



A European bamboo industry

not only for construction

Dr Hans Friederich FRGS

Bamboologic



Construction with Bamboo

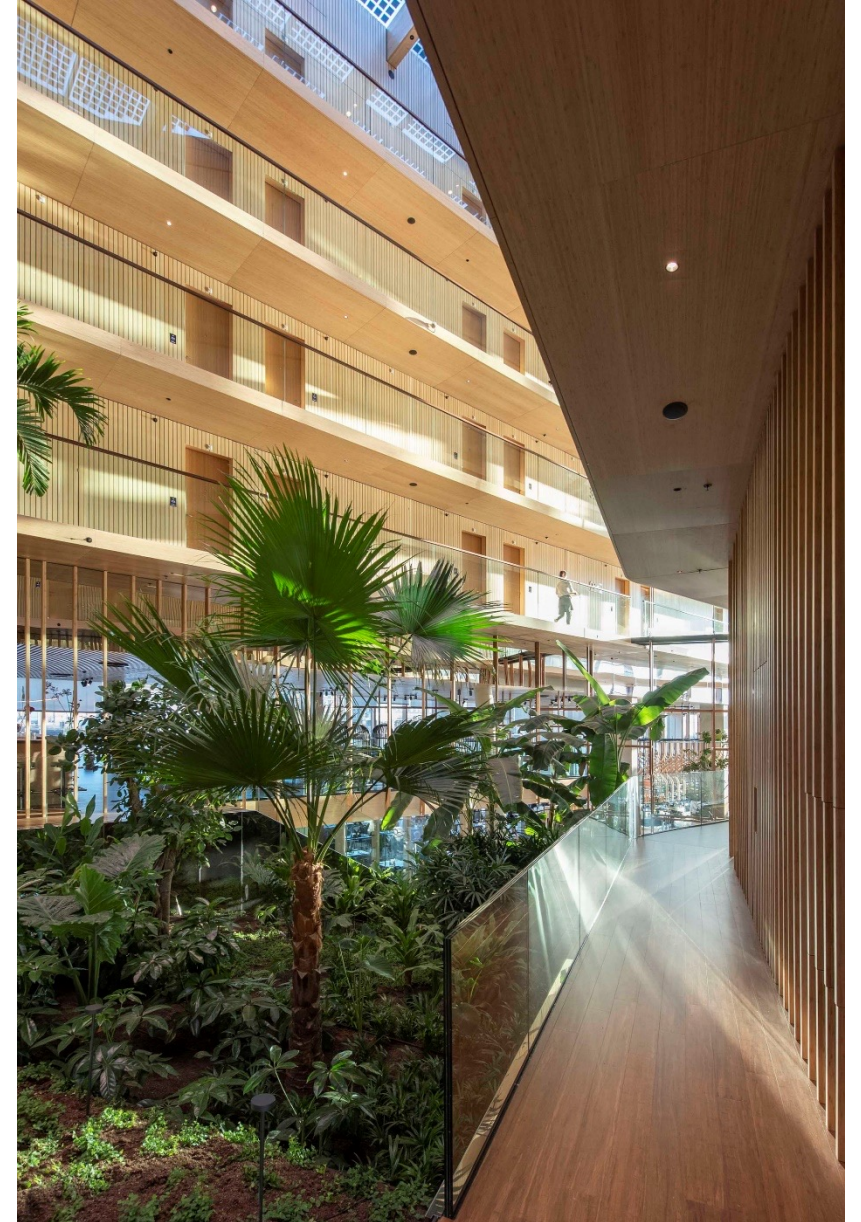


Vo Trong Nghia – Vietnam /Hoang-le-photography

Round pole?

Or

Engineered
bamboo?



Hotel Jakarta – Amsterdam (photo from Arch Daily)

You need a reliable source of bamboo

Whichever way you build, you will need the raw material, and bamboo does not naturally grow in Europe





China has more than 6 million hectares of bamboo, and half of that was planted for production; The key species is so called Moso bamboo (*Phyllostachys*) and this is excellent for engineered bamboo.

Southeast Asia has
giant clumping
bamboo
(Dendrocalamus)

This is great
material for round
pole construction
of buildings like the
ones shown by
Marcus Roselieb





In South America,
there is also
Dendrocalamus,
but we also find
Guadua bamboo
– excellent for the
round pole
construction of
(large) buildings



Africa has a lot of bamboo, but it is not really used;

It is the nearest source of bamboo for Europe



Labirinto della Masone

But bamboo is already found in Europe, like here in Italy. Bamboologic is planning to plant much more

Bamboologic farm Vidigueira, South-Portugal

12 ha bamboo forest project



Bamboologic farm Alcoutim, South-Portugal

110 ha bamboo forest project





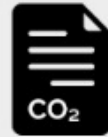
Partnerships for volume & impact



Our offer to European bamboo farmers



Quality plants



Carbon removal certificates



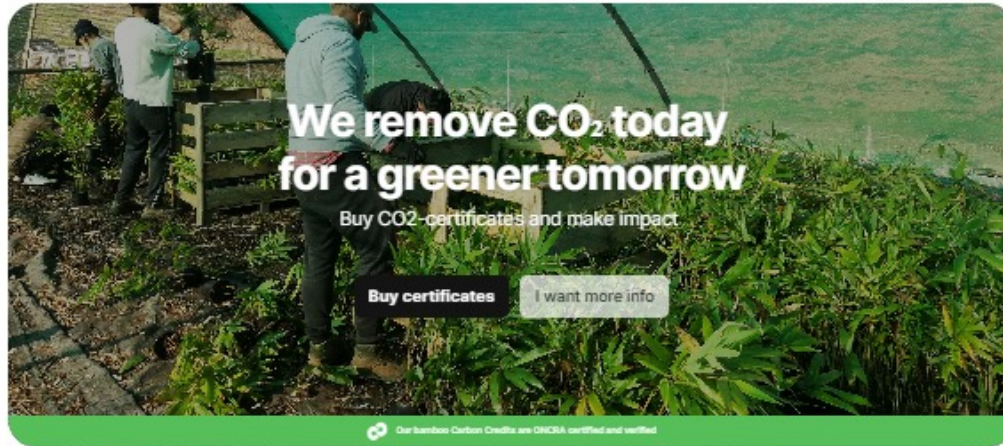
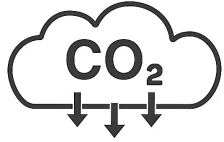
Offtake agreement



A to Z advice + guidance



BambooLogic



We remove CO₂ today for a greener tomorrow

Buy CO₂-certificates and make impact

[Buy certificates](#) [I want more info](#)

Our bamboo Carbon Credits are ONCSA certified and verified



Our bamboo farmers are superheroes...

... because our farmers have chosen to do things different. Cooperated through Bamboologic they grow bamboo, a fast renewable nature based material. 2 goals: supplying the E.U. bio-based industry and making a huge positive impact on climate, nature & agriculture.

By buying their carbon removal certificates you enable bamboo farmers to make more positive impact. Together we are supercharging sustainability!

Support the farmers

- Become a bamboo farmer
- Read our FAQ








Impact in numbers

-  **70.715**
tons of CO₂
removal potential
-  **169**
hectares
nature-inclusive agriculture
-  **3.380**
tonnes per year
"green" material
for the bio-based industry

Bamboo carbon removal projects

Independently certified certificates for the removal of CO₂ through bamboo forests. Make a positive impact on climate, biodiversity & agriculture in Europe.

→ Questions? Read our FAQ

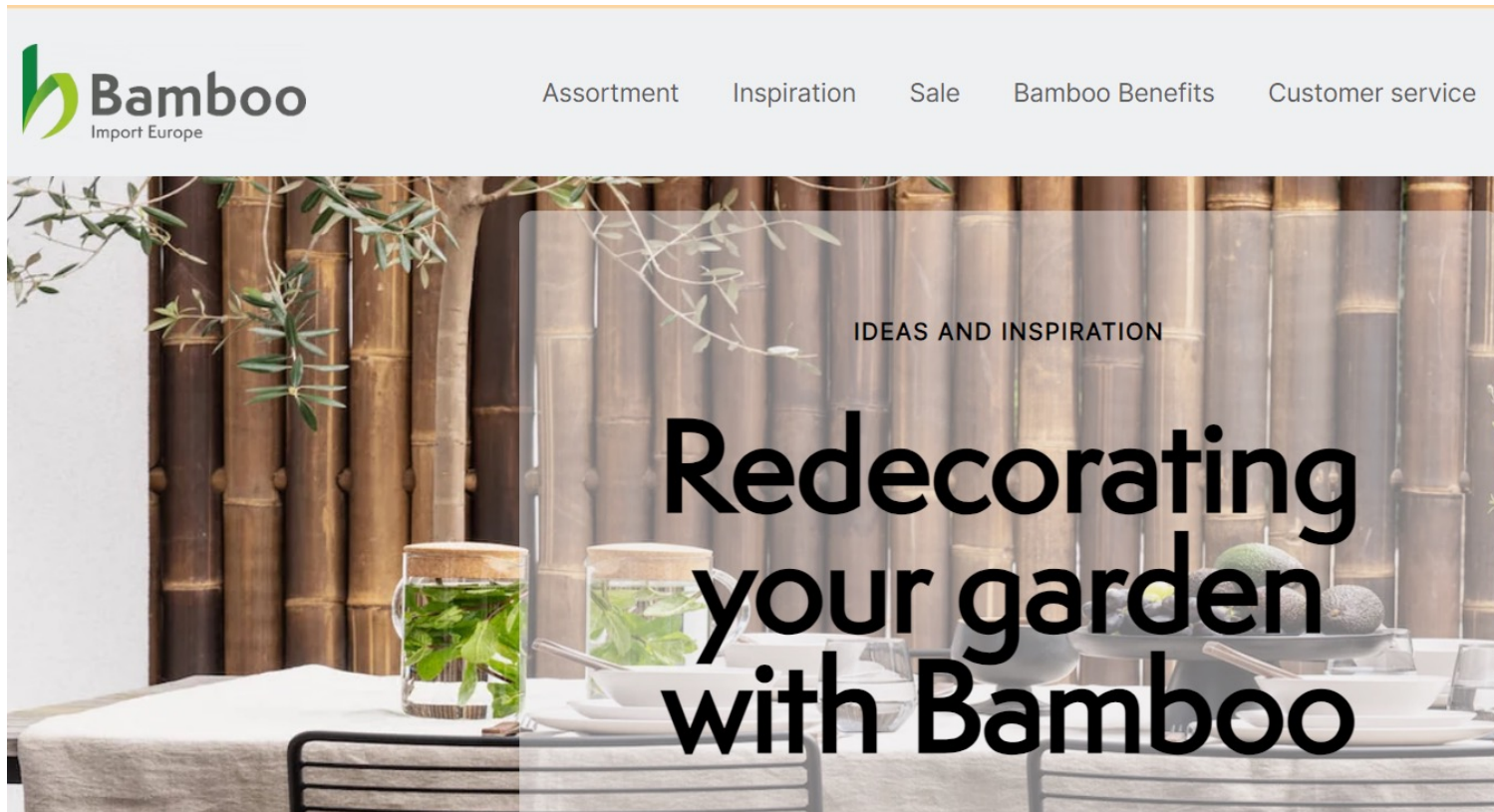
 <p>Alcoutim Bamboo farm 2 Alcoutim, Portugal</p> <p>96% sold 85,000 certificates available</p> View project	 <p>Alcoutim Bamboo farm 1 Alcoutim, Portugal</p> <p>1% sold 60,000 certificates available</p> View project	 <p>Bamboo farm van den Borne Roulet, Netherlands</p> <p>100% sold 0 certificates available</p> View project
 <p>Philippe Campos Toulouse, France</p> <p>20% sold 140 certificates available</p> View project	 <p>Christophe Rouanet Blain, France</p> <p>7% sold 940 certificates available</p> View project	 <p>Carl Blommerschot Malle, België</p> <p>1% sold 204 certificates available</p> View project
 <p>Mark Oprins Merksplas, België</p> <p>0% sold 0 certificates available</p> View project		

www.bamboocarbonremoval.eu

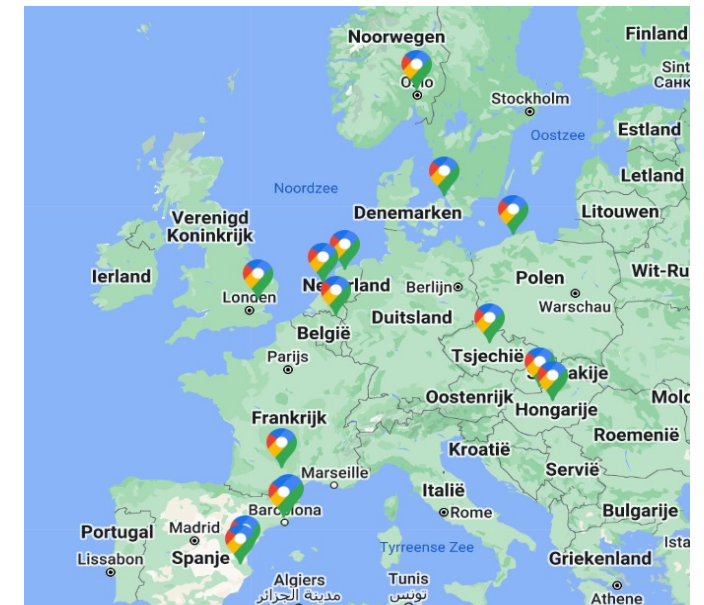
B-to-C



Largest importer/distributor of bamboo poles and products in Europe
14 sales points in 10 countries



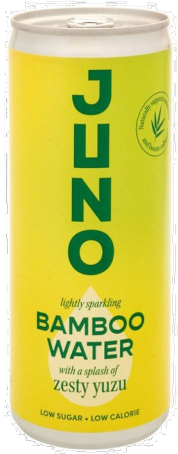
14 sales points



Processing



B-to-B



Market demand

- 🇧🇪 Wooden boards | Chips min. 90.000 mt / yr
- 🇧🇪 Vegetable processing | Shoots 50 - 100 mt / yr
- 🇷🇺 Composite materials | Slats 650 mt / yr
- 🇷🇺 Animal feed | Saw dust min. 1.000 mt / yr
- 🇩🇪 MDF / insulation | Chips min. 6.000 mt / yr
- 🇩🇪 Poles ski slopes | Culms 50.000 pcs. / yr
- 🇬🇧 Toilet paper | Biomass 30.000 mt / yr
- 🇧🇪 Shipping pallets | 3.000 mt / yr
- 🇷🇺 City rafts | Culms 1.200 pcs. / yr
- 🇷🇺 Train sleepers | Poles 50.000 mt / yr
- 🇫🇷 Beauty product | Leafs 10 mt / yr
- 🇫🇷 Tea producer | Leafs 1 mt / yr
- 🇩🇰 Bamboo flower pots | 10.000 / yr
- 🇪🇸 Amusement park | Poles 1.000

We need to plant more to satisfy demand



Joao Ludovico at Bamboologic nursery in Alcoutim

And there are environmental benefits

**How can we restore degraded land
in southern Europe?**





**How can we deal
with pollution of
agricultural land and
water ways?**

Farmers protest across Europe, press ministers to act

By Philip Blenkinsop, David Latona and Anna Wlodarczak-semczuk

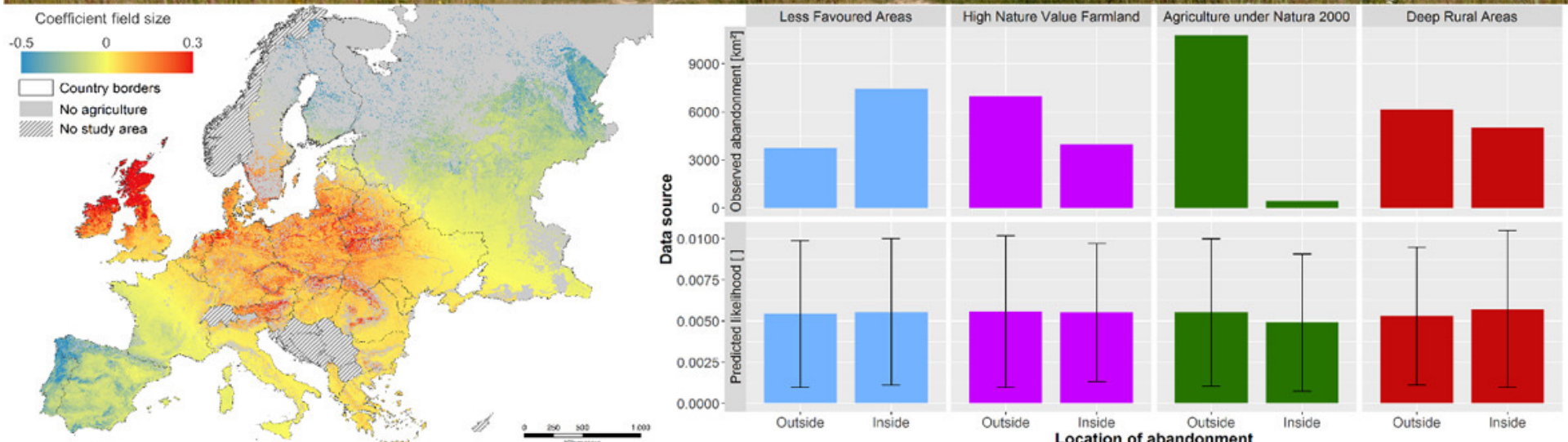
February 26, 2024 5:33 PM GMT+1 · Updated 3 months ago



"We produce the food and we don't make a living. Why is that? Because of free trade agreements. Because of deregulation. **Because the prices are below the cost of production.** So we demand the EU to move on this."



And how to address the fact that farmers abandon their land?



A group of about ten people, including men and women of various ages, are standing in a bamboo forest. They are all looking upwards, some with expressions of interest or awe. The bamboo stalks are tall and thin, with some showing a reddish-brown hue. The leaves are green and dense. The overall atmosphere is one of a guided tour or a field study.

**Bamboo can help
to solve some of these problems**

....

But there are challenges

CHINA BAMBOO INDUSTRY PLANS AT NATIONAL AND PROVINCIAL LEVELS

*Translated by the International Bamboo
and Rattan Organisation*



- **China has a National Bamboo Plan 2011-2020**
- Government-supported and market-driven
- Government will help to accelerate industry clusters and upgrade product quality to increase its market competitiveness to ensure a healthy development.



Bamboo grown by neighbour causes £100k of damage as it spread under property

FEBRUARY 1, 2022 | MARC DA SILVA

Like 990

Homeowners have long been warned that bamboo can be more damaging to a property if left unchecked, and one family discovered how damaging it could be when shoots started bursting from the ground in the garden of their house.

The plant, which had been growing in a neighbour's garden, had been growing underground and came up from under the concrete floor of the bedroom house in Hampshire.

The bamboo invaded the ground beneath the home to emerge in the garden.

Neighbors' legal battle over backyard bamboo goes to Supreme Court

TACEY BARCHENGER | NorthJersey.com

Bamboo Battle: B.C. man wins \$2,000 from neighbour who planted bamboo that spread under lawn

Charles Parker of Saanich installed a barrier to prevent spread of the bamboo from the neighbours' yard

Susan Lazaruk

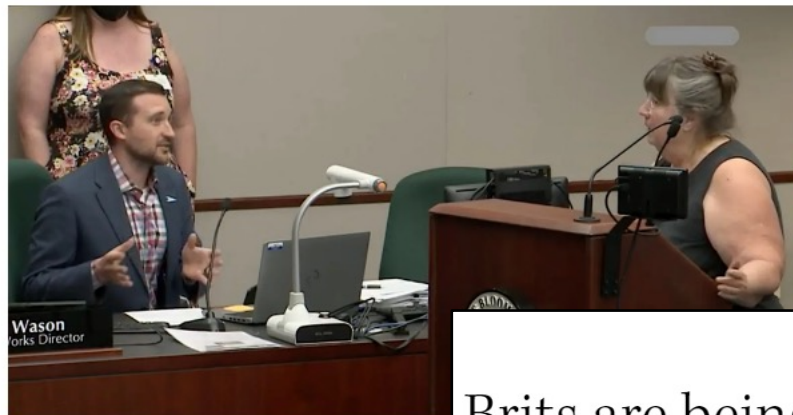


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Bloomington says bamboo ban means longtime resident must purge invasive species from yard

Dave Askins | Bloomington, Local Government | July 6, 2022 | 3 Minutes



"Because bamboo is nasty, and you can't see it until it's under your feet."



Bamboo is the new Japanese knotweed: £3,000 bill after he had to find invasive role of his home and neighbour's oven'

Contact: Dan.Grennan@MailOnline.co.uk

UPDATED: 15:34 BST, 20 December 2023



77 shares

947 View comments

Legal battle against 'out of control' bamboo which cost £6,000 to remove.

HOME & INTERIORS > GARDENS

Brits are being urged to stop planting bamboo in their gardens

The vigorous, fast-growing plant can cause a lot of damage

BY LISA JOYNER | PUBLISHED: 21 DECEMBER 2019

s bamboo drought-tolerant choose the best types to suit conditions

The drought tolerance of bamboo can take several years to get itself fully established

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D+C

POVERTY REDUCTION GENDER

Water

Bamboo means water

Indonesia is the sixth largest bamboo producer in the world. It is well known that bamboo, a kind of grass, is used in many traditional handicraft industries. Its ecological value of conserving water resources is less well known. Villages that take care of bamboo forests enjoy abundant and clean water.

Residents Urged To Embrace Bamboo Trees To Cushion Against Climate Change



KNA2 May 14, 2023 Counties, Environment, Nyamira 0

Nyamira residents have been urged to embrace planting bamboo trees to save drying-up water catchment areas, causing a Climate Change crisis due to prolonged drought

Mr. Benjamin Mutinda, an officer at Kenya Forestry Research Institute (KEFRI), while training farmers at Ekerenyo, said that that the Bamboo trees need to be grown by all farmers and serious timber entrepreneurs, because they conserve the environment, since these trees need very little water to grow to maturity because they are hollow inside.



as been promoting bamboo cultivation for water conservation

yana, a farmer from Sullia, has been promoting bamboo cultivation for water conservation, especially when the water crisis in the region is getting worse with every passing year.

tion of bamboo in 2019. He said that with area farmers, he has been promoting bamboo cultivation for water conservation, especially when the water crisis in the region is getting worse with every passing year.

NEWS

Pulitzer Prize-winning, nonpartisan reporting on the biggest crisis on the planet.

The Radical Case for Growing Huge Swaths of Bamboo in North America

The grass has a bad rap in the U.S. as an invasive nuisance, but the plant can quickly sequester at least double—and maybe even six

Challenges that can be overcome

- **Lack of Political** support;
- **Limited awareness** of benefits of bamboo;
- **Objections** from nature conservation organizations;
- **Need** for more research and studies;
- **Little experience of growing** bamboo under European conditions;
- **Unknown costs** of cultivation, harvesting and production;
- **Unsuitable regulations**, norms & standards.

And amazing opportunities

- **Part of the EU Green Deal;**
- **Land restoration and erosion control;**
- **Greening degraded landscapes;**
- **Restoring the water balance;**
- **Creating jobs;**
- **Providing a new cash-crop that can be part of integrated landscape planning;**
- **Developing an innovative European industry;**
- **Avoiding international trading complications.**



Let's plant (more)bamboo in Europe!

Bamboo in Belgium