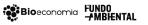


RN21 – Innovation in the Natural Resin Sector to Strengthen National Bioeconomy

Marta Martins*, Joana Vieira, Carlos Fonseca & Rogério Rodrigues





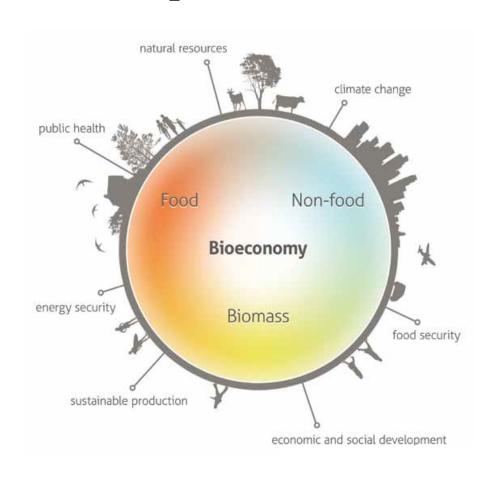








The European Bioeconomy in 2030



- 1. Sustainable management of natural resources;
- 2. Sustainable production;
- 3. Improving public health;
- 4. Climate change mitigation;
- 5. Integrating and balancing social developments;
- 6. Global sustainable development;

2023





Challenge 1 & 2

Sustainable Management of Natural Resources & Sustainable Production



- 1. Managing natural resources sustainably is a crucial starting point;
- 2. Minimize unnecessary waste and efficiently recycle unavoidable waste;
- 3. The forestry sector holds significant potential for the cascading use of renewable raw materials to create a variety of innovative value-added products.





Recovery and Resilience Program

Component 12 - Sustainable Bioeconomy

Textile and Apparel sector







Natural Resin sector



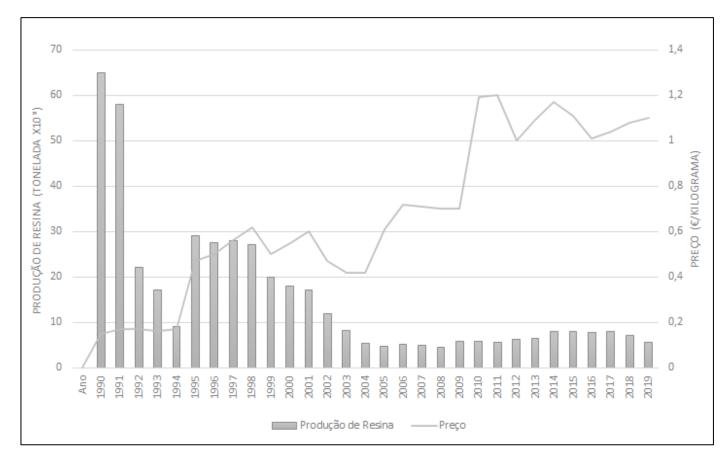








Integrated Project RN21



Evolution of resin production and prices (Source: Adapted from INE Portal)



1 NO POVERTY

















Guiding principles



Enclose the entire value chain of NR, from the forest to the end user



Addresse the key needs
and specific opportunities
identified by NR
stakeholders;



Contribute to the goals of the PRR, specifically within Component C12 -Sustainable Bioeconomy.



















































































Os pilares não estão por ordem!

Pillar



Strengthening the sustainability of the transformation industry





Promoting the production of portuguese Natural Resin





Positive differentiation of Natural Resin and its derivatives

- Industrial investment and value chain support;
- Development of new products and applications for gum rosin derivatives;
- Industrial Simbioses.

- Reinforcing the productive capacity of the pine forests;
- Increase resin extraction productivity;
- Training program for resin tapping;
- Make resin extraction more attractive to the forest owners.

- New brand to differentiate products containing Natural Resin;
- Technical journal;
- Marketing campaign.







Integrated Project Pillar I

R&D activities;

Genetic improvement;

Forest management;

Forest engineering;

Training











Integrated Project Pillar II

New formulations and new processes for the transformation of natural resin;

Optimization of industrial processes through digitization, better resource utilization, and efficiency gains.

Use of derivatives from Natural Resin instead of those from fossil origin.

Replace fossil origin materials by bio-based materials

















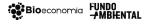


Integrated Project RN21 Pillar III

Promote the valorization of Natural Resin

Create a brand for Natural Resin derived products

















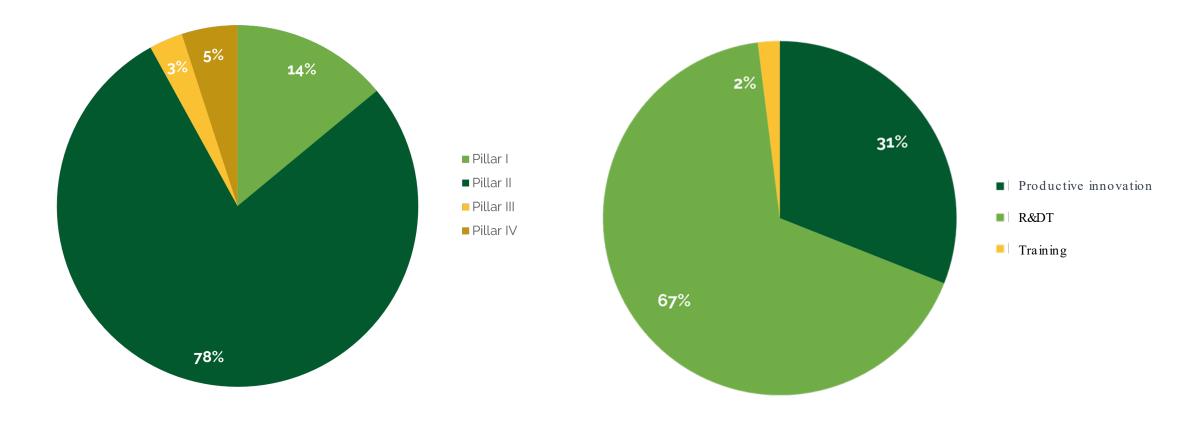
RN21 in numbers







RN21 in numbers















Expected Impact RN21

Contribute to territorial cohesion;

Promote Natural Resin as a 'bio' and sustainable product;

Environmental, economic, and social gains for the entire country;

Expanded range of market applications;

Natural Resin as a viable alternative to hydrocarbon-derived resins;







Thank you









