

QUALITY CONSISTENCY

THE SECRET TO NAVIGATOR'S UNIQUE PERFORMANCE LIES IN ALWAYS USING THE SAME RAW MATERIAL: *EUCALYPTUS GLOBULUS*.

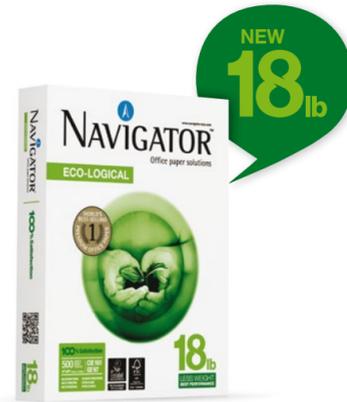
Many paper mills source fibers from different pulp suppliers around the world. Others may be fully integrated but choose to combine different species of fibers to make a single product. As a result, paper quality and consistency are compromised. Our paper mills are fully integrated and use only one type of fiber as their source: *Eucalyptus globulus* preserve optimum fiber characteristics and produce paper that is always great consistent.

The operating decision to always use the same raw material means Navigator can ensure the maximum level of quality and consistency of its paper, each and every time.

The highest quality assured
by *Eucalyptus globulus* consistency.



NAVIGATOR
ECO-LOGICAL
Office paper solutions



LESS WEIGHT
BEST PERFORMANCE

NAVIGATOR
PREMIUM MULTIPURPOSE
Office paper solutions



NAVIGATOR
PLATINUM DIGITAL
Office paper solutions



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EUCALYPTUS GLOBULUS

The sustainable foundation of Navigator

GREEN EFFICIENCY THROUGH THE BEST RAW MATERIAL

THE HIGH QUALITY OF NAVIGATOR PAPER IS A RESULT OF THE EXCEPTIONAL CHARACTERISTICS OF THE PORTUGUESE *EUCALYPTUS GLOBULUS* FIBER.

IMPROVEMENT PROGRAM

Our *Eucalyptus globulus* Improvement Program seeks to select the best trees concerning wood productivity and fiber quality, diseases and pest resistance, soil/weather adaptability and to develop new silviculture techniques. As a result, our nursery is supplied with carefully selected trees that increase the productivity of our forests as well pulp and paper production.

EUCALYPTUS GLOBULUS SILVICULTURE

The rotation age is 12 years, but after harvesting the tree is kept alive and reshoots from the stump. Two to three harvests are done using the reshoooting ability of the species. Subsequent to the 3rd fell the land is replanted. During its growth the tree will naturally loose the lower branches, enriching organic soil matter.

Our forest nurseries
produce over
12 million plants
every year.

NAVIGATOR
Office paper solutions



THE COMPETITIVE ADVANTAGE: FROM FOREST TO PAPER

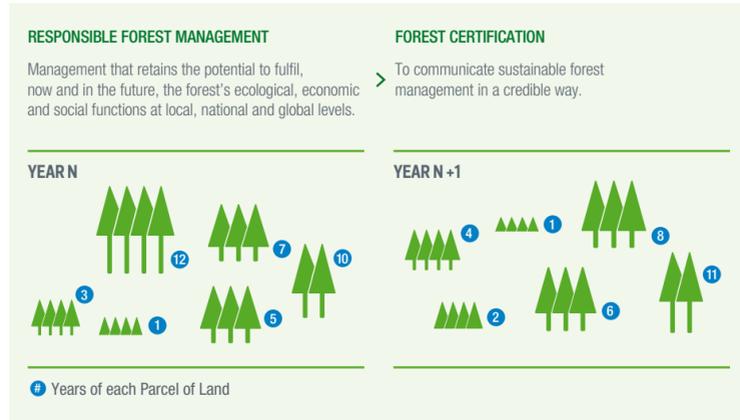
INTEGRATED PROGRAM

Navigator is produced by an integrated mill from forest paper. The best raw materials, state-of-art technology and know-how are fundamental to the competitive advantages that benefit Navigator papers. The complete production process is aimed at creating value for the office user.



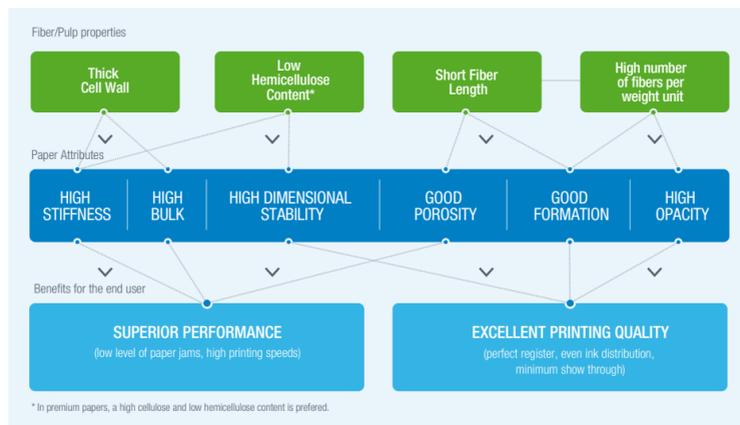
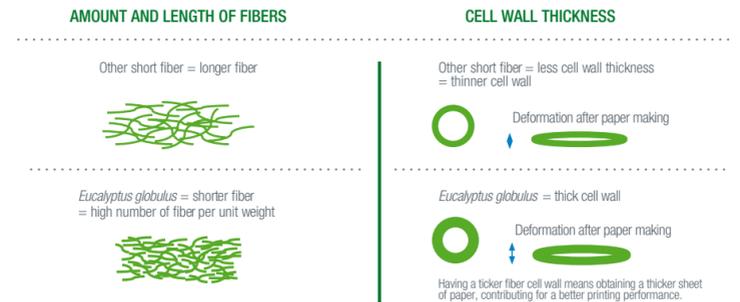
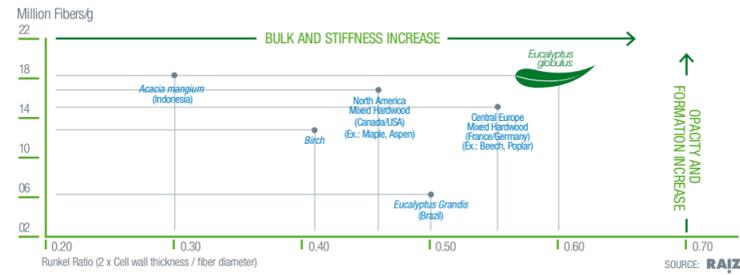
RESPONSIBLE FOREST MANAGEMENT

Typically, *Eucalyptus globulus* trees are cut after 12 years. Maintaining a responsible forest management model means that the net amount of wood is kept every year. In fact, that quantity increases, since more trees are planted than those used for pulpmaking. Oaks, stone pine, other forest species, olive and ornamental plants can also be found in our forest nursery.



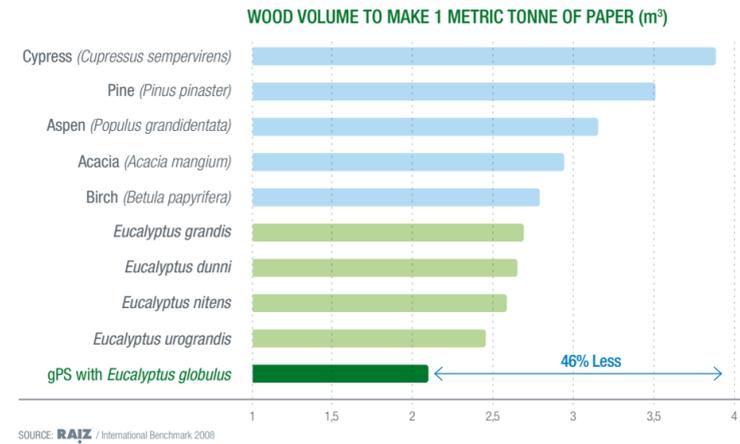
THE COMPETITIVE ADVANTAGE

Eucalyptus globulus has a **higher number of fibers per weight unit** giving better porosity, opacity and formation of the paper. It enables superior paper machine performance levels and enhanced printing quality.



PULP PRODUCTION

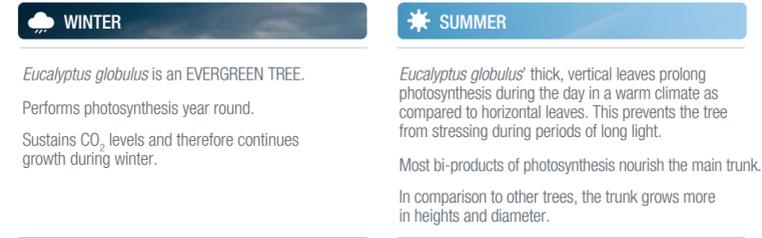
When compared with birch, pine or even other species of Eucalyptus, *globulus* specie provides more pulp and, therefore, more paper for the same amount of wood.



Much more sustainable and efficient than other trees

PHOTOSYNTHESIS

Regarding photosynthesis, and when compared with other trees, the *Eucalyptus globulus* is known as a "hard worker".



EUCALYPTUS GLOBULUS WATER AND CLIMATE

- The overall soil/water regime of Eucalyptus forests mirrors that of pine plantations.
- The microclimatic effects of *Eucalyptus globulus* plantations vs. treeless areas are higher humidity, reduced sunlight, lower average temperatures and a moderation of extreme temperature variations.
- The effects of large Eucalyptus plantings are likely to mimic plantations with vegetation of a similar structure and albedo. It is a likely advantage when replacing bare soil.
- As in any forest, the canopy intercepts rainfall and causes the greatest loss of water to the system (because most of it will evaporate without reaching the soil). Due to its vertical leaf orientation, Eucalyptus appears to intercept less water than pine.
- Along coast land areas with drifting mist, Eucalyptus serves to collect additional precipitation. Water is collected by foliage and then drips o the ground.
- Most Eucalyptus species moderate its loss of water vapor. This helps withstand stress duo to drought conditions occurring in their natural habitat.
- Comparative studies show that the overall soil/water regime of Eucalyptus forests duplicates that which is observed in pine plantations.

SOURCE: "The Ecological effects of Eucalyptus", FAO (Food and Agriculture Organization of the United Nations) 1985