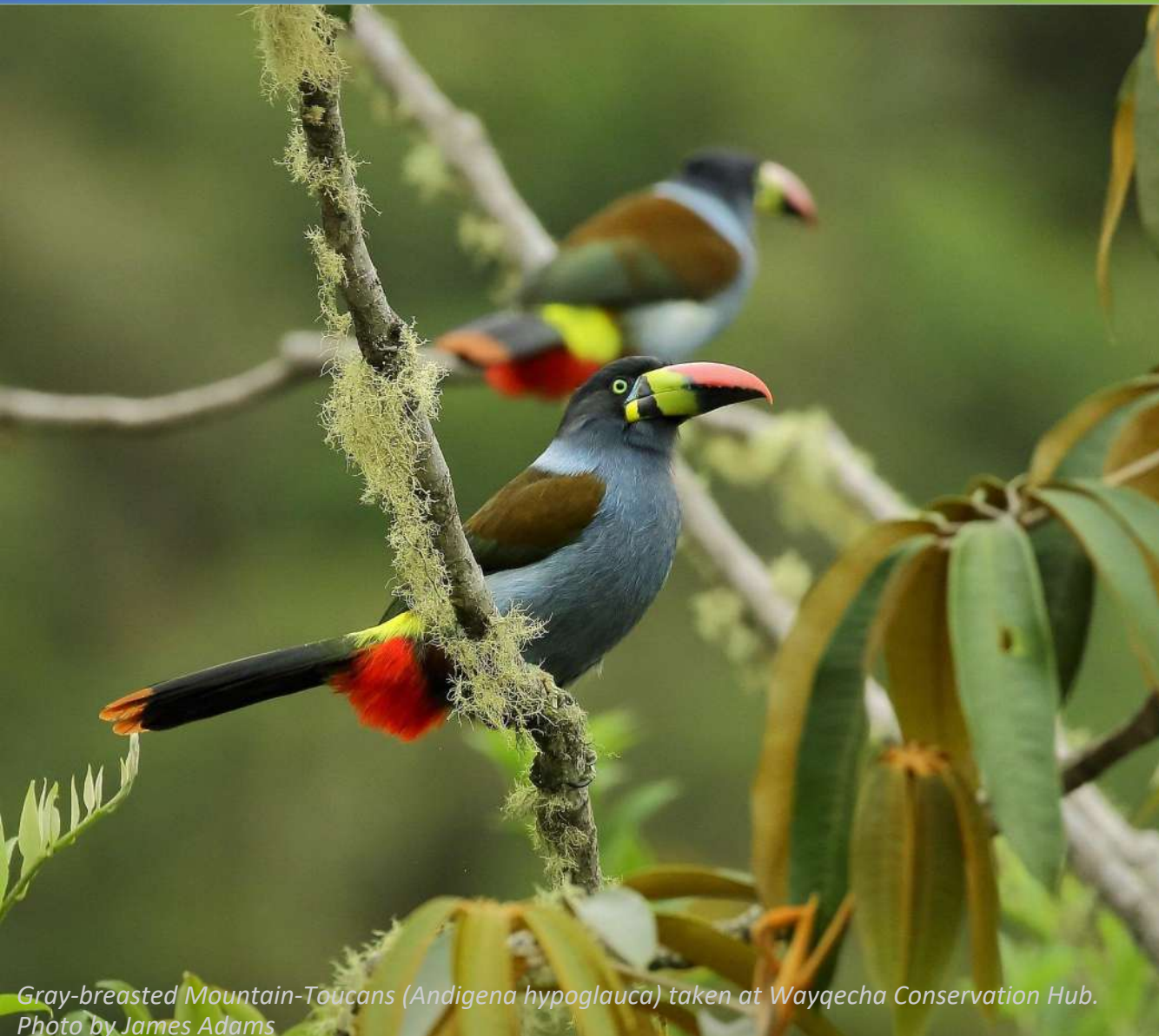


Panel Overview and Panelist Introductions



Enrique Ortiz [Moderator]

Senior Program Director at the Andes Amazon Fund (AAF)



*Gray-breasted Mountain-Toucans (Andigena hypoglauca) taken at Wayqecha Conservation Hub.
Photo by James Adams*

Technology Solutions for Conservation Panel



Dan Irwin

Research Scientist at NASA and Global Program Manager for the NASA/ USAID program SERVIR



Matt Finer

Director of the Monitoring of the Andean Amazon Project (MAAP) at Amazon Conservation



Sidney Novoa

Director of GIS and Technology for Conservation at Conservación Amazónica - ACCA



Adrian Forsyth

Tropical Ecologist and Strategic Advisor for the Gordon and Betty Moore Foundation



Daniel Rodriguez Fernandez

Specialist in Uncontacted Indigenous Peoples protection and Technical Advisor for FENAMAD (an Indigenous Federation in southeastern Peru)



Flor Rumayna

Local Sustainable Business Owner and Forest Guardian in Peru

Technology Solutions for Conservation



Dan Irwin

Research Scientist at NASA and Global Program Manager for the NASA/ USAID SERVIR program



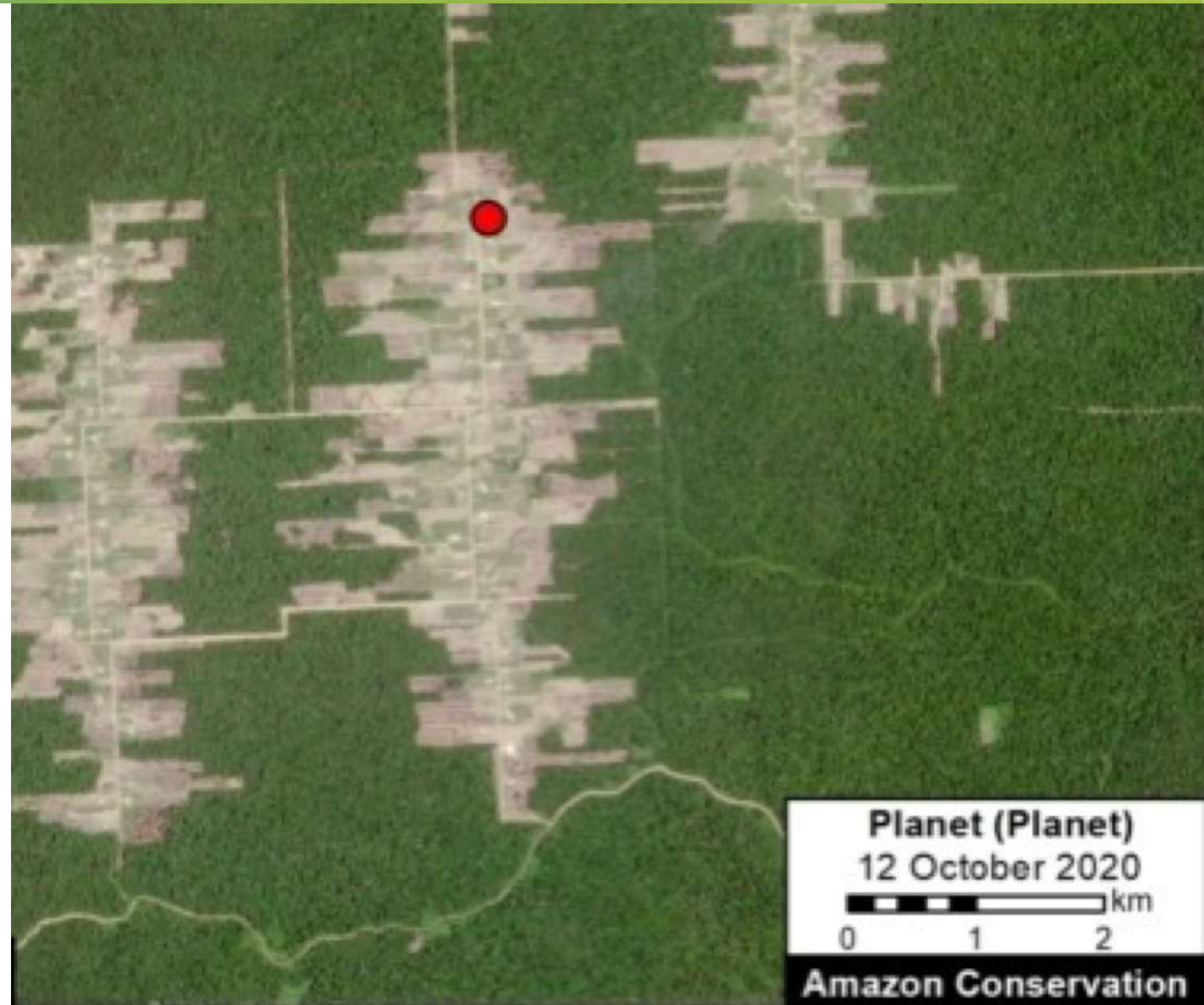
Photo by Zander Nassikas

Technology Solutions for Conservation



Matt Finan

Director of the Monitoring of the Andean Amazon Project (MAAP) at Amazon Conservation



TECHNOLOGY
SOLUTIONS FOR
CONSERVATION:

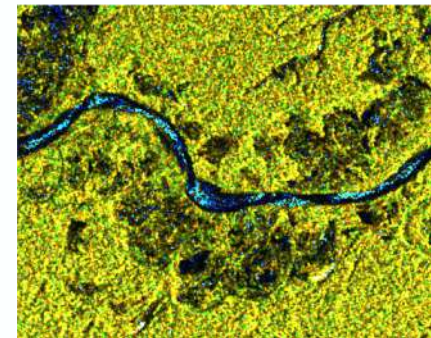
Satellites for
Real-time
Monitoring



Part 1: MAAP



Part 2: New Satellite based
Solutions



MAAP: Real-time Monitoring Program (since 2015) Linking Tech and Policy

Deforestation



Degradation (Logging)



Fire



<https://maaproject.org>

Deforestation

Alerts



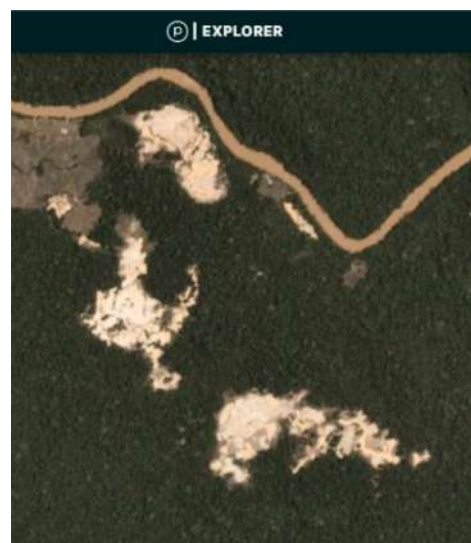
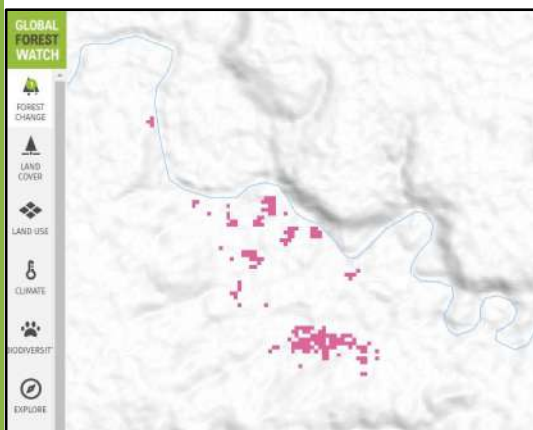
High Res



Reports



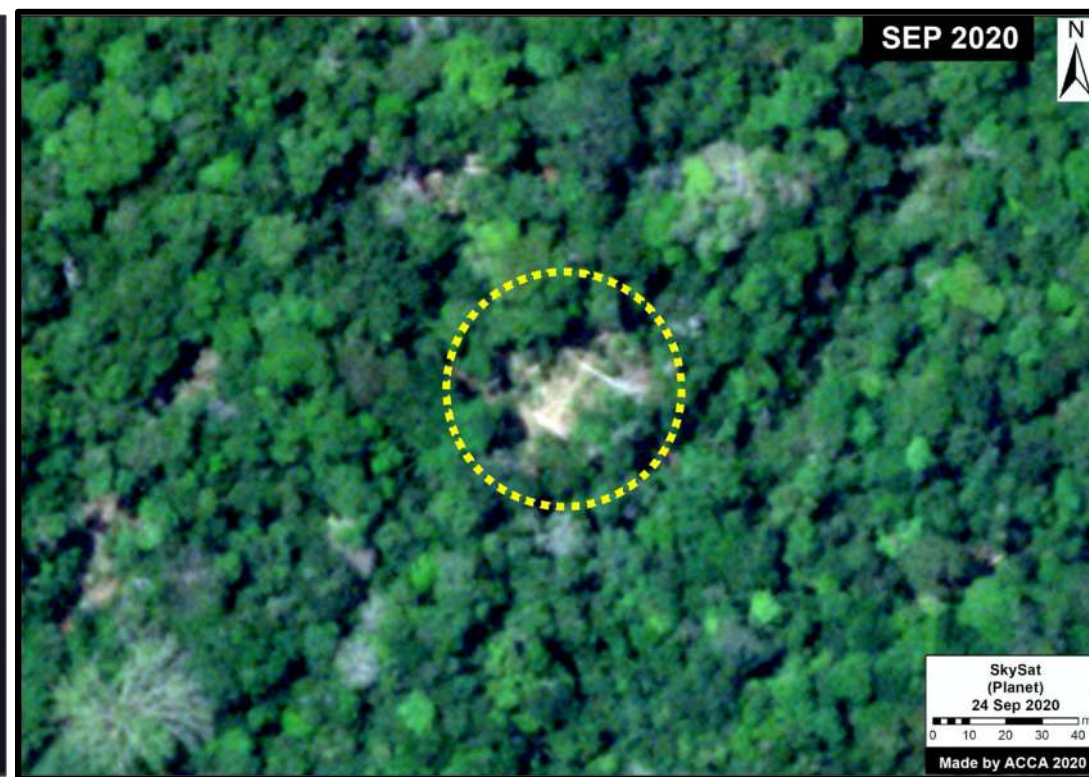
Action



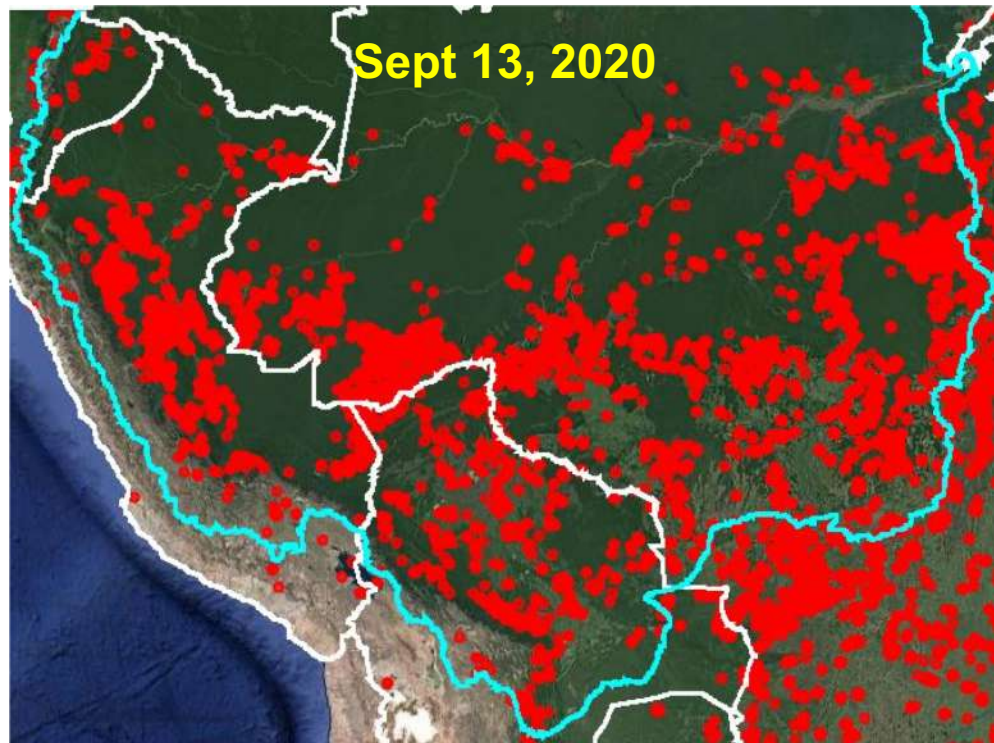


Degradation
(Logging)

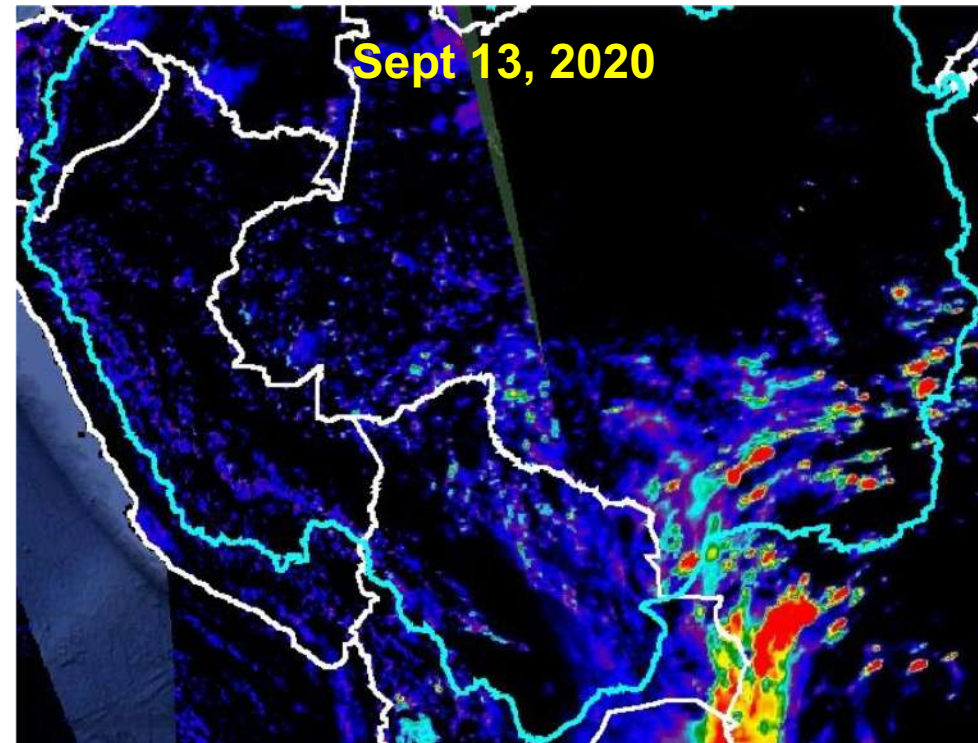
Tasking Very High Res (Skysat)



Fire



New App based on Aerosol



MAAP: Real-Time Monitoring Linking Technology with Policy

Deforestation



Degradation (Logging)



Fire



Technology Solutions for Conservation



Sidney Novoa

Director of GIS and Technology for Conservation at Conservación Amazónica - ACCA

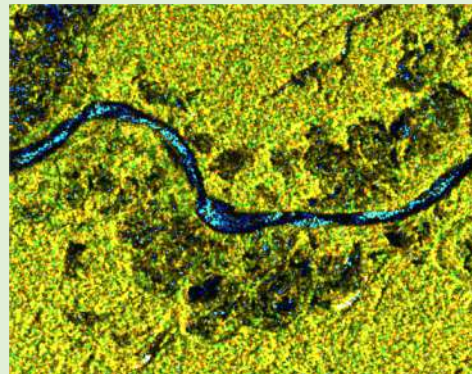


Key Satellite-Based Advances

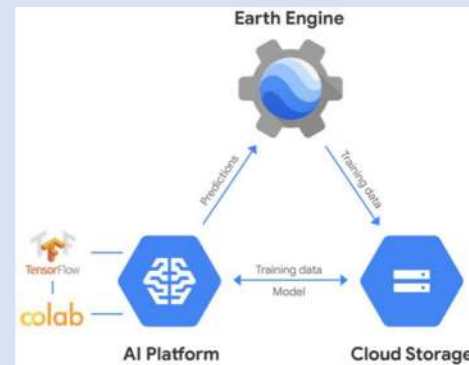
Drones



Radar (Mining)



Google Earth Engine (big data)



AI (Logging)



Drones for Monitoring

MAAP #126: DRONES AND LEGAL ACTION IN THE PERUVIAN AMAZON

PERU, MAPS OCT 7, 2020

[Download PDF of this article](#)

[Print](#)
[Email](#)
[Share 24](#)
[Tweet](#)
[More](#)

The southern **Peruvian Amazon** (Madre de Dios region), is threatened by illegal mining, logging, and illegal deforestation.

In response, an association of forest concessionaires (known as ACOMAT) is implementing a **comprehensive monitoring system** that links the use of technology (satellites and drones) with legal action.

ACOMAT was formed in 2012 and now comprises 15 forestry concessions, covering 440,000 acres (178,000 hectares) in the southern Peruvian Amazon (see Base Map). Most of the concessions are alternatives to logging, such as Brazil nuts, Conservation, and Ecotourism.

This comprehensive system has three main elements:

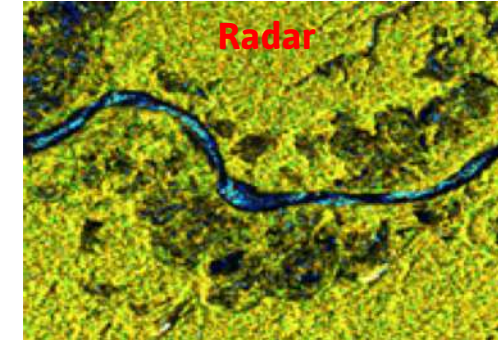
- 1) **Real-time, satellite-based forest loss monitoring** (such as GLAD alerts) to quickly detect any possible new threats, even across vast and remote areas.
- 2) Field patrols with **drone flights** to verify forest alerts (or monitor threatened areas) with very high resolution images.



Radar Based Monitoring

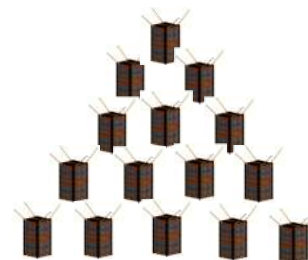
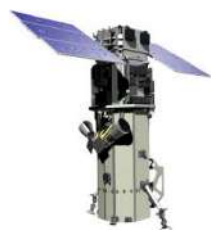


VS



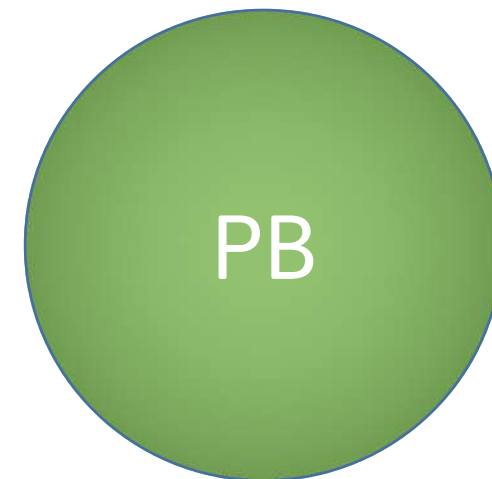
<http://rami.servirglobal.net:8080/>

New Era of Information: Big Data

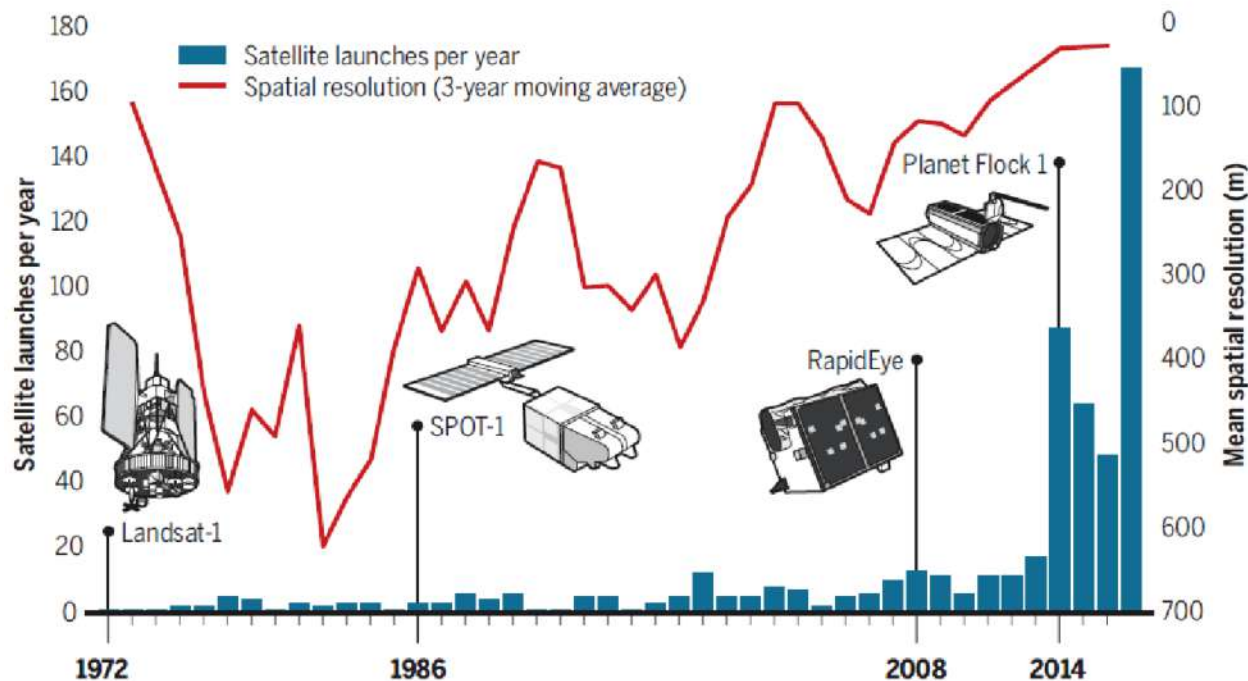


Gigabytes

VS



Petabytes



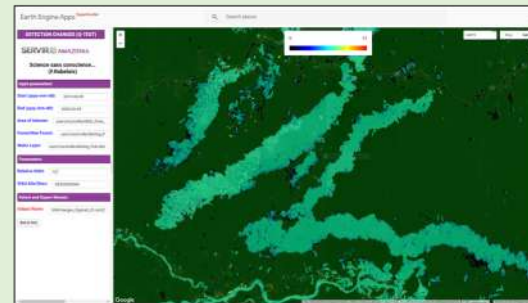
Google Earth Engine



Virtual Machine

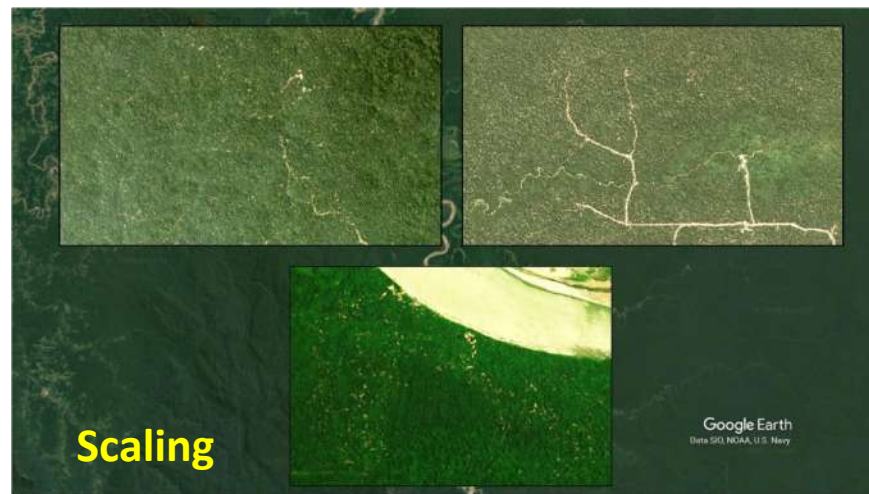
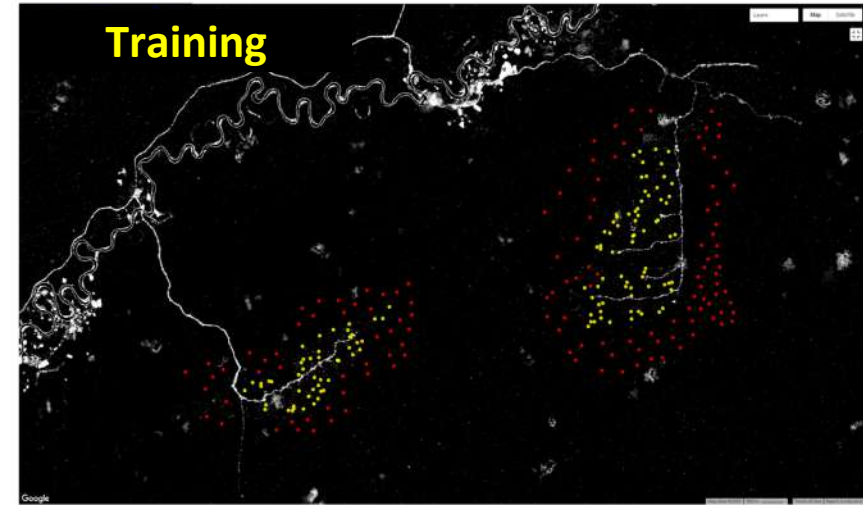
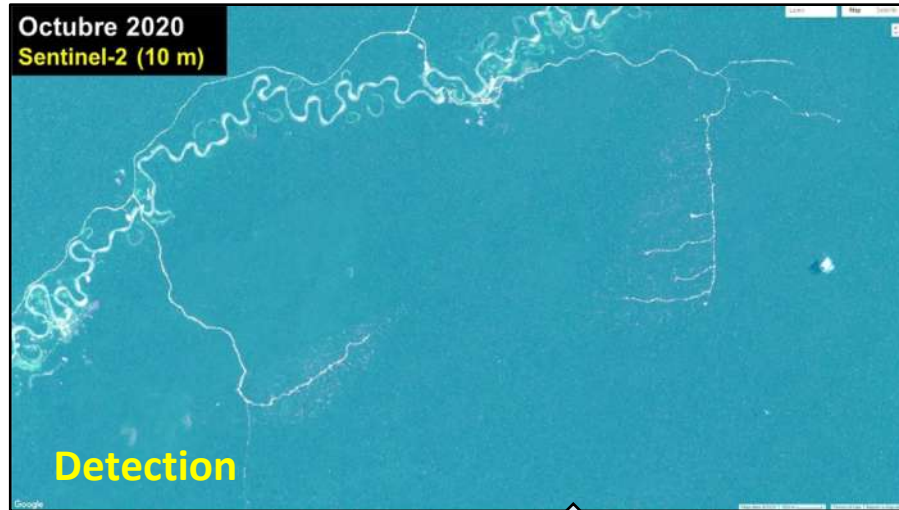


Smart Apps

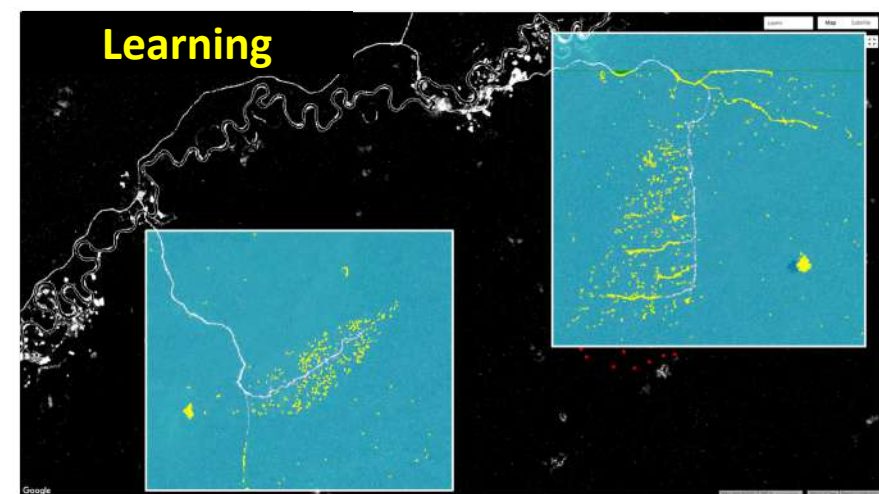


<https://luciovilla.users.earthengine.app/view/monitoring-amazon-fires>

Artificial Intelligence (AI)



LOGGING MONITORING



Technology Solutions for Conservation



Adrian Forsyth

Tropical Ecologist and Strategic Advisor for the Gordon and Betty Moore Foundation



Photo by Sean Williams



Incorporating Technology into FENAMAD's Community-Based Monitoring Systems

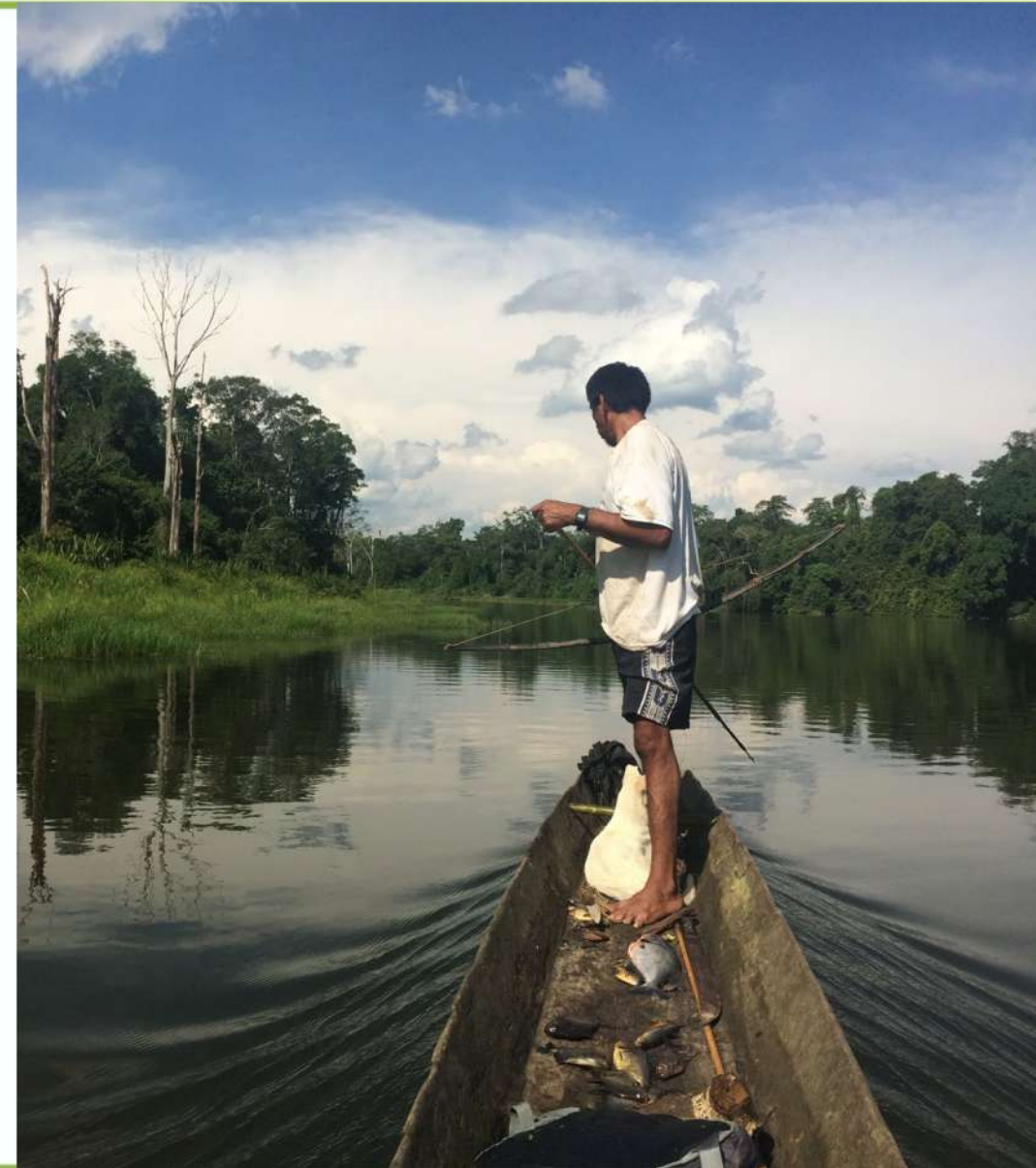


Daniel Rodriguez Fernandez

Specialist in Uncontacted Indigenous Peoples protection and Technical Advisor for FENAMAD

FEDERACIÓN NATIVA DEL RÍO MADRE DE DIOS Y AFLUENTES - FENAMAD

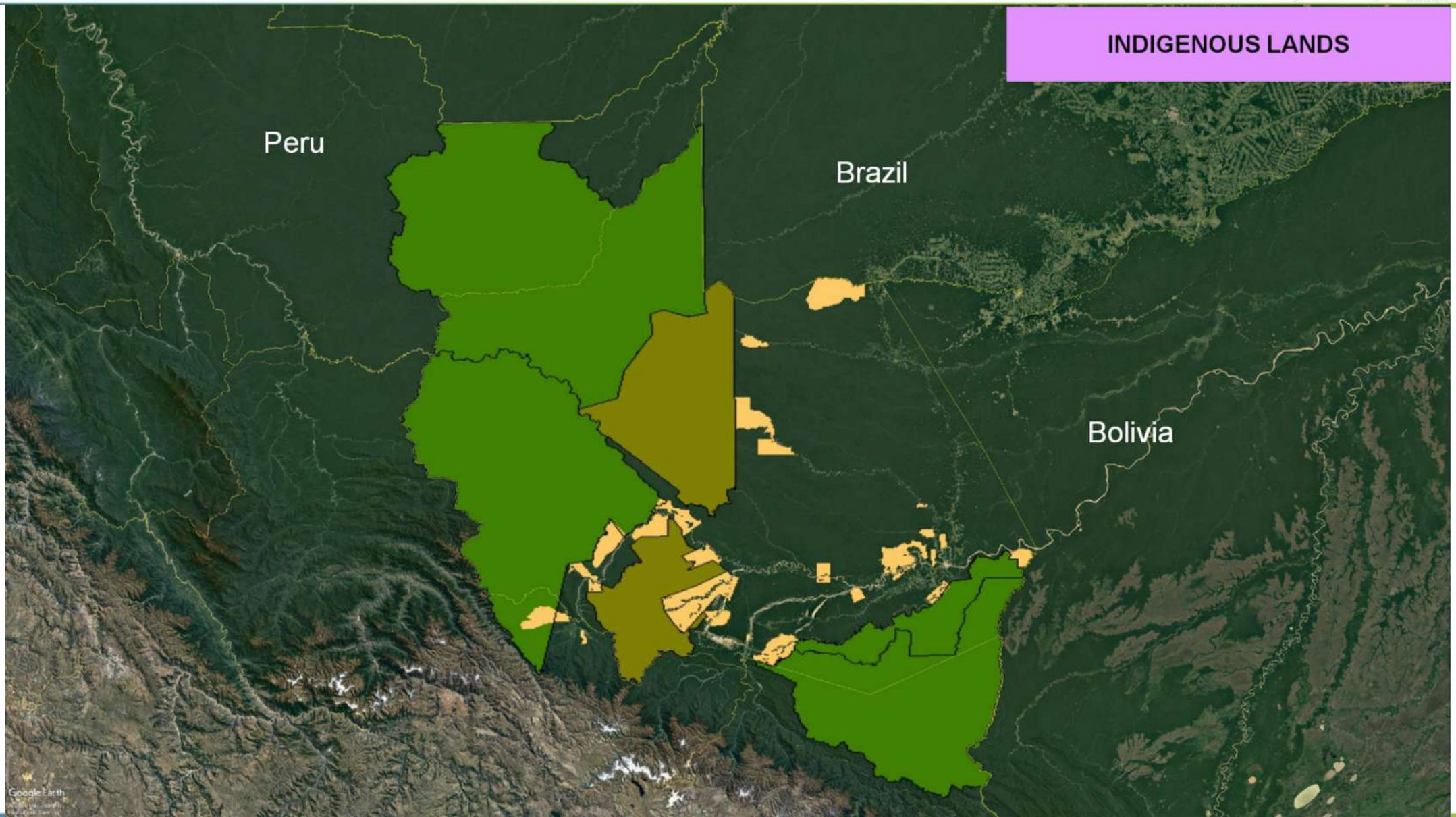
- Native Federation of the Madre de Dios river and its Tributaries
- Representative organization of the indigenous peoples in Madre de Dios (37 communities, 7 ethnic groups)
- Created in 1982 by the communities to defend their territories and collective rights

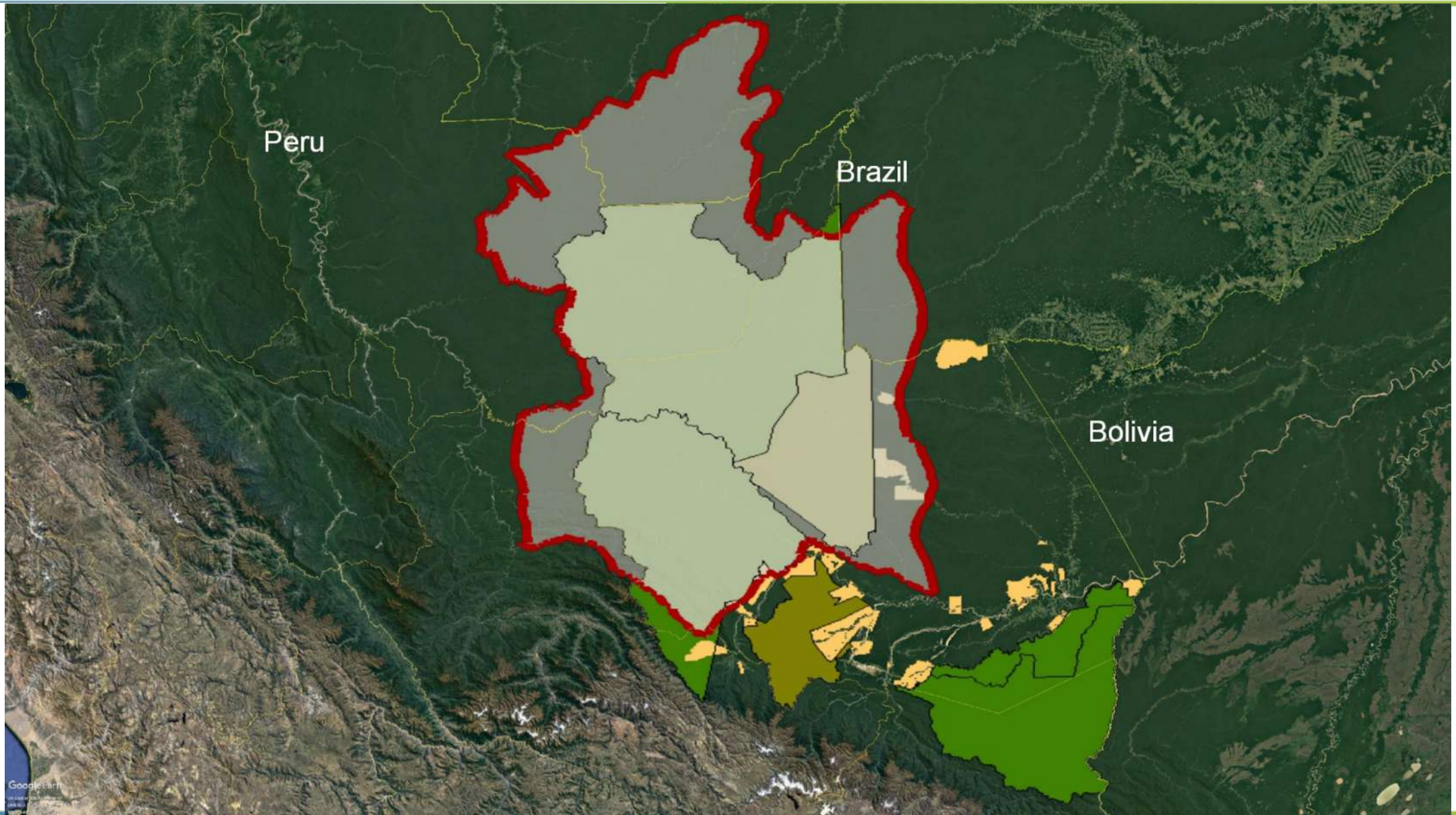






INDIGENOUS LANDS







FEDERACIÓN NATIVA DEL RÍO MADRE DE DIOS Y AFLUENTES - FENAMAD

- “Biodiversity Capital of Peru”
- 60% of the region’s surface categorised as Nature Protected Areas
- Territory of 7 indigenous peoples in 37 communities, also includes several indigenous peoples in isolation and initial contact (PIACI)

Technology Solutions for Conservation



Flor Rumayna

Local Sustainable Business Owner
and Forest Guardian in Peru





Bridging the Gap: Technology, Governance, and Action Panelists



Fabiola Muñoz

Peru's Former Minister of the Environment
Former Minister of Agriculture, and
Former Executive Director of the Peruvian National Forest
and Wildlife Service (SERFOR)



Hector Gonzalez Rubio

Technical Advisor for Colombia's Institute of
Hydrology, Meteorology, and Environmental
Studies (IDEAM)

Open Question and Answer Session for Panelists



Dan Irwin

Research Scientist at NASA and
Global Program Manager for the
NASA/ USAID program SERVIR



Matt Finer

Director of the Monitoring of the
Andean Amazon Project (MAAP)
at Amazon Conservation



Sidney Novoa

Director of GIS and Technology for
Conservation at Conservación
Amazónica - ACCA



Hector Gonzalez Rubio

Technical Advisor for Colombia's
Institute of Hydrology,
Meteorology, and Environmental
Studies (IDEAM)



Adrian Forsyth

Tropical Ecologist and Strategic
Advisor for the Gordon and Betty
Moore Foundation



Daniel Rodriguez Fernandez

Specialist in Uncontacted Indigenous Peoples
protection and Technical Advisor for FENAMAD
(an Indigenous Federation in southeastern Peru)



Fabiola Muñoz

Peru's Former Minister of the Environment, Former Minister
of Agriculture, and Former Executive Director of the Peruvian
National Forest and Wildlife Service (SERFOR)

Tying it All Together and Key Takeaways



Manuel Pulgar Vidal

Leader of the Climate & Energy Global Practice, World Wild Fund for Nature International (WWF)



Photo by Sean Williams



Photo by Sean Williams

Closing Remarks, Acknowledgments, and What's Next



John Beavers

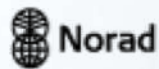
Executive Director of
Amazon Conservation



Science and Technology for a Sustainable Amazon

**Thank you for participating in
AmazonTEC!**

ORGANIZED BY



FIN

The remaining slides are template slides, not
part of the presentation

Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy. Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.

Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy. Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.

Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy. Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.



1

Experiencias de campo en el uso de tecnología como aliada de la conservación

- Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.
- Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.
- Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.

1

Experiencias de campo en el uso de tecnología como aliada de la conservación



- Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.
- Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.
- Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.

Tecnología como aliada de la conservación
Lorem ipsum dolor sit amet, conasectetuer adipiscing elit, sed diam nonummy.



- Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, conasectetuer adipiscing elit, sed diam nonummy.
- Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, conasectetuer adipiscing elit, sed diam nonummy.
- Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, conasectetuer adipiscing elit, sed diam nonummy.

Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.



Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.

Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.

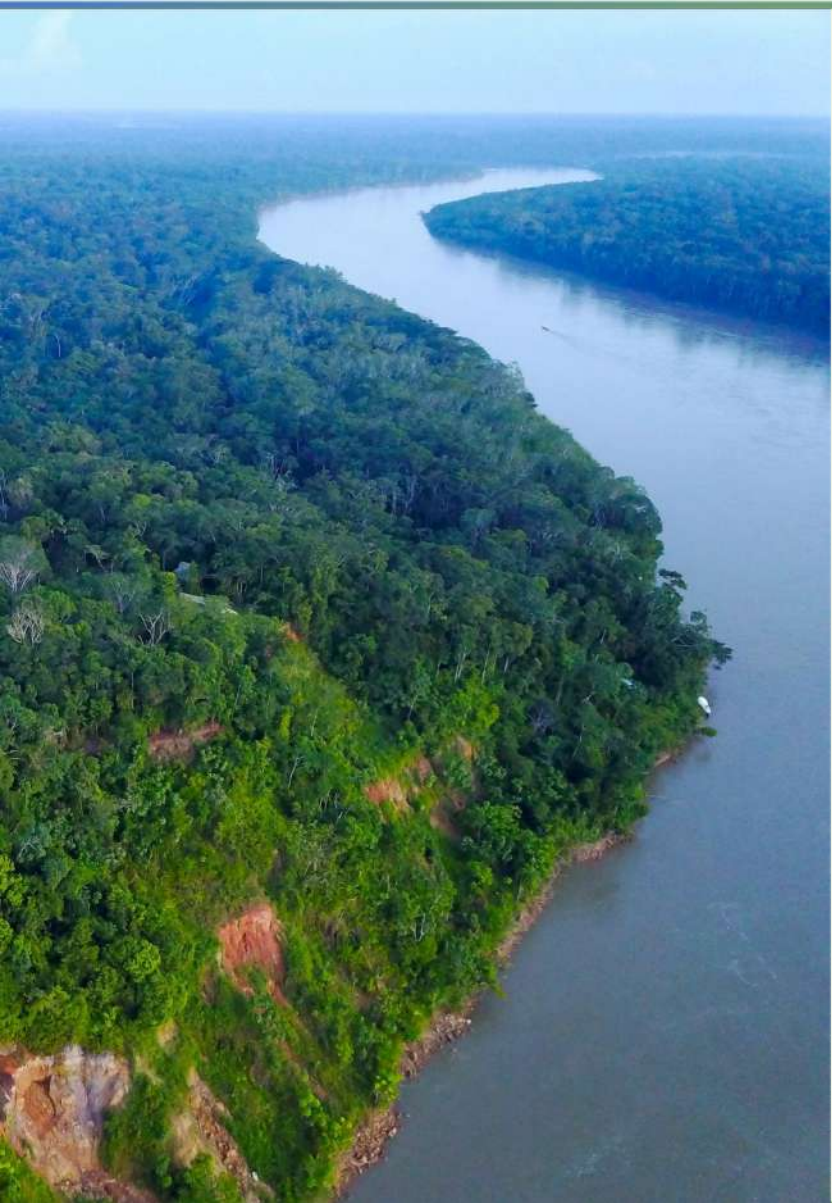


Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy. Tecnología como aliada de la conservación.

Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.



Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy.



Tecnología como aliada de la conservación Lorem ipsum dolor sit amet

- Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, conasectetuer adipiscing elit, sed diam nonummy.
- Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, conasectetuer adipiscing elit, sed diam nonummy
- Tecnología como aliada de la conservación Lorem ipsum dolor sit amet, conasectetuer adipiscing elit, sed diam nonummy