

El Sector Forestal, Bioeconomía y Desarrollo Rural

Wood products, bioeconomy and rural development

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Challenge the ordinary



I FORO DE BIOECONOMÍA
DE CASTILLA Y LEÓN

27 y 28 de octubre de 2021. Soria



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competitividad
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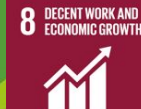



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SUSTAINABLE
DEVELOPMENT
GOALS

2030
TARGETS





***We challenge the ordinary
by exploring innovative,
superior plywood products
and by working with
sustainable, renewable
wood sources.***

2021

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DISCLAIMER

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A benchmark in the plywood industry

Our goal is to surprise our clients, wherever they are in the world, with an outstanding product using a production model based on sustainability and innovation.



**7 factories +
headquarters**

*New factory in 2022



**More than
1,100
employees**



**Estimated
turnover of €255
million in 2021**



**93% of
production
exported**



**Established
in more than
50 countries**



**600
global
clients**

Social and economic impact in rural areas

Poplar plantations and their value chain guarantee high quality stable jobs in rural areas

SUSTAINABLE
DEVELOPMENT
GOALS

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156



96



181

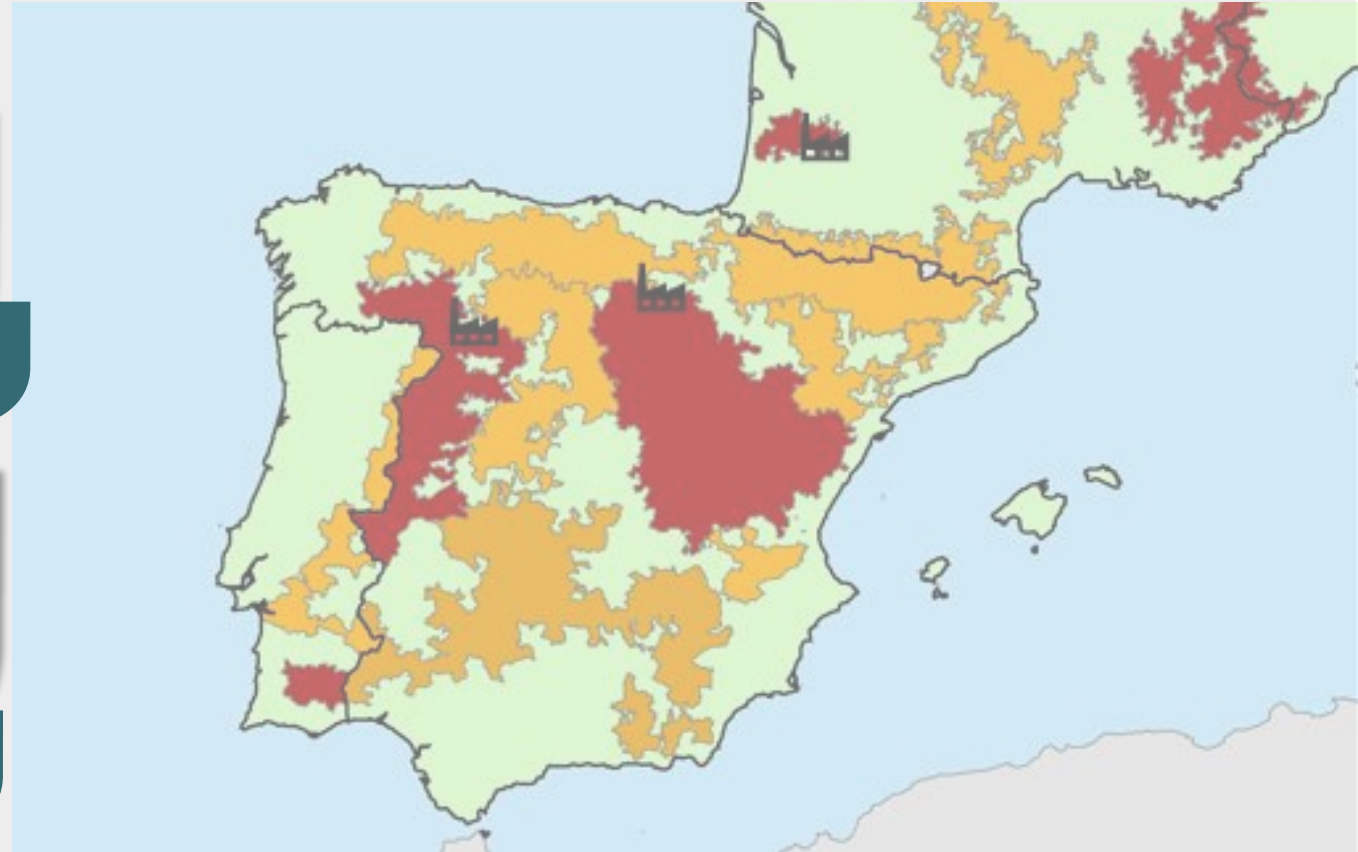


320

**5 factories in
villages of
1.600-5.000
inhabitants
>900 direct jobs**



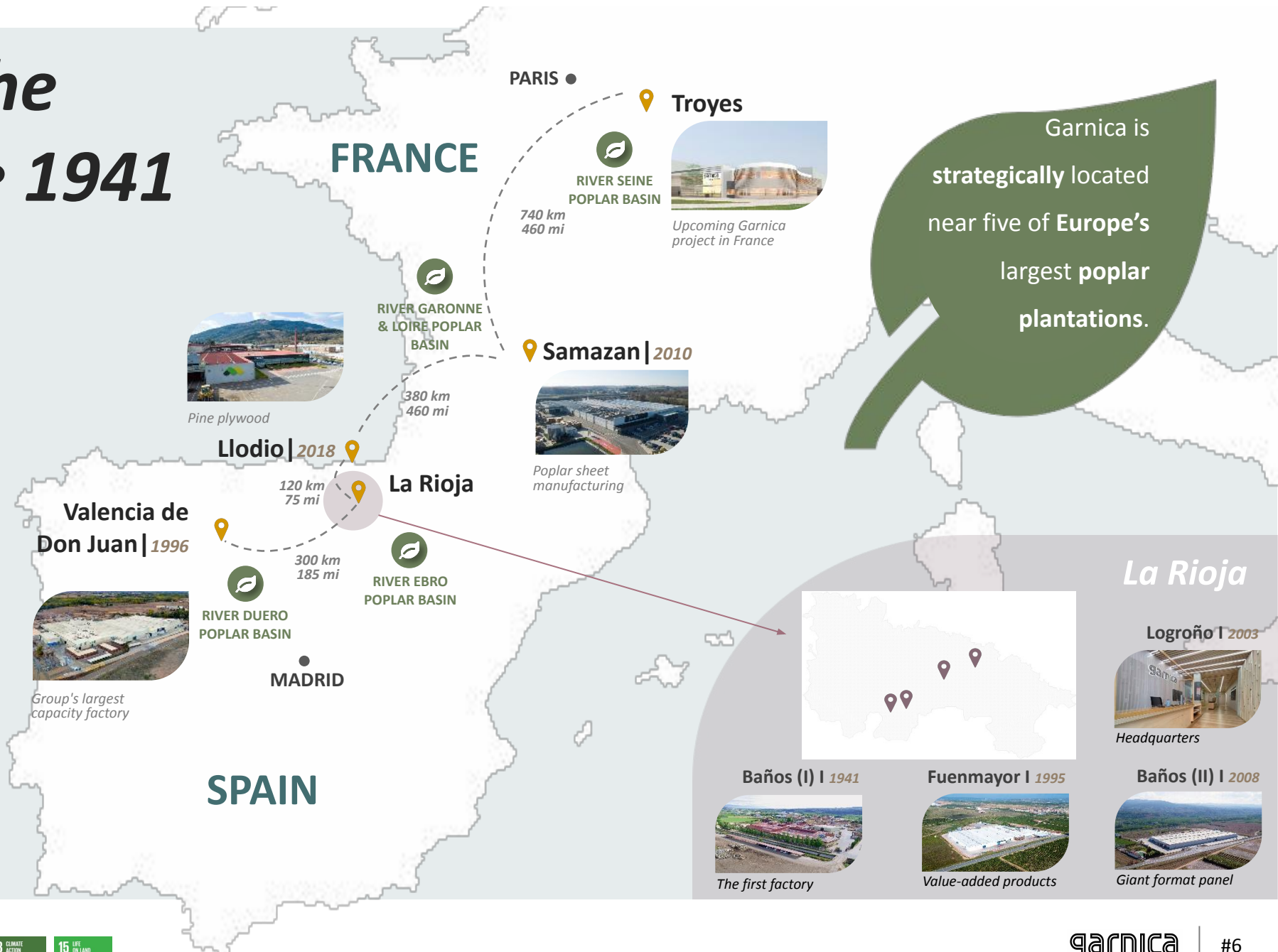
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Source: Burillo-Cuadrado, Serranía Celtibérica

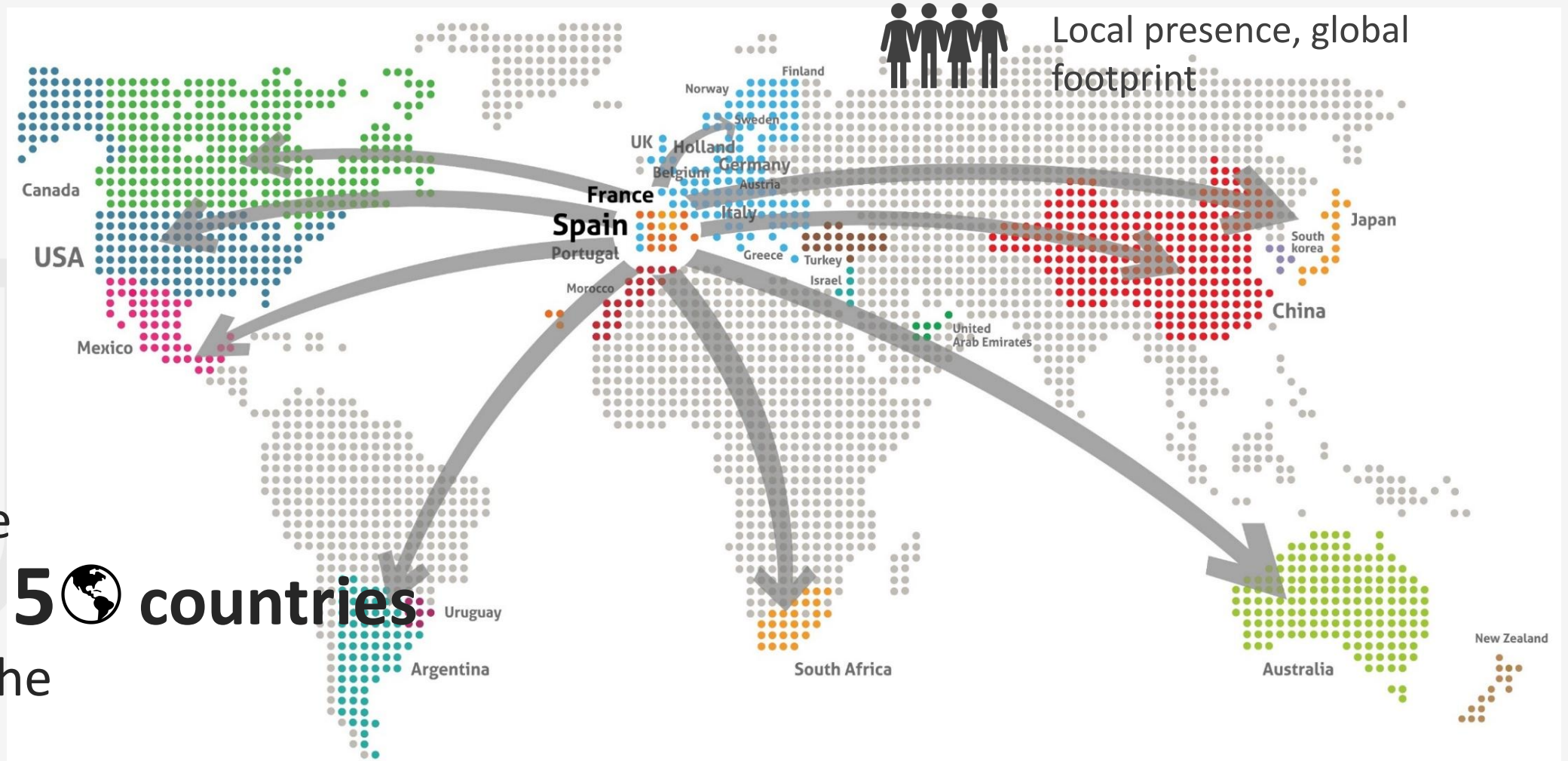
Challenging the ordinary since 1941

- 1941**
Started out in La Rioja (Spain) as a family-owned sawmill
- 1973**
“Maderas Garnica”, plywood boxes factory
- 1985**
Garnica starts manufacturing industrial plywood



Global Solutions Provider

Presence
In over 50 countries
around the
World



Growing a sustainable future

Our pillars of respect for the environment

1

Wood from sustainable local plantations

2

Poplar, an ally in the fight against climate change

3

Culture of circular economy and zero waste

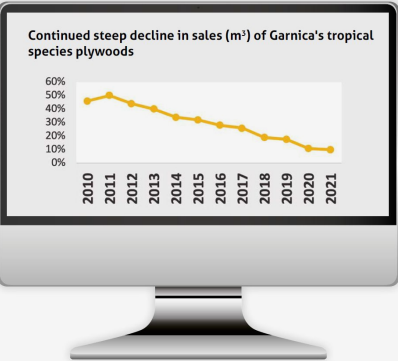
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Promoting the rural environment

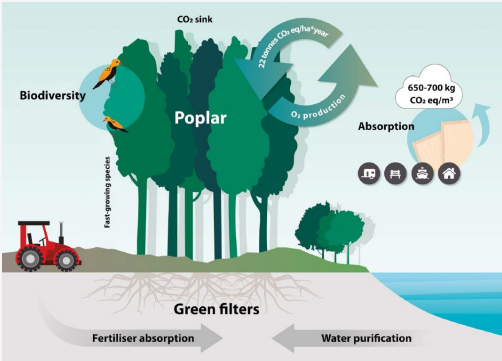
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Responsibility towards society

Garnica is a leader and a driving force for change in the transition from importing tropical wood to using sustainable, local raw materials.



Given its rapid growth, poplar is one of the species with the highest CO₂ absorption capacity on the planet - with an average of 22 tonnes per hectare per year.



We are committed to a “lean” production model based on sustainability and continuous improvement, taking advantage of all the resources in our processes and other industries.



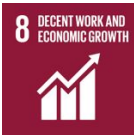
By using local wood, we have a positive impact on rural areas and thereby help to improve the quality of the lives of the people who live there.



Garnica is involved in several initiatives that promote quality training and improve health, well-being, diversity and equality inside and outside the organisation.



2030
TARGETS



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#8

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Circular Production Model



Harvesting



Logs of up to 14 cm are sold to sawmills
Smaller logs are sold to MDF or pulp mills
All the materials can also be chipped on-site and used as renewable energy (biomass)



Logs larger than 22/25 cm are destined to plywood production

Factory



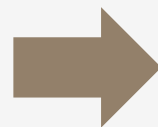
Log
(>22 cm)



Peeling



By-products

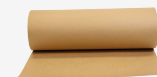


Used internally in
Garnica as fuel for
biomass boilers
(>90% RE)

or

Sold to
other
industries

Particleboard / Biomass / Pulp



Dry veneer



Plywood panels



Compression + sawdust and trims

Garnica's panels have a long-lived
cycle and can be recycled at the end

Environmental and Social Benefits of Poplar Plantations

- ✓ Mitigation – poplar captures **11 to 41 t CO₂/Ha/year**
- ✓ Positive **Carbon Footprint** and use in **long-lived products**
- ✓ **CC Adaptation** - adapted to flooding
- ✓ **Ecotones** between rivers, riparian areas and farmland.
- ✓ **Riparian buffers and green filters**, protecting water courses from eutrophication from nearby crops
- ✓ **Wealth distribution** - owned by small forest owners
- ✓ **Rural employment** – 2 Ha – 1 job
- ✓ **Recreational value**

[...]



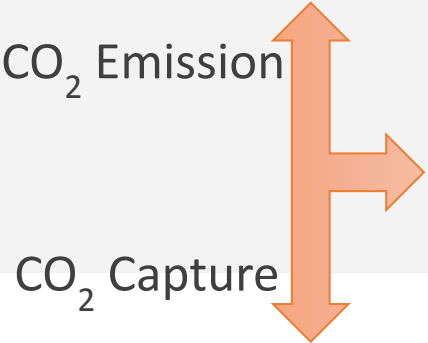
 **SUSTAINABLE
DEVELOPMENT** **GOALS**

Environmental Product Declaration

Life-cycle environmental impact of products: A1+A2+A3

efficiency

	Impact category (m³)	Reference unit	Efficiency Plywood
→	Ecotoxicity water	kg 1,4-DB eq	73.5
→	Acidification Potential	kg SO ₂ eq	1.17
→	Ecological Footprint	m² y	510
→	Global Warming Potential	kg CO ₂ eq.	214

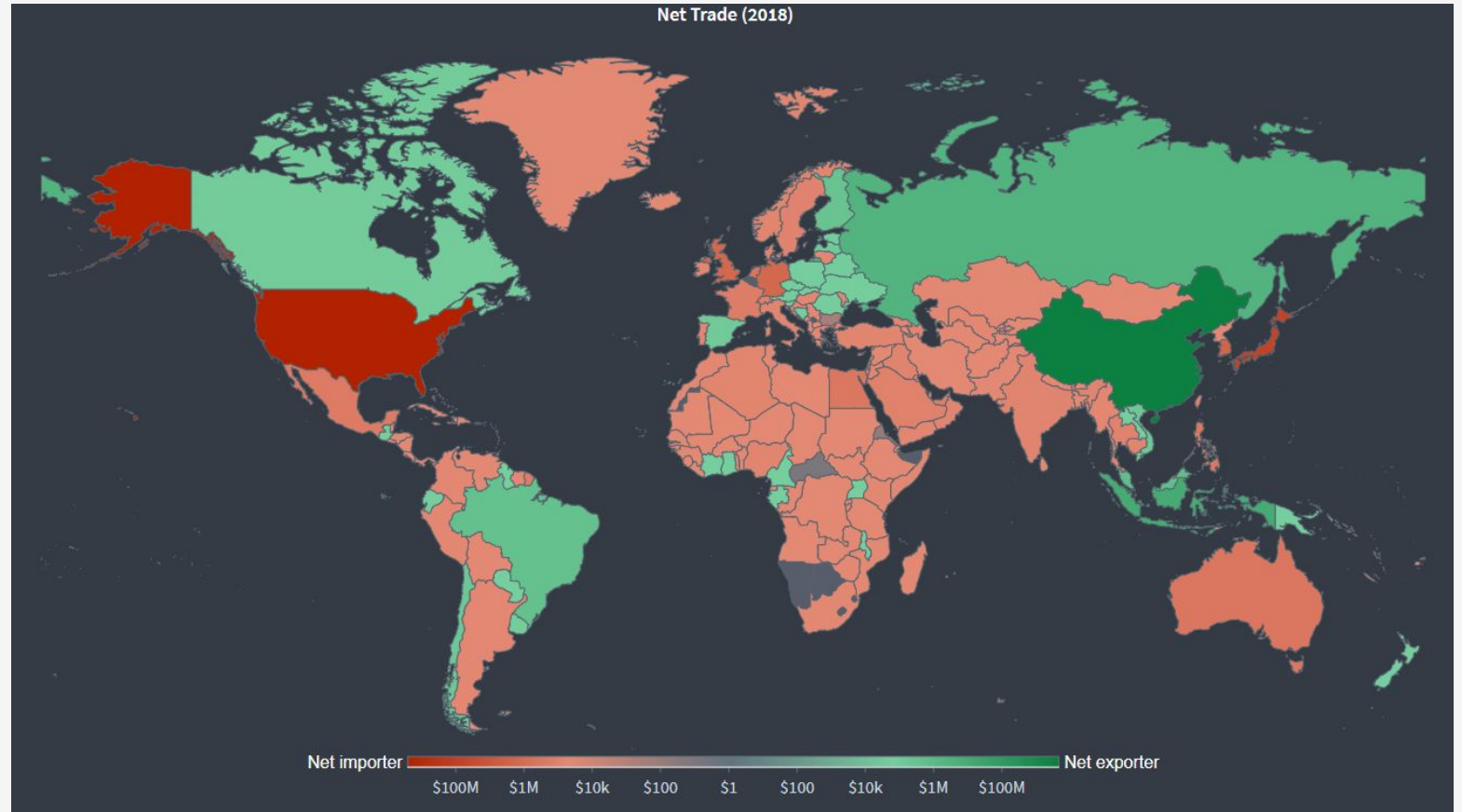


BALANCE: 221 - 668 = - 447 kg. CO₂ eq / m³

Approximate mass of CO₂ sequestered = 668 kg eq. CO₂ / m³
(average plywood density: 450 kg/m³)

Innovation as key differentiating factor

Garnica competes in a
global market
Innovation is key for a
European player to
remain competitive in
global markets



Soure: Atlasmedia

Leaders in innovation

We work **closely** with our **clients** to develop **innovative, unique** and **customised** products.

Products

Technology

Processes

Ongoing
improvement

garnica
Challenge the ordinary



fireshield®

Innovation that
challenges flames

durable

Resistance that
challenges nature

ultralight

Lightness that challenges
the impossible

laudio
form plus

Eucalyptus-reinforced
pine plywood

**NATUR
BIND**

Formaldehyde-free
bonding technology



impressed®

Digital printing
technology



Modified plywood with 100%
fireproof treatment

Innovation that challenges flames

- Plywood modified by an innovative treatment that makes 100% of the panel **exceptionally fire-resistant** - certified by the most demanding tests - even after sanding or machining.





durable



Exceptional durability
guaranteed for outdoor use
Resistance that challenges nature

- Plywood modified by an innovative treatment that makes 100% of the panel **exceptionally durable**. Immune to fungal and insect attacks, including when used outdoors or in the most demanding climatic conditions.



15 YEAR WARRANTY

15 year guarantee against
delamination and fungal and
xylophague insect attack
+ Info www.durably.one





INATUR BIND™

**No-added
formaldehyde
adhesive technology**

Naturbond™ by Garnica is our unique adhesive technology,
engineered using an exclusive no-added formaldehyde formula

www.garnica.one

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¡Gracias!



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