



# Interregional workshop on innovative bio-based resin derivatives

Online event

13 - 14 April 2021



Co-organised by:

European Forest Institute

Fundación Cesefor

Grupo RB

Alex Cunningham Ltda

iNet

Interregional Workshop

Coordinator



Partners



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SardagnaForeste



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## Interregional workshop on innovative bio-based resin derivatives

### Current trends and promising research opportunities for bio-based colophony, turpentine, CTO and CST derivatives

☞ “Bio-based derivatives” expression in this document is used to refer to **colophony** (rosin) and **turpentine** derivatives produced from **pine oleoresin** (crude gum) as well as from **crude tall oil (CTO)** and **crude sulphate turpentine (CST)**.

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#### CONCEPT NOTE

**Bio-based resin derivatives** are green solutions, which can support the replacement of fossil raw materials in industrial chemical production, for products such as plastics, adhesives, coatings, or fragrances. The harvesting and the production of pine resins has been a relevant economic resource in the coniferous forests from all Mediterranean Europe and all over the world, for centuries. In the past decades, the sector has been declining gradually due to substitutive oil-based products.

Nowadays, the industrial demand for resinous products in Europe is estimated at 300,000 tons per year. **The market potential of bio-based colophony, turpentine, CTO and CST derivatives is high, and can potentially contribute to a greener economy, improved rural livelihoods and creating industrial jobs.** There still are, however, relevant challenges related to competitiveness, as well as marketing, certification and traceability strategies which need to be developed to strengthen even further the position of the bio-based resin derivatives sector as the sustainable alternative to fossil-based ones.

#### Objective:

The objective of this final INCREDIBLE Interregional workshop is to discuss current trends and promising business opportunities for bio-based colophony, turpentine, CTO and CST derivatives. The two-day workshop will serve as a forum with key industry representatives to identify enabling factors and critical barriers for bio-based resins as a sustainable alternative to fossil-based derivatives.

The Workshop will:

- Detect major demands and trends in innovation and development of bio-based derivatives, fostering collaboration between industry and academic research.
- Identify new business opportunities for bio-based Mediterranean derivatives, including marketing and traceability issues.
- Kick-start discussions on how to enable bio-based derivatives to be sustainable alternative to fossil-based ones, and identify necessary sectorial policies, marketing, certification and traceability strategies.
- Create a virtual space for resins industries and research centres to interact and share experiences.

**Addressed to:** The target audience of the workshop includes primary and secondary processing industries, chemical equipment manufacturers, Colophony and turpentine derivatives consumers, certification and traceability entities, sectoral associations, government bodies and research organizations.

**Dates:** 13 - 14 April 2021, with 4 sessions

**Venue:** To be held online (in Zoom)

**Language:** English

**Registration:** <https://network.bioregions.efi.int/event/innovative-bio-based-resin-derivatives-2021-04-13-2021-04-14-11/register> (until 11 April)

### Contact

Eduard Mauri (European Forest Institute)

[eduard.mauri@efi.int](mailto:eduard.mauri@efi.int)

0034 672 388 253

In collaboration with:



**Alex  
Cunningham  
Ltda**



**PROGRAMME**

☞ Access to videoconference opens 5 minutes before each session.

**DAY 1: 13 April 2021**

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| <p><b>12:00-13:30</b><br/><b>(CEST)</b></p> | <p><b>Session 1: Setting the scene - Innovative bio-based resin derivatives</b></p> <p>Welcome address from INCREDIBLE project, state-of-the art presentations on pine oleoresins and CTO/CST derivatives.</p> |
|   | <p><b>Welcome and introduction to the workshop and to the thematic network INCREDIBLE</b><br/>Inazio Martinez de Arano (EFI)<br/>Steven Libbrecht (ESSET)</p>  |
|   | <p><b>The roadmap of the innovation network on resin</b><br/>Aída Rodríguez (CESEFOR) (<a href="#">PRESENTATION</a>)</p>   |
|   | <p><b>Keynote presentation: state of the art on pine oleoresins derivatives</b><br/>Alejandro Cunningham (Alex Cunningham Ltda) (<a href="#">PRESENTATION</a>)</p>   |
|   | <p><b>Keynote presentation: state of the art on CTO &amp; CST derivatives</b><br/>Michel Baumassy (Forchem Oyj) (<a href="#">PRESENTATION</a>)</p>   |
|   | <p><b>Open debate and conclusions of Session 1</b></p>   |

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| <p><b>14:30-16:30</b><br/><b>(CEST)</b></p> | <p><b>Session 2: R&amp;D and innovation on bio-based derivatives</b></p> <p>A series of short, high paced presentations showcasing major demands and trends in innovation and in development of bio-based derivatives from both research and industry representatives.</p>   |
|   | <p><b>Introductory keynote presentation: setting the scene on R&amp;D&amp;I</b><br/>Geoffrey Robert Mitchell (Polytechnic Institute of Leiria)</p>   |
|   | <p><b>Short presentations</b></p> <ol style="list-style-type: none"> <li>1. Harrison de la Rosa (Polytechnic University of Valencia, Spain)</li> <li>2. Cristina Pavón (Polytechnic University of Valencia, Spain)</li> <li>3. Bertrand Charrier (University of Pau and Pays de l'Adour, France) (<a href="#">PRESENTATION</a>)</li> <li>4. João Moura Bordado (IST and WoodChem, Portugal)</li> </ol> <p><i>A 5<sup>th</sup> speaker is expected.</i></p> |

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|  | <p><b>Open debate and conclusions of Session 2</b></p> <p>Which are the most promising derivatives from oleoresin, CTO and CST? Which are the most promising technologies or processes for industries processing bio-based derivatives?</p> |
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**DAY 2: 14 April 2021**

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| <p><b>14:00-16:15</b><br/><b>(CEST)</b></p> | <p><b>Session 3: Enabling the bio-based resin sector</b></p> <p>Virtual round table on certification and regulatory barriers/enabling factors for bio-based derivatives, as to kick-start discussions on how to enable bio-based derivatives to be sustainable alternative to fossil-based ones, and identify necessary regulatory, marketing, certification and traceability policies and strategies.</p> |
|   | <p><b>Introductory keynote presentation: international resin market and recent evolutions</b></p> <p>Armand Clopeau (European Institute of the Cultivated Forest) (<a href="#">PRESENTATION</a>)</p>   |
|   | <p><b>Round table: sustainability standards and certification</b></p> <ol style="list-style-type: none"> <li>1. Jacopo Giacomoni (ETIFOR)</li> <li>2. Ana Belén Noriega Bravo (PEFC)</li> <li>3. Asta Partanen (nova-Institute)</li> <li>4. Alvaro Picardo (Junta de Castilla y León)</li> </ol>   |
|   | <p><b>Round table: regulatory strategies</b></p> <ol style="list-style-type: none"> <li>1. Mike Penman (Penman Consulting)</li> <li>2. Leela Landress (OleochemAnalytics)</li> <li>3. Asta Partanen (nova-Institute)</li> </ol>  |
|   | <p><b>Open debate and conclusions of Session 3</b></p> <p>Certification and regulatory issues for bio-based derivatives.</p>   |

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| <p><b>16:30-18:00</b><br/><b>(CEST)</b></p> | <p><b>Session 4: The future is green</b></p> <p>Keynote presentations providing an overview of policy framework for bio-based derivatives, green chemistry advances and the upcoming EU research agenda.</p> |
|   | <p><b>Outputs of the INCREDIBLE Policy forum: an overview for the bio-resin sector</b></p> <p>Alvaro Picardo (Junta de Castilla y Leon) (<a href="#">PRESENTATION</a>)</p>                                   |
|   | <p><b>Keynote presentation</b></p> <p>Johan Elvnert (Forest Technology Platform) (<a href="#">PRESENTATION</a>)</p>  |

**Keynote presentation**

Marisa Silva (Portuguese Ministry of Environment and Climate Action) ([PRESENTATION](#))

**Open debate and conclusions of Session 4**

How can bio-based derivatives contribute to the transition towards a green chemistry?