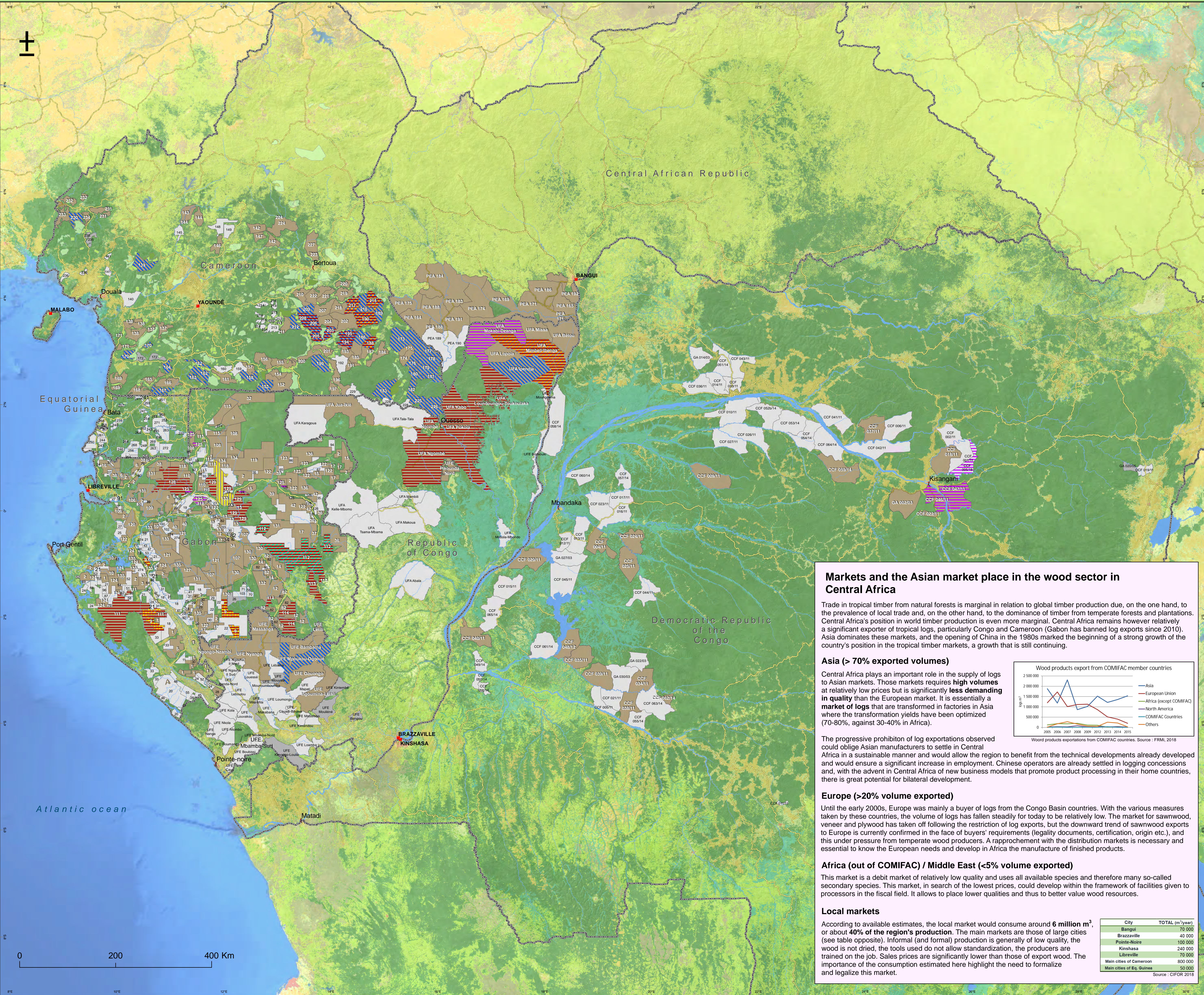


The evolution and challenges of wood industry in the Congo Basin

International forum "Together Towards Global Green Supply Chains", Shanghai, october 2019



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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.

GIS data sources: OFAC, ITTO, FRM, WRI, Rainforest Alliance

Datum: WGS, 1984 / Coordinate system: geographic

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

Legend

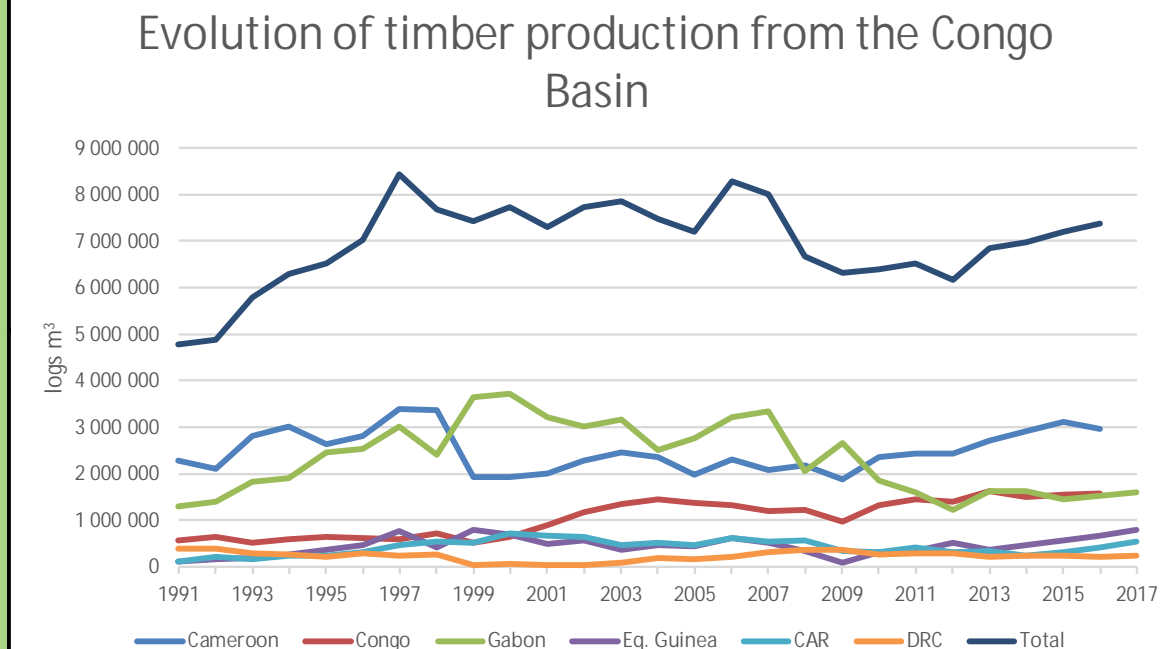
- Capital
- City/Port of transit
- International border
- River
- Main road
- Cultivated land
- Herbaceous area / grassland

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- Nepcon



SWOT analysis of the sector

STRENGTH	WEAKNESSES
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.	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.
50 million ha of wood-producing forest, mostly inventoried, mapped, which allows timber production to be planned over the coming decades.	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.
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.	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.
The Congo Basin forest is heavily under-exploited, with a contribution to GDP and employment well below its potential.	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.
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	

Industrial models of the wood industry

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

- 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.
- 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.
- 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 industrialists 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 Nkok 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.

The **majority of informal production is consumed in the countries** of production, a minority is exported, mainly in the form of sawnwood and to neighboring countries. The only countries relatively large numbers of logs or sawn timber are Cameroon and the DRC, which export nearly 200 000 m³ of sawnwood (110 000 for the DRC and 80 000 for Cameroon), about 10% of their estimated total informal production (FRM, 2018).

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.

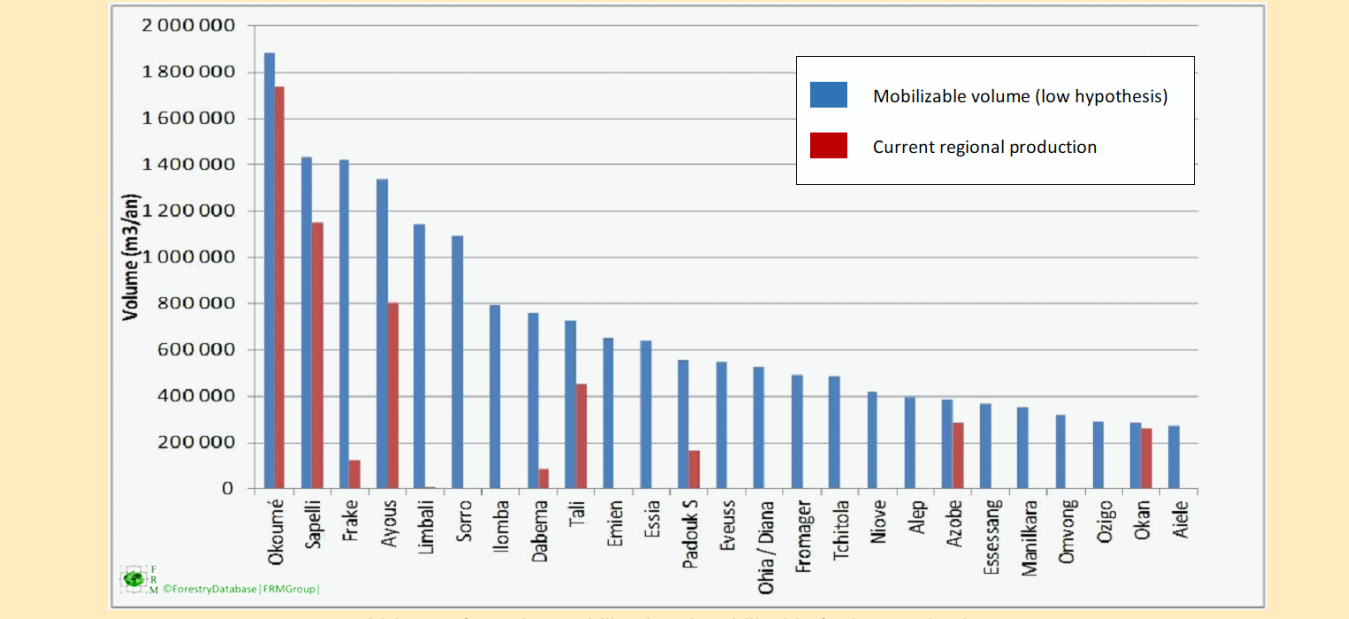
Forest plantations

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 under forests.

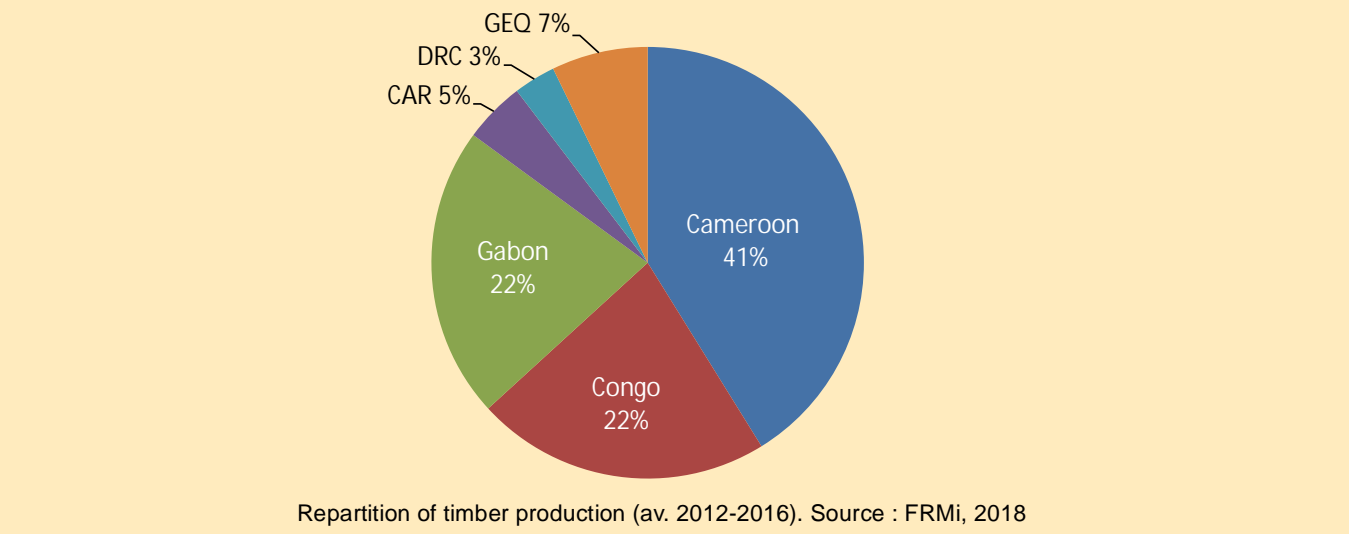
Forest logging

Forest logging in the Congo Basin, with an 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).

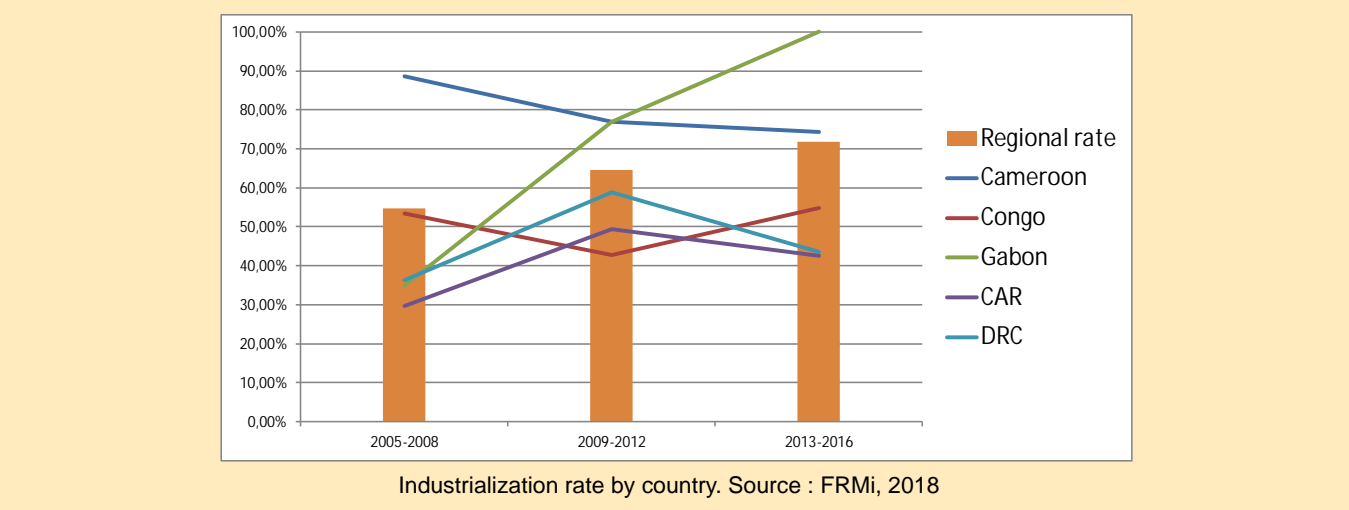
Three countries produce more than 80% of the Congo Basin log production (see graph below). Timber extraction rate per hectare is low (4 to 15 m³/ha) but varies significantly between countries with rates observed in Equatorial Guinea more than twice the average rate of the other countries.



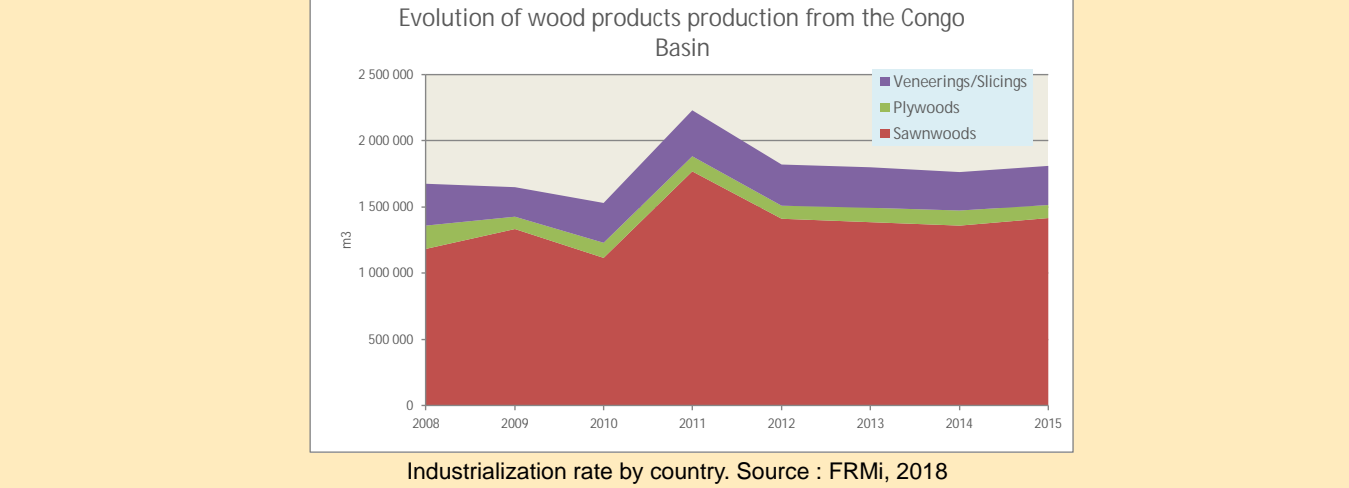
Industrialization of the sector

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.



However activities remains limited to **primary processing** with 80% of sawnwoods and 20% of plywoods and veneering/slicings 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.



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7. CFAO-04-04-1	87. CFAO-04-04-1	166. UFA-10-11
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