

# DATA & METHODS REPORT BÉLIÉR JURISDICTIONAL SUSTAINABILITY PROFILE

This form references data and methods used for the reporting of indicators of the jurisdictional sustainability profile of Béliér, Côte d'Ivoire, in *The State of Jurisdictional Sustainability* published by Earth Innovation Institute and the Center for International Forestry Research, in 2018. Find more at the report website <https://earthinnovation.org/state-of-jurisdictional-sustainability> and <http://gcfimpact.org>.

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**Indicator:** Deforestation

The deforestation extent shown in the map and the annual deforestation series (2001-2017) correspond to areas and figures derived from the analysis of Hansen deforestation.

**Source:** Figures derived from the analysis of the forest and deforestation map of SEP-REDD+ et FAO, 2017. Données de base pour la REDD+ en Côte d'Ivoire. Cartographie de la dynamique forestière de 1986 à 2015. Abidjan, Rome and Hansen/UMD/Google/USGS/NASA data.

**Temporality:** The data shown in the plot includes annual deforestation 2001-2017. The map presents total deforestation from 2001 through 2016.

**Methods:** The authors calculated the extent of spatial explicit annual deforestation during the period 2001-2017 considering the forest loss reported by Hansen/UMD/Google/USGS/NASA data. The Hansen data results from the time-series analysis of Landsat images in characterizing global forest extent and change from 2000 through 2017.

**URL:** [https://earthenginepartners.appspot.com/science-2013-global-forest/download\\_v1.5.html](https://earthenginepartners.appspot.com/science-2013-global-forest/download_v1.5.html)

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**Indicator:** Forest cover

**Source:** forest cover derived from the analysis of Hansen/UMD/Google/USGS/NASA data.

**Temporality:** 2017

**Methods:** the forest extent shown on the map is derived from the Hansen forest cover of 2000 discounting areas that were loss after that year. A canopy cover threshold of 50% was used to identify forest pixels in the Hansen map.

**URL:** [https://earthenginepartners.appspot.com/science-2013-global-forest/download\\_v1.5.html](https://earthenginepartners.appspot.com/science-2013-global-forest/download_v1.5.html)

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**Indicator:** Average deforestation during the FREL period

Forest Reference Levels are benchmarks for assessing a country's performance in implementing REDD+ activities. FRELs are voluntarily constructed and formally submitted to the UNFCCC

(<https://redd.unfccc.int>). The Côte D'ivoire FREL/FRL is based on historical average deforestation during the period 2000-2015. We show the average deforestation during this period as a benchmark of performance in the state.

**Source:** Annual deforestation calculated by the authors as indicated above. FREL period derived from reference level submitted by Ministry of Environment and Sustainable Development, Côte D'ivoire.

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**Temporality:** 2000-2015.

**Methods:** The jurisdictional reference deforestation level shown in the plot is derived from the performance criteria defined by the Côte d'Ivoire government in its submitted FREL. The state FREL is constructed from the average deforestation during 2000-2015 period.

**URL:** <https://redd.unfccc.int/submissions.html?country=mys>

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**Indicator: Average annual emissions from deforestation (Million tons CO<sub>2</sub>e per year)**

This indicator represents the average carbon dioxide (CO<sub>2</sub>e) emissions from deforestation activities considering the carbon pools defined by the Côte d'Ivoire FREL submitted by the Ministry of Environment to the UNFCCC, namely: above-ground biomass, below-ground biomass & litter. Average emissions are calculated using activities from the period 2010-2016.

**Source:** Deforestation area extent derived as documented above and carbon stocks derived from literature and previous reports in the area.

**Temporality:** Average of yearly emissions for the period 2010-2016.

**Methods:** Average emissions calculated by multiplying the spatially explicit deforestation (derived as documented above) with the average carbon density of 192 Tons ha<sup>-1</sup>. Reduction from carbon atomic weight to CO<sub>2</sub> equivalent emissions using a factor of 44:12.

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**Indicator: Drivers of deforestation**

Identifies proximate drivers of deforestation and forest degradation in the jurisdiction. Proximate drivers are direct human actions (i.e. agriculture, mining, cattle ranching, land and resource uses). Natural causes such as floods, droughts and pests are also considered.

**Source:** Jurisdictional LED-R survey undertaken by CIFOR and Earth Innovation Institute in Governors' Climate and Forest Task Force member jurisdictions.

**Temporality:** Survey conducted in 2018.

**Methods:** LED-R Survey implemented in the state based on a questionnaire administered by a designated enumerator to an expert or group of experts in the state.

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**Indicator: Main economic activities**

Indicates the main economic activities in the state based on economic output.

**Source:** Jurisdictional LED-R survey undertaken by CIFOR and Earth Innovation Institute in Governors' Climate and Forest Task Force Member Jurisdictions.

**Temporality:** Survey conducted in 2018

**Methods:** LED-R Survey implemented in the state based on a questionnaire administered by a designated enumerator to an expert or group of experts in the state.

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**Indicator: Population**

Indicates the estimated population in the state in 2017.

**Source:** National Institute of Statistics.

**Temporality:** 2014.

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**URL:** <http://cotedivoire.opendataforafrica.org/apps/atlas/ranks/Total-population?level=regions>

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**Indicator:** Rural and urban population

Proportion of population living in rural and urban areas.

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based on a decision of the German Bundestag

