

# Gabon's SNTBG

EIA's mobile app-based transparent traceability system



# EIA's vision for transparent and traceable natural resource management

- Status quo = paper permits
- Widely recognized need for digital traceability systems
- Most international initiatives set out to create the “Cadillac” system
- Too expensive, too much time → lose the moment of political will

## EIA's vision:

- Offer an open-source system that can quickly be adapted to new countries



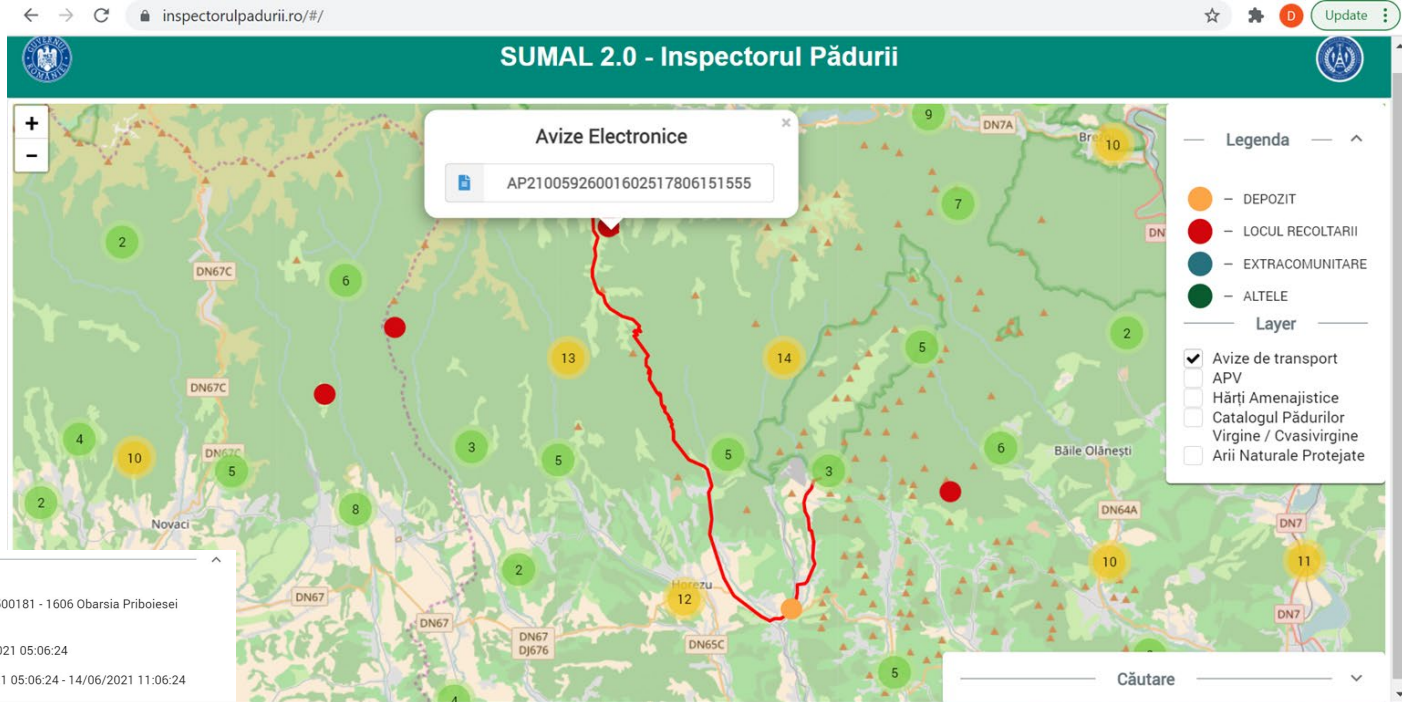
From this



To this



# Romania: SUMAL and Forest Inspector



Informații Aviz de Transport	
Tip Transport: Locul Recoltării	Proveniența: 2000158500181 - 1606 Obarsia Priboiesei 1729027
Cod Aviz: AP21005649001202347806141506	Data Emisiei: 14/06/2021 05:06:24
Nr. Identificare Mijloc Transport: VL10VIR	Valabilitate: 14/06/2021 05:06:24 - 14/06/2021 11:06:24
Informații Entități Implicate	
Volum	
Poze Transport	

- Real-time, open access, easy to understand
- SUMAL (2014); “Forest Inspector” public window (2016);
- SUMAL 2.0 (2021) - more comprehensive, but transparency still falls short of legal requirements





# Gabon Context: Kevazingo-gate; EIA investigation

## Kevazingo-gate: 2019

- 300 containers of seized kevazingo logs went missing
- VP and Minister of Water, Forests and the Environment sacked

## EIA Investigation: 2018

- Main documented illegalities (Gabon and Republic of Congo)  
<https://eia-global.org/reports/20190325-toxic-trade>:
  - Fraudulently obtaining concession rights (100,000+ ha)
  - Over-harvesting (in particular okoume, by 5,000+ m<sup>3</sup>)
  - Harvest of non-authorized species;
  - Operation without management plan for 10+ year (>1 million m<sup>3</sup> exported)
  - Exporting well over log quota
  - Tax evasion (\$3-6.7 million/year)
  - Corruption (few thousand to hundreds of thousands, and likely millions of dollars in bribes)



# SNTBG Overview

## Système de Traçabilité du Bois du Gabon

- Built as open-source software by Code4Nature in cooperation with EIA, and in close collaboration with Gabon's MEF
- Digitization of Gabon's forest sector regulations – moving from paper to digital
- Android smartphone based; functions offline
- Differentiated user access according to permission level:
  - Gov't admin – full access
  - General gov't user – specified access according to role
  - Company – management access over own company data
  - Public – transparent access without login to all non-sensitive data
- EIA's goal: to make digital, transparent, traceable supply chains easy, cheap and universal





# Systeme de suivi du bois MINEF

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L'outil numérique pour la gestion et la transparence du secteur forestier  
gabonais





Ministère des  
Eaux & Forêts

# SYSTÈME DE TRAÇABILITÉ 'MINEF'

Grâce au QR CODE nous pouvons  
suivre les arbres et les colis au  
cour de leur transport et à  
chaque étapes de leur  
transformation.

Toutes les informations sont  
transmises sur des serveurs  
en temps réel.



## EXPORTATION



Marché  
Locale



Code4nature



3



## Forest Harvesting

AAC inventory

Harvest permit (Carnet d'abattage)

Log collection permit (Carnet de chantier)

Transport permit



## Processing and export

Transformation (90%)

Log stocks management

Processing

Processed products  
transport permit

Export declarations



The development of these modules is the result of the digitization of the Gabonese legal and regulatory framework (Forest Code, Décrets, arrêtés,...) governing the harvest and processing of wood.



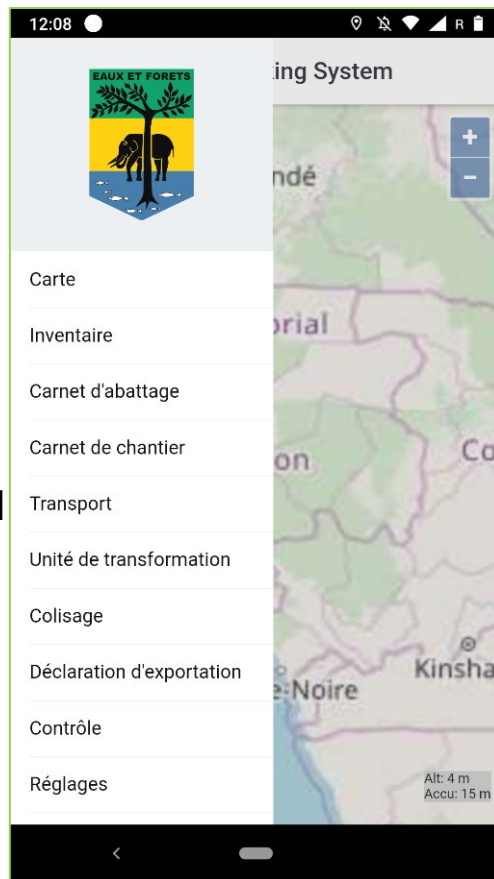


# SNTBG Mobile App



The mobile application consists of 8 modules

The app is available on Google Play, and functions on most Android phones.



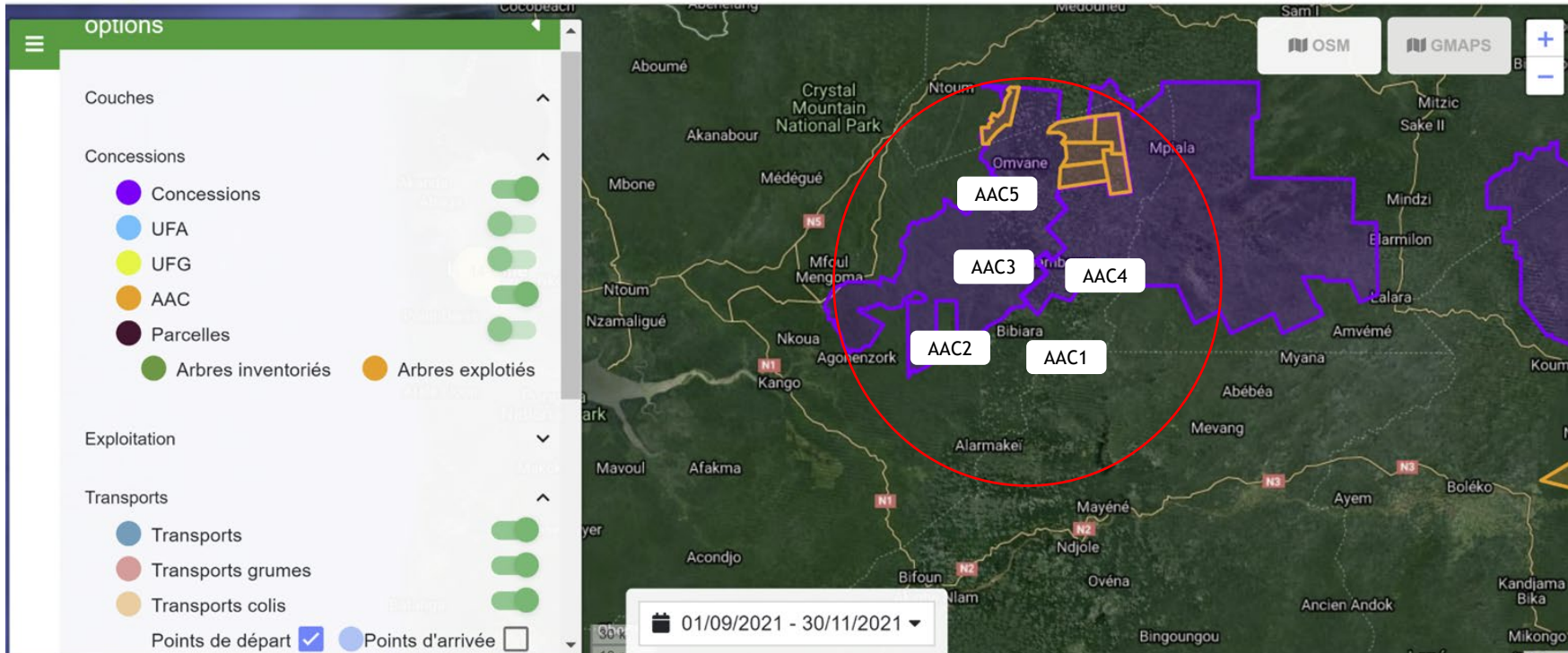


# Harvest Authorizations



## Concession and AAC boundaries

Géoportail Administration ▼ Base de données Transport ▼ Rapports ▼





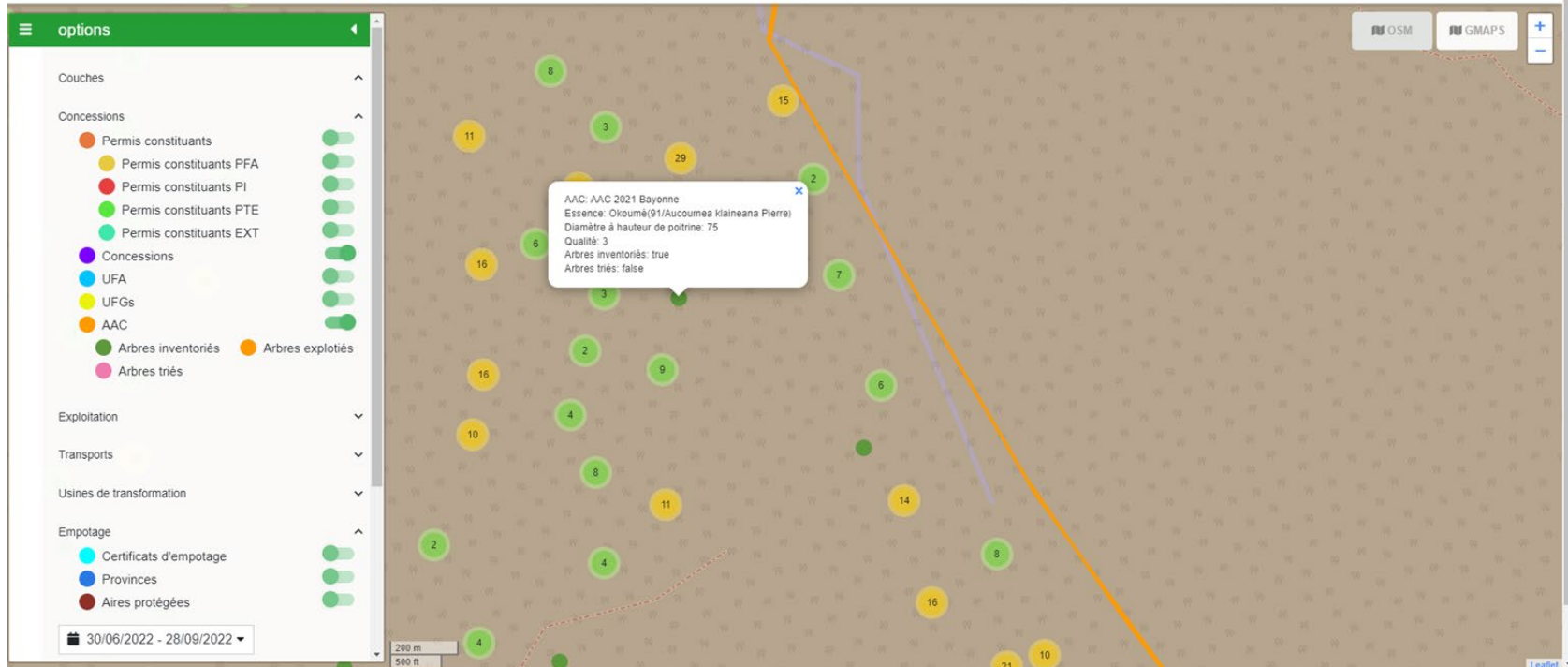
# Harvest Inventory and Felling



AAC inventory (tree by tree)



Géoportail Administration Base de données Transport Rapports







# Log Transport

Information principale

\*permit\_no\_geo\* 22\_13\_ZAP\_27

Observé le 2022-07-13 10:08:22

\*PermitType\* PI

Information

Société de transport

Société de transport AHN

Expéditeur

Chauffeur Theo

Client destinataire

Moyen de transport Truck

Plaque d'immatriculation JM-166-AA

Images du transport



EXPORTER PDF

VOIR LE TRANSPORT SUR LA CARTE



Bordereau de roulage 22\_13\_ZAP\_27

ID:	4054	Número bordereau:	22_13_ZAP_27
Concession:	Zap Kango Bloc 3	UFA:	Zap Kango UFA Bloc 3
AAC:	Zap Kango AAC Bloc 3	UG:	Zap Kango UFG Bloc 3
Client destinataire:	AHN	Propriétaire du bois:	NZILA-FORÊT-BOIS
Société de transport:	AHN	Statut:	*in_progress*
Nom de conducteur:	Theo	Plaque d'imm:	JM-166-AA
*ProvinceName*:	Estuaire (Libreville)	Unité de transformation:	AHN
Moyen de transport:	Camion	Nombre total de pièces:	9
Lat:	0.04136	Longitude:	10.26239
Date:	2022-07-13 09:50:00	email:	pointeurnzilaforetb@gmail.com
Source du bois:	-	Observations:	RAS

Número bordereau	Número de la grume	Le non complet de l'essence	Diamètre petit bout (cm)	Diamètre gros bout (cm)	Diamètre moyen (cm)	Longeur (m)	Volume (m3)
22_13_ZAP_27	3003/2	Padouk(102/Pterocarpus soyauxii Taub.)	45	50	47.5	12.5	2.217
22_13_ZAP_27	3004/1	Padouk(102/Pterocarpus soyauxii Taub.)	52	56	54	10.9	2.497
22_13_ZAP_27	3004/2	Padouk(102/Pterocarpus soyauxii Taub.)	42	52	47	11.3	1.968
22_13_ZAP_27	218/1	Okoumé(91/Aucoumea klaineana Pierre)	74	80	77	12.3	5.731
22_13_ZAP_27	3002/1	Padouk(102/Pterocarpus soyauxii Taub.)	69	70	69.5	13	4.932
22_13_ZAP_27	3003/1	Padouk(102/Pterocarpus soyauxii Taub.)	50	64	57	13	3.334
22_13_ZAP_27	1040/2	Padouk(102/Pterocarpus soyauxii Taub.)	46	50	48	11.9	2.155
22_13_ZAP_27	1040/1	Padouk(102/Pterocarpus soyauxii Taub.)	50	60	55	11.6	2.764

Número bordereau	Número de la grume	Le non complet de l'essence	Diamètre petit bout (cm)	Diamètre gros bout (cm)	Diamètre moyen (cm)	Longeur (m)	Volume (m3)
22_13_ZAP_27	1041/1	Padouk(102/Pterocarpus soyauxii Taub.)	40	40	40	11.6	1.458



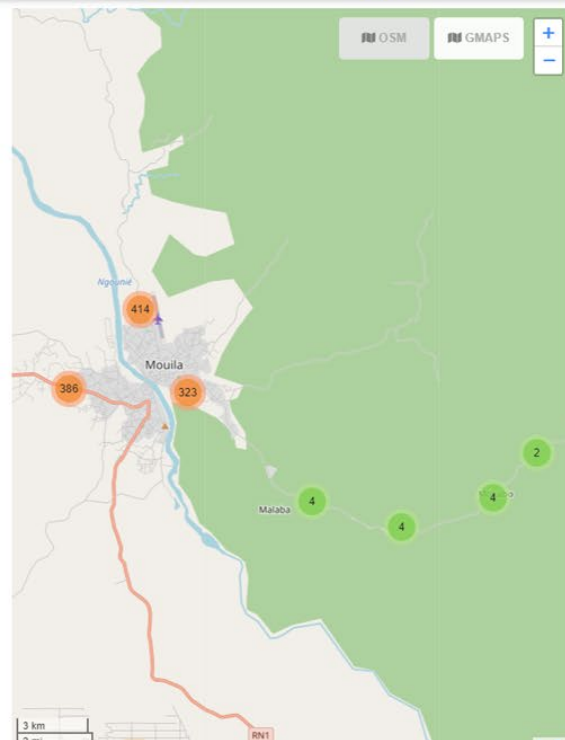
# Processing



## Finished products registration



Géoportail Administration Base de données Transport Rapports



colis

approuver

APPLIQUER EN MASSE

date de début - date de fin

tout

rechercher

éléments visualisés

20

par page:

<input type="checkbox"/>	numéro	essence	numéro colis	Nombre total de pièces	volume	type de produit	Type de bois	unité de transformation	société propriétaire du bois	email	approuvé	date	actions
<input type="checkbox"/>	7388	Okan(OKA N/Cylicodiscus g...	GQO 09	28	2.835	Débites o u sciage	green wood	Scierie mokabo	GWI MOKABO	respon sablec olisage gwi@y...	true	2022-07-18 20:39:2...	
<input type="checkbox"/>	7387	Okan(OKA N/Cylicodiscus g...	COO 14	28	2.268	Débites o u sciage	green wood	Gwi MOKABO	Gwi MOKABO	respon sablec olisage gwi@y...	true	2022-07-18 20:39:2...	
<input type="checkbox"/>	7386	Okan(90/C ylicodiscus gab...	GQK 11	110	0.325	Débites o u sciage	green wood	Usine GWI Mokabo	GWI MOKABO	respon sablec olisage gwi@y...	true	2022-07-18 20:37:4...	
<input type="checkbox"/>	7385	Okan(90/C ylicodiscus g...	GQK 10	104	0.615	Débites o u sciage	green wood	Usine GWI Mokabo	GWI MOKABO	respon sablec olisage gwi@y...	true	2022-07-18 20:37:4...	



# Export



## Loading Permits

Géoportail Administration Base de données Transport Rapports



options

Couches

Concessions

Exploitation

Transports

Usines de transformation

Empotage

Certificats d'empotage

Provinces

Aires protégées

30/06/2022 - 28/09/2022

Images satellitaires

Recherches

Société: (ZHENGYUAN GABON)  
Essence: Andoung Le Testu  
Numéro colis: ZBH835,ZBH950,ZBG  
746.CG354.CG745,AJ 547,AJ353,CG  
583.CG750,AI450  
Type de produit: pt\_sawmwood  
Certification: Non Certified  
Valeur volume: 220.000,00  
Valeur totale: 3.080.000,00  
"total\_price\_geo": 0,00  
Volume exporté: 14,000  
Niveau de transformation: 2nd transformation  
Pourcentage MINEF: 92.400,00  
Numéro de contrat: 2488259 et 10/2620  
"container\_no\_geo": **MSMU1043929**  
"seal\_no\_geo": EU24122160  
Mode d'embarquement: Container  
Destination: Chine  
Postes de contrôle fluviaux/maritimes: Owendo  
Observé le: 2022-07-07 16:11:58

Organic

Commissariat

Sanivit

SOBRAGA

PAVILLON

Port d'Owendo

Carrefour de l'indépendance

Ministère de la réconciliation

CGTE (Compagnie Gabonaise de Travaux)

Gabon Global Logistics

Pointe Owendo

Baie d'Igoumé

track-trace.com/container

Mailing Addresses f... Official documents... Bookmarks Random Rings Russia RFE Report Clothes Plywood

track-trace Container tracking for: **MSMU1043929** Origin: Mediterranean Shipping

Mediterranean Shipping

Select company

Alternative tracking options: [RSS](#) [msc.com](#)

Location

Description

Date

Vessel

Voyage

Location

Description

Date

Vessel

Voyage

Location

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Location

Description

Date

Vessel

Voyage

Location

Description

Date

Vessel

Voyage





# Web Application and Geoportal



## Reports and Statistics

Géoportail Administration ▼ Base de données Transport ▼ Rapports ▼

### Statistiques

type de forêt ▼

\*concession\_breakdown\* ▼

SEEF-TLP ▼

Sélectionnez essence ▼

SOUMETTRE

nom de l'AAC	arbres exploités	arbres autorisés	volume exploité	grumes confisquées	superficie
AAC2017	5.00	34.00	14953.42	34.00	511.32
AAC2018	1.00	40.00	70.54	0.00	468.86
AAC2021	55.00	177.00	170664.65	0.00	464.24
AAC2019	7.00	151.00	2797.12	0.00	474.23
AAC2020	8.00	42.00	688.01	714.00	466.26
Total	76.00	444.00	189173.75	748.00	2384.91



\*tree\_harvested\*

\*tree\_authorized\*

Milicia excelsa

Morinda lucida Benth.

Nauclea diderrichii

Panda oleosa Pierre

Poga oleosa Pierre

Prioria balsamifera

Pterocarpus soyauxii Tau

Testulea gabonensis Pelle



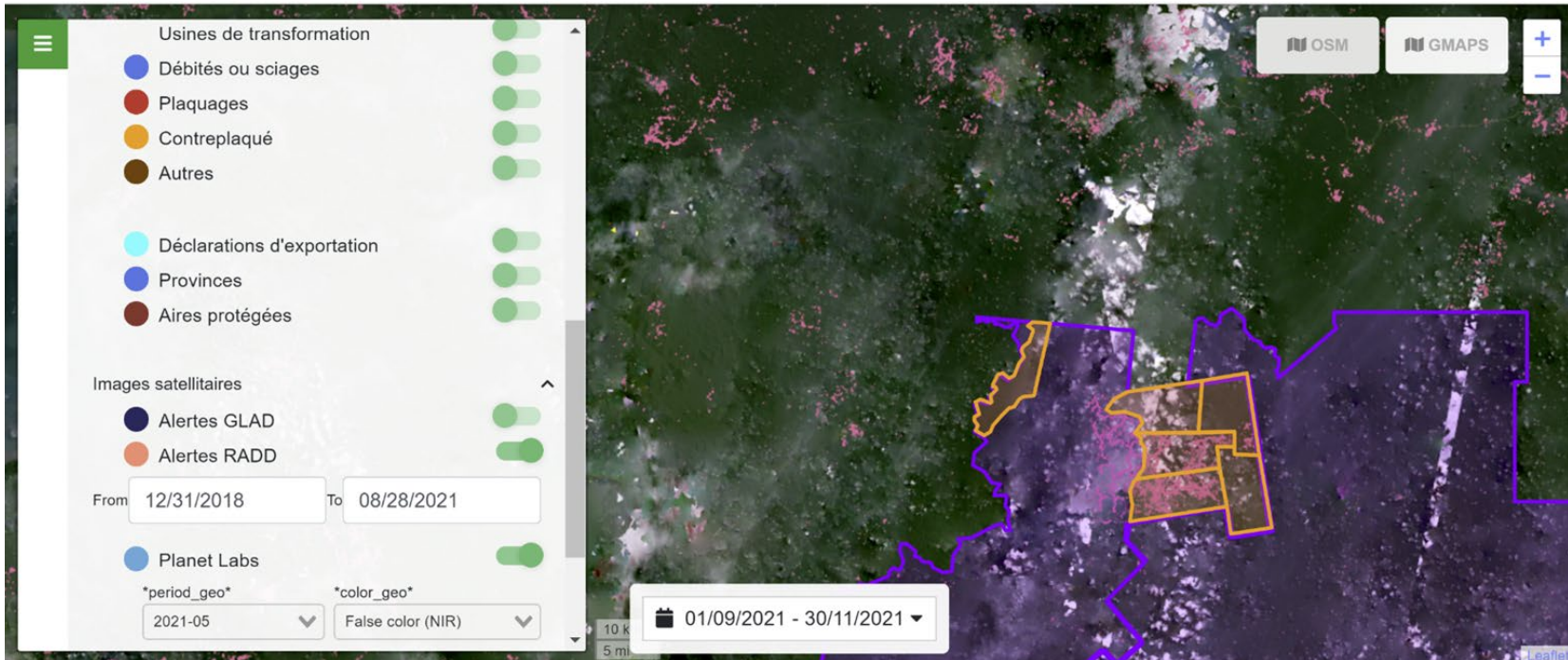
# Web Application and Geoportal



## Geoportal: extra layers



Géoportail Administration ▼ Base de données Transport ▼ Rapports ▼



# Timeline

**2022 – Gradual implementation of national traceability system**

**January 2023 – official start of phased-in system implementation**

**Real data = Real stakeholder engagement**

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