



THE WEST AFRICAN CASHEW SECTOR IN 2018

General trends and country profiles

Analysis of cashew production, processing and trade in West Africa

This document was realized by Nitidæ in June 2019

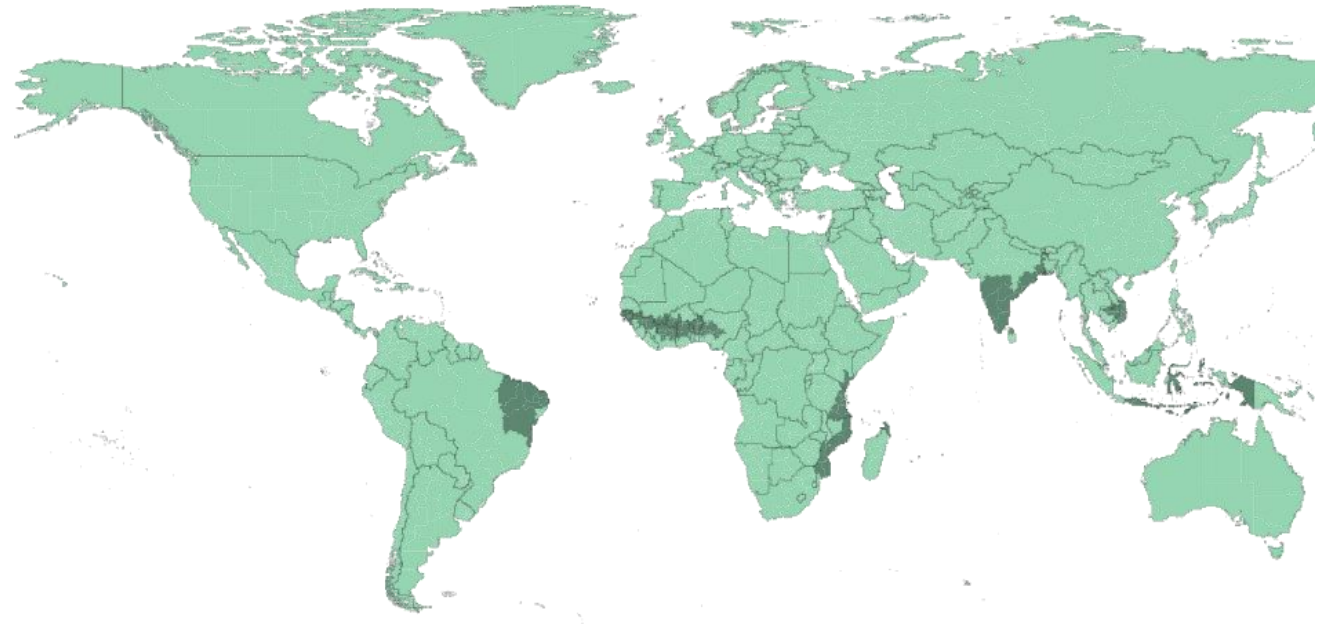
www.nitidae.org – www.nkalo.org

Introduction: the world cashew sector in 2018-2019

The supply

Cashew is grown in most of the tropical countries around the world. Nevertheless, in 2018, most of the commercial cashew production is concentrated in 4 main production areas: South-Eastern Asia, West Africa, East Africa and Brazil.

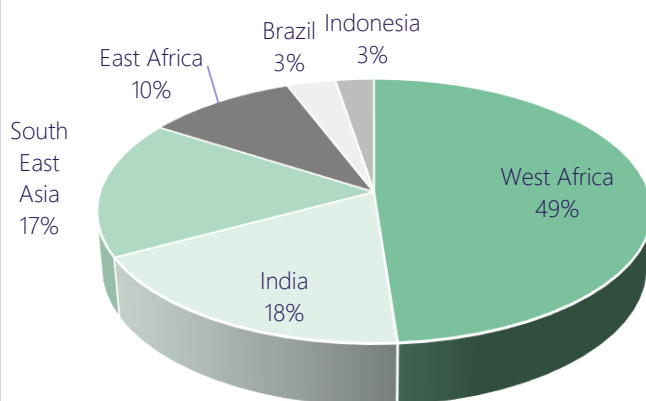
Main cashew production areas in the world (in Dark green)



In 2018, West Africa have been the main cashew growing area worldwide with 1,795,000 Metric Tons of Raw Cashew Nut (RCN) harvested or 49% of the world supply. Asia is the second main producing area with India (675,000 MT) and Vietnam (450,000 MT) leading the production. East Africa, Brazil and Indonesia are smaller producing areas but have a competitive advantage due to their harvest calendar which goes from October to December while harvests of the Northern Hemisphere happens between January and June.

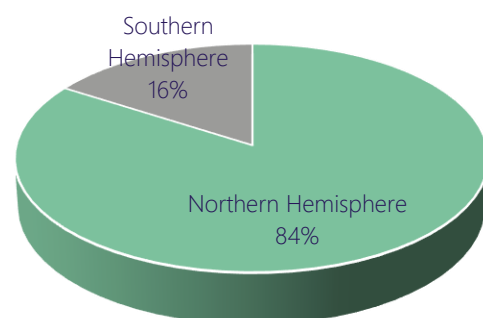
Share of cashew supply by region in 2018

(Source: n'kalô Service - www.nkalo.com)



Share of cashew supply by hemisphere in 2018

(Source: n'kalô Service - www.nkalo.com)

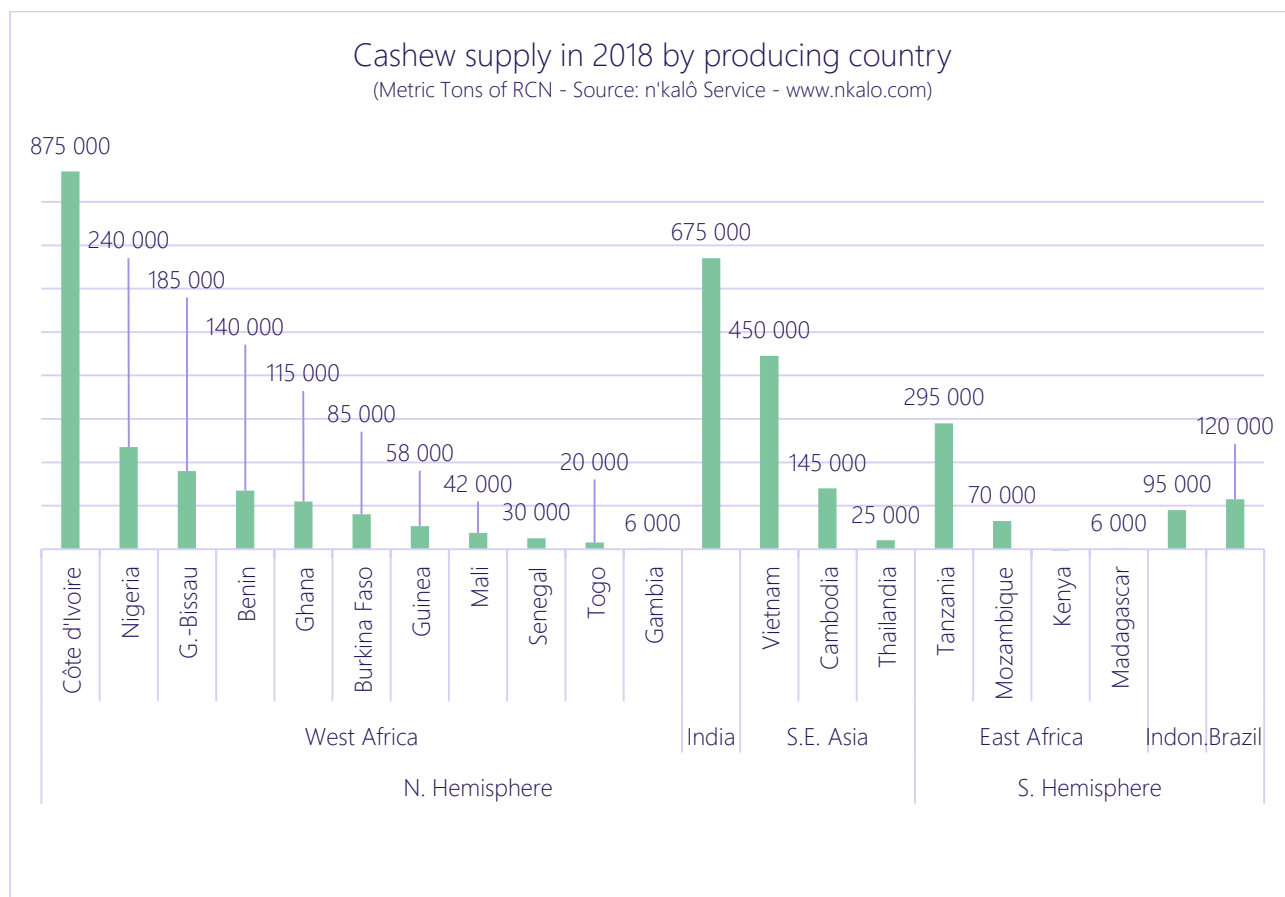


Estimating cashew production worldwide is not an easy exercise as most of the cashew producing countries have not reliable agricultural statistics. For instance, Indian production was estimated by India state and the International Nut and Cried Fruit Council (INC) in 2018 to be around 800,000 Metric Tons of RCN while industry players estimate real supply between 650,000 and 700,000 MT.

In Mozambique, INCAJU, the state regulation agency, estimates the production to be around 130,000 MT but exports of Raw Cashew nut (RCN) and cashew kernels converted in RCN (x5) only cumulate 70,000 MT in 2017/2018. At contrary, others countries like Vietnam or Côte d'Ivoire tend to underestimate their production/supply figures. Doing so they hope to support cashew prices. Many superficial market studies also refer to FAOSTAT which data is old or wrong for many countries, particularly Vietnam and Nigeria.

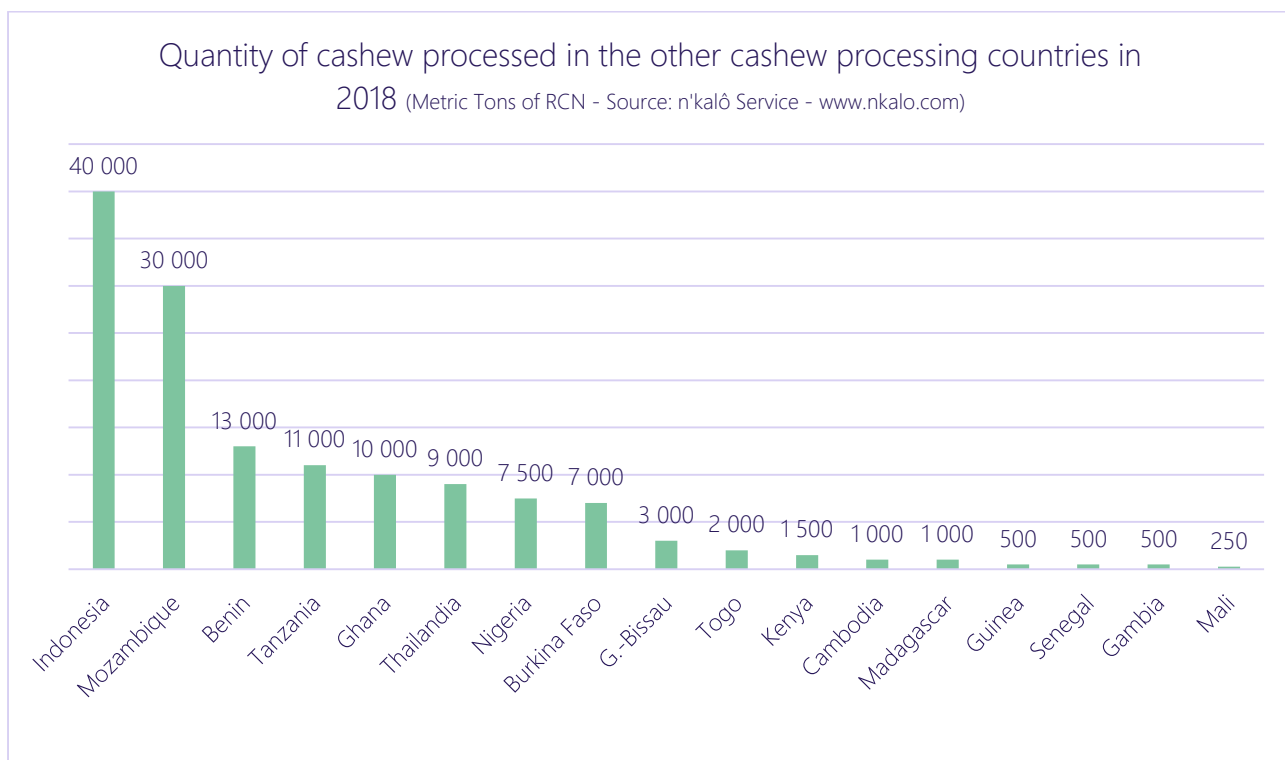
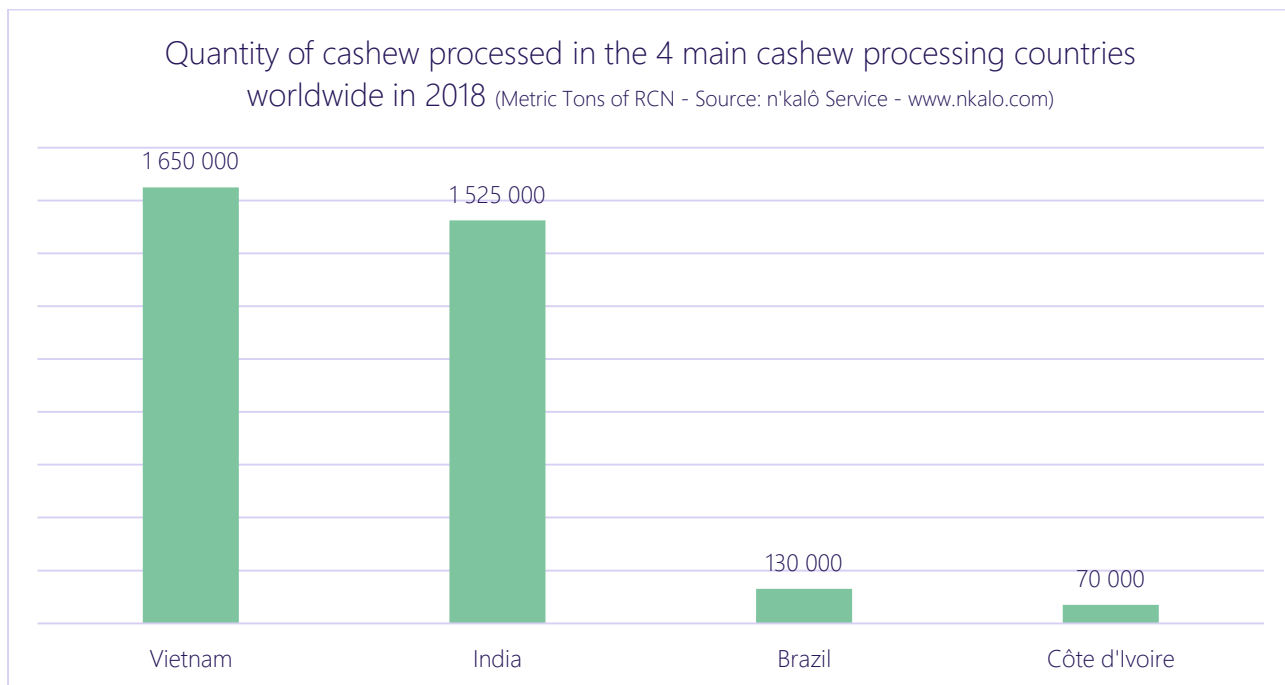
Hopefully the main cashew processing and consuming countries have reliable trade statistics. This is why, all the supply figures presented below have been estimated on the basis of a deep analysis of cashew trade statistics and thanks to several contacts with major cashew industry stakeholders. We can consider that the error margin in those figures does not exceed 10% (only India production cannot be accurately estimated as the importance of local consumption does not allow to have reliable trade figures).

The World cashew supply in 2018 (2017/2018 for Southern Hemisphere) is estimated to be spread as presented below:



The processing (shelling and peeling)

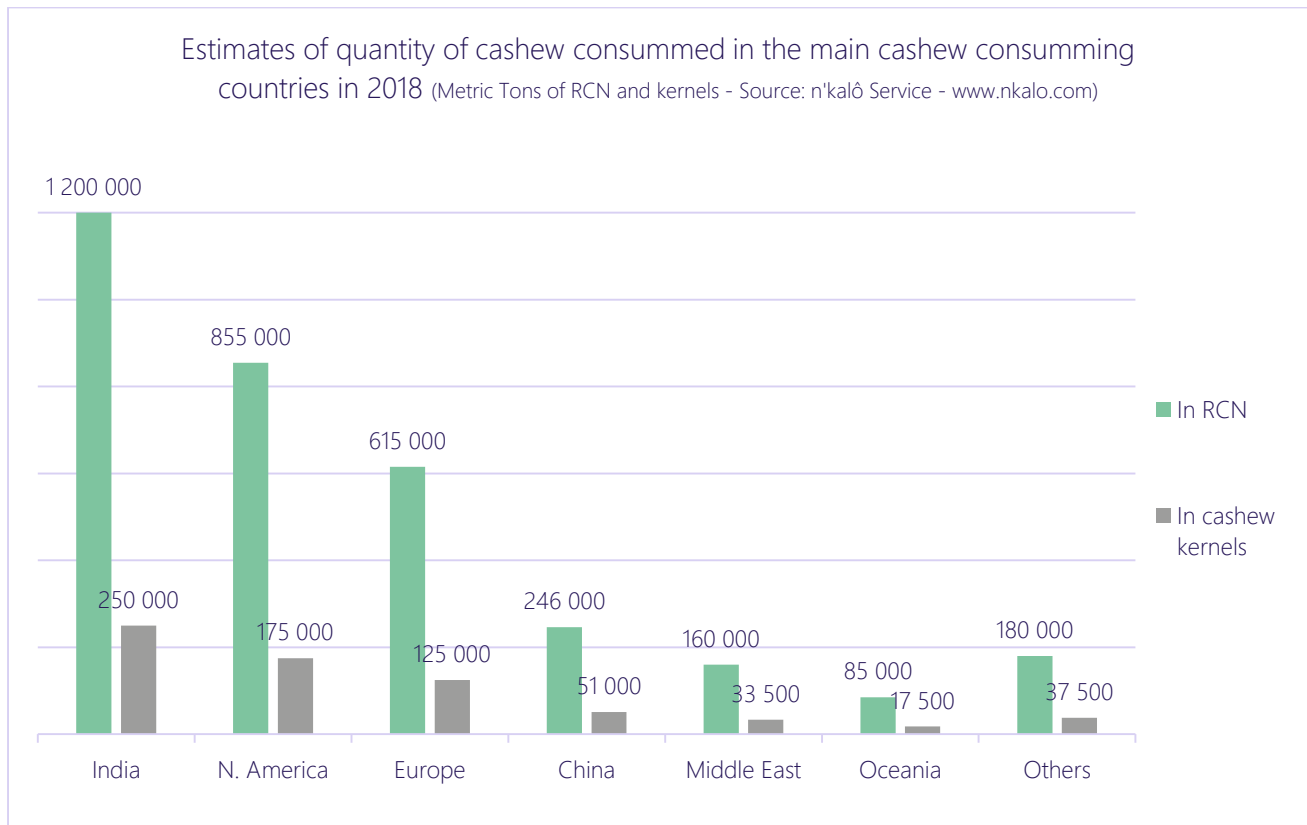
Based on those supply/production estimations and on the same trade statistics analysis, cashew processing in 2018 have been estimated below. Due to the big difference between the quantities processed by the four main cashew processing countries and the others we decided to use two different graphs with different scales.



The demand

Cashew consumption figures are easier to estimate as most of the main cashew consuming countries are not cashew producing countries. Only India, Vietnam, Brazil, Thailand and Nigeria markets are harder to know accurately as those countries are at the same time producing, processing and consuming countries.

Overall, cashew consumption is distributed as presented below.



The following and main part of this document is a focus on Africa. All the main cashew producing countries in Africa have been studied. Other countries small producing countries like Sierra Leone, Zambia, Chad, Democratic Republic of Congo or Cameroun have not been studies as in those countries cashew nut trade is almost inexistent and most of the production is only used for local consumption of cashew apples.

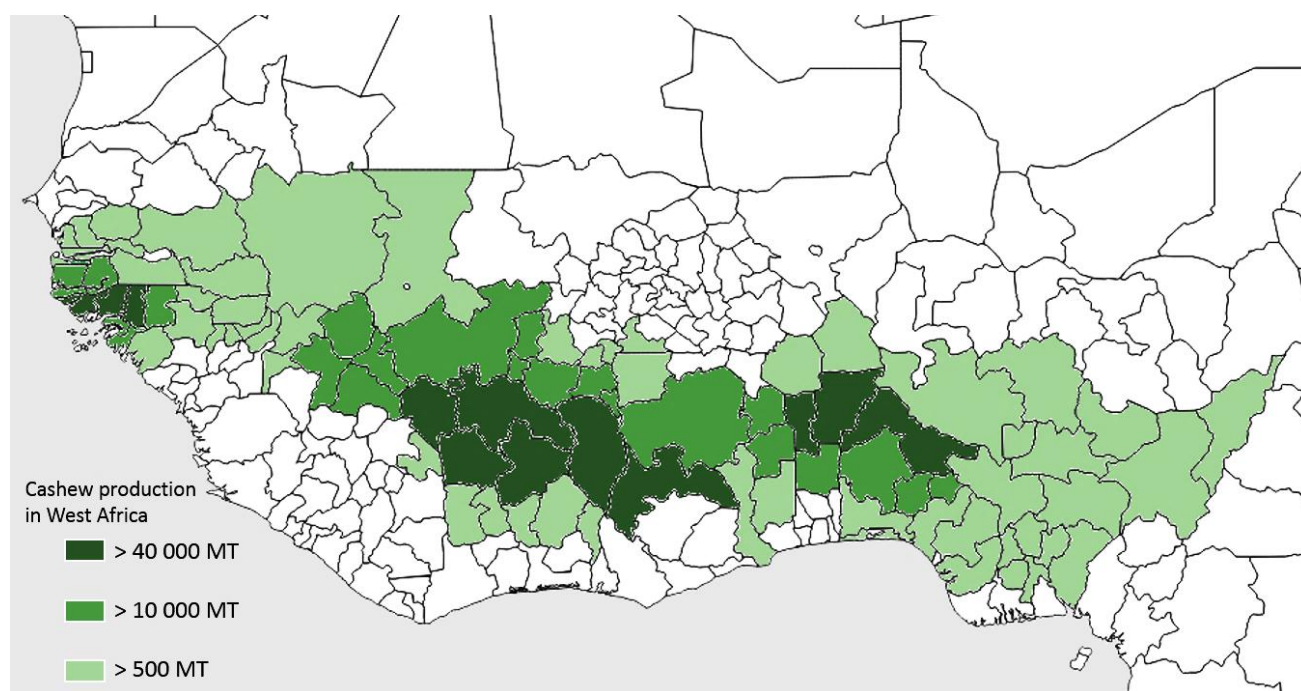
Cashew in West Africa

Among the main cashew production areas, West Africa is the most recent and dynamic in the world. In West Africa cashew trees have been planted from the 1950's mostly as a resource for diversification and reforestation. But it is only since the 1990's that cashew have start to be grown as an important cash crop. Increasing trade between Asia and Africa and strong global demand for cashew boosted this new sector and offered a new opportunity for small farmers who massively invested in this crop.

Since 2014, cashew have become the second main cash crop in West Africa in terms of export value behind Cocoa and ahead of Cotton, Rubber, Palm Oil or Banana.

Cashew cultivation is spread all over the region, with 3 main producing areas: the Central area (Côte d'Ivoire, Ghana, Burkina Faso, Guinea, Mali and Togo), the Eastern Area (Nigeria and Benin), the Western area (Guinea Bissau, Senegal and The Gambia).

Main cashew producing regions in West Africa (n'kalô Service – www.nkalo.com)

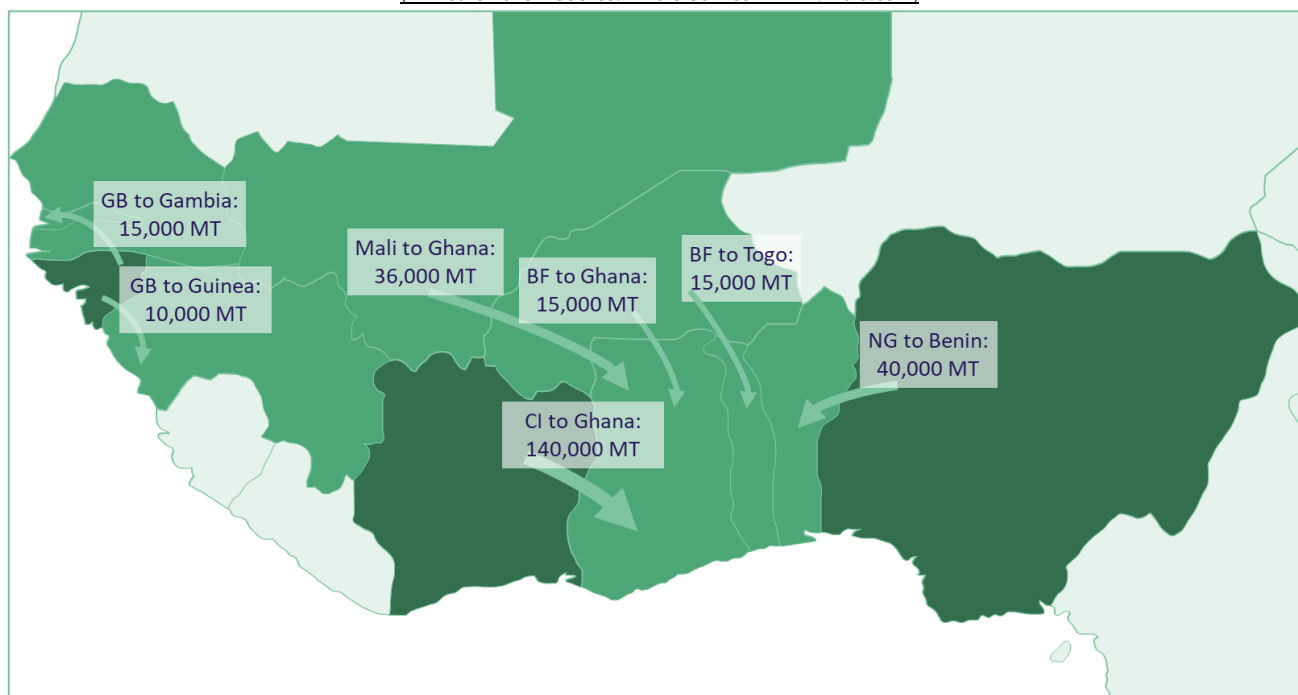


An important part of the cashew produced in West Africa is traded through land borders between the producing countries. As most of this trade is unofficial and no reliable data are available about it, we had to estimate it on the base of local trader's information and monitoring of the entire cashew season with N'Kalô Service (www.nkalo.com).

This unofficial trade has changed a lot during the last decade depending of political instability, public regulations and evolution of trader networks. In 2019, most of the exchanges were organized as presented below.

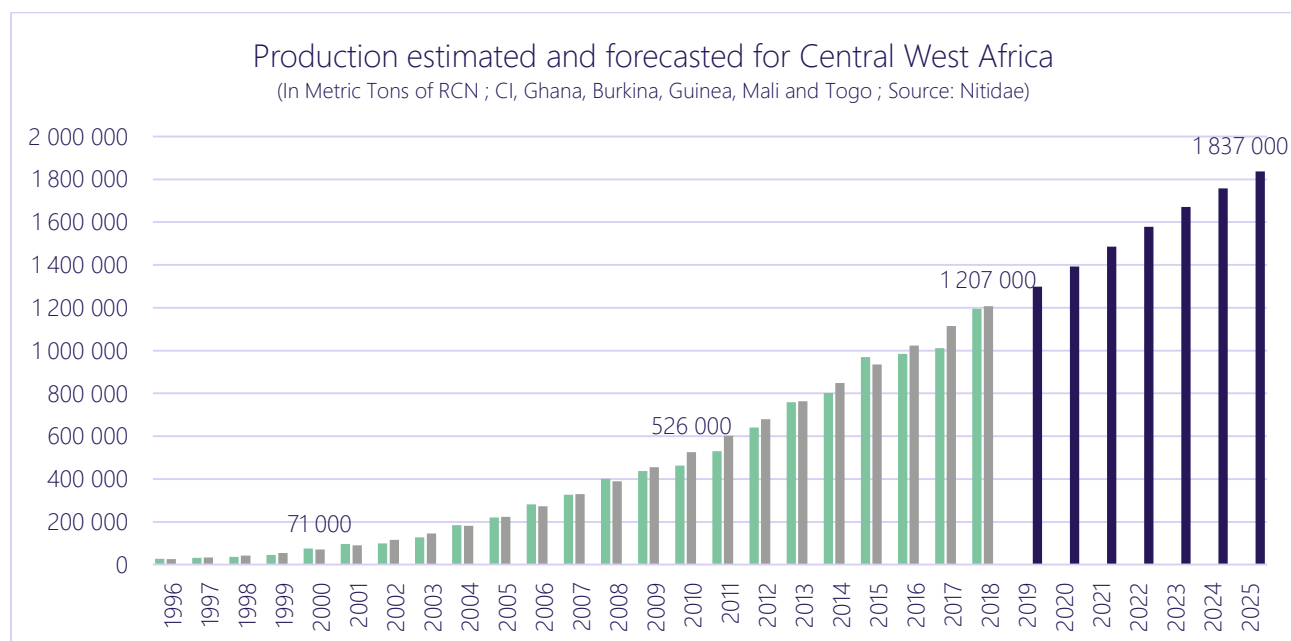
Estimate of main flows (>10,000 MT) of unofficial cross border cashew trade in West Africa in 2018

(in Metric Tons – Source: N'kalô Service – www.nkalo.com)

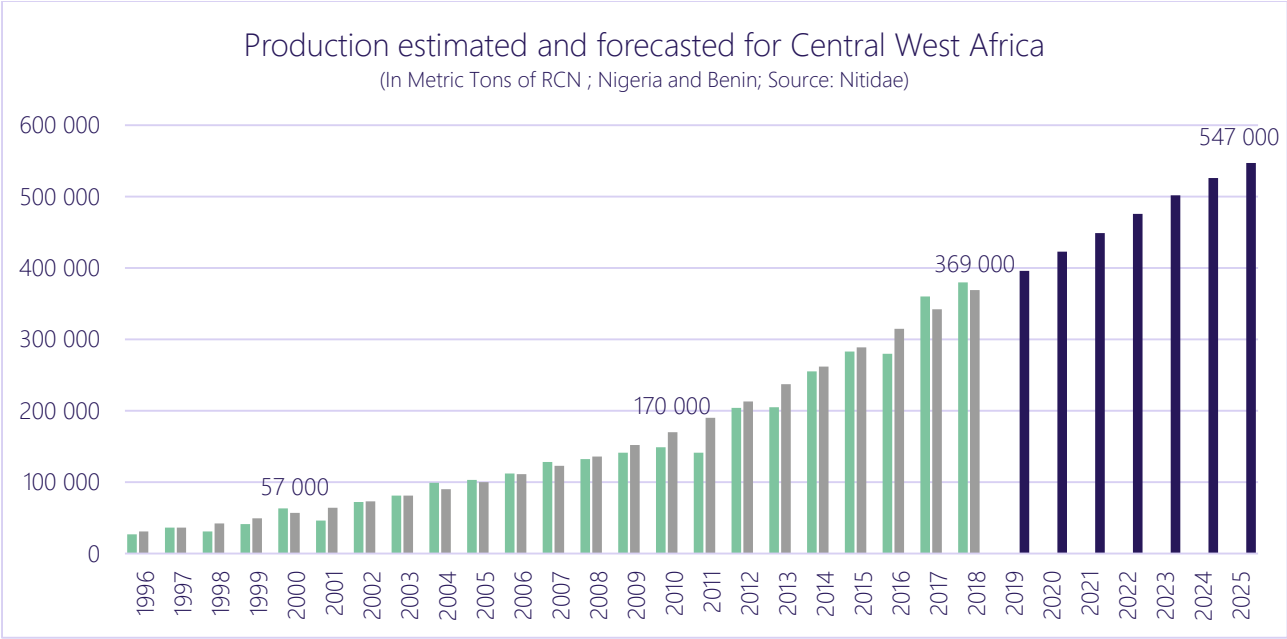


Based on a model Nitidæ has developed since 7 years from the cashew trade statistics and surveys with cashew farmers, we have tried to forecast the future cashew production of West Africa. As history and dynamics are different among countries, we distinguish the forecasts for the 3 main production areas.

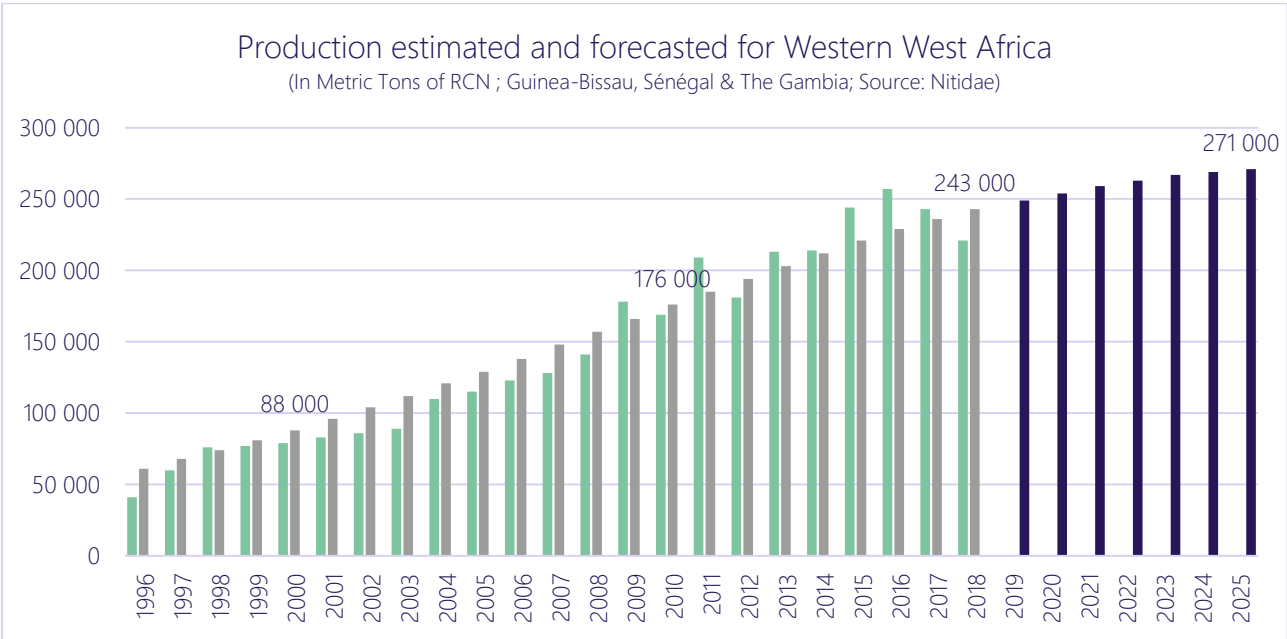
Projection of production for Central West Africa



Projection of production for Western West Africa



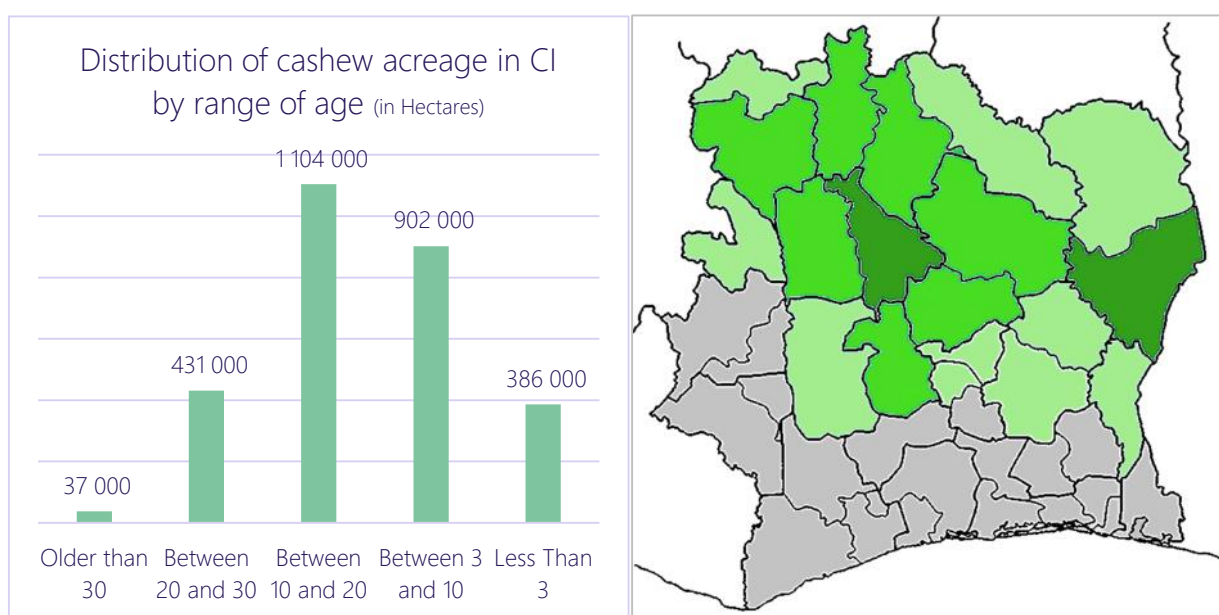
Projection of production for Eastern West Africa



Central West Africa: country profiles

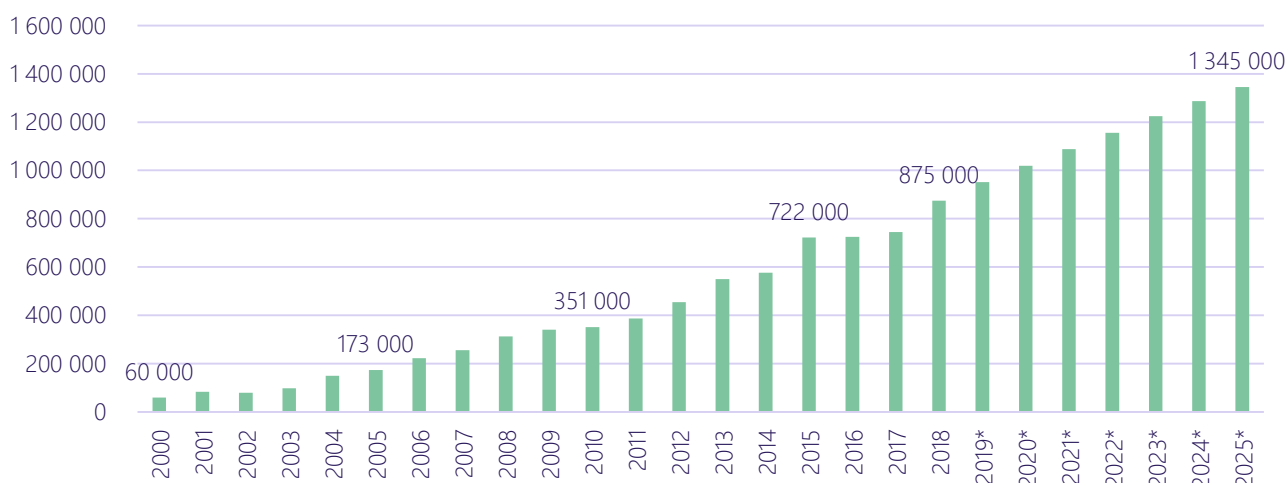
The cashew sector in Côte d'Ivoire (CI)

General	Côte d'Ivoire	
	Population	25 Millions
	Surface	32 Millions ha
	Surface of cashew production areas	16 Millions ha
RCN Supply (RCN=Raw Cashew Nut)	Official production 2018	700,000 MT
	Estimated production 2018	875,000 MT
	% of world production in 2018	23,8 %
	Planted acreage	2,850,000 ha
	Productive acreage	2,475,000 ha
	Average yield	350 kg/ha
	Average Outturn	46-48 lbs
	Average Nut Count	190 Nuts/kg
	Average Production growth during last 5 years	65,000 MT/year
	Expected average production growth during next 5 years	67,000 MT/year
RCN Exports	RCN Exportations 2018 by Ivorian ports	673,000 MT
Processing	Number of industrial factories (Capacity >1000 MT/years)	20
	Local processing ratio in 2018	8 %
	Local processing realization in 2018 (RCN/year)	70,000 MT/year
	Local processing capacity in 2018 (RCN/year)	150,000 MT/year
	Average processing during last 5 years	40,000 MT/year
Kernel exports	Kernel exportations 2018	10,000 MT
Local consumption	Local consumption of cashew kernels in 2018	200 MT



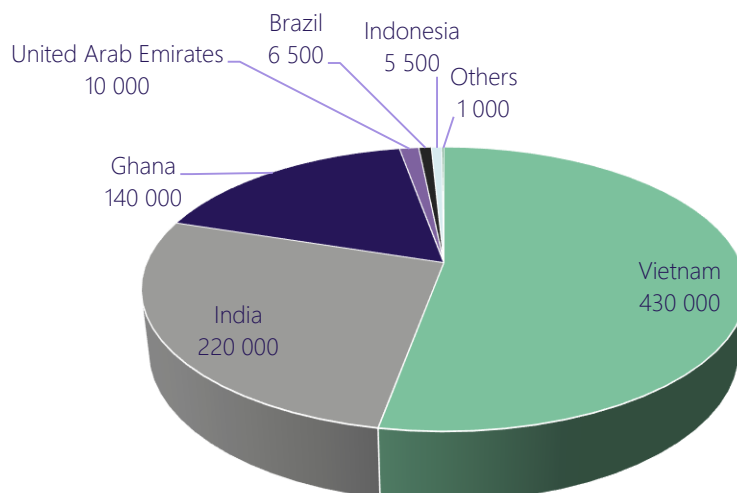
Cashew production in Côte d'Ivoire: past & forecasts

(in Metric Tons - Source: nitidae forecast model 2019)



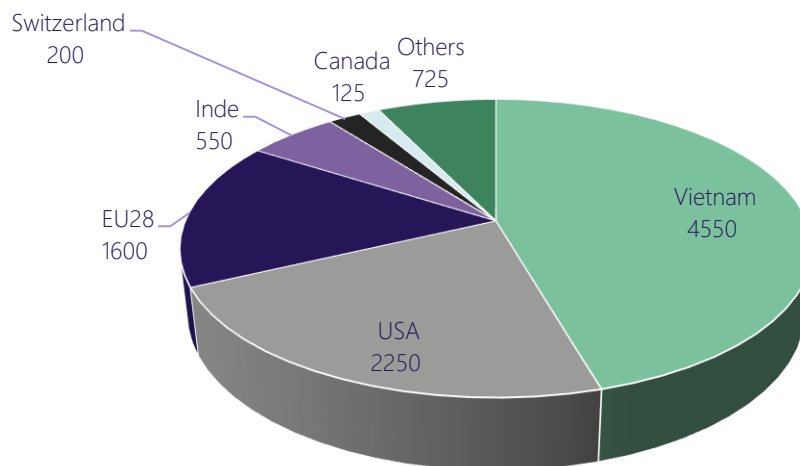
Raw Cashew Nut exports from Côte d'Ivoire by destination (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)



Cashew kernel exports from Côte d'Ivoire by destination (2018)

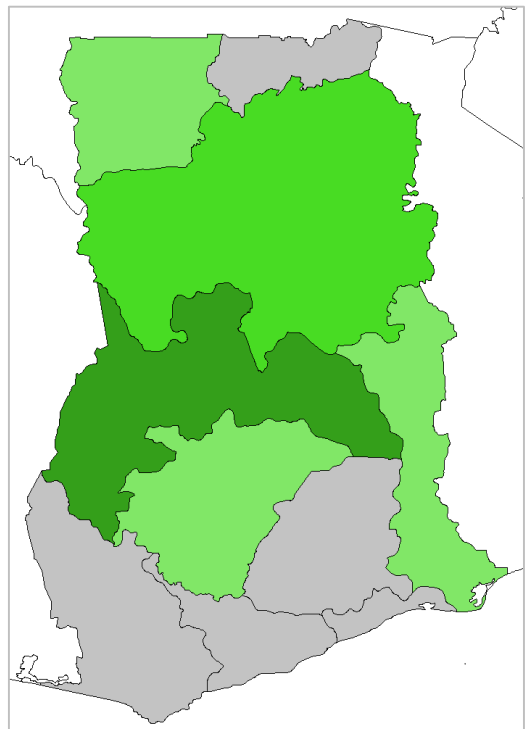
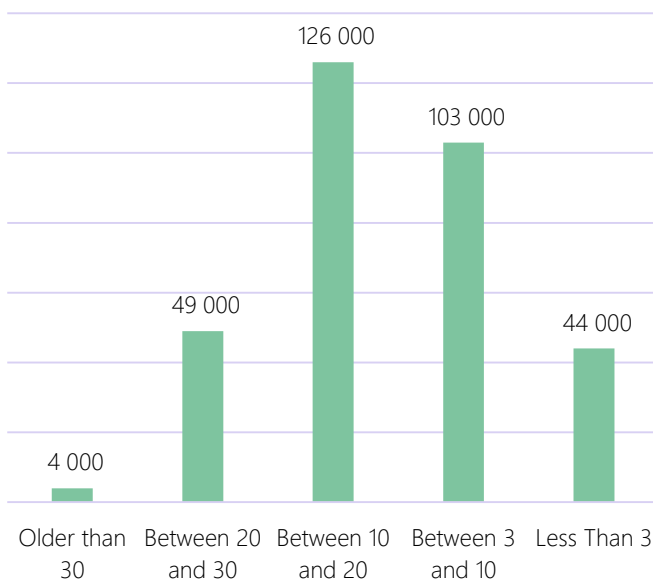
(MT of RCN ; n'kalô Service - www.nkalo.com)



The cashew sector in Ghana

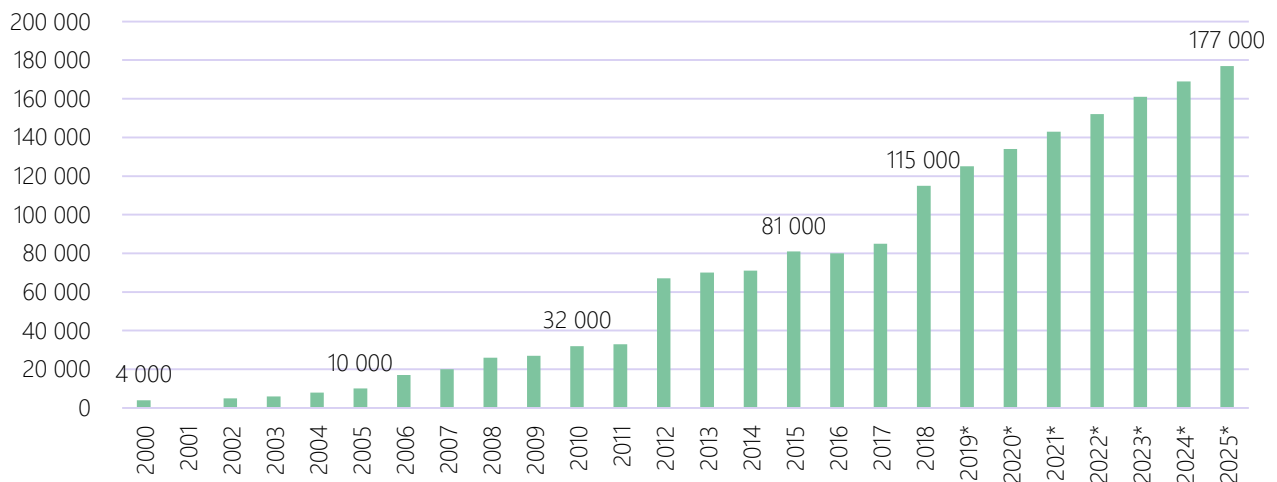
General	Ghana	
	Population	27 Millions
	Surface	24 Millions ha
	Surface of cashew production areas	9 Millions ha
RCN Supply (RCN=Raw Cashew Nut)	Official production 2018	80,000 MT
	Estimated production 2018	115,000 MT
	% of world production in 2018	3,1 %
	Planted acreage	325,000 ha
	Productive acreage	280,000 ha
	Average yield	400 kg/ha
	Average Outturn	47-49 lbs
	Average Nut Count	190 Nuts/kg
	Average Production growth during last 5 years	9,000 MT/year
	Expected average production growth during next 5 years	9,500 MT/year
RCN Exports	RCN Exportations 2018 by Ghanean ports	246,000 MT
Processing	Number of industrial factories (Capacity >1000 MT/years)	10
	Local processing ratio in 2018	8,7 %
	Local processing realization in 2018 (RCN/year)	10,000 MT/year
	Local processing capacity in 2018 (RCN/year)	50,000 MT/year
	Average processing during last 5 years (RCN/year)	7,250 MT/year
Kernel exports	Kernel exportations 2018	1,850 MT
Local consumption	Local consumption of cashew kernels in 2018	100 MT

Distribution of cashew acreage in Ghana
by range of age (in Hectares)



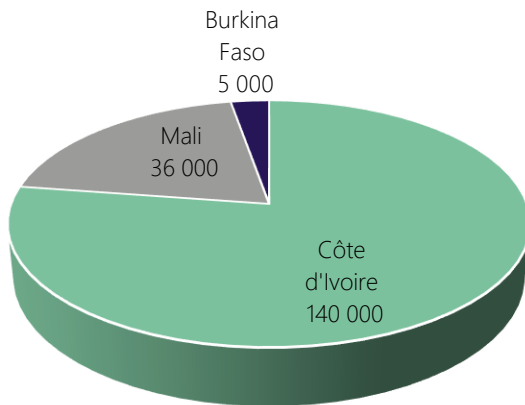
Cashew production in Ghana: past & forecasts

(in Metric Tons - Source: nitidae forecast model 2019)



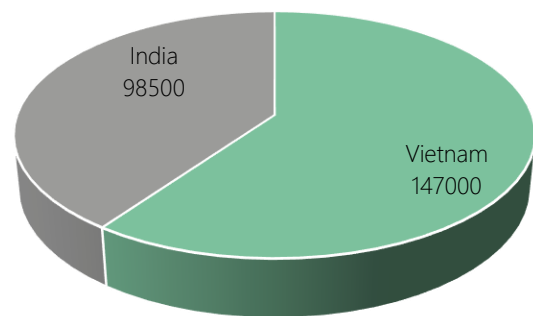
Raw Cashew Nut imports to Ghana by origin (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)



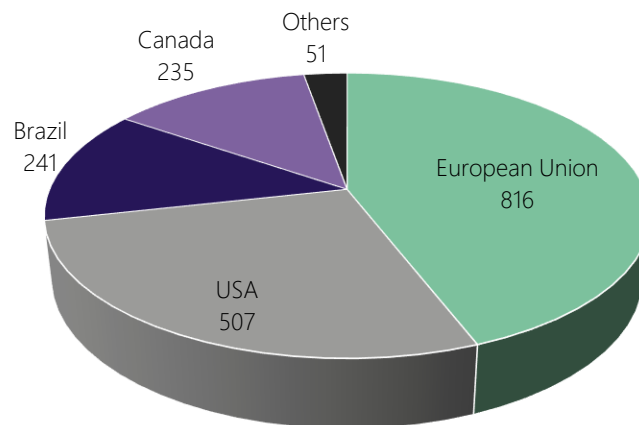
Raw Cashew Nut exports from Ghana by destination (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)



Cashew kernel exports from Ghana by destination (2018)

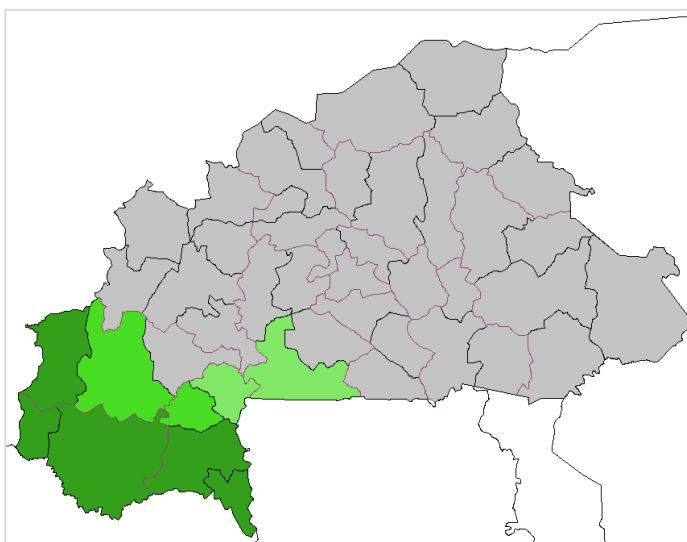
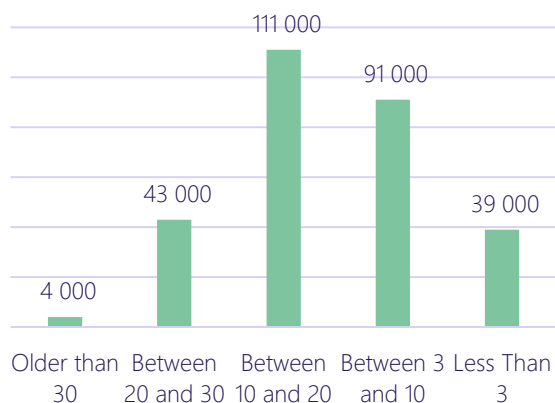
(MT of RCN ; n'kalô Service - www.nkalo.com)



The cashew sector in Burkina Faso

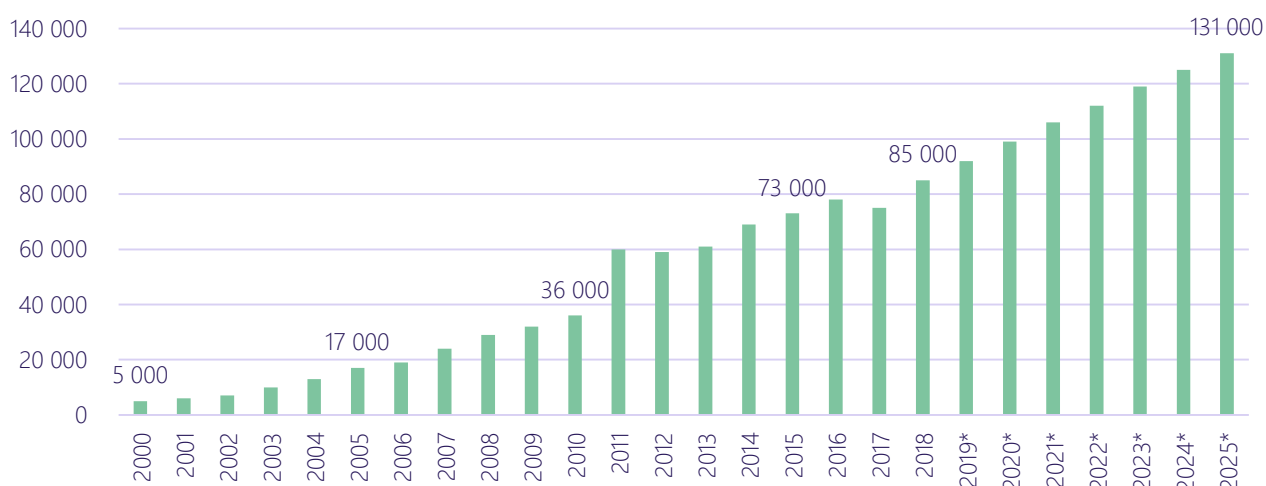
General	Burkina Faso	
	Population	19 Millions
	Surface	28 Millions ha
	Surface of cashew production areas	4 Millions ha
RCN Supply (RCN=Raw Cashew Nut)	Official production 2018	80,000 MT
	Estimated production 2018	85,000 MT
	% of world production in 2018	2.3 %
	Planted acreage	285,000 ha
	Productive acreage	250,000 ha
	Average yield	354 kg/ha
	Average Outturn	46-48 lbs
	Average Nut Count	190 Nuts/kg
	Average Production growth during last 5 years	4,500 MT/year
	Expected average production growth during next 5 years	3,500 MT/year
RCN Exports	RCN Exportations in 2018 in direct transit from Burkina	63,000 MT
Processing	Number of industrial factories (Capacity >1000 MT/years)	10
	Local processing ratio in 2018	8,2 %
	Local processing realization in 2018 (RCN/year)	7,000 MT/year
	Local processing capacity in 2018 (RCN/year)	20,000 MT/year
	Average processing during last 5 years (RCN/year)	6,000 MT/year
Kernel exports	Kernel exportations 2018	1,300 MT
Local consumption	Local consumption of cashew kernels in 2018	200 MT

Distribution of cashew acreage in Burkina by range of age (in Hectares)



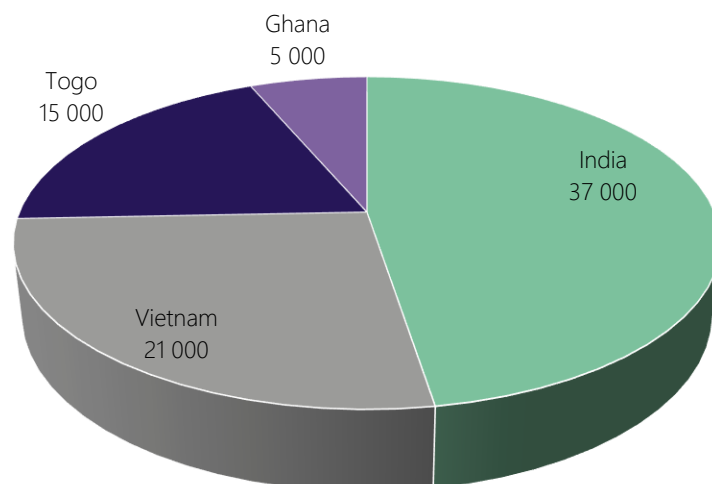
Cashew production in Burkina: past & forecasts

(in Metric Tons - Source: nitidae forecast model 2019)



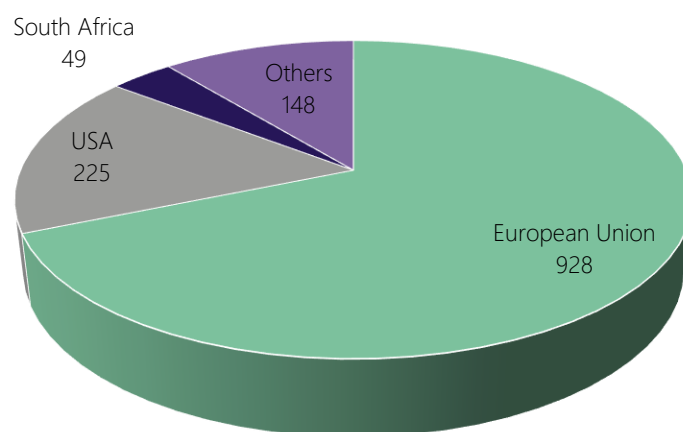
Raw Cashew Nut exports from Burkina by destination (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)



Cashew kernel exports from Burkina by destination (2018)

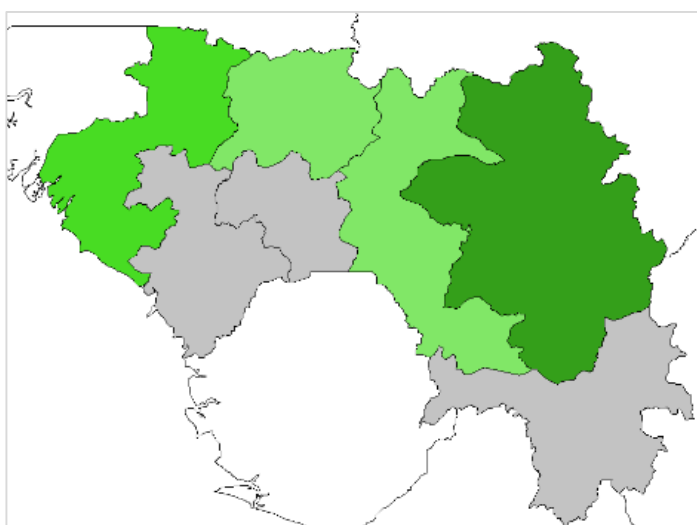
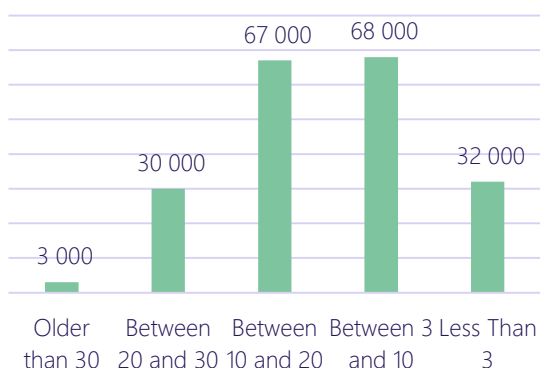
(MT of RCN ; n'kalô Service - www.nkalo.com)



The cashew sector in Guinea

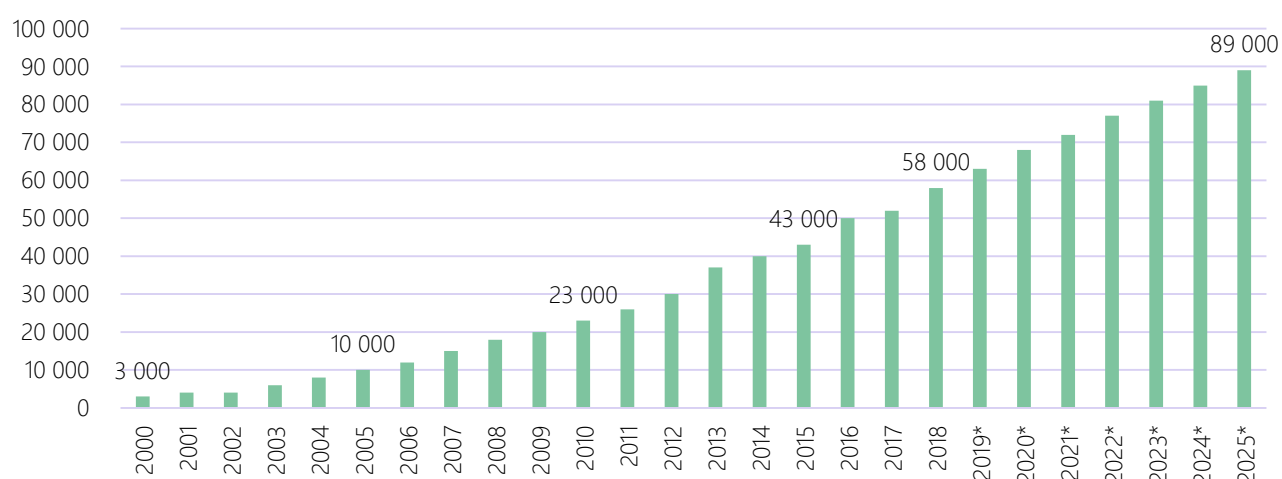
General	Guinea	
	Population	11 Millions
	Surface	25 Millions ha
	Surface of cashew production areas	5 Millions ha
RCN Supply (RCN=Raw Cashew Nut)	Official production 2018	70,000 MT
	Estimated production 2018	58,000 MT
	% of world production in 2018	1.6 %
	Planted acreage	200,000 ha
	Productive acreage	160,000 ha
	Average yield	335 kg/ha
	Average Outturn (Kankan region)	46-48 lbs
	Average Outturn (Boké region)	48-50 lbs
	Average Nut Count	190 Nuts/kg
	Average Production growth during last 5 years	4,000 MT/year
	Expected average production growth during next 5 years	4,500 MT/year
RCN Exports	RCN Exportations through Conakry port	76,000 MT
Processing	Number of industrial factories (Capacity >1000 MT/years)	4
	Local processing ratio in 2018	8,2 %
	Local processing realization in 2018 (RCN/year)	500 MT/year
	Local processing capacity in 2018 (RCN/year)	10,000 MT/year
	Average processing during last 5 years (RCN/year)	550 MT/year
Kernel exports	Kernel exportations 2018	80 MT
Local consumption	Local consumption of cashew kernels in 2018	20 MT

Distribution of cashew acreage in Guinea by range of age (in Hectares)



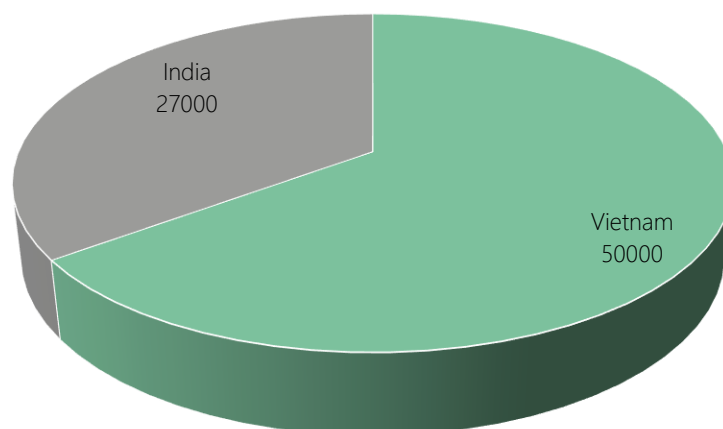
Cashew production in Guinea: past & forecasts

(in Metric Tons - Source: nitidae forecast model 2019)



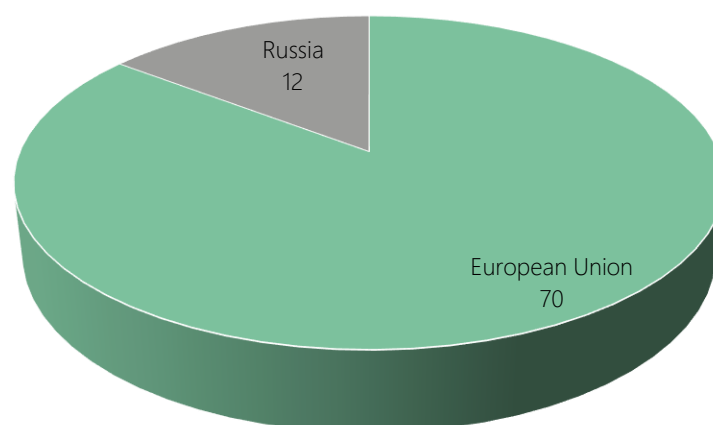
Raw Cashew Nut exports from Guinea by destination (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)



Cashew kernel exports from Guinea by destination (2018)

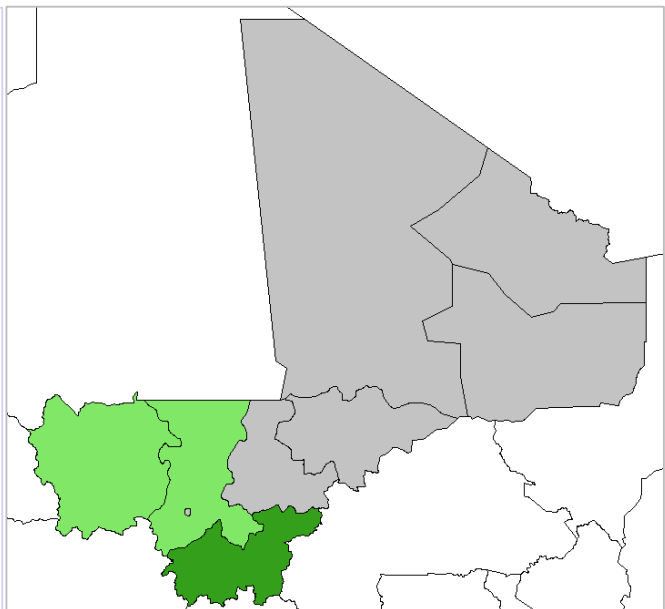
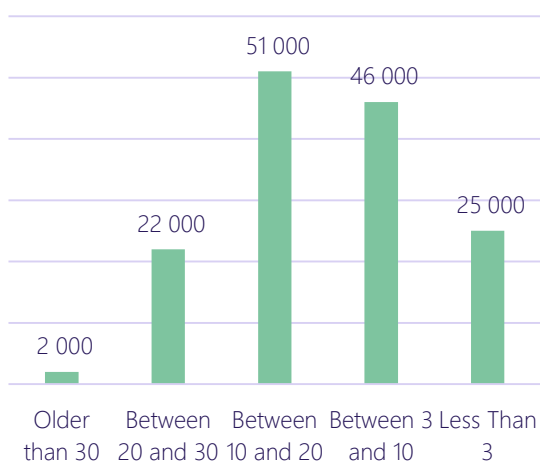
(MT of RCN ; n'kalô Service - www.nkalo.com)



The cashew sector in Mali

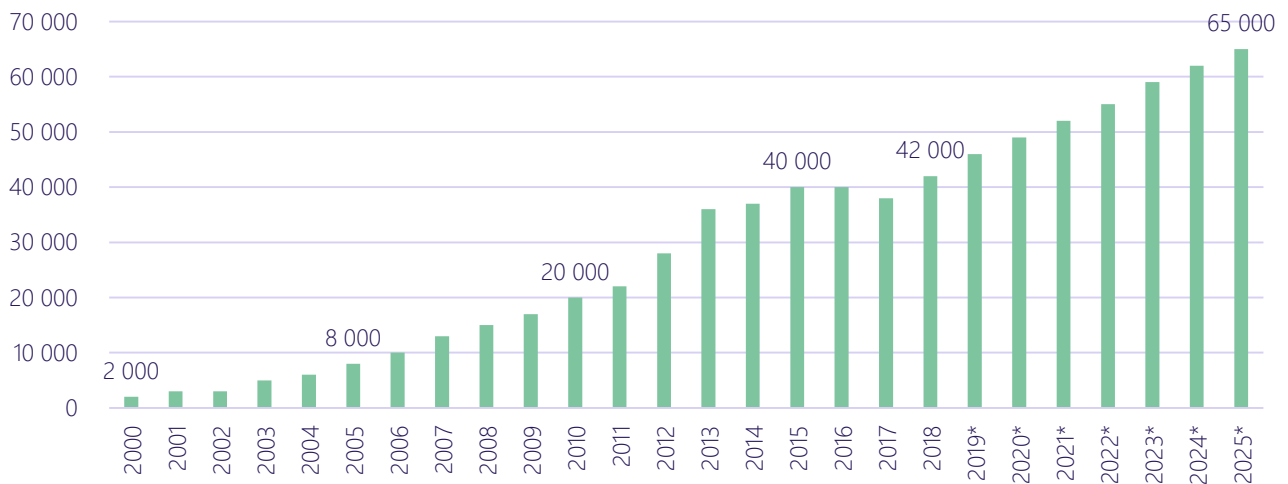
General	Mali	
	Population	16 Millions
	Surface	124 Millions ha
	Surface of cashew production areas	5 Millions ha
RCN Supply (RCN=Raw Cashew Nut)	Official production 2018	70,000 MT
	Estimated production 2018	42,000 MT
	% of world production in 2018	1.1 %
	Planted acreage	145,000 ha
	Productive acreage	125,000 ha
	Average yield	330 kg/ha
	Average Outturn	45-47 lbs
	Average Nut Count	190 Nuts/kg
	Average Production growth during last 5 years	1,500 MT/year
	Expected average production growth during next 5 years	3,000 MT/year
RCN Exports	RCN Exportations in direct transit from Mali	3,000 MT
Processing	Number of industrial factories (Capacity >1000 MT/years)	1
	Local processing ratio in 2018	0.6 %
	Local processing realization in 2018 (RCN/year)	250 MT/year
	Local processing capacity in 2018 (RCN/year)	2,000 MT/year
	Average processing during last 5 years (RCN/year)	200 MT/year
Kernel exports	Kernel exportations 2018	10 MT
Local consumption	Local consumption of cashew kernels in 2018	30 MT

Distribution of cashew acreage in Mali by range of age (in Hectares)



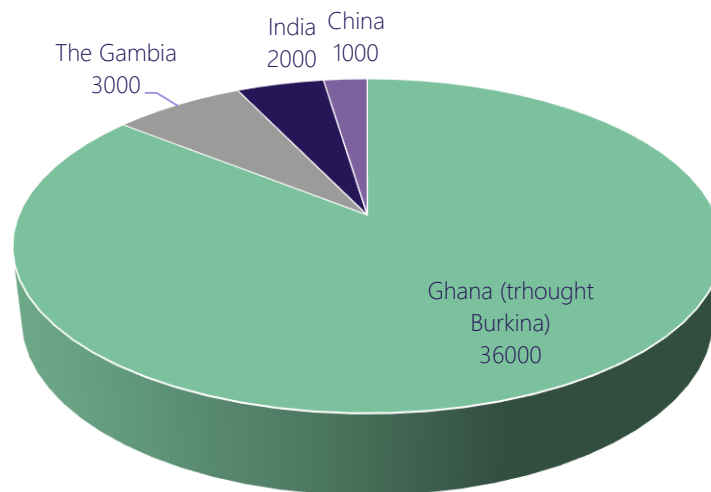
Cashew production in Mali: past & forecasts

(in Metric Tons - Source: nitidae forecast model 2019)



Raw Cashew Nut exports from Mali by destination (2018)

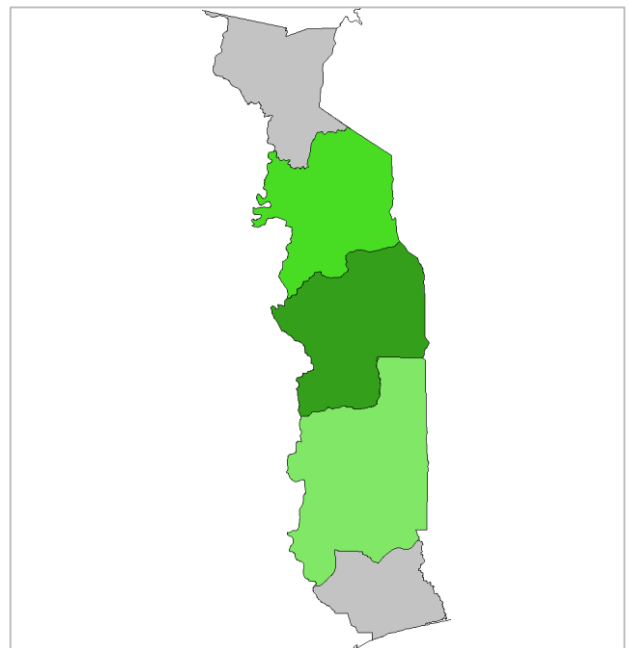
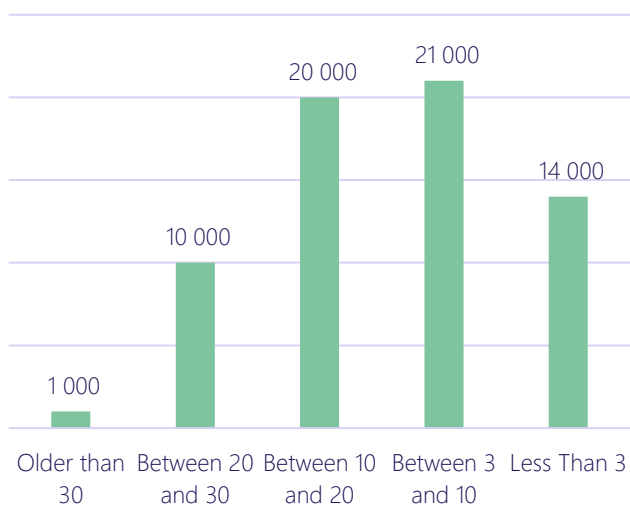
(MT of RCN ; n'kalô Service - www.nkalo.com)



The cashew sector in Togo

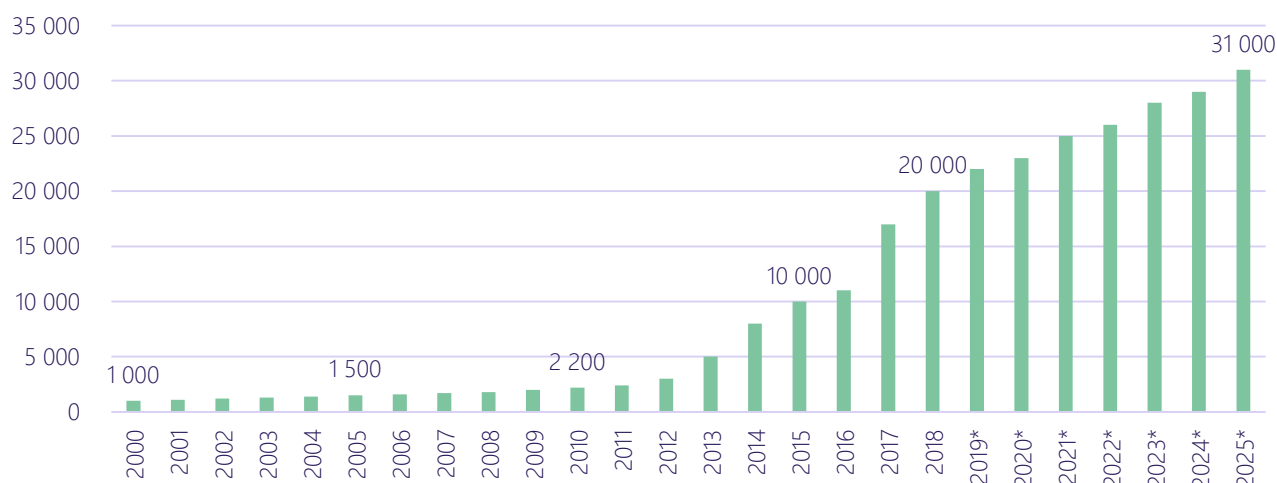
General	Togo	
	Population	7 Millions
	Surface	6 Millions ha
	Surface of cashew production areas	2 Millions ha
RCN Supply (RCN=Raw Cashew Nut)	Official production 2018	15,000 MT
	Estimated production 2018	20,000 MT
	% of world production in 2018	0.5 %
	Planted acreage	65,000 ha
	Productive acreage	50,000 ha
	Average yield	350 kg/ha
	Average Outturn	47-49 lbs
	Average Nut Count	190 Nuts/kg
	Average Production growth during last 5 years	2,500 MT/year
	Expected average production growth during next 5 years	1,500 MT/year
RCN Exports	RCN Exportations via Lomé port	34,000 MT
Processing	Number of industrial factories (Capacity >1000 MT/years)	3
	Local processing ratio in 2018	10 %
	Local processing realization in 2018 (RCN/year)	2,000 MT/year
	Local processing capacity in 2018 (RCN/year)	6,000 MT/year
	Average processing during last 5 years (RCN/year)	2,000 MT/year
Kernel exports	Kernel exportations 2018	408 MT
Local consumption	Local consumption of cashew kernels in 2018	50 MT

Distribution of cashew acreage in Togo
by range of age (in Hectares)



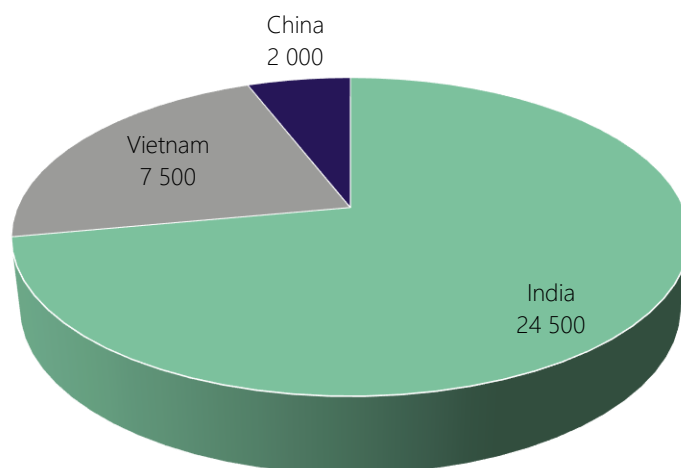
Cashew production in Togo: past & forecasts

(in Metric Tons - Source: nitidae forecast model 2019)



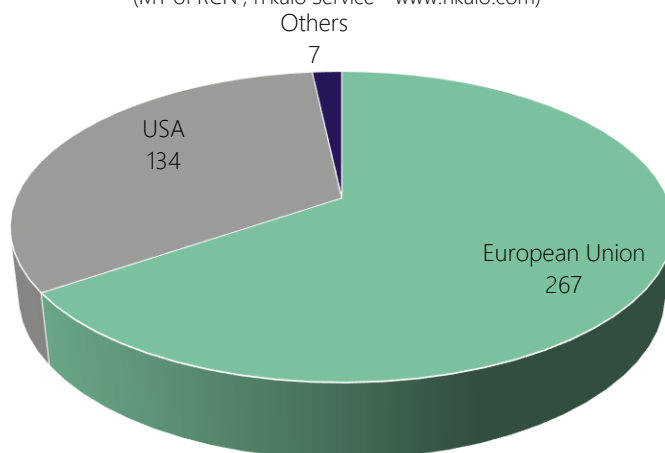
Raw Cashew Nut exports from Togo by destination (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)



Cashew kernel exports from Togo by destination (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)

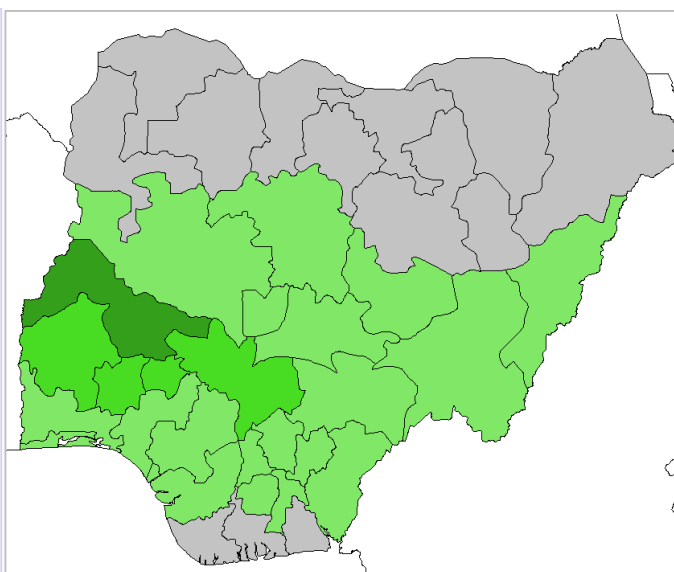
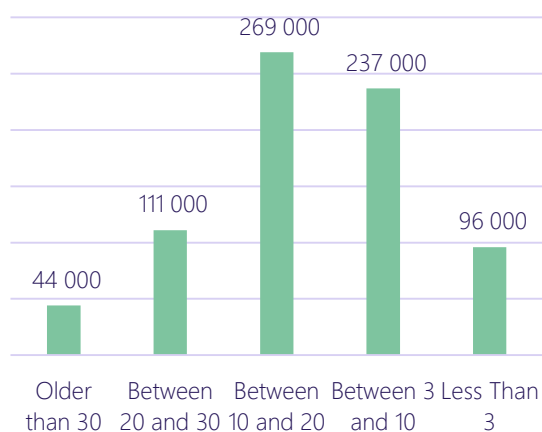


Eastern West Africa: Country profiles

The cashew sector in Nigeria

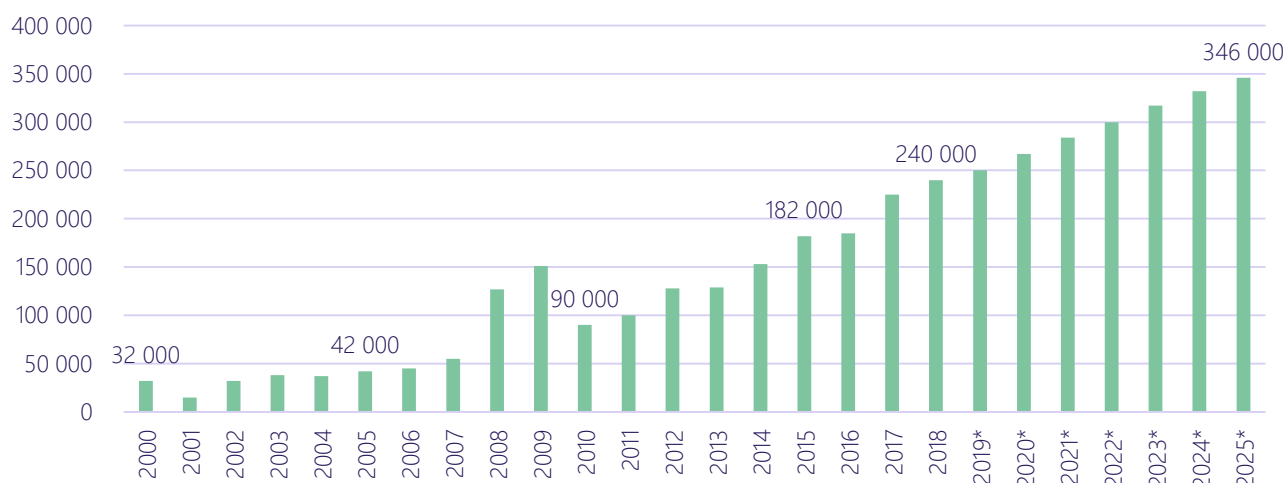
General	Nigeria	
	Population	190 Millions
	Surface	92 Millions ha
	Surface of cashew production areas	14 Millions ha
RCN Supply (RCN=Raw Cashew Nut)	Official production 2018	250,000 MT
	Estimated production 2018	240,000 MT
	% of world production in 2018	6.5 %
	Planted acreage	755,000 ha
	Productive acreage	660,000 ha
	Average yield	363 kg/ha
	Average Outturn	46-49 lbs
	Average Nut Count	180 Nuts/kg
	Average Production growth during last 5 years	22,000 MT/year
	Expected average production growth during next 5 years	15,000 MT/year
RCN Exports	RCN Exportations via Nigerian ports in 2018	213,000 MT
Processing	Number of industrial factories (Capacity >1000 MT/years)	10
	Local processing ratio in 2018	3 %
	Local processing realization in 2018 (RCN/year)	7,500 MT/year
	Local processing capacity in 2018 (RCN/year)	50,000 MT/year
	Average processing during last 5 years (RCN/year)	7,000 MT/year
Kernel exports	Kernel exportations 2018	770 MT
Local consumption	Local consumption of cashew kernels in 2018	750 MT

Distribution of cashew acreage in Nigeria by range of age (in Hectares)



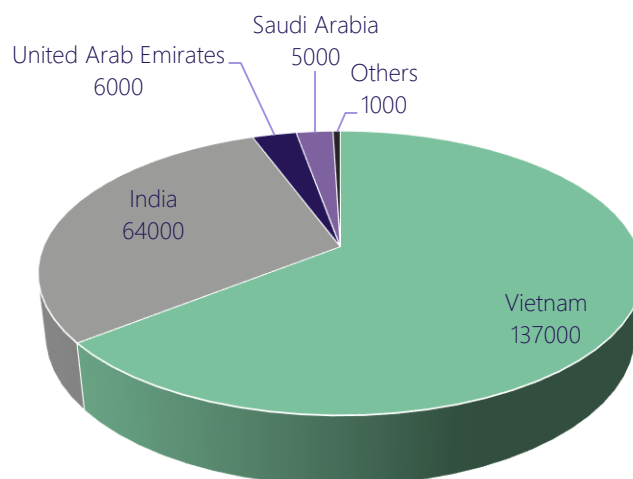
Cashew production in Nigeria: past & forecasts

(in Metric Tons - Source: nitidae forecast model 2019)



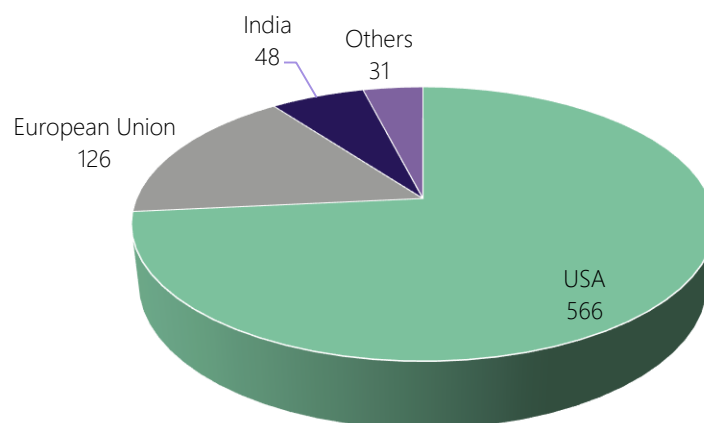
Raw Cashew Nut exports from Nigeria by destination (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)



Cashew kernel exports from Nigeria by destination (2018)

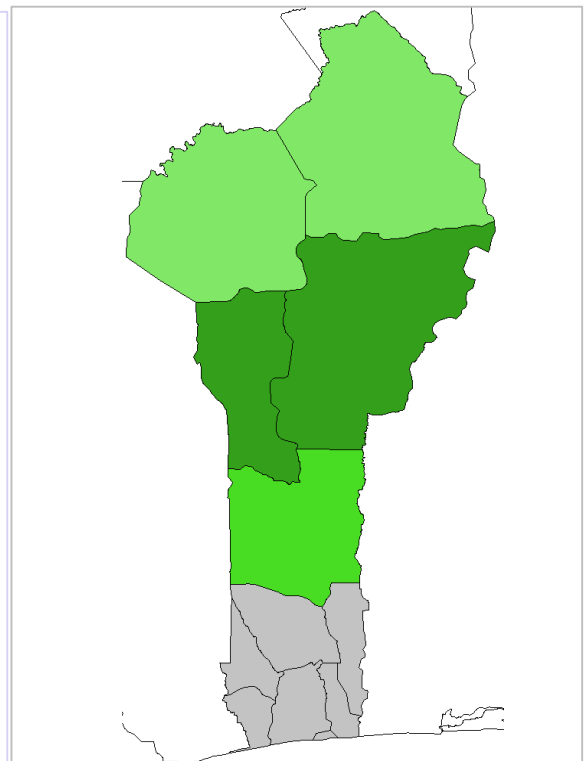
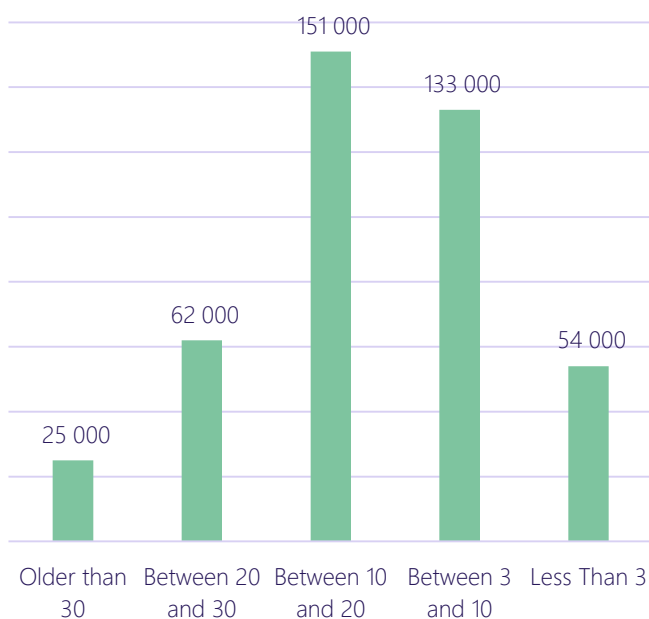
(MT of RCN ; n'kalô Service - www.nkalo.com)



The cashew sector in Benin

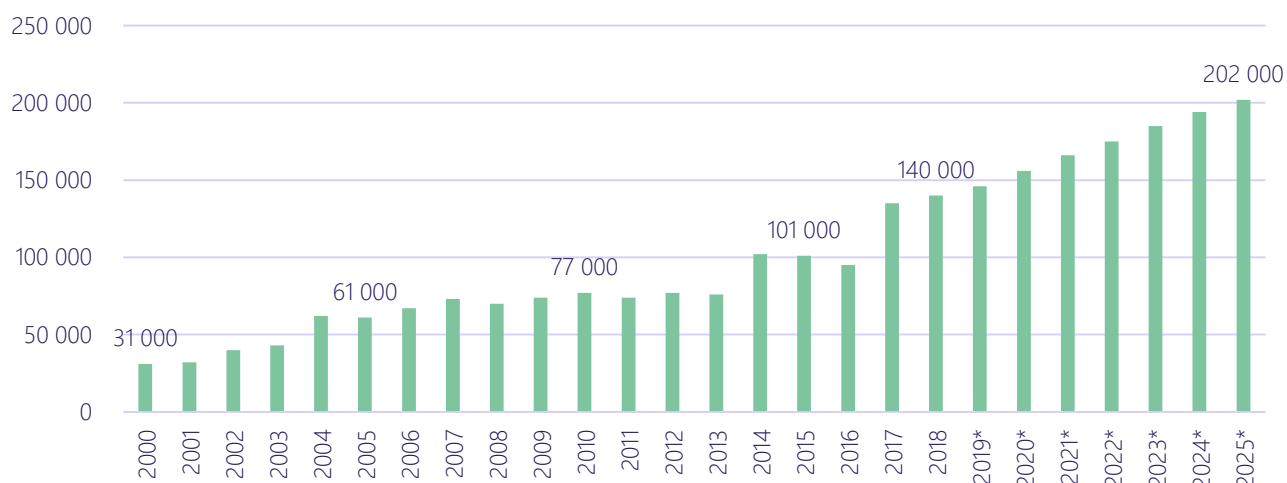
General	Benin	
	Population	10 Millions
	Surface	11 Millions ha
	Surface of cashew production areas	5 Millions ha
RCN Supply (RCN=Raw Cashew Nut)	Official production 2018	140,000 MT
	Estimated production 2018	140,000 MT
	% of world production in 2018	3.8 %
	Planted acreage	425,000 ha
	Productive acreage	370,000 ha
	Average yield	377 kg/ha
	Average Outturn	47-49 lbs
	Average Nut Count	170 Nuts/kg
	Average Production growth during last 5 years	12,500 MT/year
	Expected average production growth during next 5 years	9,000 MT/year
RCN Exports	RCN Exportations via Cotonou port in 2018	177,000 MT
Processing	Number of industrial factories (Capacity >1000 MT/years)	7
	Local processing ratio in 2018	9,3 %
	Local processing realization in 2018 (RCN/year)	13,000 MT/year
	Local processing capacity in 2018 (RCN/year)	40,000 MT/year
	Average processing during last 5 years (RCN/year)	7,500 MT/year
Kernel exports	Kernel exportations 2018	2,200 MT
Local consumption	Local consumption of cashew kernels in 2018	100 MT

Distribution of cashew acreage in Nigeria by range of age (in Hectares)



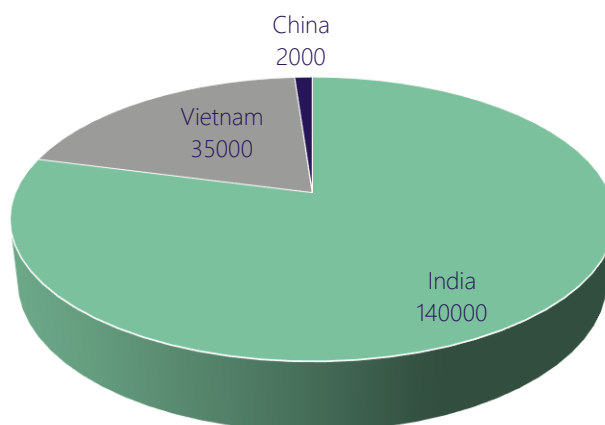
Cashew production in Benin: past & forecasts

(in Metric Tons - Source: nitidae forecast model 2019)



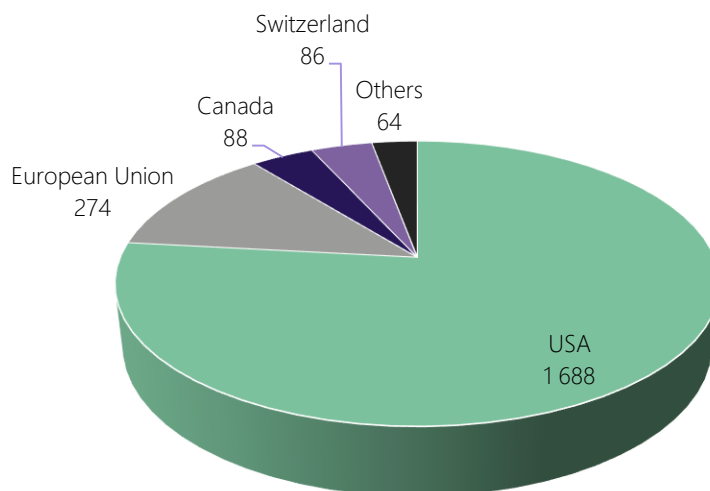
Raw Cashew Nut exports from Bénin by destination (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)



Cashew kernel exports from Benin by destination (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)

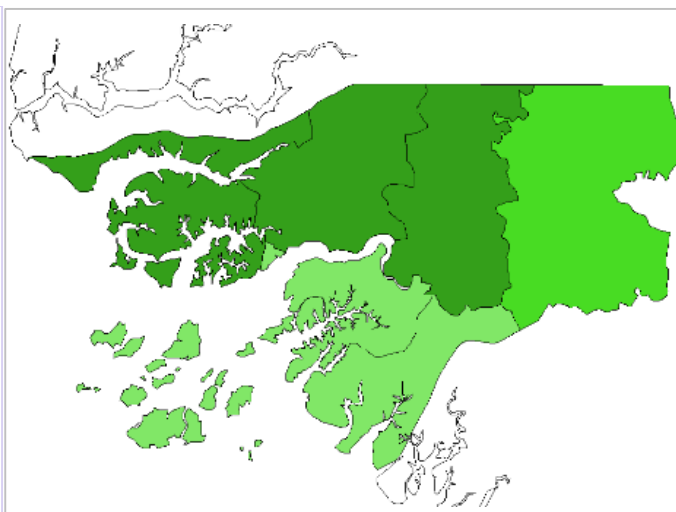
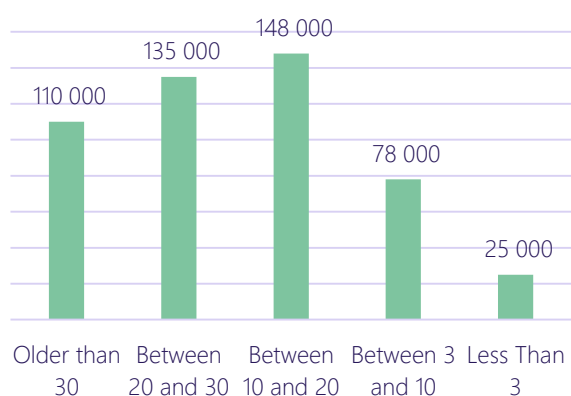


Western West Africa: Country profiles

The cashew sector in Guinea-Bissau

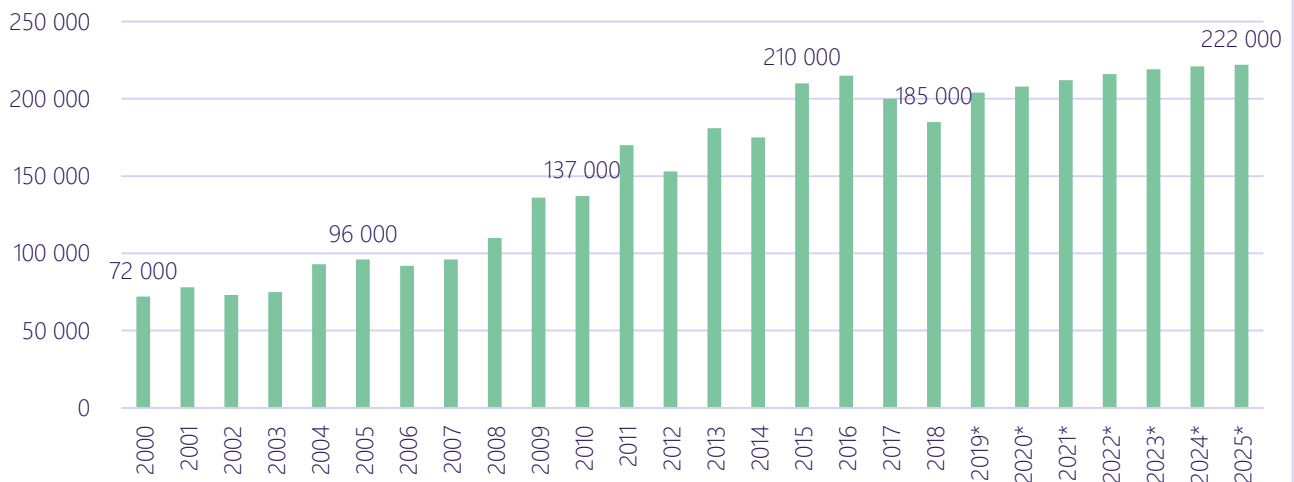
General	Guinea Bissau	
	Population	1.5 Millions
	Surface	3.6 Millions ha
	Surface of cashew production areas	3.4 Millions ha
RCN Supply (RCN=Raw Cashew Nut)	Official production 2018	175,000 MT
	Estimated production 2018	185,000 MT
	% of world production in 2018	5 %
	Planted acreage	495,000 ha
	Productive acreage	470,000 ha
	Average yield	394 kg/ha
	Average Outturn	50-54 lbs
	Average Nut Count	210 Nuts/kg
	Average Production growth during last 5 years	1,000 MT/year
	Expected average production growth during next 5 years	1,000 MT/year
RCN Exports	RCN Exportations via Bissau port in 2018	142,000 MT
Processing	Number of industrial factories (Capacity >1000 MT/years)	5
	Local processing ratio in 2018	2.2 %
	Local processing realization in 2018 (RCN/year)	4,000 MT/year
	Local processing capacity in 2018 (RCN/year)	50,000 MT/year
	Average processing during last 5 years (RCN/year)	2,000 MT/year
Kernel exports	Kernel exportations 2018	730 MT
Local consumption	Local consumption of cashew kernels in 2018	50 MT

Distribution of cashew acreage in Guinea Bissau by range of age (in Hectares)



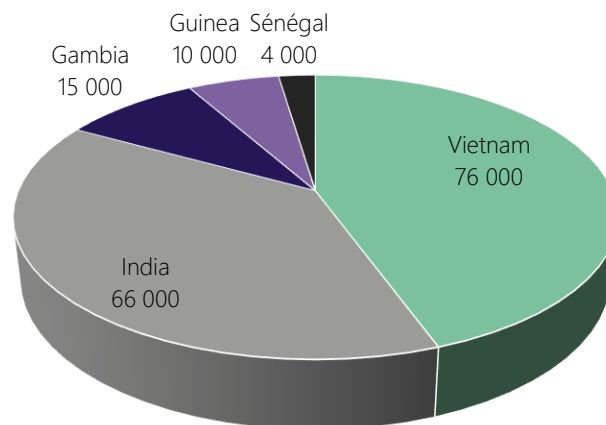
Cashew production in Guinea Bissau: past & forecasts

(in Metric Tons - Source: nitidae forecast model 2019)



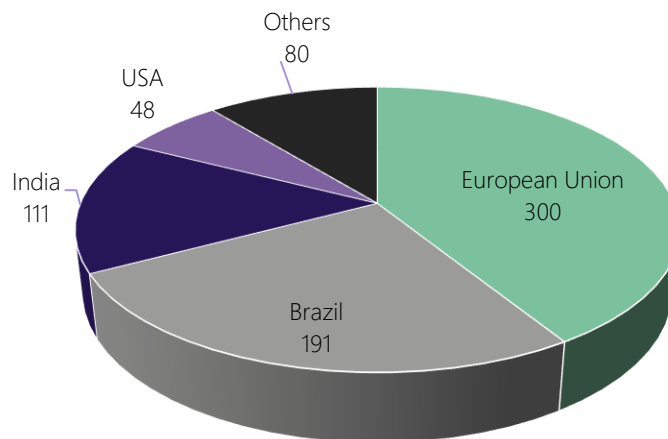
Raw Cashew Nut exports from Guinea Bissau by destination (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)



Cashew kernel exports from Guinea Bissau by destination (2018)

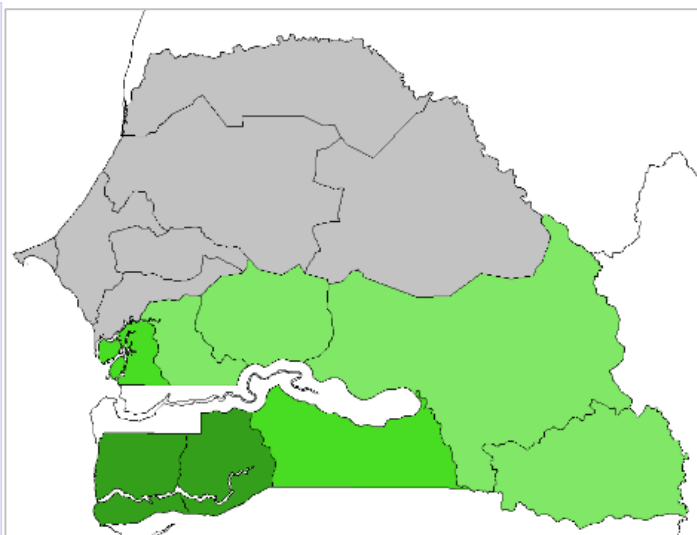
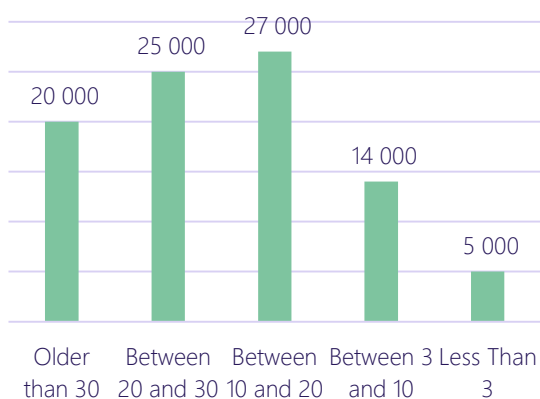
(MT of RCN ; n'kalô Service - www.nkalo.com)



The cashew sector in Senegal

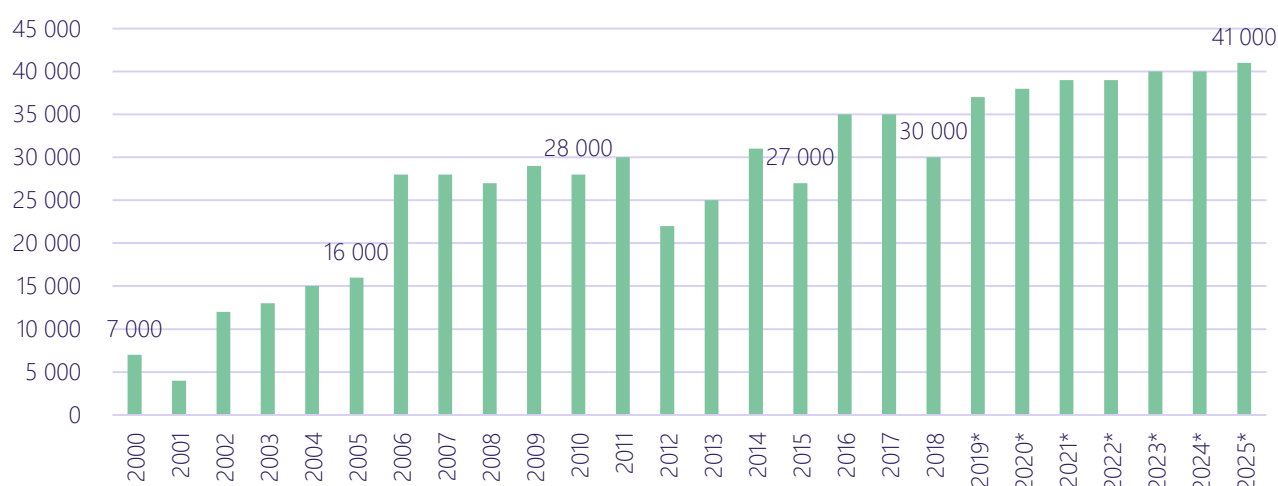
General	Senegal	
	Population	15 Millions
	Surface	20 Millions ha
	Surface of cashew production areas	2.5 Millions ha
RCN Supply (RCN=Raw Cashew Nut)	Official production 2018	30,000 MT
	Estimated production 2018	30,000 MT
	% of world production in 2018	0.8 %
	Planted acreage	91,000 ha
	Productive acreage	86,000 ha
	Average yield	349 kg/ha
	Average Outturn	50-52 lbs
	Average Nut Count	200 Nuts/kg
	Average Production growth during last 5 years	1,000 MT/year
	Expected average production growth during next 5 years	500 MT/year
RCN Exports	RCN Exportations via Dakar port in 2018	29,000 MT
Processing	Number of industrial factories (Capacity >1000 MT/years)	1
	Local processing ratio in 2018	1.7 %
	Local processing realization in 2018 (RCN/year)	500 MT/year
	Local processing capacity in 2018 (RCN/year)	5,000 MT/year
	Average processing during last 5 years (RCN/year)	300 MT/year
Kernel exports	Kernel exportations 2018	18 MT
Local consumption	Local consumption of cashew kernels in 2018	100 MT

Distribution of cashew acreage in Senegal by range of age (in Hectares)



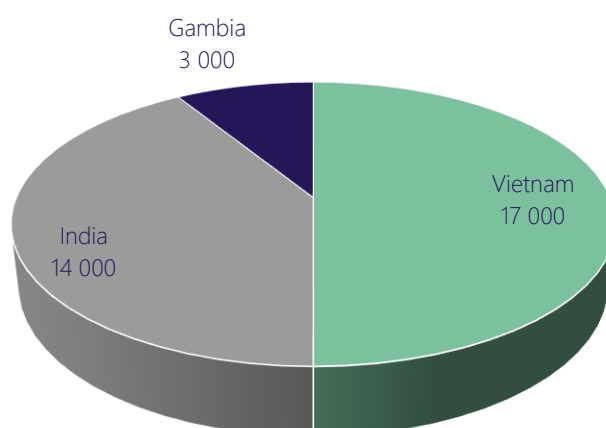
Cashew production in Senegal: past & forecasts

(in Metric Tons - Source: nitidae forecast model 2019)



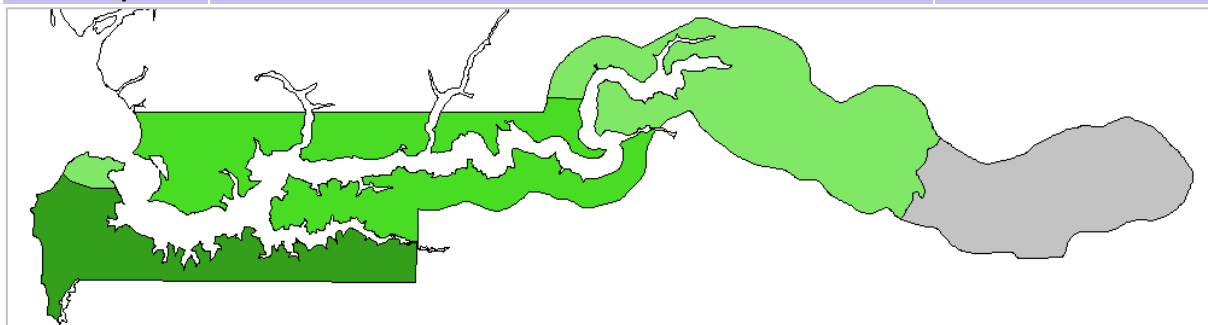
Raw Cashew Nut exports from Senegal by destination (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)

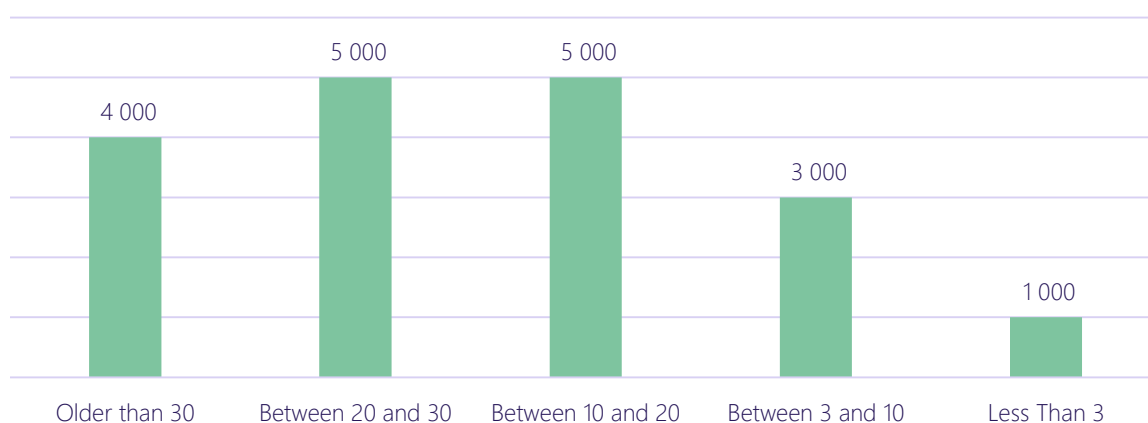


The cashew sector in The Gambia

General	The Gambia	
	Population	2 Millions
	Surface	1.1 Millions ha
	Surface of cashew production areas	0.8 Millions ha
RCN Supply (RCN=Raw Cashew Nut)	Official production 2018	15,000 MT
	Estimated production 2018	6,000 MT
	% of world production in 2018	0.2 %
	Planted acreage	18,000 ha
	Productive acreage	17,000 ha
	Average yield	353 kg/ha
	Average Outturn	50-52 lbs
	Average Nut Count	200 Nuts/kg
	Average Production growth during last 5 years	100 MT/year
	Expected average production growth during next 5 years	100 MT/year
RCN Exports	RCN Exportations via Banjul port in 2018	20,000 MT
Processing	Number of industrial factories (Capacity >1000 MT/years)	1
	Local processing ratio in 2018	8.3 %
	Local processing realization in 2018 (RCN/year)	500 MT/year
	Local processing capacity in 2018 (RCN/year)	2,500 MT/year
	Average processing during last 5 years (RCN/year)	400 MT/year
Kernel exports	Kernel exportations 2018	0 MT
Local consumption	Local consumption of cashew kernels in 2018	115 MT

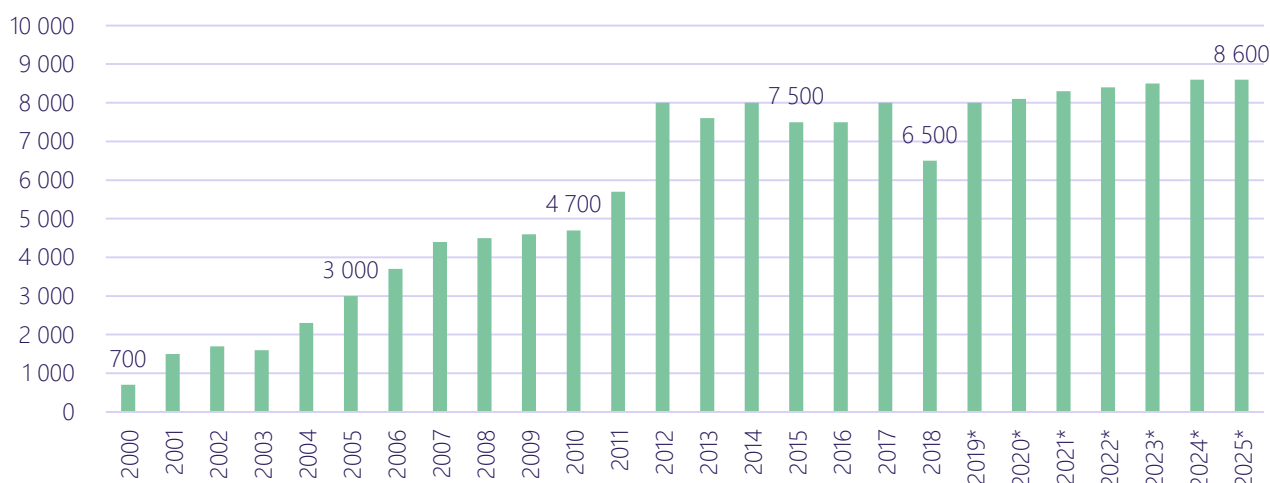


Distribution of cashew acreage in Gambia by range of age (in Hectares)



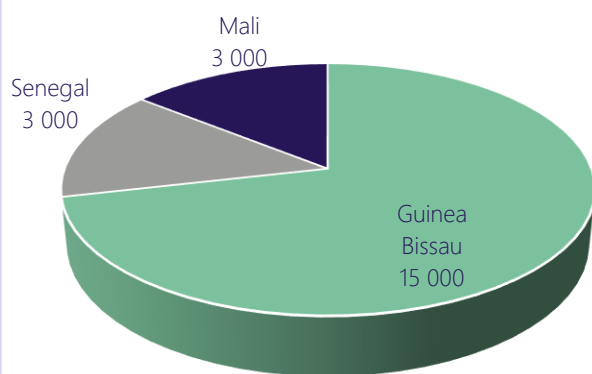
Cashew production in The Gambia: past & forecasts

(in Metric Tons - Source: nitidae forecast model 2019)



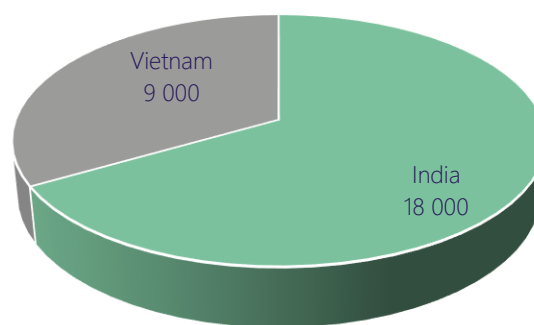
Raw Cashew Nut imports to Gambia by origin (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)



Raw Cashew Nut exports from Gambia by destination (2018)

(MT of RCN ; n'kalô Service - www.nkalo.com)



SOURCES :

- UNCOMTRADE: <https://comtrade.un.org> ,
- Trademap: www.trademap.org
- Eurostat: <https://ec.europa.eu/eurostat>
- USDA: <https://apps.fas.usda.gov/gats>
- Indian Customs: <http://www.dgciskol.gov.in>
- Vietnam Custom: www.customs.gov.vn
- Côte d'Ivoire customs: <http://www.douanes.ci>
- N'Kalô Service Network and data base: www.nkalo.com
- Nitidae's cashew crop model: www.nitidae.org

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