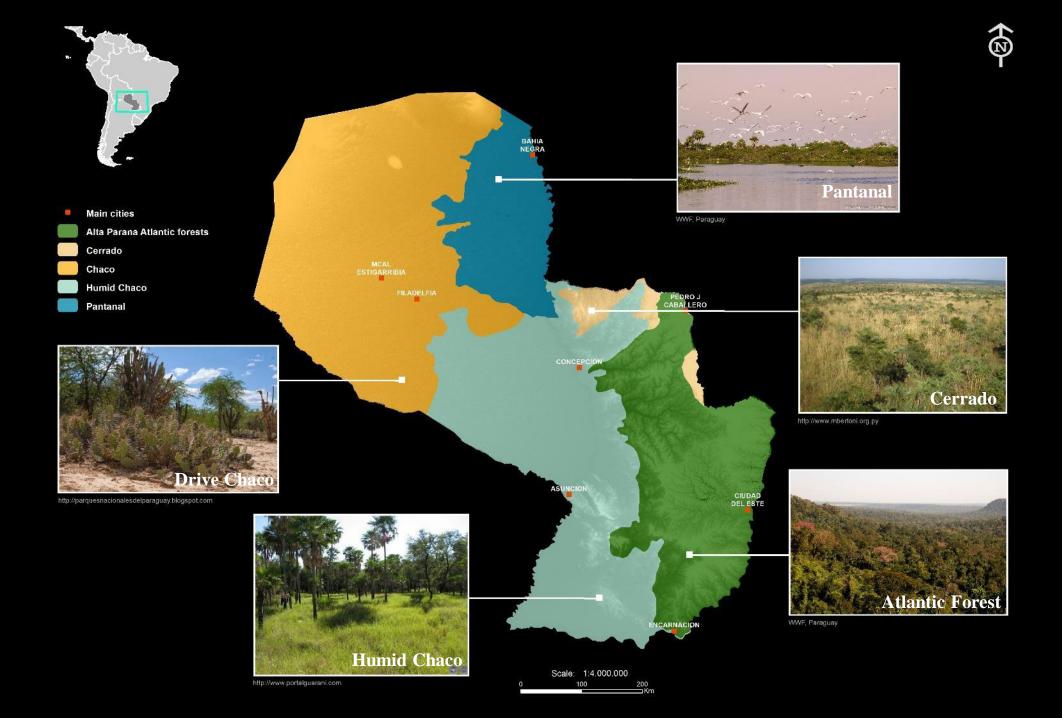


Juan Francisco Facetti, National University of Asuncion - Faculty of Engineering - Dept. Geography and Environment. Aida Luz Aquino, World Wildlife Fund-Paraguay

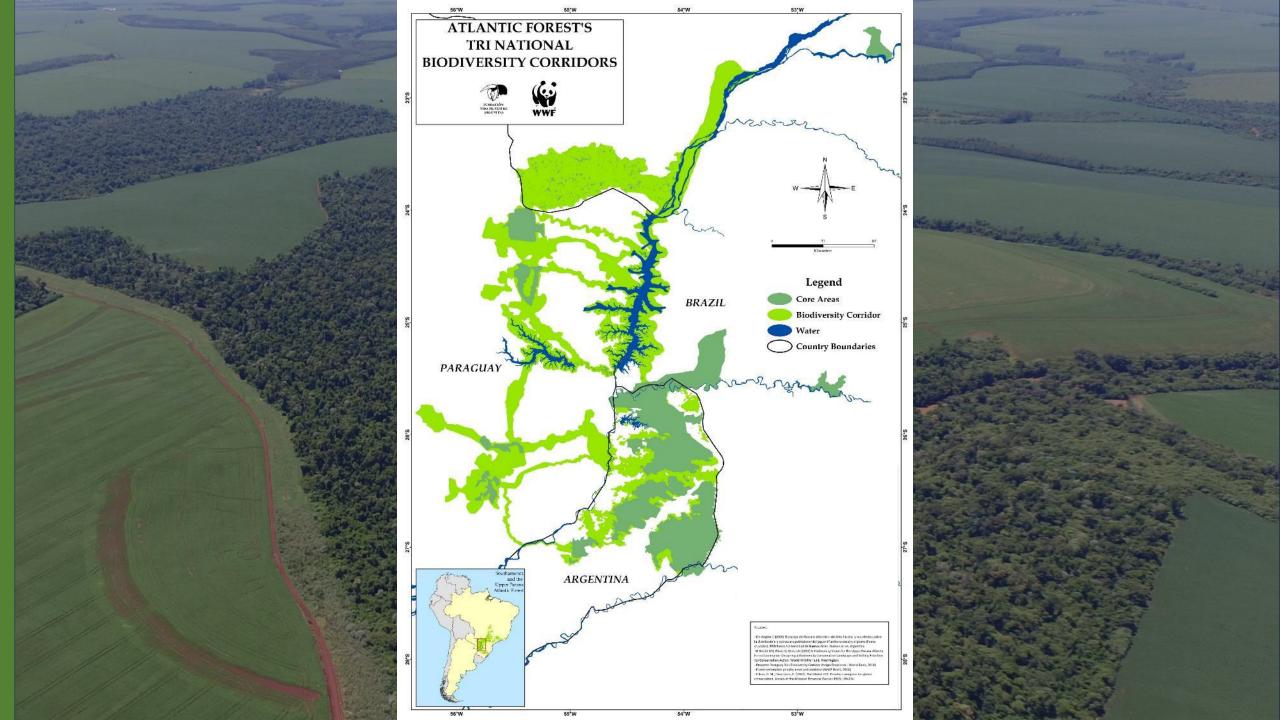




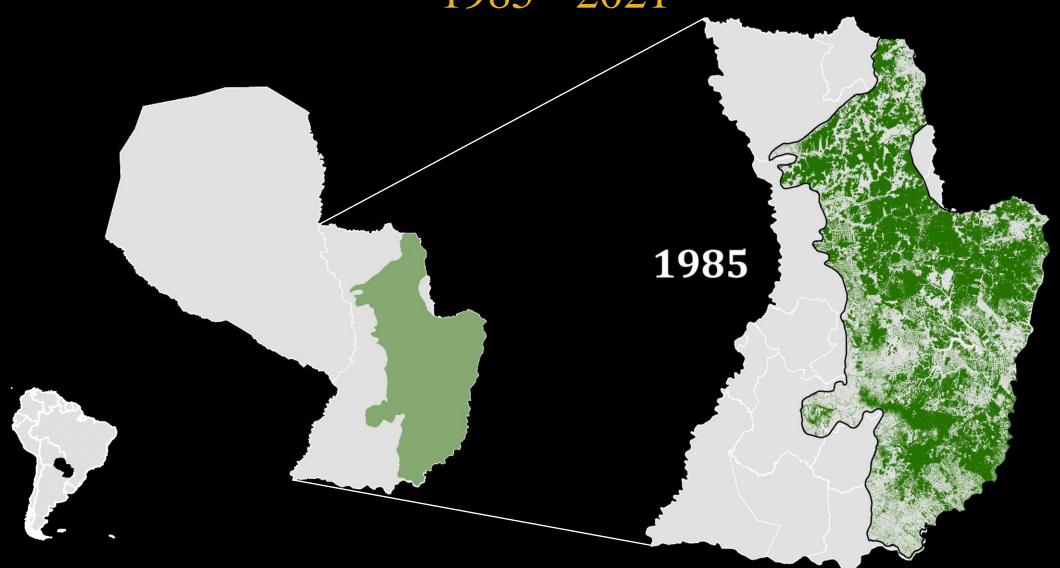


Atlantic Forest Complex

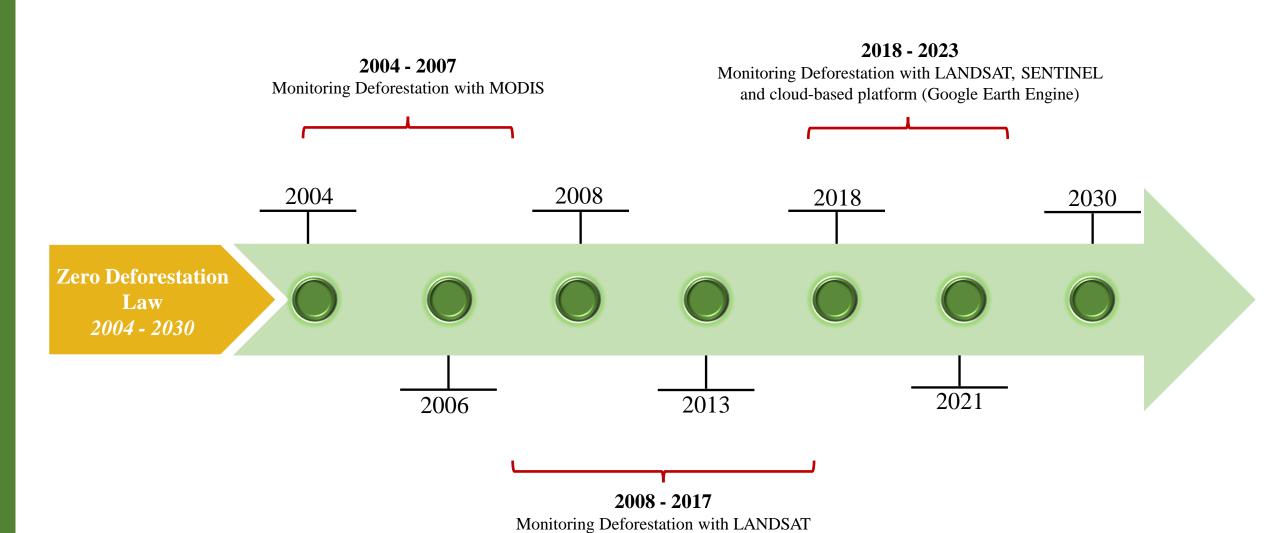




Forest cover – Atlantic Forest 1985 - 2021



Deforestation in the Atlantic Forest

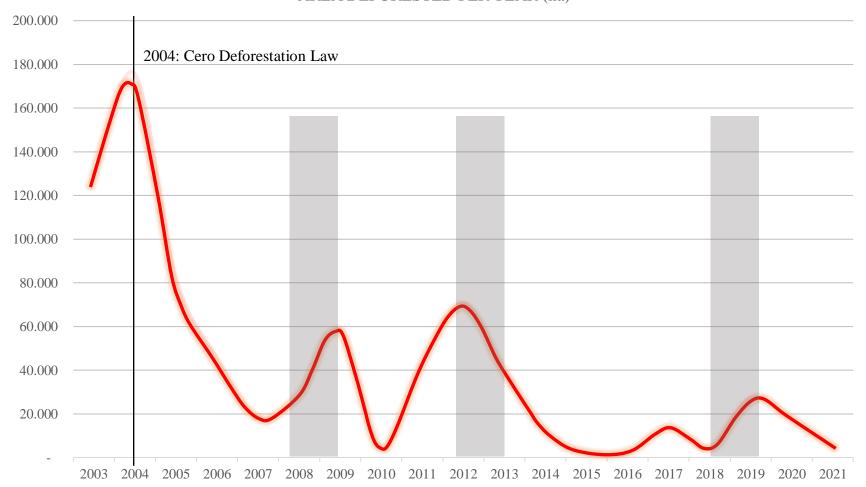


Deforestation of the Atlantic forest in Paraguay

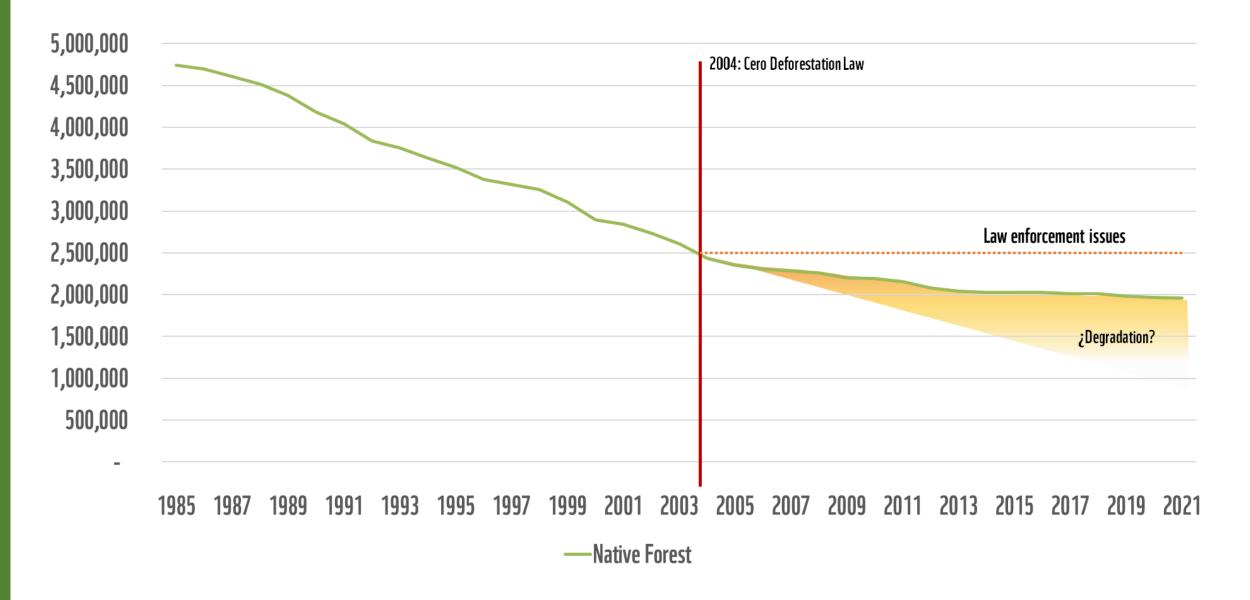
YEAR	DEFORESTED AREA (ha)
2003	128.083
2004	175.670
2005	81.847
2006	45.523
2007	18.412
2008	28.398
2009	58.577
2010	4.169
2011	43.397
2012	70.617
2013	40.127
2014	11.850
2015	2.136
2016	1.884
2017	13.228
2018	4.346
2019	27.251
2020	17.290
2021	4.318
TOTAL	777.124

Source: MapBiomas 2022

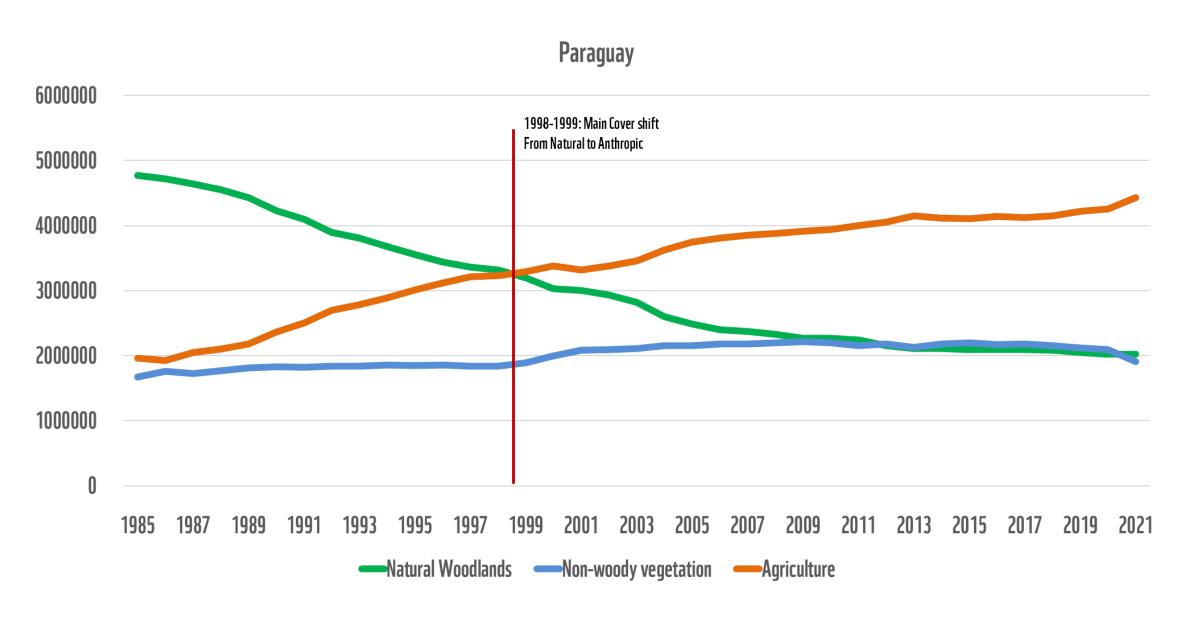
AREA DEFORESTED PER YEAR (ha)



Atlantic Forest Coverage in Paraguay



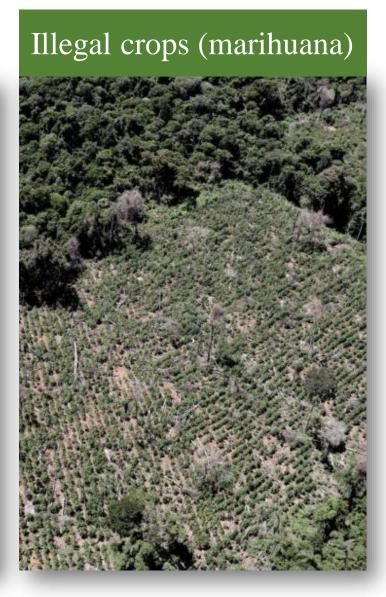
Coverage in the Atlantic Forest in Paraguay



Drivers of deforestation



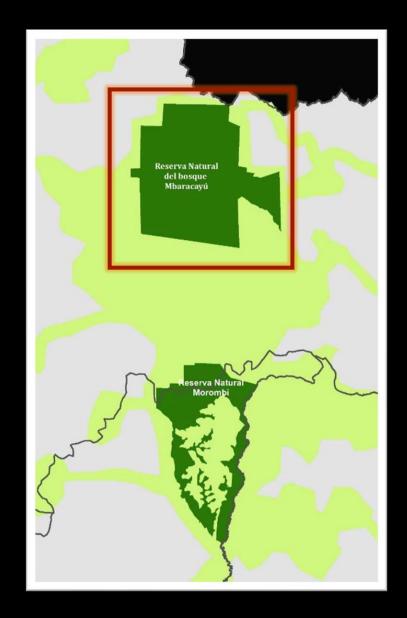


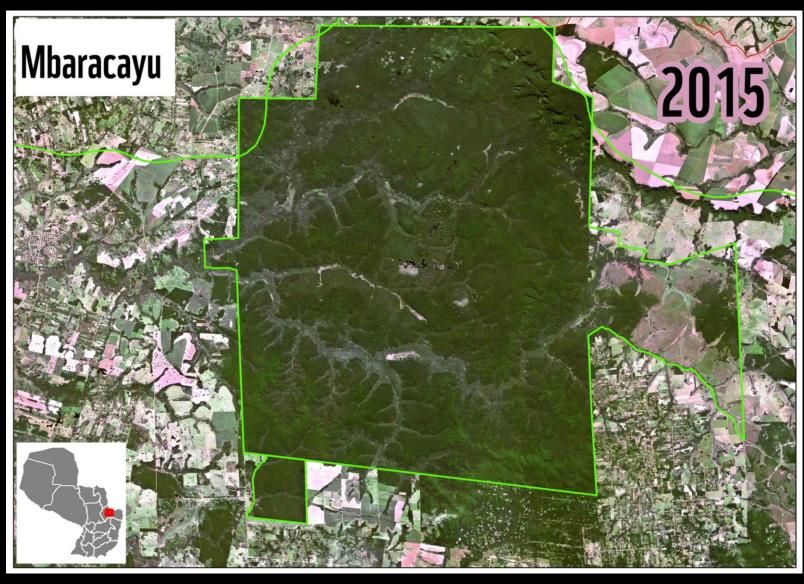


Corridors between protected areas

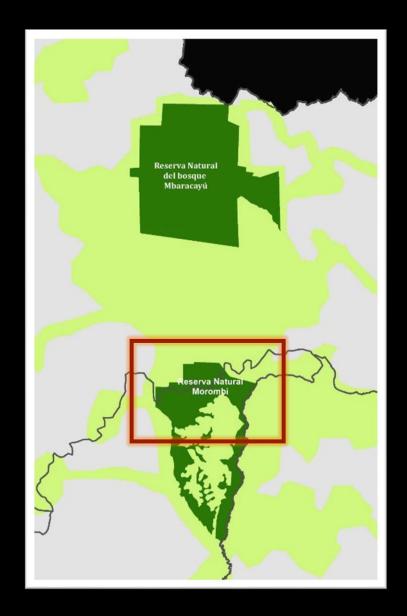


Protected Areas and the Marihuana expansion





Protected Areas and the Marihuana expansion





What we did...



SOCIAL PACT AND ZERO CONVERSION LAW

Public campaign that led to the creation of legislation that has been successful in reducing deforestation.



PARAGUAY LAND-USE (PARLU)

Initiative "Protecting Forests for the Benefit of Climate, People and Nature in Paraguay".



SUPPORT OF PRIVATE PROTECTED AREAS AND PES

Support in the creation and maintenance of private protected areas. Plus, the promotion of payments for forest services.



RECOGNITIONS TO THE PUBLIC SECTOR

The vice President
The Ministry of the
Environment.
The congress.

Opportunities











The Atlantic
Forest was chosen
among the 10
priority UN
Global
Restoration
Flagship Initiative
To restore 1 b
hectares

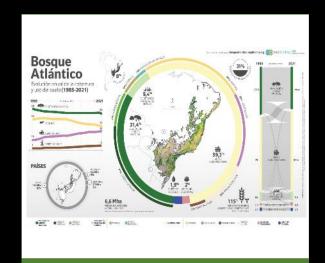


The era of cloud-based deforestation monitoring



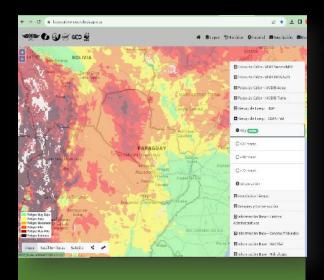
GLOBAFOREST WATCH

Forest monitoring designed for action. GFW offers the latest data, technology and tools that empower people everywhere to better protect forests.



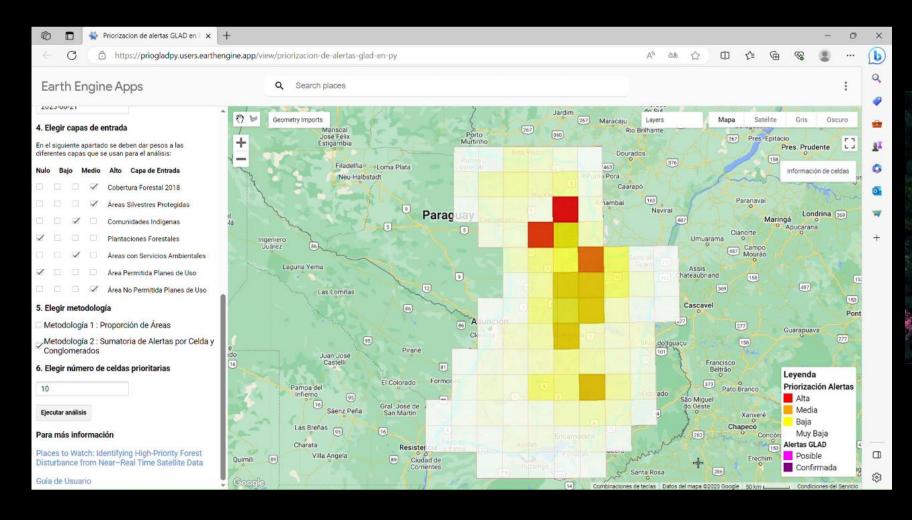
MAPBIOMAS

Platform with historical data of the Atlantic Forest (1985 to 2021). Presents annual land cover and land use maps for Argentina, Brazil and Paraguay.



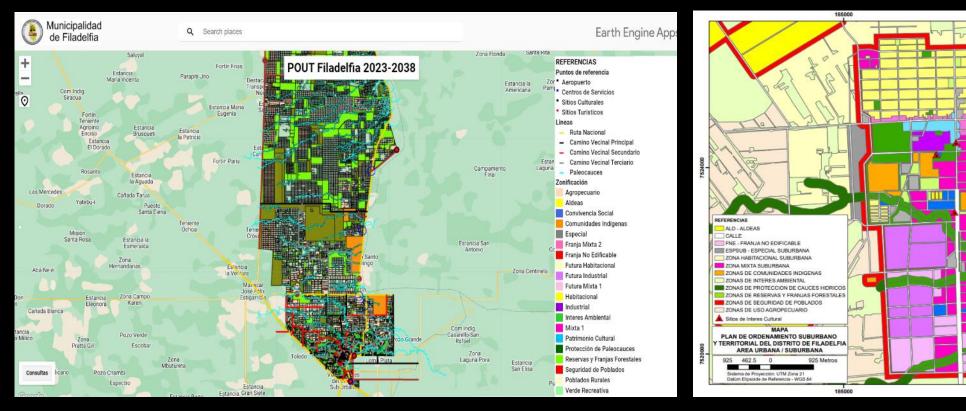
FIRE PLATFORM
FOR HOTSPOTS
AND RISK
POTENTIALS

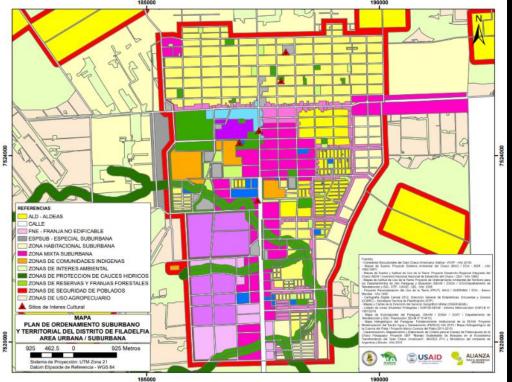
Spatial prioritization of GLAD deforestation alerts in Paraguay





Urban and Territorial Use Planning (POUT)





Rural View

Urban View

AREAS OF INTEREST FOR FUTURE ACTIVITIES

There is a lot to cover for the future, to mention some:

- The need for an in-depth study of the local climate shifts and the effects of deforestation to model future scenarios.
- Focus on change detection for land use and land cover, and particularly, for ecosystem degradation, fires and burned areas, floods and water surface and their alert systems.
- Natural resources studies with remote sensing and geoinformatics using computer coding like artificial intelligence, need to be prioritized for the future.
- And, access restrictions to very hight resolution data sources will continue to limit the development of better monitoring systems.



