

The importance of the development of



industry in Uruguay





Dirección General **Forestal**

Ing. Agr. Carlos Faroppa December 2023

Agenda:

- International context
- Bamboo in Uruguay
- Familiar farm production
- SENDA Bamboo



International context

- 1642 species of bamboo in more than 50 million hectares in the world.
- Most bamboo is **consumed locally** and is not connected to international markets.
- Global bamboo exports are estimated at \$3.6 billion, with Asia being the largest exporter, particularly China (71%).
- The EU, USA, Canada & Mexico are the largest importers.

Bamboo contributs to 7 of the 17 SDGs

Source: INBAR (2023), Trade Overview 2021: Bamboo and rattan commodities in the international market. INBAR: Beijing, China.

Why Bamboo?

Bamboo has one of the **highest growth rates** in the world: it fixes 3 soils, prevent erosion and increase infiltration of wto 4 times more carbon dioxide (CO2) from the atmosphere than other trees, with the ability to filter contaminated water, regenerate ater.

Bamboo is known as "vegetable steel" for its resistance to torsion and compression, unique among woods, great durability, high calorific value and high energy per unit of weight. That gives it endless uses.



Why Bamboo?

Sustainability Commitments: Our work to a Greener Future

•#2 in clean energy: 98% from renewable sources.

Sovereign sustainability linked bond – KPI1: GHG emissions, **KPI-2: native forest area**

Certification of sustainable management of native forest – EU new regulation (EUDR). Deforestation-free country.

Bioeconomy - new opportunities

Different institutions could be involve with bamboo.



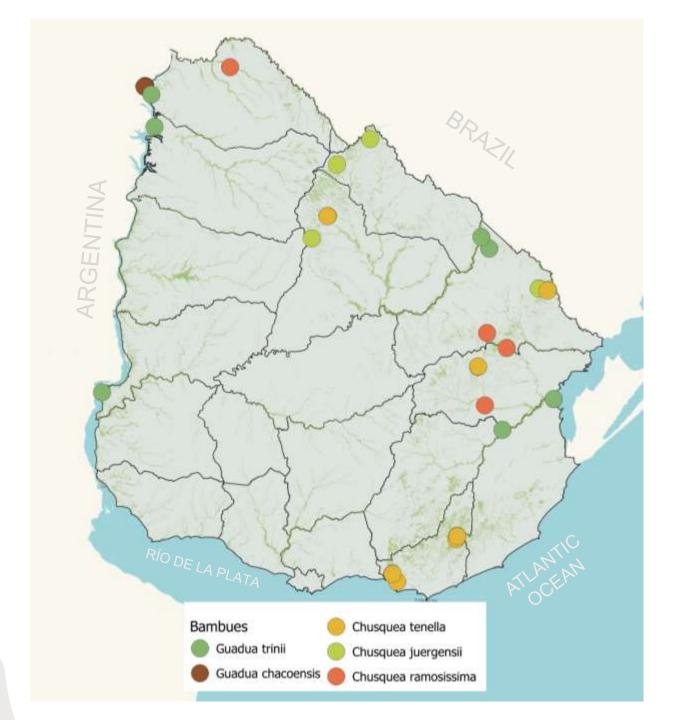


Native Bamboo in Uruguay

- 2 genera : Chusquea y Guadua.
- 5 species:

Chusquea ramosissima Chusquea tenella Chusquea juergensii Guadua chacoensis Guadua trinii

Where is native bamboo located in Uruguay?



Guadua chacoensis (Tacuaruzú)

- Native giant bamboo
- 12-15m in height
- 8-15cm in diameter
- Prefers sandy soils
- Potencial uses: construction, furtinure, floors, fences, Pulp, bioenergy.











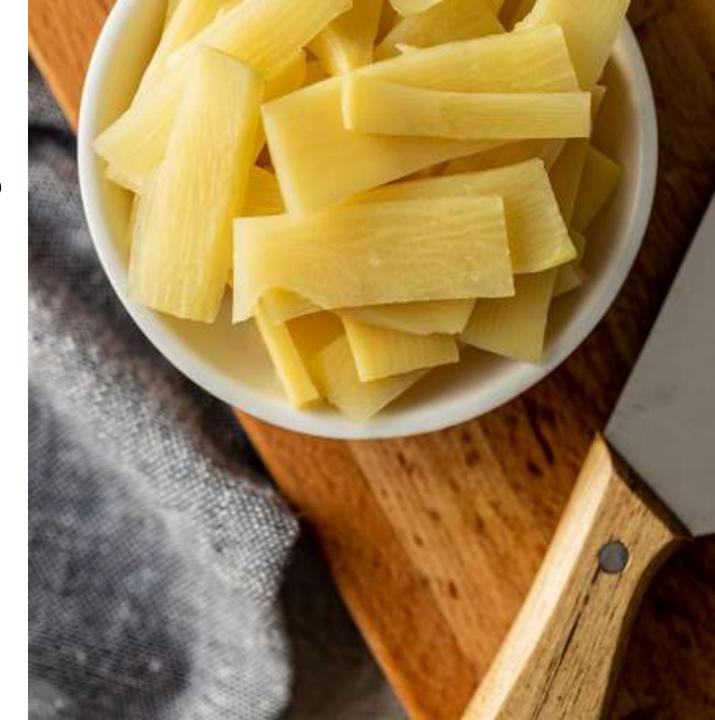


Bamboo entrepreneurs:

Bambú del Este, TrAmma Bambú, Planeta Bambú

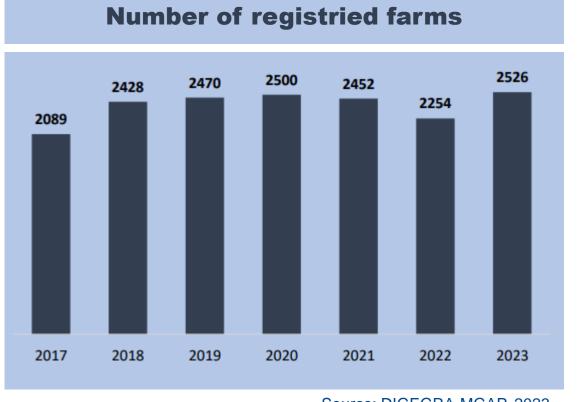
Potential production and market of bamboo

- 4.000 to 6.000 canes/year/ha
- Today in Uruguay, an unmanaged cane of 4 m and 5 cm in diameter, is worth in the market between US\$ 2 y US\$ 5.
- Bamboo shoots in the international market are worth between US\$5 and US\$7 per kilo in canned ready-to-eat form.



Familiar farm production

• 80% Horticultural production



Source: DIGEGRA-MGAP, 2023.

The beginning of bamboo journey in Uruguay

IUFRO Congress, Korea

Meeting with INBARLAC, Uruguay

June 2023

May, 2022

Sep. 2023

Meeting with INBAR, China







Senda BAMBOO



CREATION OF PUBLIC-PRIVATE EXECUTIVE ROUNDTABLES



PREPARE THE REGULATORY
FRAMEWORK FOR THE
DEVELOPMENT OF BAMBOO
PRODUCTION



PROMOTION OF
ASSOCIATIVE PROJECTS IN
THE NORTH OF THE
COUNTRY AS A SOURCE OF
SUSTAINABLE EMPLOYMENT



INCENTIVES FOR BAMBOO
INCORPORATION IN FAMILY
PRODUCTION



RAISING AWARENESS OF THE BENEFITS OF BAMBOO CULTIVATION



INTEGRATION OF RURAL WOMEN IN THE BAMBOO VALUE CHAIN



PROMOTION OF GOOD FARMING PRACTICES WHILE RESPECTING THE ENVIRONMENT



PROMOTION OF MARKET EXPANSION AND LOCAL CONSUMPTION



PROMOTE TECHNOLOGICAL INNOVATION, ENCOURAGE R&D AND CONSTRUCTION



REACH SUSTAINABLE AND CERTIFIED BAMBOO PRODUCTION

01 PRODUCTIVE AND SOCIAL DEVELOPMENT

Promote family bamboo production.

03 INTERNATIONAL INSERTION

Access to main bamboo consumer markets.

05 INSTITUTIONAL CAPACITY

Interinstitutional articulation to develope R&D



02 INFRASTRUCTURE & LOGISTICS

Encourage investment in bamboo industries.

4 SUSTAINABILITY

Regulations and initiatives that promote the care of natural resources and the environment.

O6 CHALLENGES AND OPPORTUNITIES

There are new challenges and opportunities to continue growing.





Thank you!

GUB.UY/MGAP cfaroppa@mgap.gub.uy