



GEO IN COLOMBIA

Ricardo Quiroga GEO Coordinator









GRUPO DE OBSERVACION DE LA TIERRA

Opportunity to Build the Right View of Colombia.

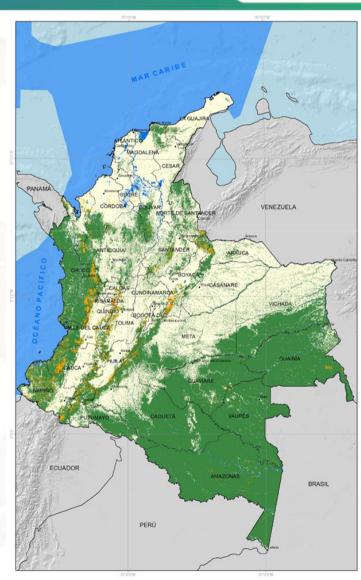
AREA-POPULATION.



2.129.748 km²

1.141.748 Km2 Land

48.321.405 population.



MULTICULTURAL COUNTRY





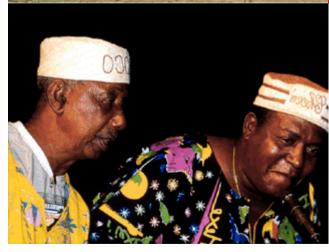
MaAnhone















BIODIVERSIDAD



1- Colombia Ecosystems Monitoring?

2- GEOBON?

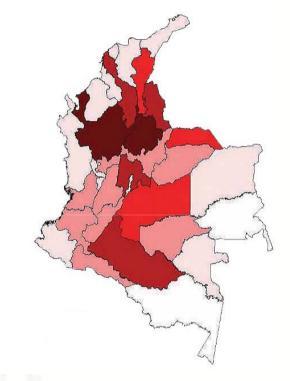


Political Conflict- 50 year war



Peace negotiation will bring huge changes in Colombian Society.

We need development strategies.



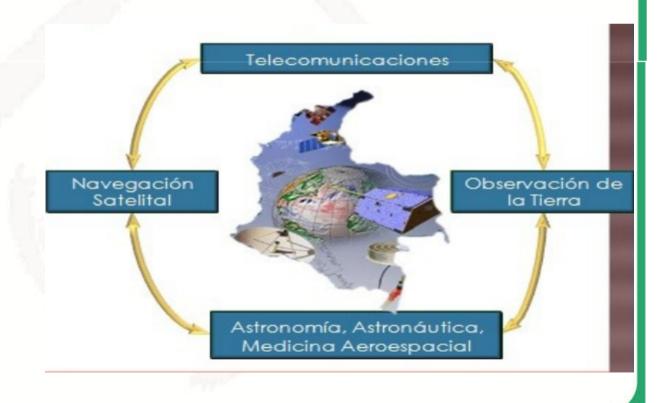


COLOMBIAN SPACE COMMISSION





Spatial
Program
without
satellites?
But, we
have GEO



COLOMBIA IN GEO



Member since 2011



Caucus leader 2014-2015

Organizing Caucus meeting in October 9-10 in Bogota.

GEO IN COLOMBIA



9 SBA Groups. 2013

Work Route Planning.



Articulation geo Initiatives and projects. 2014

 Articulation with initiatives from GEO-GEOSS



 Working in Implementation Plan 2016-2025

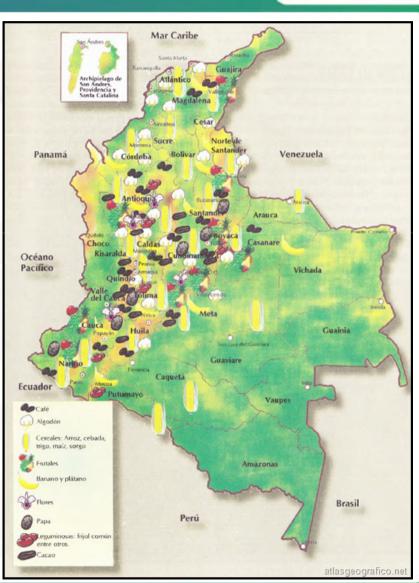


Agriculture in Colombia

22 productive chains

Lack in agriculture information System.





Duplicating Gas Reserves to 2035





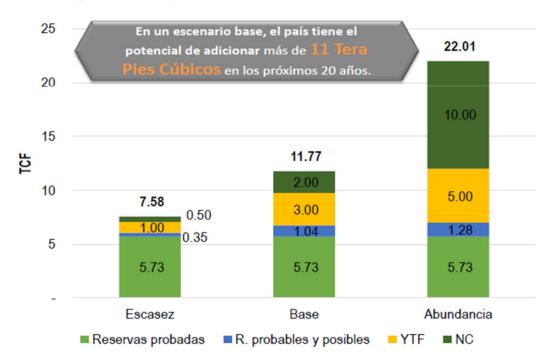




Proyecciones y Oportunidades

Colombia 2014

Reservas de Gas (2013-2035)



Fuente: Actualización de escenarios de oferta de hidrocarburos 2013-2035. UPME 2014.

COLOMBIA:
The perfect environment



18 million has. For Gas- Oil. 19 platforms off shore.





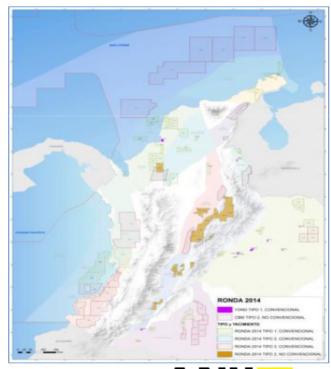
Procesos Competitivos

Colombia 2014

Ronda Colombia 2014

Superficie total en oferta (ha)	
Convencionales Continentales	7′061.223
Convencionales Costa Afuera	8'627.372
No Convencionales de petróleo y gas en esquistos	1′553.989
No Convencionales de gas asociado a mantos de carbón (CBM)	1'037.628
Total	18'280.212

Tipo de Áreas/Bloques en oferta	
Convencionales Continentales	58
Convencionales Costa Afuera	19
No Convencionales de petróleo y gas en esquistos	18
No Convencionales de gas asociado a mantos de carbón (CBM)	POR DEFINIR
Total	95



COLOMBIA: The perfect environment



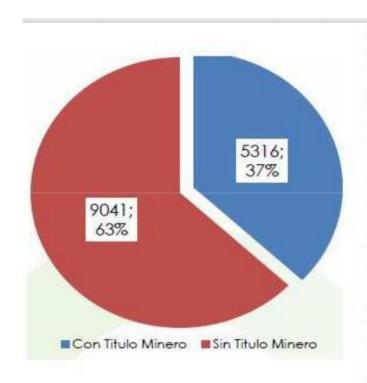


Illegal Mining in Colombia









Departamento	Total		Con Titulo	Minero	Sin Titulo A	Ainero
	UPM	% Fila	UPM	% Fila	UPM	% Fila
otal	14.357	100,0%	5.316	37,0%	9.041	63.0%
Antioquia	2.025	14,1%	424	20,9%	1.601	79.1%
Atlántico	266	1,9%	29	10,9%	237	89,1%
lolivar	1.432	10,0%	85	5,9%	1.347	94,1%
oyacá	2.649	18,5%	1.804	68,1%	845	31,9%
Caldas	203	1,4%	55	27,1%	148	72.9%
Caquetá	219	1,5%	207	94,5%	125	255%
Cauca	544	3,8%	68	12,5%	476_	87.5%
Cesar	135	,9%	121	89,6%	145	10,4%
Córdoba	303	2,1%	14	4,6%	289	95,4%
Cundinamarca 📗	1.391	9,7%	695	50.0%	696	50.0%
Chocó	527	3,7%	4	,8%	523	99,2%
tvila	418	2,9%	308	73,7%	110	26,3%
a Gvajira	282	2,0%	5	1,8%	277	98,2%
Nagdalena 👚	564	3,9%	5	.9%	559	99,1%
Neta	109	.8%	64	58,7%	45	41,3%
Norte De Santander	858	6,0%	464	54,1%	394	45,9%
Risaralda 💮 💮	161	1,1%	28	17,4%	133	82,6%
antander	1.055	7,3%	477	45,2%	578	54,8%
olima	316	2,2%	129	40,8%	187	59,2%
/alle Del Cauca	249	1.7%	50	20,1%	199	79,9%
trauca	45	.3%	19	42,2%	26	57,8%
Casanare	105	.7%	82	78.1%	23	21,9%
outumayo	501	3,5%	179	35,7%	322	64,3%

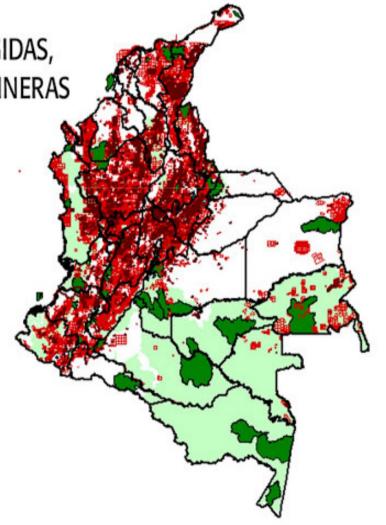




MAPA DE ZONAS PROTEGIDAS, TÍTULOS Y SOLICITUDES MINERAS

CONVENCIONES





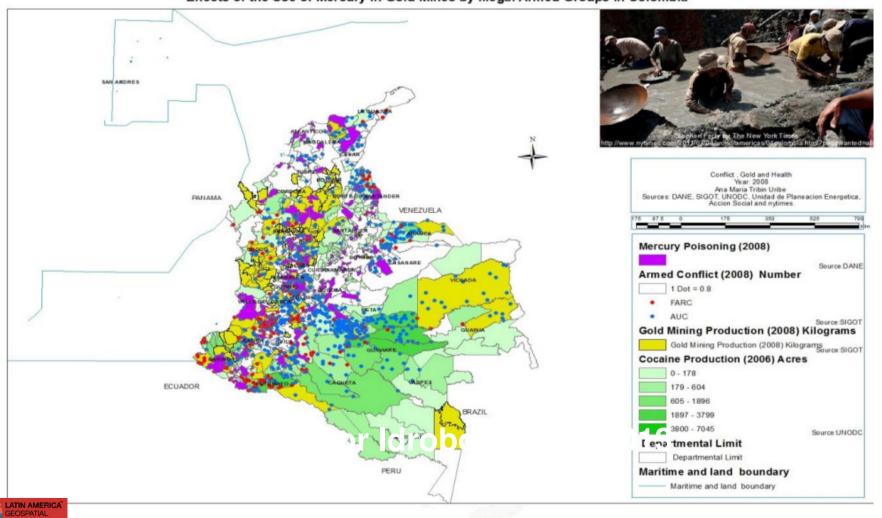
Illegal Mining + Mercury







Effects of the Use of Mercury in Gold Mines by Illegal Armed Groups in Colombia



INFRASTRUCTURE





Architecture of Data --- Data Processing.

- -New **Open data Law in 2014** for goverment institutions.
- -Standards of data need it .
- -Short Apps development.

Spatial Data Infrastructure IGAC



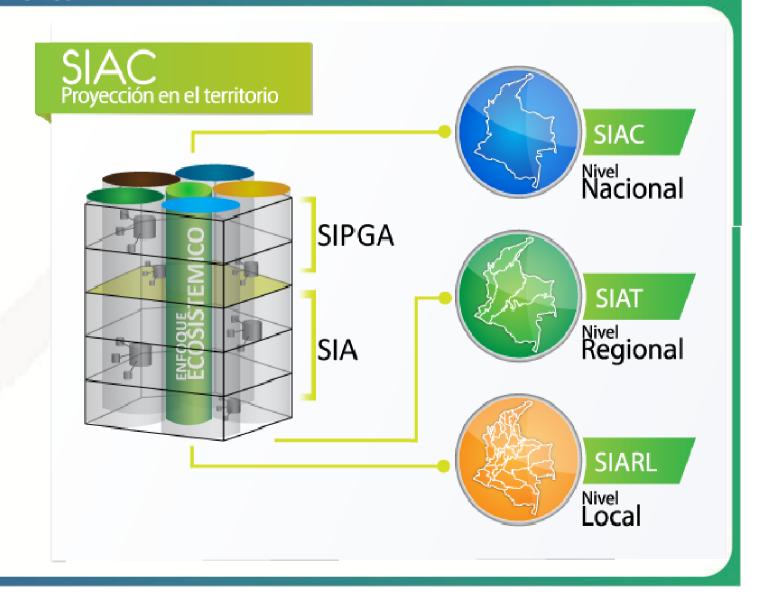






Environmental Information System of Colombia





GEOPORTAL SERVICIO **GEOLOGICO**







DIRECCIÓN: Diagonal 53 NO. 34 - 53 - Bogotá D.C. Colombia - Teléfonos: (571) 220 0200 - 220 0100 - 222 1811 - Línea de atención: (571) 01 - 8000 - 110842 - Fáx: (571) 222 07 97 - Atención al ciudadano: lunes a viernes 8.00 a.m. a 5 p.m. para todas nuestras sedes. Todos los derechos reservados 2005 - 2010. Apartado Aereo A.A 4865 Políticas de privacidad y términos de uso | Nuestras sedes | Contáctenos: cliente@sgc.gov.co |Notificaciones judiciales

BIODIVERSITY INFORMATION SYSTEM. VON HUMBOLDT









ACERCA DEL SIB SERVICIOS DE INFORMACIÓN ACTUALIDAD

CERTIFICADO DE REPORTE

BIENVENIDO AL SIB COLOMBIA

El SiB es una iniciativa de país que tiene como propósito brindar acceso libre a información sobre la diversidad biológica del país para la construcción de una sociedad sostenible.



AGRONET









GEOPORTAL IGAC



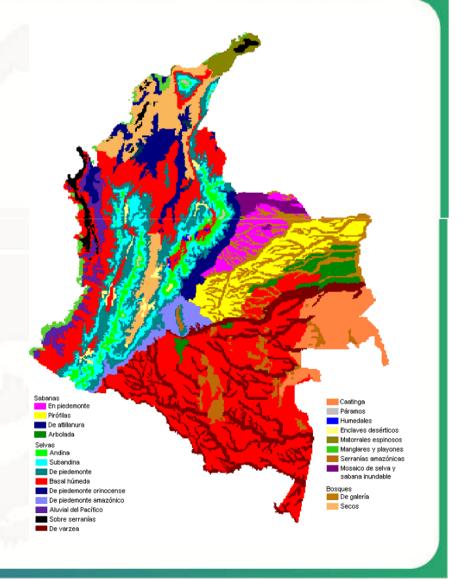


CARTOGRAFIA NACIONAL 1:100.000



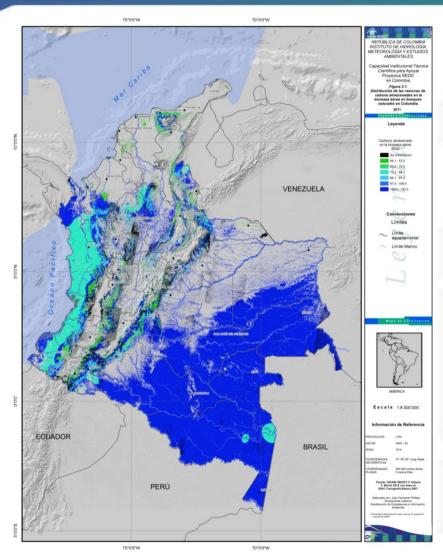
Land cover program 1:20.000-5.000 in GEO framework?

What About Acces to Sentinel Constellation?



FOREST MONITORING SYSTEM GFOI





Carbon Stocks estimations for 16 forest types.

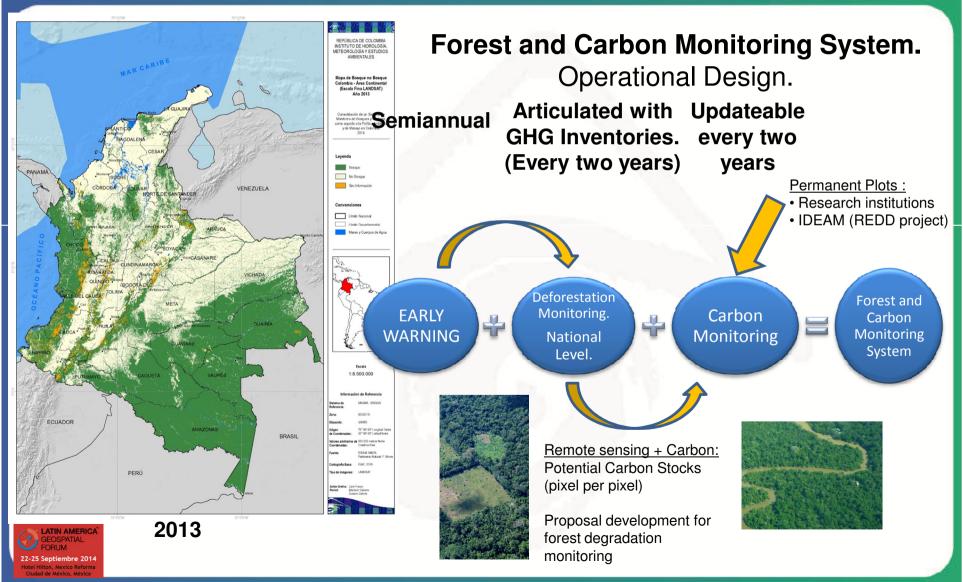
Total AGB (ca. 7,6 PgC)

Uncertainty associated 2,54%

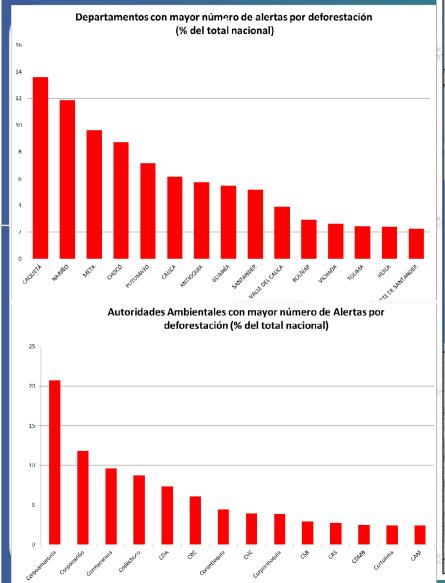
Average 269,4 ± 4,041 t ha⁻¹

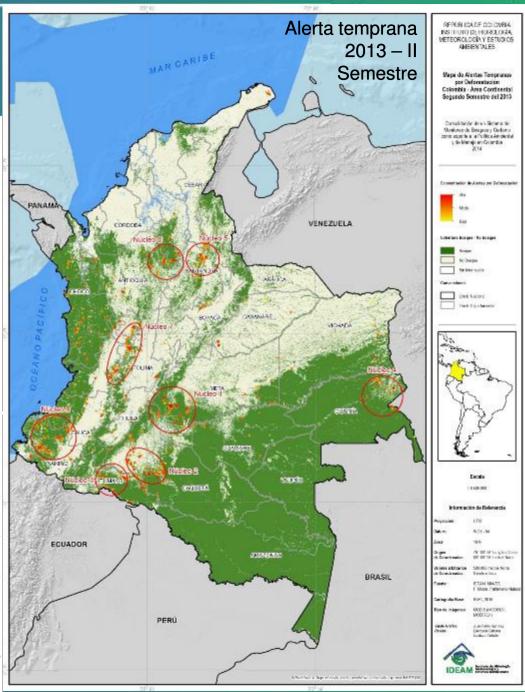
Status of National MRV Implementation





Deforestation Early warning Reports.





INFORMATION FOR SOCIAL BENEFIT AREAS



Disasters

-Colombia was nominated to

be user in June 15

-Need Disasters
Mapping and
Prevention Planning
including Urban Areas.





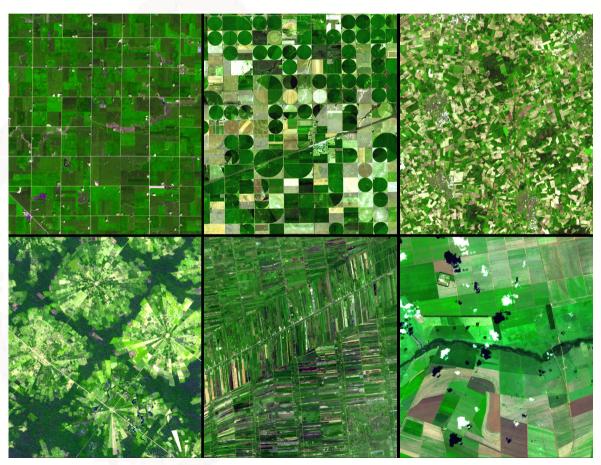
GEO GLAM-ARGENTINA COOP.



Agriculture

GEO GLAM?

National workshop November 10-11

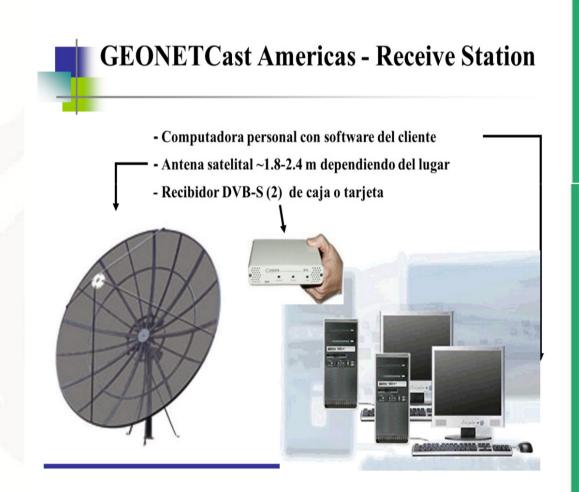


Geonetcast



- -Purchasing 11 units for several Institutions:
- -Workshop in Geonetcast.

Community of practice in Geonetcast in Americas.

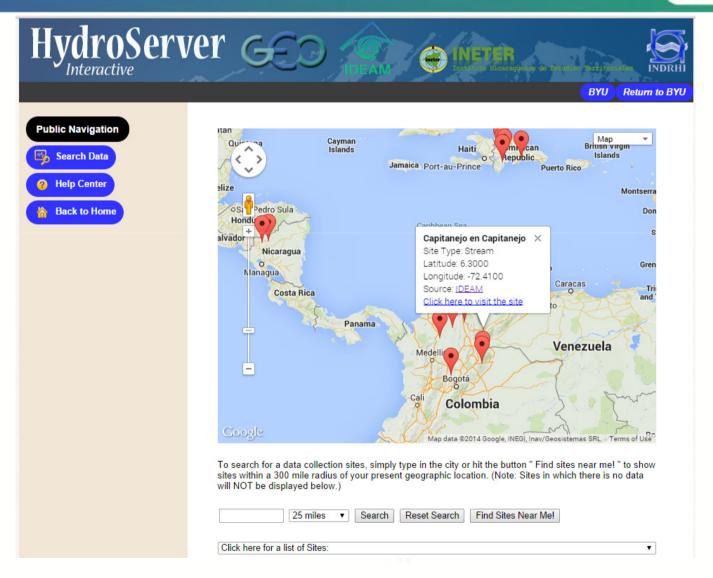


COOPERATION IN WATER DATA MANGEMENT









UNIVERSIDAD DISTRITAL-IDEAM-NOAA-U. BRIGHAM



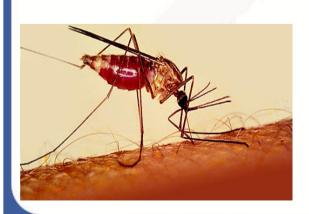
RIO ARIARI
FLOW
PREDICTION
AND
MODELLING OF
DATA.
INVESTIGATION.

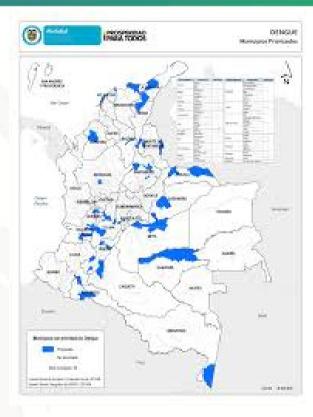


HEALTH INVESTIGATION INS-IDEAM-GEO-NOAA



7 year data Environmental health data and modelling. early warning- visor.





REGIONAL CHALLENGES



- Dialogue for regional approach.
- Working groups participation.
- Initiatives according to our conditions
- Private sector relationship
- Info Systems Integrating GEOSS
- Funding mechanisms to promote GEO in the region.





THANK YOU!!!

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