LIGNICOAT

Sustainable coatings based on lignin resins and bio-additives with improved fire, corrosion and biological resistance

Focus REACH, Green Deal, diisocianati. Prodotti bio: realtà e nuovi sviluppi

Claudio Pagella – IRIS Coatings

This project has received funding from the Bio-based Industries Joint Undertaking (JU) under the European Union's Horizon 2020 research and innovation programme under grant agreement No 101023342. The JU receives support from the European Union's Horizon 2020 research and innovation programme and the Bio-based Industries Consortium.

Date

Introduction

LIGNICOAT aims to demonstrate the technical and economic feasibility of the use of **lignin as raw material** to produce **3 bio-resins** for wood, metal, furniture, automotive, flooring, machinery and paints industry.

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The Coating Industry Challenge

The environmental impact of **fossil-based coatings** and volatile organic compounds (**VOCs**) emissions has raised concerns, and regulations were implemented to diminish their use in coatings.

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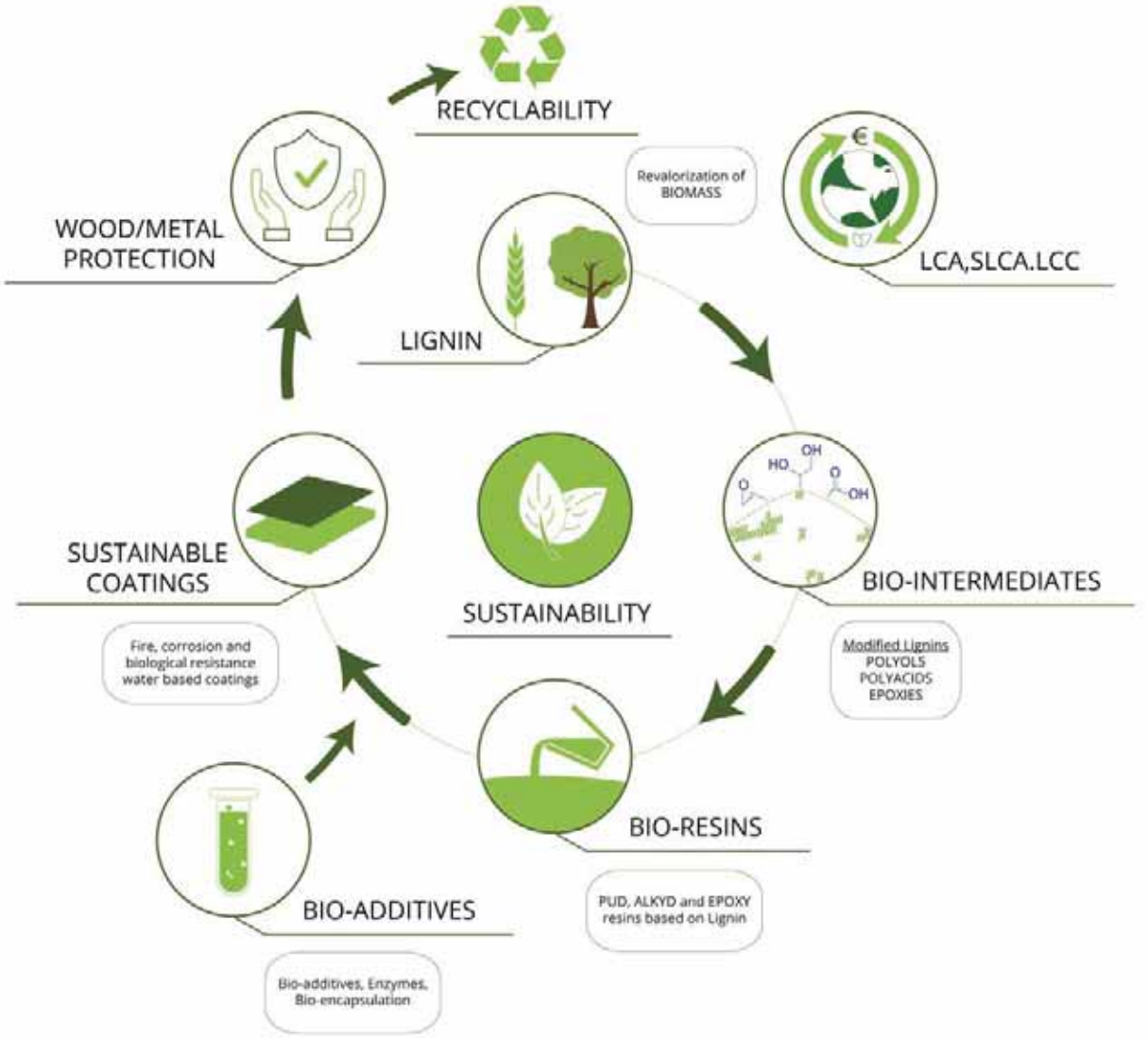
LIGNICOAT's Sustainable Solution

LIGNICOAT's solutions involve the use of **lignin**.

Lignin provides a **sustainable alternative** compared to traditional fossil-based raw materials, as it is obtained from agricultural, forestry, pulp, and paper **industry wastes**.



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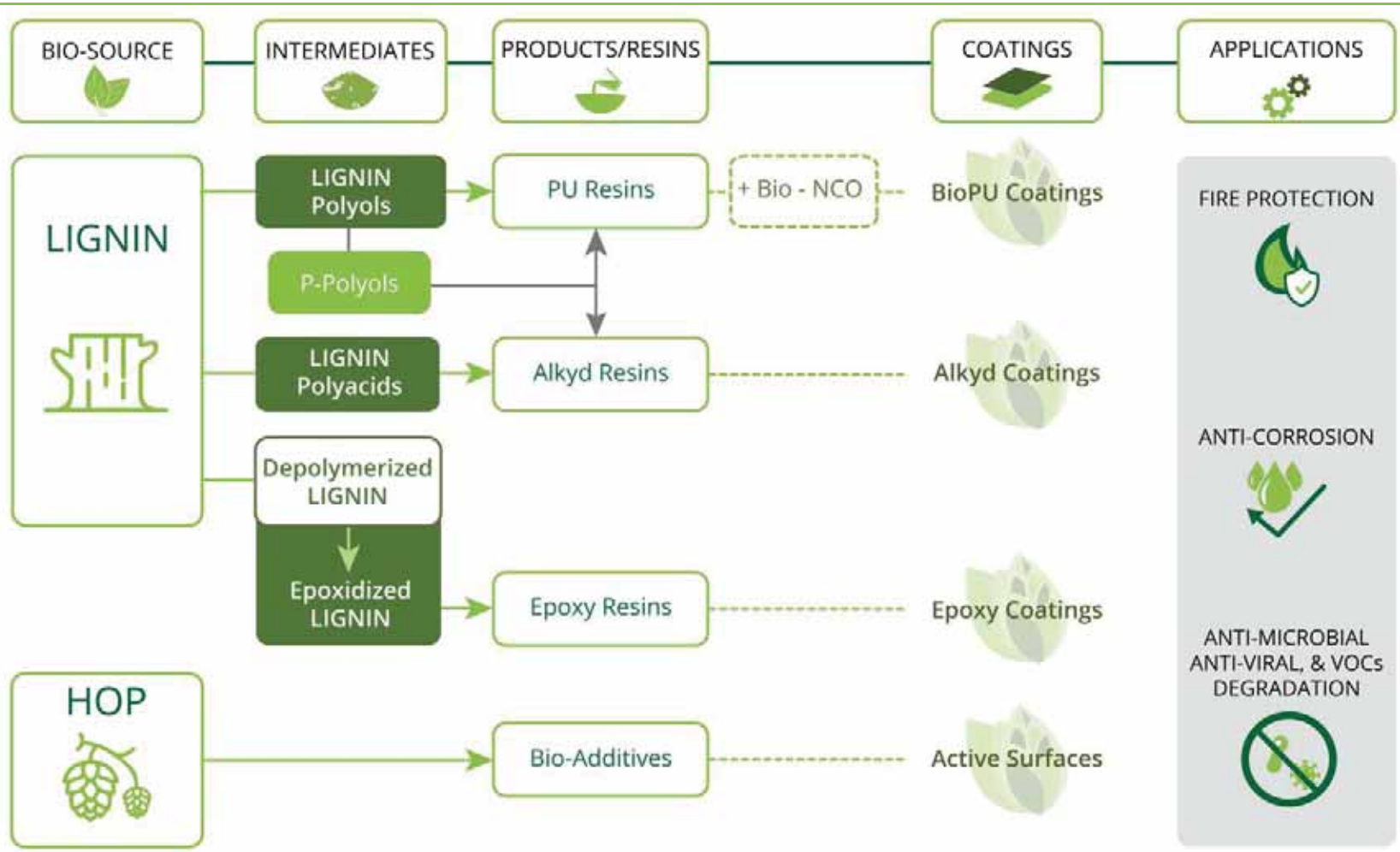
What Sets LIGNICOAT Apart

Given the possibility of obtaining polymers and many products from lignin, it can be used as a building block for producing bio-resins for coatings.



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Anticipated Benefits

Polyurethane coating on wood based on lignin polyols

Epoxy on metal based on glycidylated lignin

Alkyd resins on metal based on lignin polyacids

LIGNICOAT solution is poised to reduce carbon emissions by X%.

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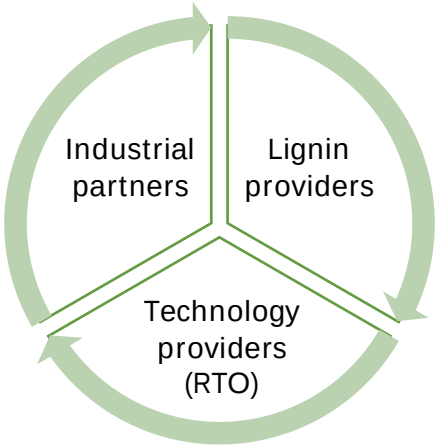
Impact Beyond the Coating Industry



A new cross-sector interconnection

1 new bio-based value chain

New bio-based chemicals (lignin polyols, epoxies, and polyacids) and resins (PUD, alkyd, epoxy).

Coating formulations >25% bio-based

New job opportunities

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Meet our Team

8 Countries

14 Partners

This project has received f
research and innovation p
Horizon 2020 research an

Learn more about LIGNICOAT

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@LIGNICOAT BBI Project

@LIGNICOATH2020Project

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Thank you

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