



BioTHOP



NEWSLETTER N° 5

December 2021

BioTHOP LIFE18 ENV/SI/000056

**BIOTWINE HOP
WASTE
TRANSFORMATION
INTO NOVEL
PRODUCT
ASSORTMENTS FOR
PACKAGING AND
HORTICULTURE
SECTOR**

Dear subscriber of BioTHOP LIFE project newsletter!

**The fifth newsletter is already in front of you,
designed to provide project information and ideas you might need.**

The LIFE BioTHOP project has been running for 30 months (starting in July 2019, ending in June 2022) in the demo hop-growing region Lower Savinja Valley as an example of good practice and has been testing also in many other hop-growing regions of the world. In the last half-year, besides focusing on technical work we tested biodegradable bottle trays based on transported hop waste produced by TRIDAS and biodegradable planting pots prepared by TECOS. Together with Pulp and Paper Institute Ljubljana we tasted that hop fibres can be used to make paper.

You are invited to watch the video guidelines for hop biomass composting, presentations of the project on national TV, find more about organised stakeholders meetings, a business visit to Žatec and TRIDAS partner (CZ), a visit of representatives of the partner company Lankhorst Yarns to leading partner in Slovenia and project presentations at fairs, meetings, symposia, conferences in Slovenia and abroad (BG, IT). All with the aim to approach the requirements of the circular economy. Hop biomass after harvest together with biodegradable (PLA) twine became good material for on-site composting or to be used for fibre extracting and in such form as an ingredient for new bioplastic products for various sectors (bio-composites, planting pots, packaging trays). With the use of BioTHOP twine, the agro-waste will be drastically reduced and the economy will be increased. A project already has a positive socio-economic impact on the local economy and local communities (the extra benefits are improved environment and alternative economic opportunities).

Let the old year-end with our thanks to
all our partners, hop-growers, co-financiers, policymakers, stakeholders
who enable us to realize the planned activities.

**WE WISH YOU A MERRY CHRISTMAS AND
WE HOPE THAT THE NEW YEAR 2022
BRINGS US EVERYTHING WE HOPE AND DREAM OF!**

For further information, visit our **WEB PAGE**.

Thank you for subscribing to our newsletter!
Life BioTHOP partnership



PROJECT NEWS

Paper made of hop fibres

The Pulp and Paper Institute Ljubljana carried out research and expertise on whether hop fibres (biomass residue after hop harvesting) extracted by Zelfo Technology from Germany can be used to make paper. After technological processing of fibres (delignification – cooking, grinding), sheets with a weight of 80 g/m² and 230 g/m² were produced at the paper sheeter. The results are already excellent in the appearance of the paper itself, as it did not look much different from the usual.

As part of the replicability, we also made other products, namely playing bricks, cosmetic pots, campers trays, harvester machine fingers, buttons, shoe horns, phone holders.



ZT and TRIDAS were announced as innovators at the EU level



We are happy to inform you that the BioTHOP idea "Hop waste fibre sheets reused for wine bottle packaging" developed in the project has been recognised by the European Commission's Innovation Radar as one of the Market Creating Innovation in the EU Framework Programme. Innovation Radar also identified two project partners – companies as a 'Key Innovator' in the development of this innovation:
– TRIDAS SRO (CZ)
– ZELFO TECHNOLOGY GmbH (DE)

18th Symposium on waste management (IT)

LIFE BioTHOP project participated in Sardinia 2021, 18th Symposium on waste management and sustainable landfilling. The programme included more than 270 presentations from different fields. We presented "On-site composting of hop biomass with biobased polymeric twine" (Slovenian Institute of Hop Research and Brewing) and "Cascading utilization of hop waste biomass for new products in the horticultural sector" (TECOS Razvojni center orodjarstva Slovenije). IHPS presented the BioTHOP project also at the conference "Agriculture and Food", Burgas (BG).



Business visit to Žatec (CZ)

LIFE BioTHOP team with partners and co-financiers visited Žatec (CZ). We went to Hop Research Institute, collaborate on IHPS, one of our replicative regions, where biodegradable PLA twine is being tested on 1 ha of their hop fields. BioTHOP project with the introduction of circular economy in hop production and all biodegradable products based on hop fibres was presented to the municipality of Žatec. Subsequently, we visited our partner in the project TRIDAS that produces biodegradable wine bottle trays.

SEE MORE OF NEWS ON OUR WEB PAGE



For further Information, please click <https://www.life-biothop.eu>

and **visit and follow us on our social networks**, where we publish our news regularly:



**INŠTITUT ZA HMELJARSTVO
IN PIVOVARSTVO SLOVENIJE**
Slovenian Institute of Hop Research and Brewing



Lankhorst | Yarns

TRIDAS
ENVIRONMENT FRIENDLY PACKAGING



Razvojnica Savinja
Gospodarsko interesno združenje

Tecn
packaging

TECO
Slovenian Tool and Die Development Centre

Zelfo
TECHNOLOGY



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA OKOLJE IN PROSTOR

