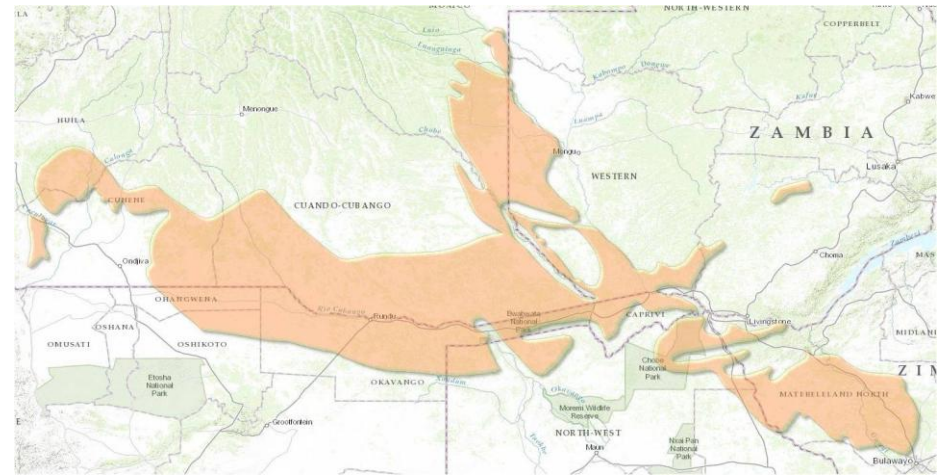


BLUE EXCHANGE

EXPORTERS OF AFRICAN TIMBER



PRODUCT AREA



PRODUCT FOR EXPORT

CURRENT PRODUCTS AVAILABLE

- Rhodesian Teak / Kiaat / African Rosewood
- Sawn Cants / Various Sizes Available

QUANTITY AVAILABLE

- Rhodesian Teak - 100 to 200 Cubes per Month
- Kiaat - 100 to 200 Cubes per Month
- African Rosewood - 100 to 200 Cubes per Month

ORIGIN

- Republic of Namibia

MINIMUM EXPORT ORDER

- One / Two Containers

FREE ON BOARD ("FOB") PRICE

- US\$ Order per Cube
- Price Variable per Order Size

PORTS AVAILABLE

- Namibia
Walvis Bay (Preferred)
- South Africa
Cape Town (Preferred)
Port Elizabeth
East London
Durban

DOCUMENTATION

- All necessary processes and documentation adhered to.
- Full Compliance



PRODUCT



PRODUCT



IMPORT / EXPORT REQUIREMENTS

Located in the Zambezi Region of Namibia the stockpiles of Rhodesian Teak, Kiaat and African Rosewood are available for export through any port in Namibia or South Africa.

PROCESS

- Kiln and Dry
- Fumigation



DOCUMENTATION ISSUED BY DEPARTMENT OF FORESTRY AND RELEVANT

AUTHORITIES

- Certificate of Origin
- Certificate of Treatment
- Phytosanitary Certificate

No phytosanitary certificate can be issued until an application is completed (7 CFR 35.3)

FORM APPROVED
OMB NO. 0579-0052

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE PLANT PROTECTION AND QUARANTINE		FOR OFFICIAL USE ONLY		
PHYTOSANITARY CERTIFICATE		PLACE OF ISSUE	SAMPLE	
TO: THE PLANT PROTECTION ORGANIZATION(S) OF SAMPLE		NO.	FPC XXXXXXX	
		DATE INSPECTED		
CERTIFICATION				
This is to certify that the plants, plant product or other regulated articles described herein have been inspected and/or tested according to appropriate official procedures and are considered to be free from the quarantine pests, specified by the importing contracting party and to conform with the current phytosanitary requirements of the importing contracting party including those for regulated non-quarantine pests.				
DISINFESTATION AND/OR DISINFECTION TREATMENT				
1. DATE		2. TREATMENT		
3. CHEMICAL (active ingredient)		4. DURATION AND TEMPERATURE		
5. CONCENTRATION		6. ADDITIONAL INFORMATION		
DESCRIPTION OF THE CONSIGNMENT				
7. NAME AND ADDRESS OF EXPORTER SAMPLE		8. DECLARED NAME AND ADDRESS OF THE CONSIGNEE SAMPLE		
9. NAME OF PRODUCE AND QUANTITY DECLARED SAMPLE		10. BOTANICAL NAME OF PLANTS SAMPLE		
11. NUMBER AND DESCRIPTION OF PACKAGES SAMPLE		12. DISTINGUISHING MARKS SAMPLE		
13. PLACE OF ORIGIN SAMPLE		14. DECLARED MEANS OF CONVEYANCE SAMPLE		
		15. DECLARED POINT OF ENTRY		
WARNING: Any alteration, forgery, or unauthorized use of this phytosanitary certificate is subject to civil penalties of up to \$250,000 (7 U.S.C. Section 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than 5 years, or both (19 U.S.C. Section 1001).				
ADDITIONAL DECLARATION				
SAMPLE				SAMPLE
Page 1 of 1				
16. DATE ISSUED	17. NAME OF AUTHORIZED OFFICER (Type or Print)		18. SIGNATURE OF AUTHORIZED OFFICER	
No liability shall attach to the United States Department of Agriculture or to any officer or representative of the Department with respect to this certificate.				

PPQ Form 577 FEB 2001 Previous editions are obsolete after 6/30/01

RHODESIAN TEAK -Baikiaea Plurijuga



The tree can grow to 50-65 ft (15-20 m) tall with a trunk diameter of 1-2 ft (.3-.6 m).

Rhodesian Teak Baikiaea Plurijuga

Other Names:

- Zambezi Redwood
- Zambian Teak
- Mukushi

Uses: Highly versatile. Decking, flooring, furniture, cabinetwork, turnery, carving, decorative veneer, mining timber, railway sleepers and store fittings.

- Moisture Content: < 20 Percent
- Grade and Quality: Prime - Full Brown
- Sawn Planks Sizes:
 - Thickness: 30 mm
 - Width: 190 to 400 mm
 - Length: 2,500 to 4,000 mm

Rhodesian Teak is one of the most valuable hardwoods and it is extremely durable, withstanding abrasions without splitting and very stable with a minimal linear shrinkage factor making it very suitable for outdoor applications. The wood has very little corrosive effect, is termite and fungi resistant and has a very high fire retardation factor.

Rhodesian Teak decking is one of the most suitable solid timbers for external decking withstanding extreme temperatures and climatic conditions.

The timber has a high density, enduring beauty and is the worlds finest timber for decking. It is universally renowned for its beautiful straight grain and distinctive handsome reddish brown colour.

Rhodesian Teak is a fine lifetime investment needing minimal maintenance with the colour improving over time and lasting for generations. It is far superior to any other Teak available.

RHODESIAN TEAK - *Baikiaea Plurijuga*



Distribution: Southern Africa

Tree Size: 50 - 65 ft (15-20 m) tall, 1-2 ft (.3-.6 m) trunk diameter

Average Dried Weight: 56 lbs/ft³ (890 kg/m³)

Specific Gravity (Basic, 12% MC): .73, .89

Janka Hardness: 2,990 lbf (13,300 N)

Modulus of Rupture: 12,220 lbf/in² (84.3 MPa)

Elastic Modulus: 1,230,000 lbf/in² (8.48 GPa)

Crushing Strength: 9,600 lbf/in² (66.2 MPa)

Shrinkage: Radial: 2.6%, Tangential: 4.5%, Volumetric: 6.9%, T/R Ratio: 1.7

Color/Appearance: Heartwood is a medium reddish brown, commonly with black streaks. Sharply defined sapwood is a pale pinkish yellow.

Grain/Texture: Grain is straight to interlocked, with a fine, even texture and low natural lustre.

Endgrain: Diffuse-porous; solitary and radial multiples; small to medium pores in no specific arrangement, moderately numerous; yellowish brown mineral/gum deposits present; parenchyma vasicentric, banded; narrow to medium rays, spacing normal to fairly close.

Rot Resistance: Rated as very durable; good insect resistance, though sapwood is prone to insect attack.

Workability: The wood is stable in service, and glues, turns, and finishes well.

Comments: Despite its common name, this wood species is not a true Teak (*Tectona* genus). However, much like genuine Teak, it does have good stability and rot resistance, and is considerably harder than genuine Teak.

RHODESIAN TEAK -Baikiaea Plurijuga



RHODESIAN TEAK -Baikiaea Plurijuga



KIAAT -Pterocarpus Angolensis



Kiaat Pterocarpus Angolensis

Other Names:

- Mukwa / Muninga / Mulombe
- Dolfhout / African Teak / Bloodwood

Uses: Furniture, fine joinery, flooring, decorative veneer, turnery and boat building.

- Moisture Content: < 20 Percent
- Grade and Quality: Prime - 80 to 90% Red and 10 to 20% White
- Sawn Planks Sizes:
 - Thickness: 30 mm
 - Width: 190 to 400 mm
 - Length: 2,500 to 4,000 mm

In Southern Africa Kiaat is one of the most generally used and most valuable woods. The wood is relatively light and the shrinkage rates are low. Kiaat dries well but slowly, without warping and with little or no tendency to check or split.

The heartwood is pale to dark brown or reddish brown, often with streaks and is distinctly demarcated from the pale grey or pale yellow sapwood. The grain is straight to interlocked, texture medium to coarse

Once dry, it is very stable. The wood works well with hand and machine tools and its straight-grained material planes, finishes and polishes extremely well.

The wood is easy to peel and slice, and has good gluing and excellent turning and carving properties

The wood is durable and has good resistance to termites and marine borers.

KIAAT -Pterocarpus Angolensis



It's not unusual for the kiaat tree to release red colored sap from its trunk when cut - hence the name Bloodwood.

Distribution: Southern Africa

Tree Size: 40-60 ft (12-18 m) tall, 1.5-2.5 ft (.5-.8 m) trunk diameter

Average Dried Weight: 38 lbs/ft³ (605 kg/m³)

Specific Gravity (Basic, 12% MC): .59, .60

Janka Hardness: 1,360 lbf (6,050 N)

Modulus of Rupture: 14,250 lbf/in² (98.2 MPa)

Elastic Modulus: 1,267,000 lbf/in² (8.73 GPa)

Crushing Strength: 8,020 lbf/in² (55.3 MPa)

Shrinkage: Radial: 1.7%, Tangential: 2.8%, Volumetric: 5.4%, T/R Ratio: 1.6

Color/Appearance: Heartwood color can vary widely from a lighter golden brown, to a darker reddish or purplish brown. Colors tend to become more subdued with age.

Grain/Texture: Grain is straight to interlocked. Medium to coarse texture.

Endgrain: Diffuse-porous; medium pores in no specific arrangement; solitary and radial multiples of 2-3; mineral deposits occasionally present; growth rings indistinct; rays not visible without lens; parenchyma diffuse-in-aggregates, winged, confluent, and banded (not marginal).

Rot Resistance: Heartwood is rated as being durable to moderately durable; good resistance to insect attack.

Comments: This wood is actually closely related to the much more well-known African Padauk (*Pterocarpus soyauxii*). It has outstanding stability, and remain stable in the midst of seasonal changes.

KIAAT -Pterocarpus Angolensis



KIAAT -Pterocarpus Angolensis



AFRICAN ROSEWOOD - *Guibourtia Coleosperma*



Rosewood

Guibourtia Coleosperma

Other Names:

- African Rosewood / False Mopane
- Machibi / Rhodesian Copalwood / Umtshibi

Uses: Furniture, fine joinery, flooring, decking, decorative veneer, turnery and boat building.

- Average Dried Weight: 800 - 960 kg/m³ at 12% Moisture Content
- Janka Hardness: 9,800 - 11,150 N
- Modulus of Rupture: 85–142 N/mm²
- Elastic Modulus: 9,210 N/mm²
- Shrinkage: Radial: 3.2%, Tangential: 2.0%, Radial

The heartwood is pinkish brown or pale red-brown with pinkish or reddish stripes, darkening to a rich mahogany-like red-brown colour with the stripes becoming more faint. It is clearly demarcated from the yellowish white to pale pink, up to 9 cm wide sapwood.

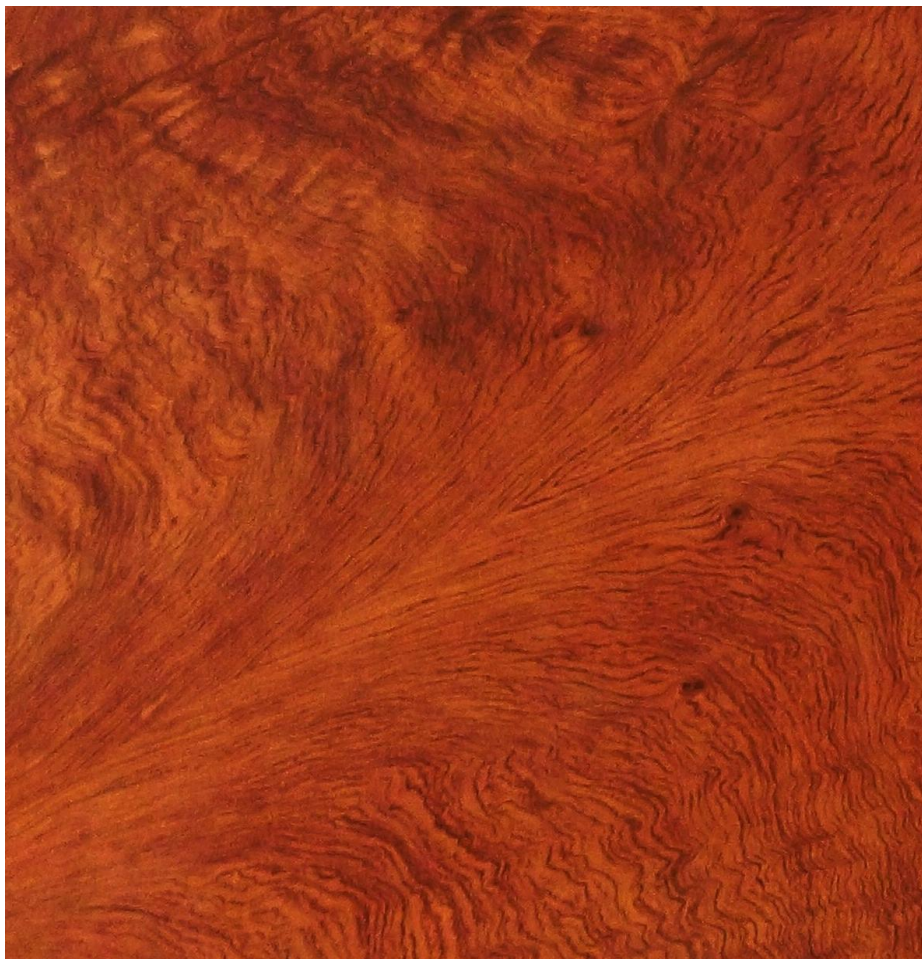
The grain is straight or interlocked, texture moderately fine and even. The wood has an attractive figure. It has a fragrant smell when freshly cut.

The wood saws and works well despite its high density and hardness.

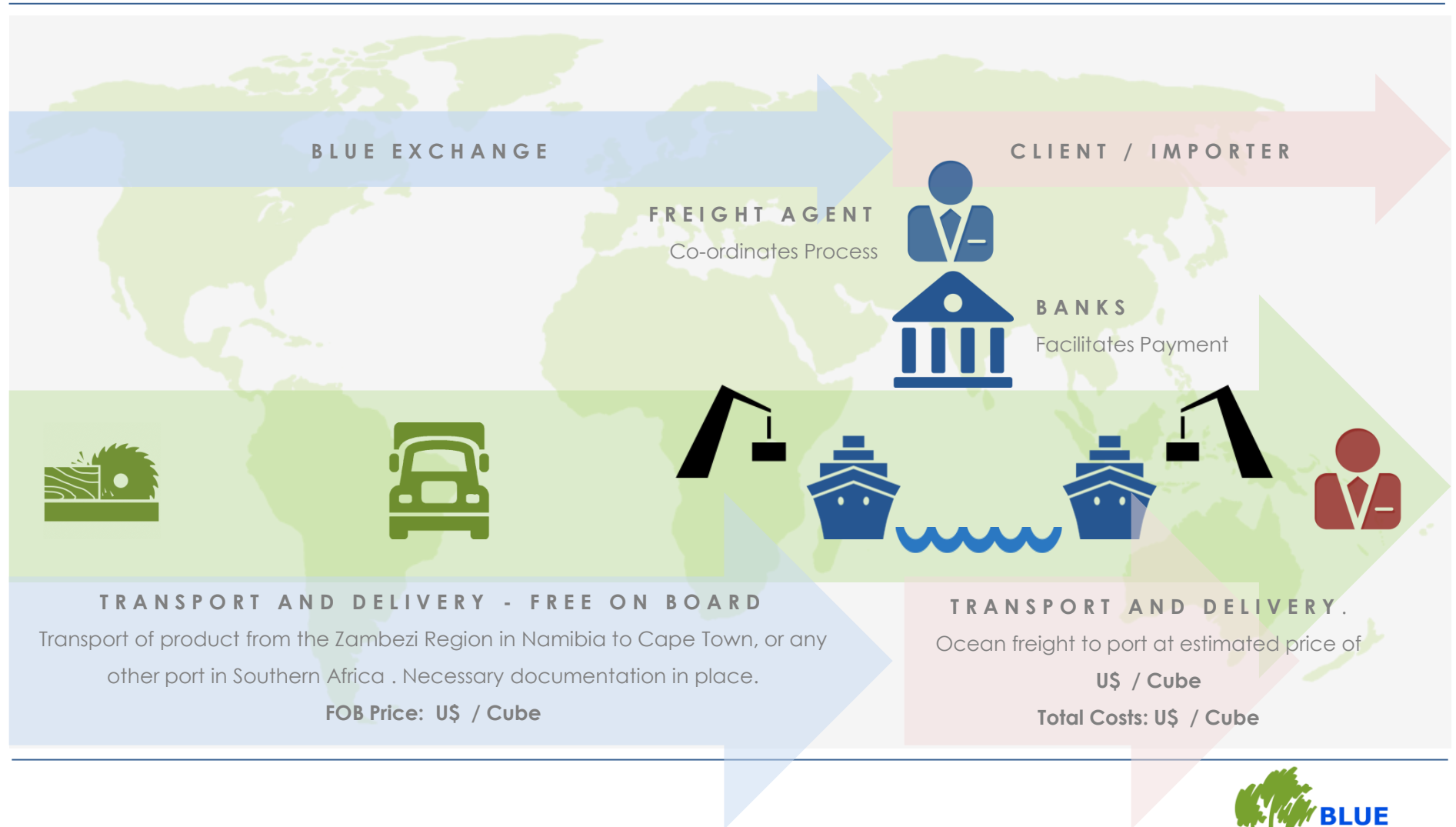
It finishes well although the presence of interlocked grain may sometimes cause picking up of grain in planing. It polishes well. Pre-boring is needed for nailing and screwing.

The gluing and varnishing properties are satisfactory, but staining may be difficult. Veneer of good quality can be produced by slicing and rotary peeling.

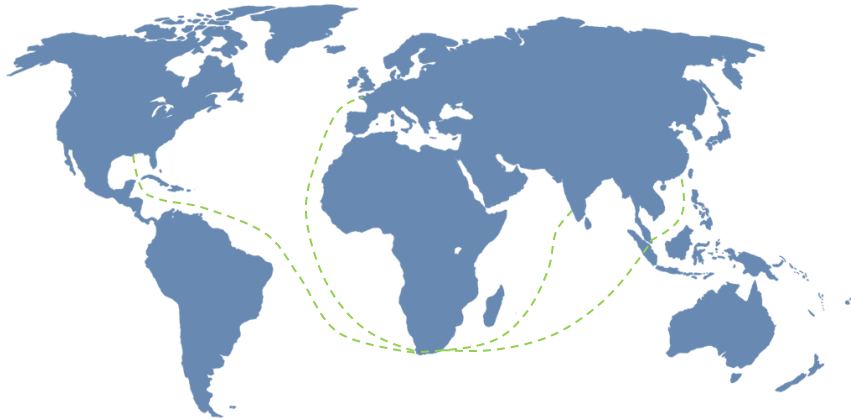
AFRICAN ROSEWOOD - Guibourtia Coleosperma



PROCESS



FREIGHT



HANS HUMAN

Independent Freight Consultant

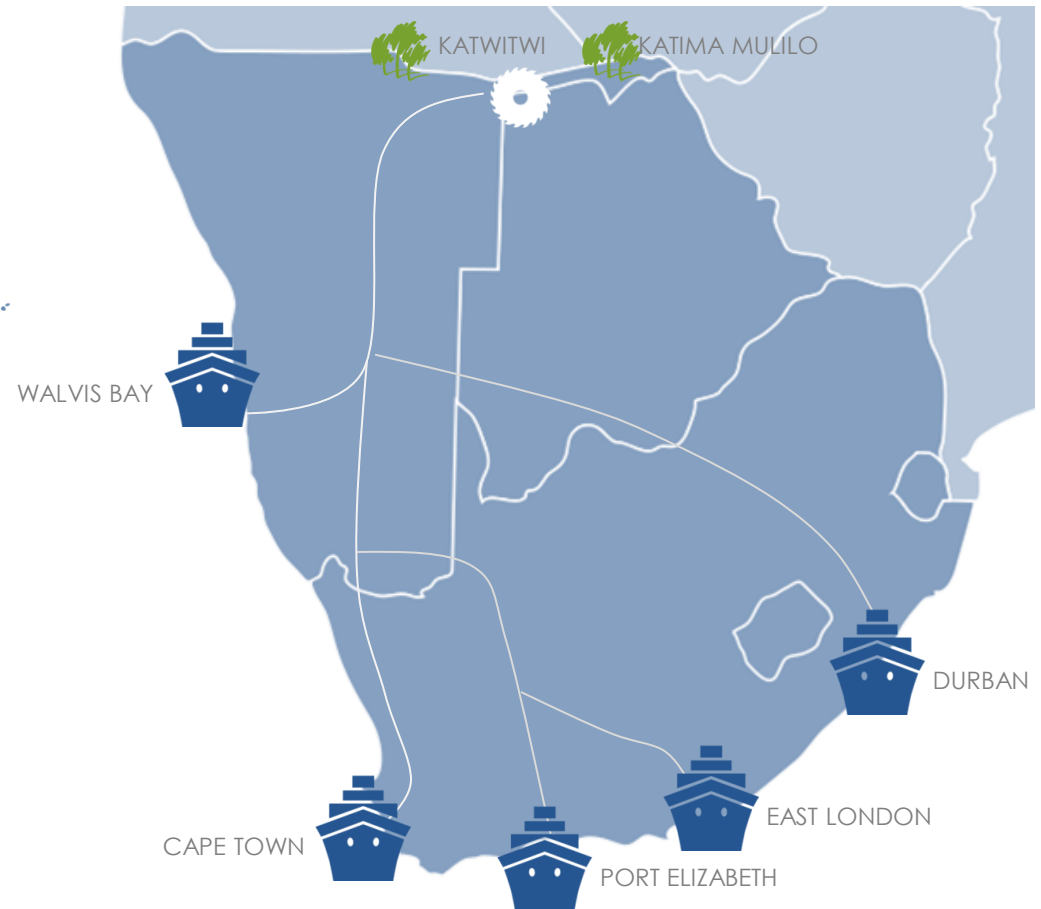
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