

# CONTRIBUTIONS AND INITIATIVES OF THE COFFEE SECTOR

27th. Comission UE Meeting





## Technology at the Service of Coffee Growers

It is an initiative whose objective is to digitize and automate information to provide effective and timely solutions for coffee producers in Guatemala.



**GIS**  
ANACAFÉ



**COFFEE  
CLOUD**  
ANACAFÉ



**MEJOR SUELO  
MEJOR CAFÉ**  
ANACAFÉ



**COFFEE  
SEARCH SYSTEM**  
ANACAFÉ

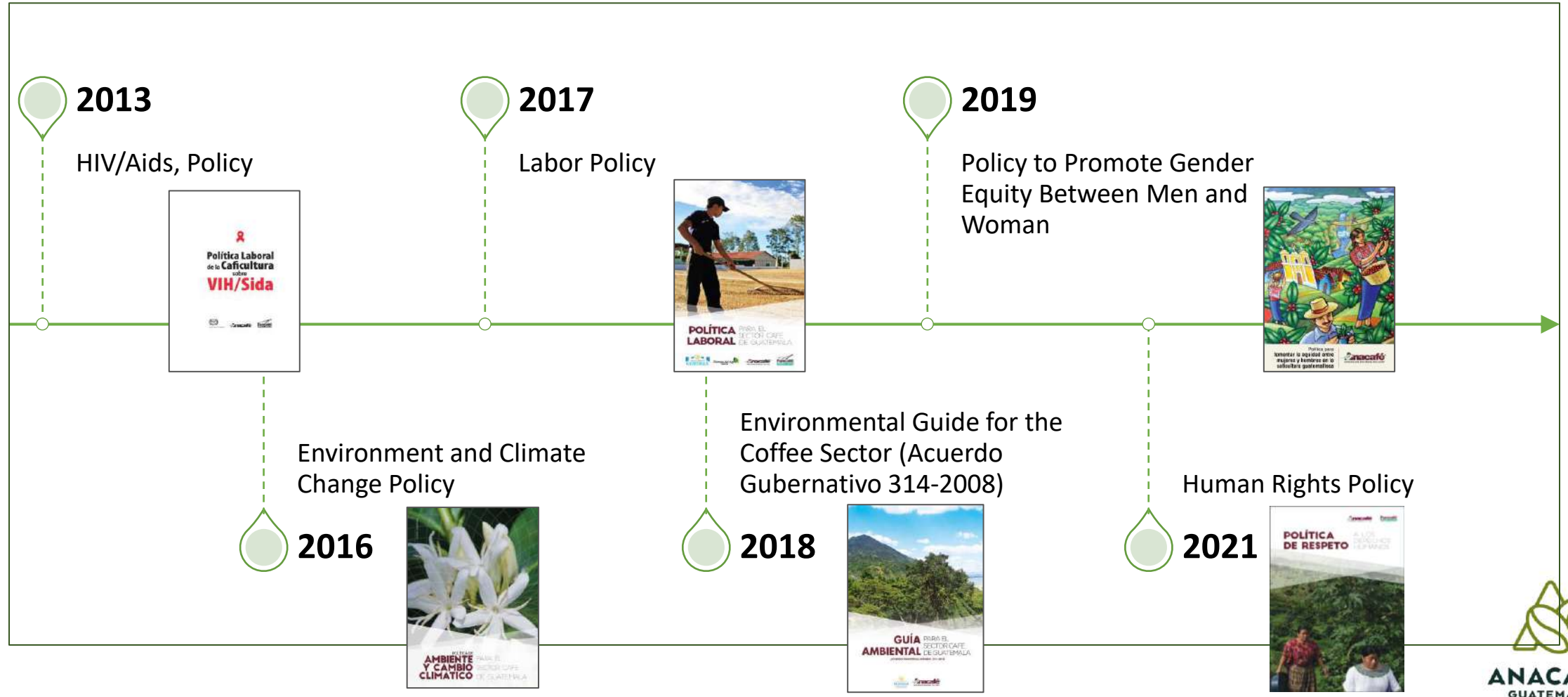


**COFFEE  
SHOPS GT**

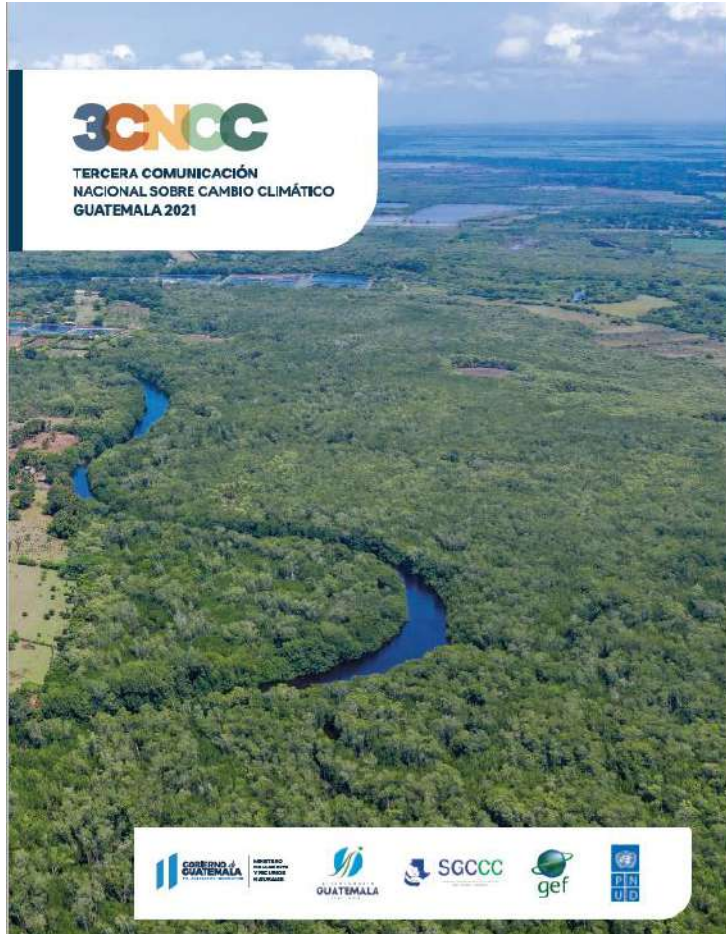


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# A focus on sustainability and compliance



# 3rd national communication on climate change 2021



Ministry of Environment and Natural Resources of Guatemala -MARN- recognizes the activities and good practices of the coffee sector as **"Sustainable Coffee Production"**.

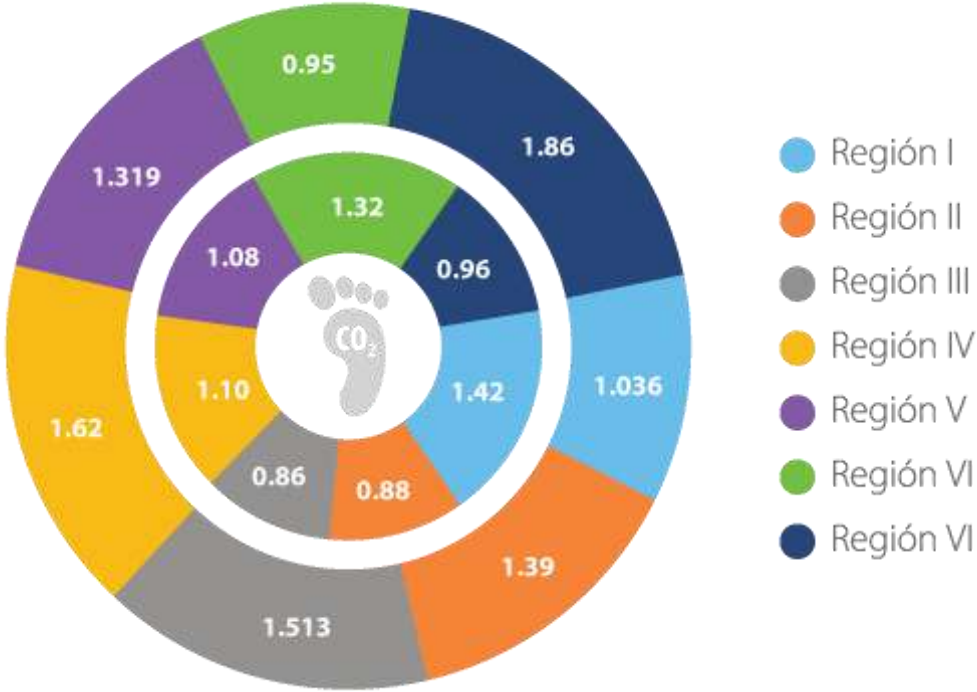
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# Value chain roadmap:

opportunities and challenges

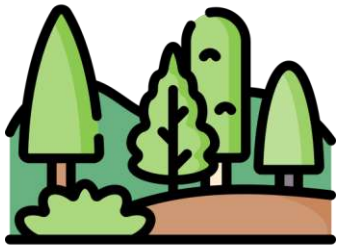
# App *Huella de carbono* (Carbon Footprint)

Carbon footprint comparison by region  
Year 2017 – 2022



| Year | Average KgCO2e/kg cps |
|------|-----------------------|
| 2017 | 1.34                  |
| 2022 | 1.09                  |

## Carbon removal and sequestration 2022



**785,983**  
tons retained in the  
Agroforestry System

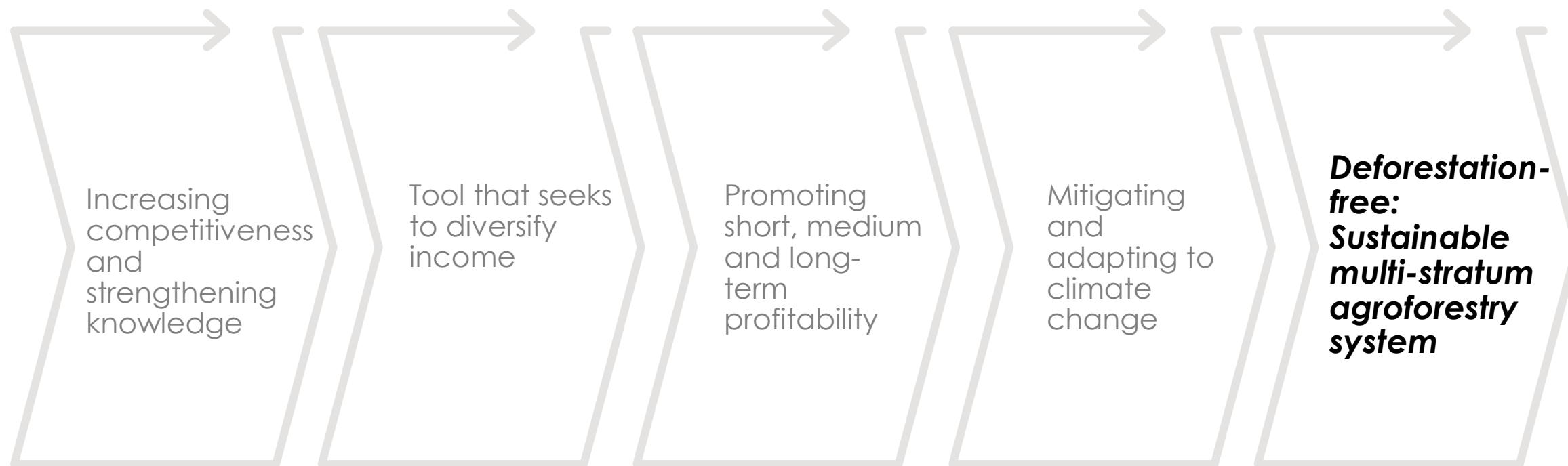


**11,882**  
tons produced in a  
sustainable process

# Biodiversity and ecosystem services strategy



# Development of an agroforestry strategy for the sustainability of the sector



# **Recommendations for the benefit of the Guatemalan coffee producer exporting to the European Union**



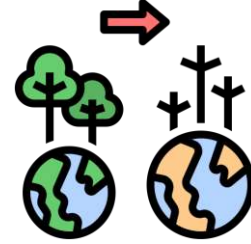
# Recommendations for the benefit of the coffee producer:



Registration of the farm



To adopt the Sustainable Profitability Program



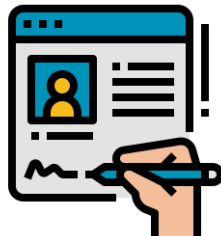
Avoid the change of land use



To maintain and promote the ecosystem services



Elaboration of an environmental impact instrument



To register the farm with the National Forestry Registry of the National Forest Institute -INAB-.



Use of free apps: Carbon Footprint (Greenhouse Gases) and Coffee Cloud (efficient use of pesticides)



Seek the support offered by GIS-Anacafe

# GIS

Geographic Information System



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# GIS support

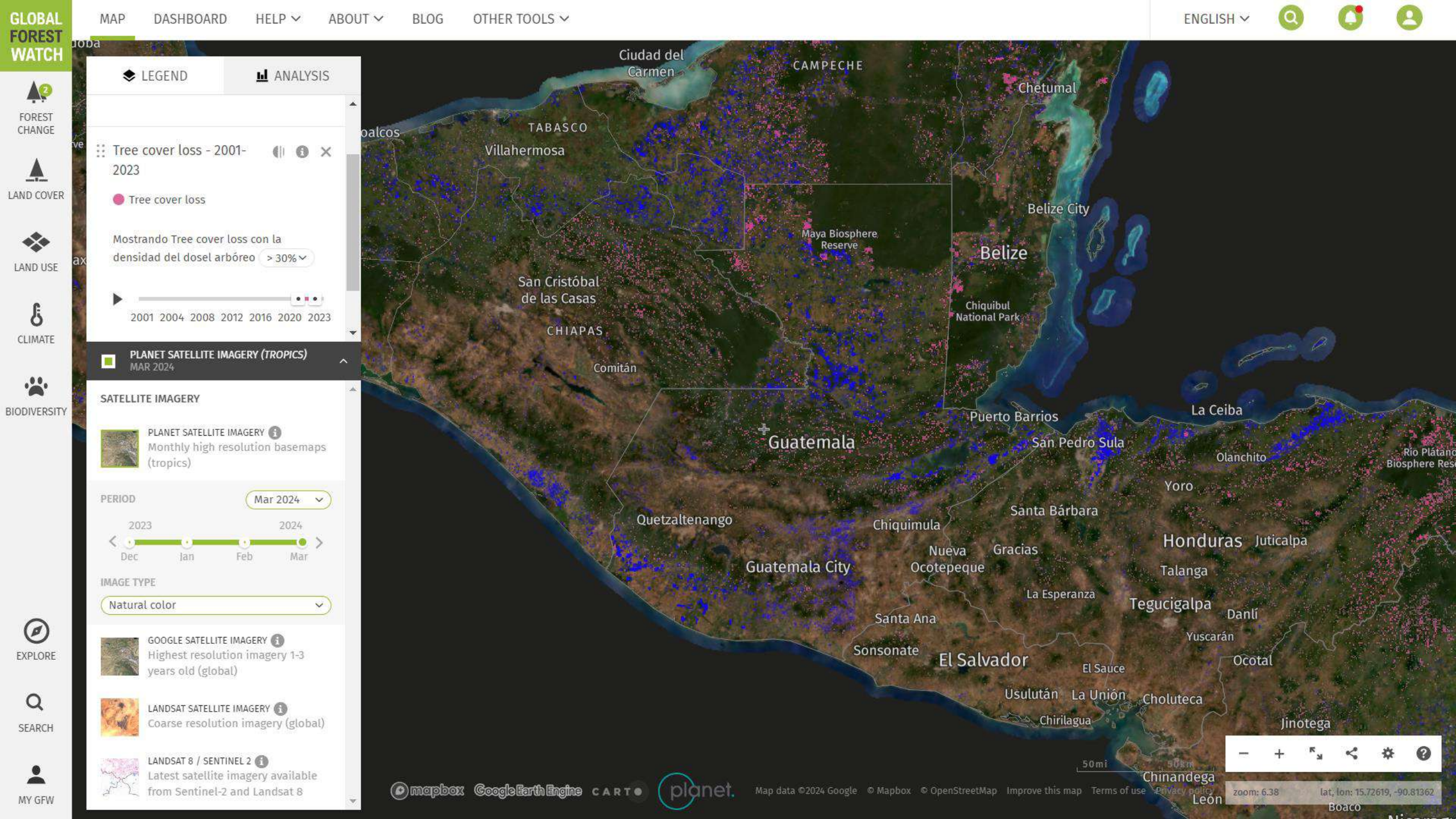
## Geolocation

- Digital Mapping
- Collaborative Mapping
- General Support

## Forest Monitoring

- Platform and data management
- Tree cover loss 2020-2022 in coffee-growing area







## Filtros

### Región

☒ Todas las regiones

- ☐ I
- ☐ II
- ☐ III
- ☐ IV
- ☐ V
- ☐ VI
- ☐ VII

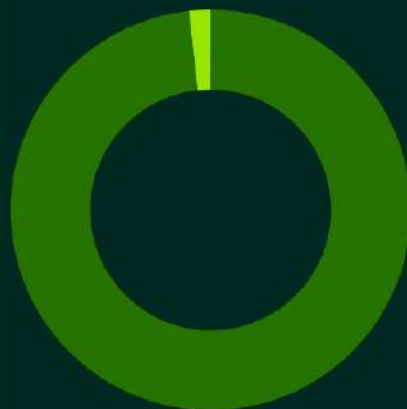
### Departamento

Todos los departamentos

### Municipio

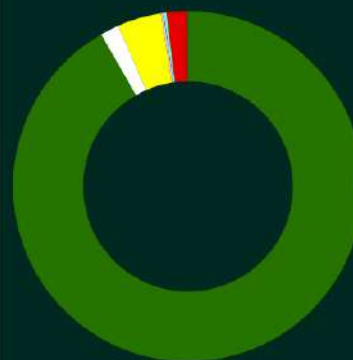
Todos los municipios

## Especie de café



- Coffea arabica (Todas las variedades de arábigos) 98.26%
- Coffea canephora (Robustas) 1.74%

## Arreglo

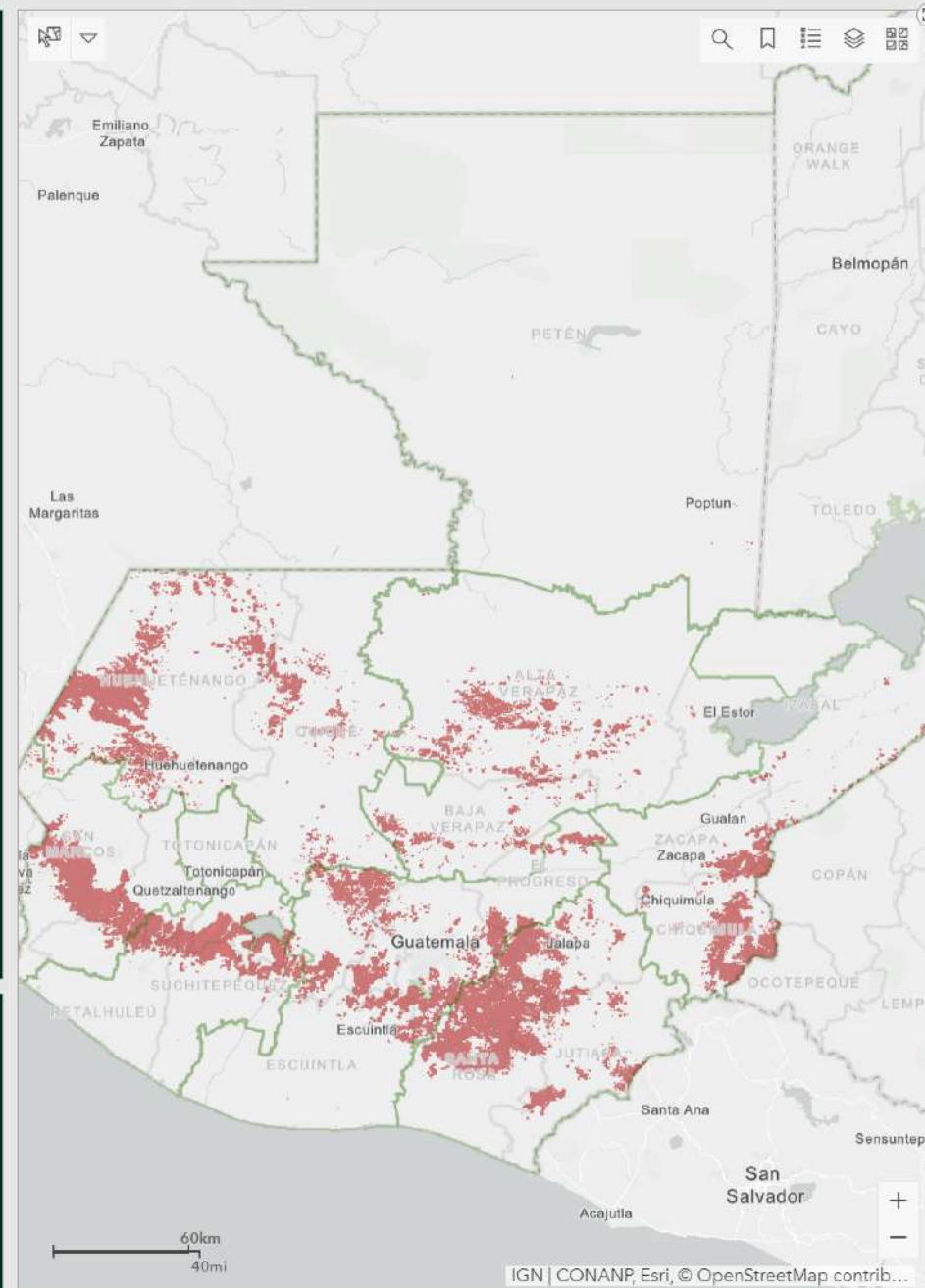


- Monocultivo con sombra 91.7%
- Monocultivo sin sombra 1.7%
- Asocio banano o plátano 4.1%
- Asocio cardamomo 0.2%
- Asocio cacao 0%
- Asocio hule 0.3%
- Asocio macadamia 1.9%
- Otro asocio 0.1%

Área con café  
**376,019**  
Hectáreas

Arábica  
**369,473**  
Hectáreas

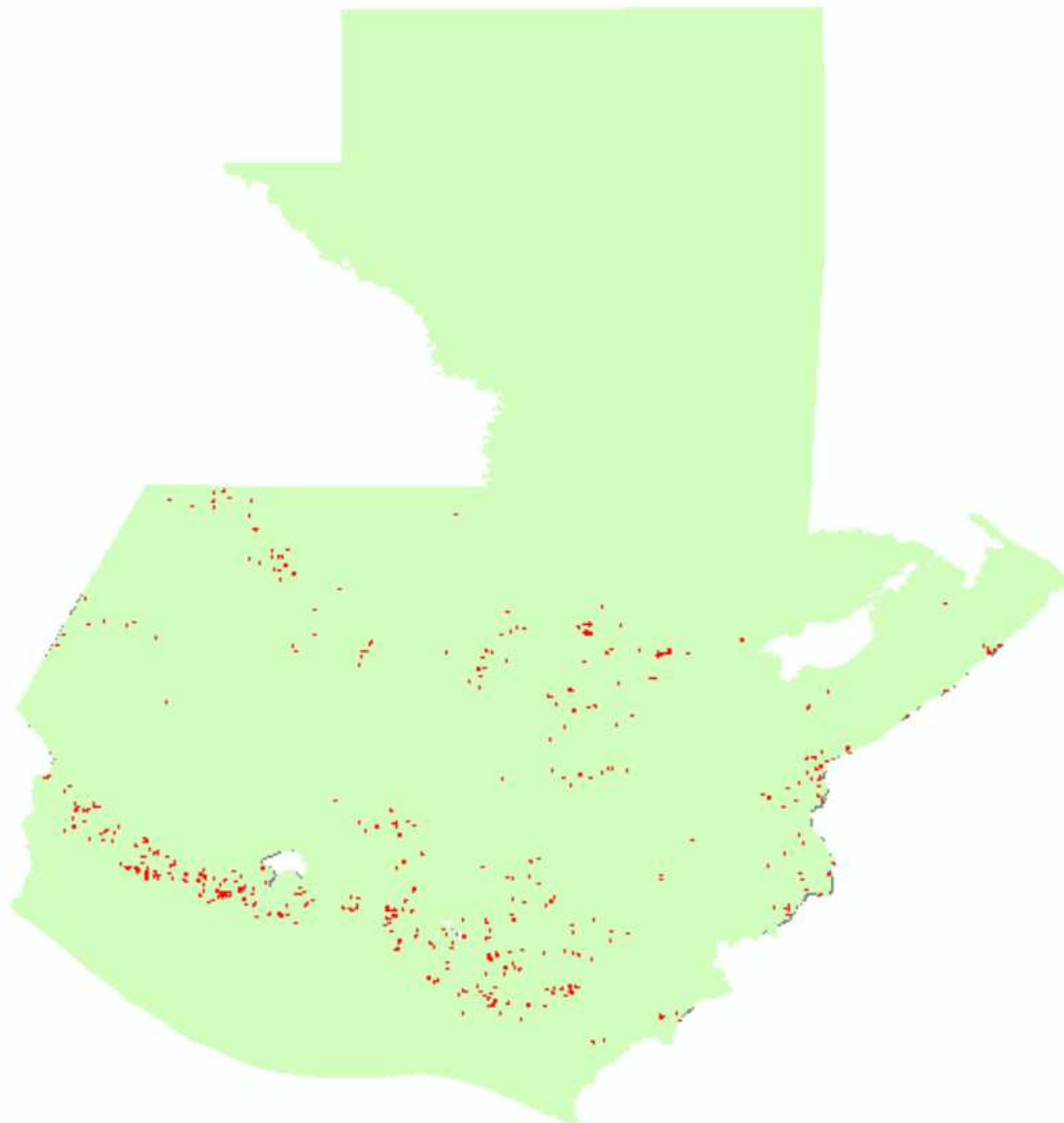
Robusta  
**6,546**  
Hectáreas



## Tree cover loss 2020-2022 in coffee-growing area

| Departament    | Hectares     | Sites        |
|----------------|--------------|--------------|
| Santa Rosa     | 314          | 525          |
| Alta Verapaz   | 275          | 733          |
| Suchitepéquez  | 184          | 452          |
| Quetzaltenango | 120          | 230          |
| San Marcos     | 115          | 232          |
| Sacatepéquez   | 106          | 263          |
| Huehuetenango  | 97           | 471          |
| Zacapa         | 87           | 188          |
| Chiquimula     | 72           | 288          |
| Chimaltenango  | 66           | 237          |
| Escuintla      | 63           | 233          |
| Retalhuleu     | 60           | 115          |
| Guatemala      | 59           | 208          |
| Jutiapa        | 45           | 204          |
| Baja Verapaz   | 43           | 106          |
| Sololá         | 38           | 116          |
| Quiché         | 35           | 231          |
| Izabal         | 34           | 152          |
| Jalapa         | 17           | 59           |
| El Progreso    | 14           | 61           |
| Petén          | 0            | 2            |
| <b>Total</b>   | <b>1,844</b> | <b>5,106</b> |

Coffee growing area **376,019** Hectares  
Possible tree loss **0.49%**



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