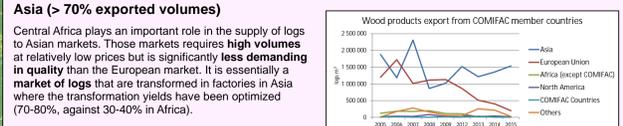


Markets and the Asian market place in the wood sector in Central Africa

Trade in tropical timber from natural forests is marginal in relation to global timber production due, on the one hand, to the prevalence of local trade and, on the other hand, to the dominance of timber from temperate forests and plantations. Central Africa's position in world timber production is even more marginal. Central Africa remains however relatively a significant exporter of tropical logs, particularly Congo and Cameroon (Gabon has banned log exports since 2010). Asia dominates these markets, and the opening of China in the 1980s marked the beginning of a strong growth of the country's position in the tropical timber markets, a growth that is still continuing.



Asia (> 70% exported volumes)
Central Africa plays an important role in the supply of logs to Asian markets. Those markets requires high volumes at relatively low prices but is significantly less demanding in quality than the European market. It is essentially a market of logs that are transformed in factories in Asia where the transformation yields have been optimized (70-80%, against 30-40% in Africa).

Europe (>20% volume exported)
Until the early 2000s, Europe was mainly a buyer of logs from the Congo Basin countries. With the various measures taken by the continent, the volume of logs has fallen steadily for today to be relatively low. The market for sawnwood, veneer and plywood has taken off following the restriction of log exports, but the downward trend of sawnwood exports to Europe is currently confirmed in the face of buyers' requirements (legality documents, certification, origin etc.), and this under pressure from temperate wood producers. A rapprochement with the distribution markets is necessary and essential to know the European needs and develop in Africa the manufacture of finished products.

Africa (out of COMIFAC) / Middle East (<5% volume exported)
This market is a debit market of relatively low quality and uses all available species and therefore many so-called secondary species. This market, in search of the lowest prices, could develop within the framework of facilities given to processors in the fiscal field. It allows to place lower qualities and thus to better value wood resources.

Local markets
According to available estimates, the local market would consume around 6 million m³, or about 40% of the region's production. The main markets are those of large cities (see table opposite). Informal (and formal) production is generally of low quality, the wood is not dried, the tools used do not allow standardization, the producers are trained on the job. Sales prices are significantly lower than those of export wood. The importance of the consumption estimated here highlight the need to formalize and legalize this market.

City	TOTAL (m ³ /year)
Brazzaville	40 000
Pointe-Noire	180 000
Kinshasa	240 000
Liberreville	70 000
Main cities of Cameroon	800 000
Main cities of E.g. Gabon	50 000

Source: CIFOR 2011

SWOT analysis of the sector

<p>STRENGTH</p> <p>A tried and tested sustainable forest management model, deployed in the last 20 years in all countries of the Congo Basin, with a revision of forest codes.</p> <p>50 million ha of wood-producing forest, mostly inventoried, mapped, which allows timber production to be planned over the coming decades.</p> <p>A unique, high quality, tropical raw material, with often specific markets always demanding, with abundant reserves. One of the largest deposits in the world after large areas of tropical forests have already disappeared in Asia and South America.</p>	<p>WEAKNESSES</p> <p>A low rate of industrialization and industries that value too little wood raw material, despite the efforts of the States, and structural solutions to put in place to increase it.</p> <p>Deficient logistical infrastructure, although recent progress can be observed, and heavy investment is required to access and facilitate traffic in these often isolated and remote areas.</p>
<p>OPPORTUNITIES</p> <p>The Congo Basin forest is heavily under-exploited, with a contribution to GDP and employment well below its potential.</p> <p>World demand for wood, and even more so on the African continent in the 21st century will only increase as for any biobased, carbon-neutral and sustainable product</p>	<p>THREATS</p> <p>The strong pressure of agriculture and the removal of wood energy, which will only increase; the main factors of degradation and deforestation urgently calling for structural measures.</p> <p>Too much informal/illegal logging, particularly in some countries (Cameroon and DRC), representing both a great threat to the integrity of forests and the economic performance of the wood processing industry, but also a loss of revenues for the state.</p>

Industrial models of the wood industry

Four models can be distinguished currently in the region for the wood industry :

- 1. Non industrialized model**, focused on the export of raw material, logs ; This model was predominant until the 1990s. It was then undermined by state policies prohibiting the export of logs. It is still practiced by some companies bypassing existing regulations or taking advantage of loopholes in regulation.
- 2. Integrated industrial model** Forest/Exploitation/Transformation/Trade ; Initially appeared under duress in the 1970s, only some operators have managed to fully integrate this industrial model. In this model, wood processing is therefore mainly carried out by forest concessionaires, which limits the development of the internal market because of the lack of large volumes of logs.
- 3. Mixed industrial model**, partially integrated with the establishment of an internal market for logs ; In this model, which exists almost exclusively in Cameroon and Gabon, there is an internal market for logs, which allows for a greater specialization of loggers and industries of primary wood processing and thus better performance. The success of this model imposes the existence of a sufficient supply and demand in logs.
- 4. Model with development of a very specialized industry** through the establishment of a **Special Economic Zone**

This model has been developing in Gabon for a few years now and constitutes a real revolution in the wood industry in Central Africa, like the Nok Economic Zone which offers a set of advantages:

- for the **establishment of companies** : single desk, simplified administrative formalities;
- by offering **common services** : shared infrastructures, logistics, energy supply ;
- in **tax terms** : exemptions or preferential rates on income tax...

This model is not intended to be exclusive in a country and may even be beneficial to companies following other models by offering them opportunities for certain log production

Logistics and transport

The dense humid forests of the Congo Basin are located in remote or even completely isolated areas. The dependence of the forestry sector on logistics infrastructure and the transport sector is therefore extremely strong. Depending on the countries and sub-regional contexts, the costs associated with wood logistics can represent 30 to 60% of the cost price of the product on the local market or at the port of export.

Historically, the corridors (transport axes) were organized following the watersheds and the preferred means of transport were the navigable rivers as well as the railway lines. However, the poor condition of some of them and important recent developments have given way to a **predominance of road transport**, yet much more expensive in m³-km.

In view of the impact of these transport costs on the profitability of the sector, any development of the timber industry must be considered concomitantly with that of the transport sector and road, rail, river and port infrastructure.

Informal sector

As in other sectors and in Africa as a whole, the economy of the timber sector in Central Africa is characterized by a **high degree of informality**. Informal production is largely provided by artisanal or semi-industrial operators and of illegal origin, but this is not systematic and efforts can be made to formalize and legalize in the future productions, even artisanal .

The log harvest associated with this production is estimated at 6.5 million m³ in Central Africa (CIFOR, 2018), constituting about 48% of the region's production. These informal sector outputs come from unaffected forest areas.

Taxes and informal taxes

Forest taxation is a specific tax in addition to the general taxation of companies, customs taxes (import / export) and other taxes applied to sectors directly related to forestry. It is composed of two instruments: **royalties** (rent collection tools) and **forest taxes** (guidance instruments for operating and management practices).

The Congo Basin countries' fiscal pressure on logs has some regional coherence (20-30eur/m³ except for Cameroon (more than 50eur/m³)). With regard to sawn timber, Gabon applies a low tax burden (20eur/m³) which can be interpreted as state support for the important industrial change initiated since 2010 (log export ban). Cameroon maintains here also a greater tax pressure (70eur/m³).

In addition to this taxation, a **parafiscal system** includes deductions pre-allocated to the operation of the public administration (State) or public establishment, as well as **administrative costs** that are collected by certain public enterprises converted into commercial companies. Their sum can be very significant, or even higher than the forest taxation itself.

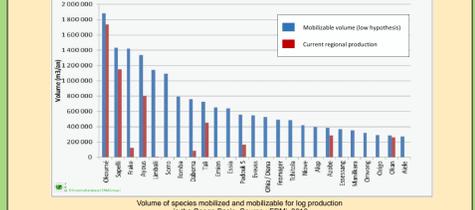
Forest plantations

Despite the growing importance of plantations in the global production of roundwood (50% of the roundwood volume for 7% of forest areas), these are still **barely present in Central Africa**. Their productivity is nearly 7 times higher than the global forest average and tropical plantations are much more productive than temperate plantations and subtropical. A recent FAO report indicates that around 400 million ha of unused and unoccupied fertile land in sub-Saharan Africa would be available for forest and other plantations.

However, recent failures and successes observed in the region, and the current under-exploitation of natural forests, make it necessary to clearly distinguish the sectors and markets between natural forests and plantations outside forests.

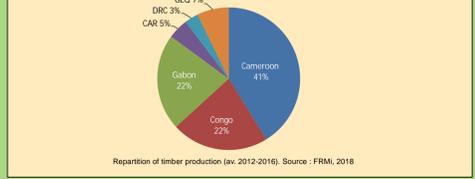
Forest logging

Forest logging in the Congo Basin, with a production estimated around 7 millions m³ of logs per year, represents a **marginal fraction (1%) of the global timber production** (i.e., 5% of tropical logs production). This production remains narrowly based : although 150 species with a potential of at least 15 000 m³/year have been identified, only 20 of them are harvested of which 3 species ensure 2/3 of the production (Sapelli, Ayous and Okoumé). Other species such as Tali, Paduk, Daberna, Iroko, Ilomba are present in a very large part of the region.



Conservative estimations show a quantity of 14 to 18 millions m³ of logs available each year on the 54 current commercial species. This means that wood resources are abundant and very little valued except for a few species (i.e., 90% of the potential of Okoumé is currently harvested). **Many species are not exploited** (see graph above).

Three countries produce more than 80% of the Congo Basin log production (see graph below). Timber extraction rate per hectare is low (4 to 15 m³/ha) but varies significantly between countries with rates observed in Equatorial Guinea more than twice the average rate of the other countries.

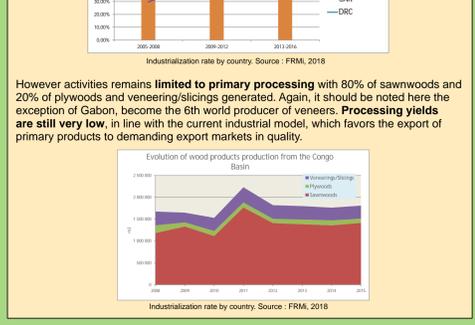


Industrialization of the sector

In recent decades, Central African countries have strengthened their legal frameworks regarding the industrialization of the timber sector. Currently, 2/3 of the regional production is transformed inside countries borders, the other third is exported as logs.

This regional trend is contrasted between countries, with Gabon transforming 100% their log production before exportation. This number goes down to 75% for Cameroon, 40-60% for DRC, RCA and Congo and only a fraction (less than 5%) for Equatorial Guinea.

Evolution of wood products production from the Congo Basin



However activities remains limited to primary processing with 80% of sawnwoods and 20% of plywoods and veneering/linings generated. Again, it should be noted here the exception of Gabon, become the 6th world producer of veneers. Processing yields are still very low, in line with the current industrial model, which favors the export of primary products to demanding export markets in quality.

Disclaimer: the designations and geographic delimitations displayed on this publication do not imply the expression of any opinion whatsoever on the part of the OFAC, the COMIFAC, the EU or any contributing partner. There is no warranty that forest concessions and their features displayed here show the complete and accurate situation of the COMIFAC countries.

Analyses based on the report: "Développement intégré et durable de la filière bois dans le Bassin du Congo – Rapport stratégique régional – Banque Africaine de Développement / FRM, 2018.

Datum : WGS, 1984 / Coordinate system: geographic

Prepared by OFAC with the support of FRM and ATIBT, september 2019.



Legend

- Capital
- City/Port of transit
- International border
- River
- Main road
- Cultivated land
- Herbaceous area / grassland

Forest land allocation

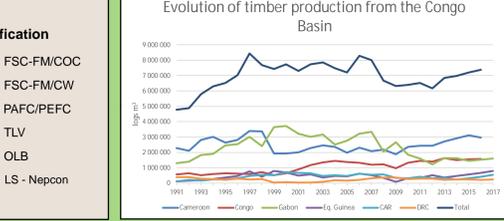
- Managed forest concession
- Allocated forest concession
- Unallocated forest concession
- Managed communal forest
- Communal forest
- Community forest

Certification

- FSC-FM/COC
- FSC-FM/CW
- PAFC/PEFC
- TLV
- OLB
- LS- Nepon

Land cover

- Dense forest
- Open forest
- Shrubland
- Bare soil
- Sparse vegetation
- Aquatic vegetation
- Urban area
- Water



1. Gabon	81. PFA02-04-1	163. UFA 10-015
2. Gabon	82. PFA02-04-2	164. UFA 10-016
3. Gabon	83. PFA02-04-3	165. UFA 10-017
4. Gabon	84. PFA02-04-4	166. UFA 10-018
5. Gabon	85. PFA02-04-5	167. UFA 10-019
6. Gabon	86. PFA02-04-6	168. UFA 10-020
7. Gabon	87. PFA02-04-7	169. UFA 10-021
8. Gabon	88. PFA02-04-8	170. UFA 10-022
9. Gabon	89. PFA02-04-9	171. UFA 10-023
10. Gabon	90. PFA02-04-10	172. UFA 10-024
11. Gabon	91. PFA02-04-11	173. UFA 10-025
12. Gabon	92. PFA02-04-12	174. UFA 10-026
13. Gabon	93. PFA02-04-13	175. UFA 10-027
14. Gabon	94. PFA02-04-14	176. UFA 10-028
15. Gabon	95. PFA02-04-15	177. UFA 10-029
16. Gabon	96. PFA02-04-16	178. UFA 10-030
17. Gabon	97. PFA02-04-17	179. UFA 10-031
18. Gabon	98. PFA02-04-18	180. UFA 10-032
19. Gabon	99. PFA02-04-19	181. UFA 10-033
20. Gabon	100. PFA02-04-20	182. UFA 10-034
21. Gabon	101. PFA02-04-21	183. UFA 10-035
22. Gabon	102. PFA02-04-22	184. UFA 10-036
23. Gabon	103. PFA02-04-23	185. UFA 10-037
24. Gabon	104. PFA02-04-24	186. UFA 10-038
25. Gabon	105. PFA02-04-25	187. UFA 10-039
26. Gabon	106. PFA02-04-26	188. UFA 10-040
27. Gabon	107. PFA02-04-27	189. UFA 10-041
28. Gabon	108. PFA02-04-28	190. UFA 10-042
29. Gabon	109. PFA02-04-29	191. UFA 10-043
30. Gabon	110. PFA02-04-30	192. UFA 10-044
31. Gabon	111. PFA02-04-31	193. UFA 10-045
32. Gabon	112. PFA02-04-32	194. UFA 10-046
33. Gabon	113. PFA02-04-33	195. UFA 10-047
34. Gabon	114. PFA02-04-34	196. UFA 10-048
35. Gabon	115. PFA02-04-35	197. UFA 10-049
36. Gabon	116. PFA02-04-36	198. UFA 10-050
37. Gabon	117. PFA02-04-37	199. UFA 10-051
38. Gabon	118. PFA02-04-38	200. UFA 10-052
39. Gabon	119. PFA02-04-39	201. UFA 10-053
40. Gabon	120. PFA02-04-40	202. UFA 10-054
41. Gabon	121. PFA02-04-41	203. UFA 10-055
42. Gabon	122. PFA02-04-42	204. UFA 10-056
43. Gabon	123. PFA02-04-43	205. UFA 10-057
44. Gabon	124. PFA02-04-44	206. UFA 10-058
45. Gabon	125. PFA02-04-45	207. UFA 10-059
46. Gabon	126. PFA02-04-46	208. UFA 10-060
47. Gabon	127. PFA02-04-47	209. UFA 10-061
48. Gabon	128. PFA02-04-48	210. UFA 10-062
49. Gabon	129. PFA02-04-49	211. UFA 10-063
50. Gabon	130. PFA02-04-50	212. UFA 10-064
51. Gabon	131. PFA02-04-51	213. UFA 10-065
52. Gabon	132. PFA02-04-52	214. UFA 10-066
53. Gabon	133. PFA02-04-53	215. UFA 10-067
54. Gabon	134. PFA02-04-54	216. UFA 10-068
55. Gabon	135. PFA02-04-55	217. UFA 10-069
56. Gabon	136. PFA02-04-56	218. UFA 10-070
57. Gabon	137. PFA02-04-57	219. UFA 10-071
58. Gabon	138. PFA02-04-58	220. UFA 10-072
59. Gabon	139. PFA02-04-59	221. UFA 10-073
60. Gabon	140. PFA02-04-60	222. UFA 10-074
61. Gabon	141. PFA02-04-61	223. UFA 10-075
62. Gabon	142. PFA02-04-62	224. UFA 10-076
63. Gabon	143. PFA02-04-63	225. UFA 10-077
64. Gabon	144. PFA02-04-64	226. UFA 10-078
65. Gabon	145. PFA02-04-65	227. UFA 10-079
66. Gabon	146. PFA02-04-66	228. UFA 10-080
67. Gabon	147. PFA02-04-67	229. UFA 10-081
68. Gabon	148. PFA02-04-68	230. UFA 10-082
69. Gabon	149. PFA02-04-69	231. UFA 10-083
70. Gabon	150. PFA02-04-70	232. UFA 10-084
71. Gabon	151. PFA02-04-71	233. UFA 10-085
72. Gabon	152. PFA02-04-72	234. UFA 10-086
73. Gabon	153. PFA02-04-73	235. UFA 10-087
74. Gabon	154. PFA02-04-74	236. UFA 10-088
75. Gabon	155. PFA02-04-75	237. UFA 10-089
76. Gabon	156. PFA02-04-76	238. UFA 10-090
77. Gabon	157. PFA02-04-77	239. UFA 10-091
78. Gabon	158. PFA02-04-78	240. UFA 10-092
79. Gabon	159. PFA02-04-79	241. UFA 10-093
80. Gabon	160. PFA02-04-80	242. UFA 10-094
81. Gabon	161. PFA02-04-81	243. UFA 10-095
82. Gabon	162. PFA02-04-82	244. UFA 10-096
83. Gabon	163. PFA02-04-83	245. UFA 10-097
84. Gabon	164. PFA02-04-84	246. UFA 10-098
85. Gabon	165. PFA02-04-85	247. UFA 10-099
86. Gabon	166. PFA02-04-86	248. UFA 10-100
87. Gabon	167. PFA02-04-87	249. UFA 10-101
88. Gabon	168. PFA02-04-88	250. UFA 10-102
89. Gabon	169. PFA02-04-89	251. UFA 10-103
90. Gabon	170. PFA02-04-90	252. UFA 10-104
91. Gabon	171. PFA02-04-91	253. UFA 10-105
92. Gabon	172. PFA02-04-92	254. UFA 10-106
93. Gabon	173. PFA02-04-93	255. UFA 10-107
94. Gabon	174. PFA02-04-94	256. UFA 10-108
95. Gabon	175. PFA02-04-95	257. UFA 10-109
96. Gabon	176. PFA02-04-96	258. UFA 10-110
97. Gabon	177. PFA02-04-97	259. UFA 10-111
98. Gabon	178. PFA02-04-98	260. UFA 10-112
99. Gabon	179. PFA02-04-99	261. UFA 10-113
100. Gabon	180. PFA02-04-100	262. UFA 10-114