



SATELLITE MONITORING UNIT SERFOR









General Director of Information and forest management SERFOR

PERU IN CONTEXT



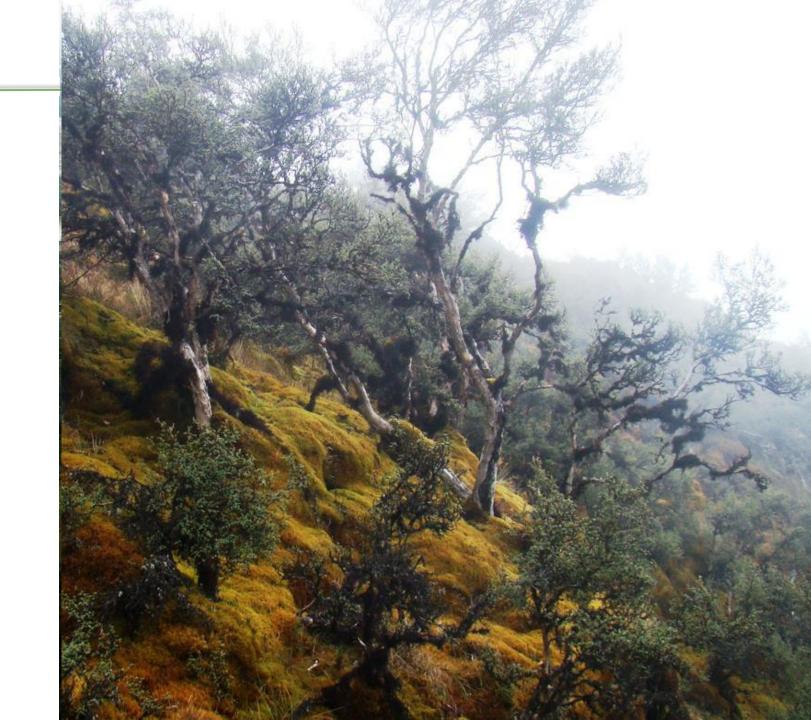
PERU IN CONTEXT

Natural Forests

• Amazon rainforest (94.7%)

• Dry forests (5%)

• Andean forests (0.3%)

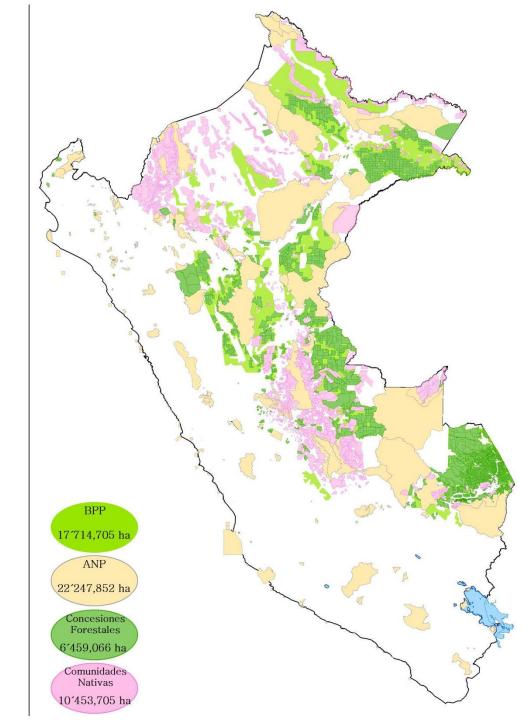


PERU IN CONTEXT

Forest Regulation

CATHEGORIES	SUPERFICIES (ha)	
PERMANENT PRODUCTION FORESTS	17,714,704.83	
FORESTRY CONCESSIONS	(*) 6,459,066.00	
PROTECTED AREAS	22,247,852.05	
INDIGENOUS COMMUNITIES	10,453,704.67	
TOTAL	56,875,327.55	

(*) Operational



SERFOR



SERFOR is the **Technical and Administrative Authority**

(Ley N° 29763)

Mision:

Promotes the sustainable and participatory management of forest resources and wildlife, and the use of their ecosystem services, providing quality services that contribute to the welfare of citizens.



The National Forestry and Wildlife Information System (SNIFFS)

National Forestry and Wildlife Control and Surveillance System (SNCVFFS)

Multisectoral Commission to Combat Illegal Logging – CMLTI D.S. N°011-2003-AG

Viceminister of Agrarian Policies MINAGRI

SNCVFFS National Forestry and Wildlife Control and Surveillance System



- National round table
- Regional round table (04)
- Early warning network

- Regional Governments
- Local Governments
- Civil society

10 Active Institutions

- SERFOR
- SUNAT
- DICAPI
- CCFFAA
- FISCALÍA-FEMA
- MIN CULTURA
- OEFA
- OSINFOR
- PNP
- SERNANP SUNAT



Satellite Monitoring Unit (DGIOFFS)

Forest and Wildlife Control
Direction
DGGSPFFS

SNCVFFS



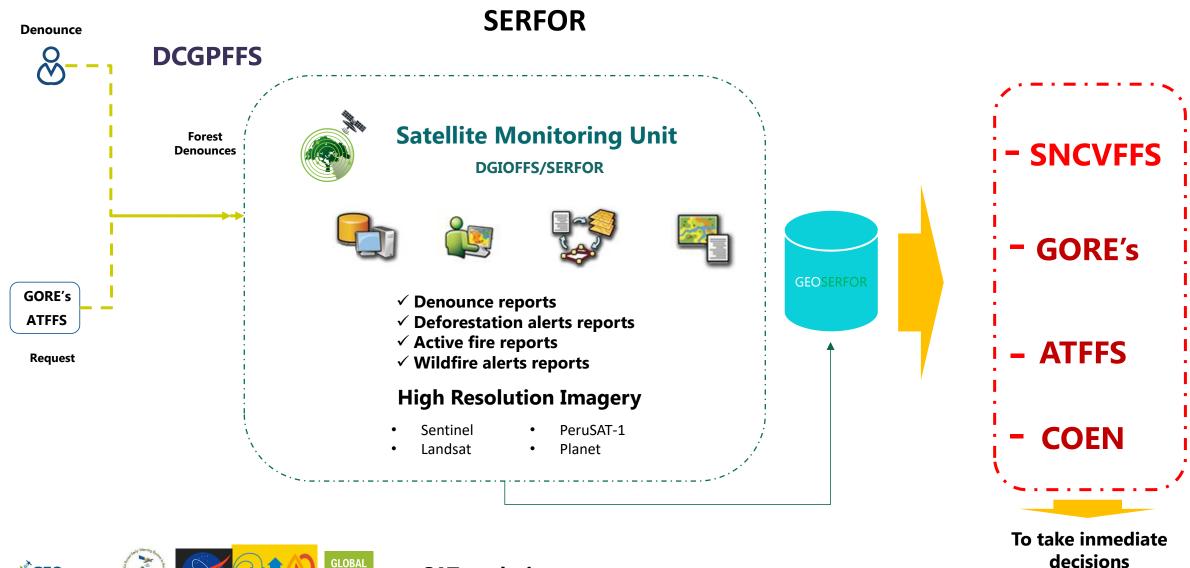


Forest Coverage Monitoring System

Satellite Monitoring Unit (UMS)



Information Flux



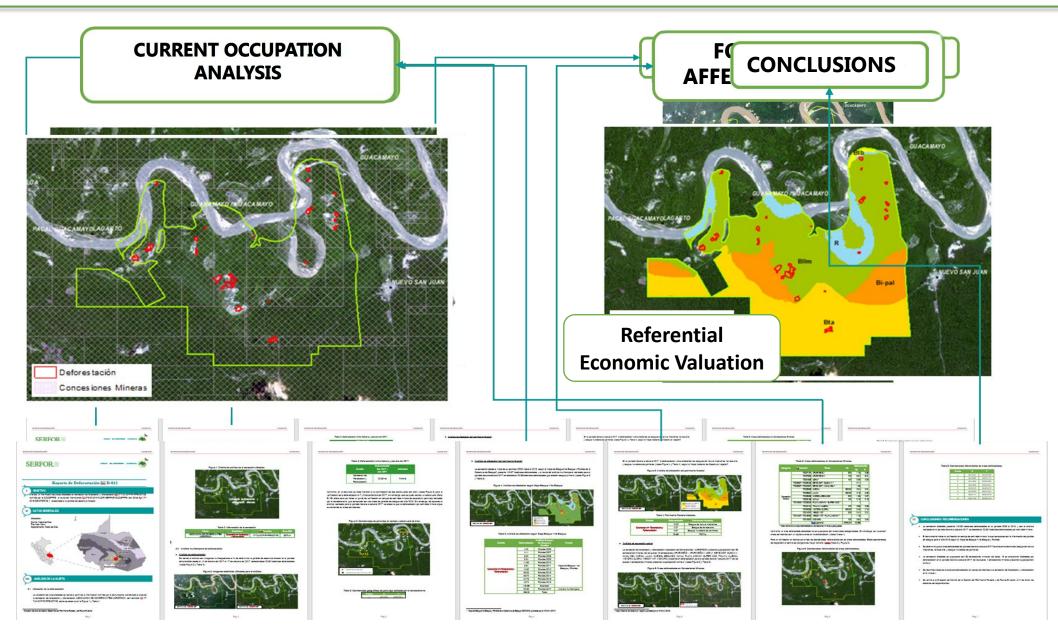








Illegal logging/deforestation Denounce Reports

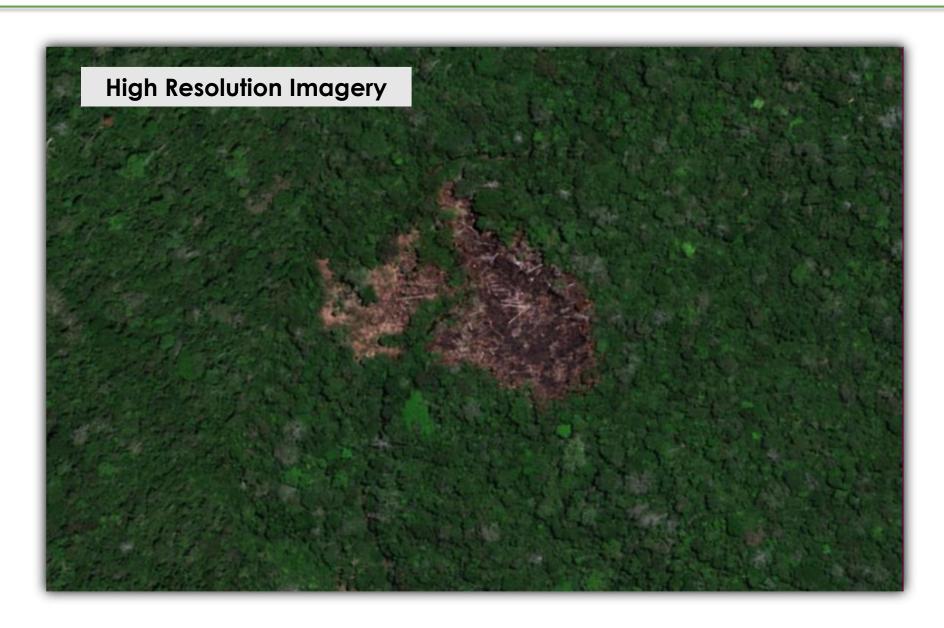


Deforestation Denounce: Timber Concession





UCAYALI







UCAYALI Masisea

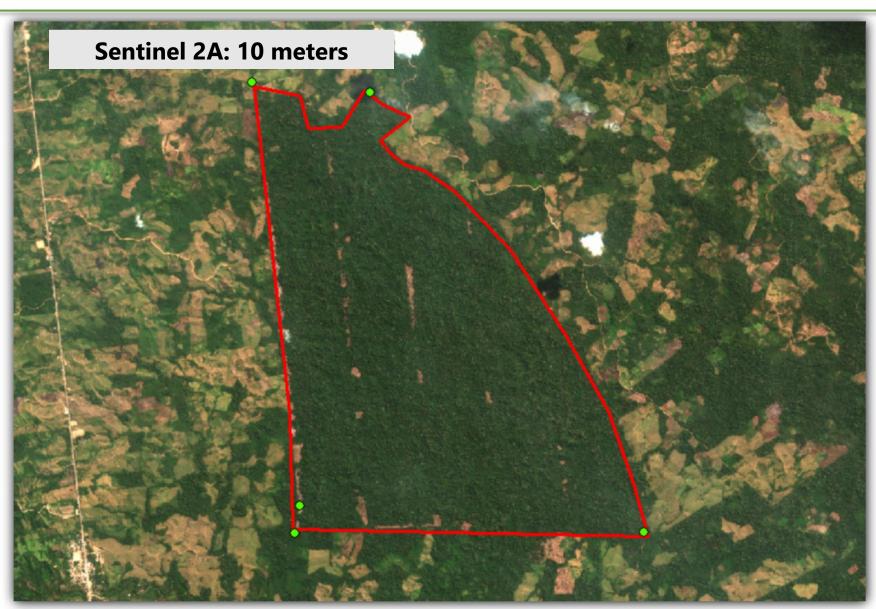


Case: Investigation Center UNU Denounce





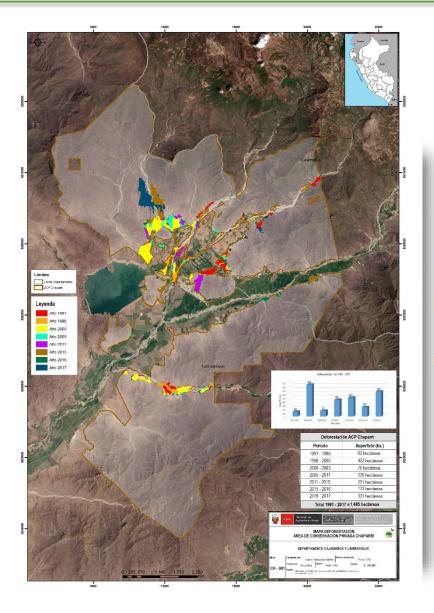
HUÁNUCO



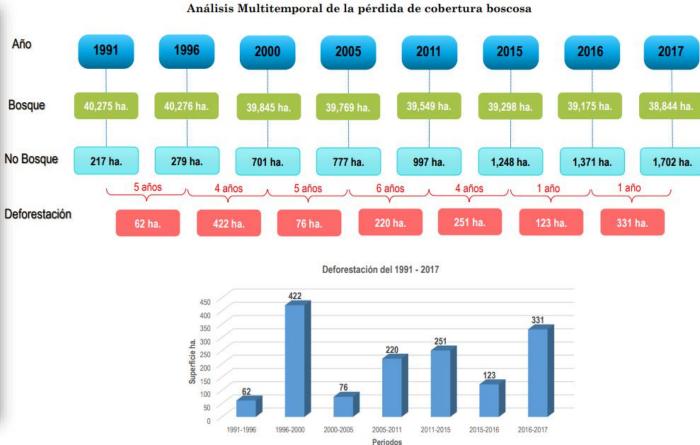
Case: Dry forest Deforestation Private Conservation Area Chaparrí







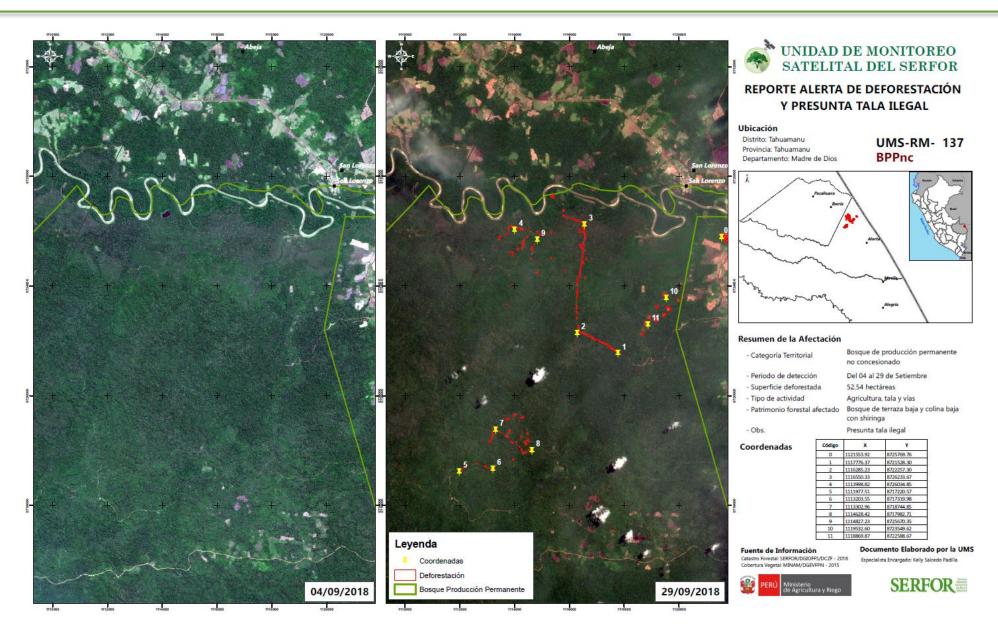
Área de Conservación Privada Chaparrí



Reports for illegal logging operations







FAP support in illegal logging operations







Illegal logging operations

- ADS 80 Camera
- Video Camera
- Heat Camera



FAP support in research











Forest research

- Lidar
- Hyperspectral

Dron's use for field verifications: Illegal Change Use





MADRE DE DIOS Y UCAYALI





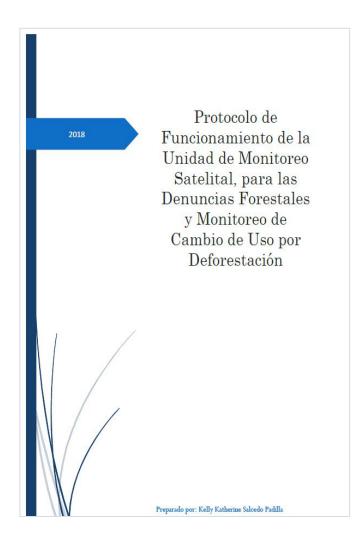
International Forum on Early Warning Systems SERFOR Servicion Servicion Servicion Servicion Silvestre in Ucayali - SNCVFFS



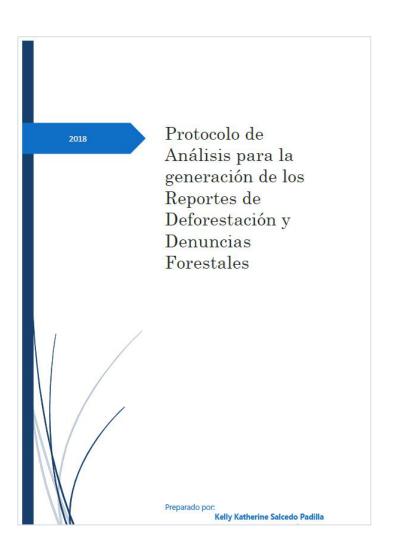




Elaboration of Protocols



Operation
Protocol of the
Satellite
Monitoring Unit
(UMS), for forest
denounce and
monitoring of
change use due
to deforestation

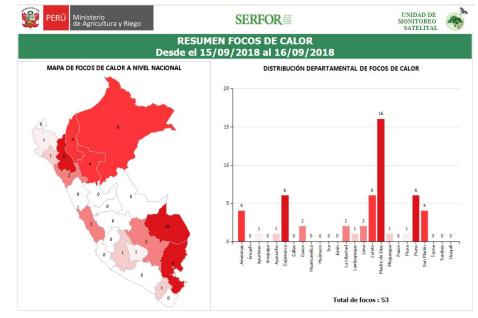


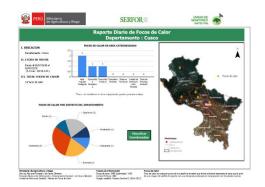
Analysis Protocol for the generation of forest denouncements and deforestation reports

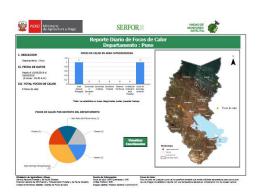
WILDFIRES REPORTS

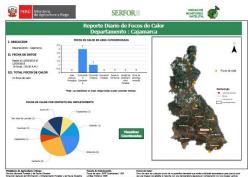


2,850 reports



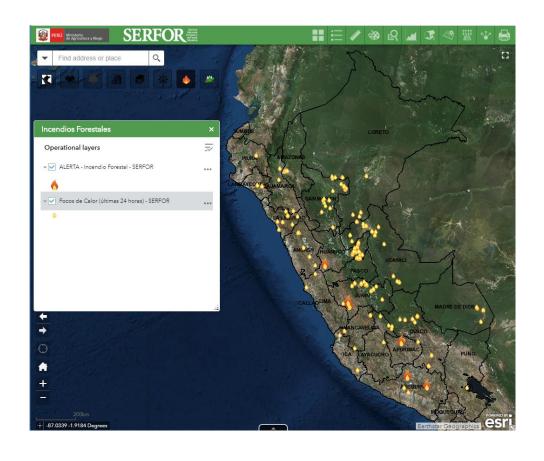


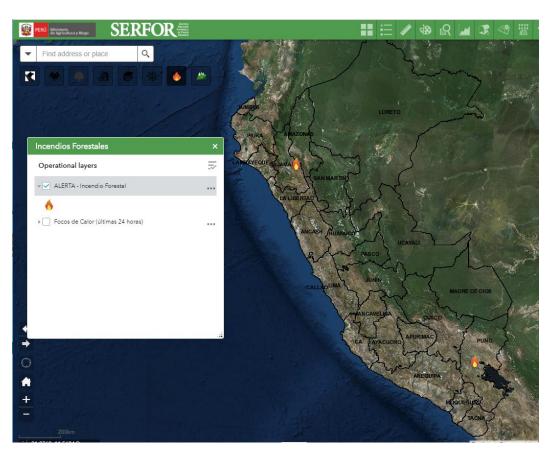




WILDFIRES

Early Warnings published at GEOSERFOR (geoplatform)





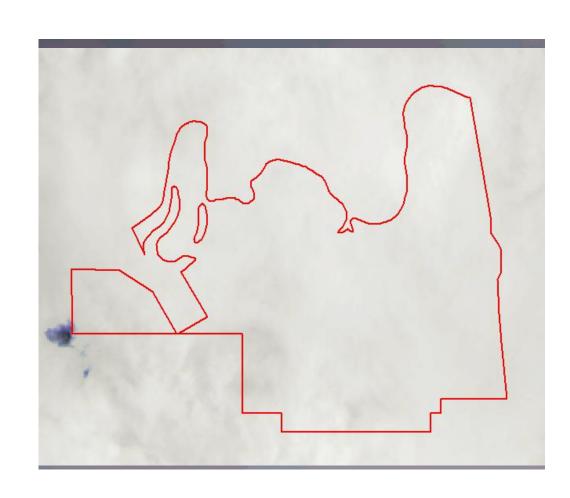
Challenges

Limitations

- Free cloud imagery acquisition
- Case: afforestation and reforestation concession AGROFOCM.

The illegal activity was developed at January 2018, but we could not identify a free cloud image for the analysis.

- Identify illegal logging with free satellite images.
- Inclusion of new technologies like GGE, JJ-FAST, RADAR for forest monitoring.



- **Budget**
- Different types of forests that not necessarily can be monitor with the same technology.
- Reduce staff dedicated to forest monitoring in national and regional level.
 - National Level:
 - SERFOR: 2
 - Observation
 Room: 0 (+)
 - Regional Level:
 - 5 Regional Governments: 5 (+)

Favorable scenario for the UMS implementation

Support of international cooperation





ACCA

- Implementation and articulation between National Forestry and Wildlife Information System (SNIFFS) and National Forestry and Wildlife Control and Surveillance System (SNCVFFS)
- Adequate interinstitutional articulation







