



Life COMP Olive

New generation of bioCOMPosites
based on OLIVE fibers for industrial application

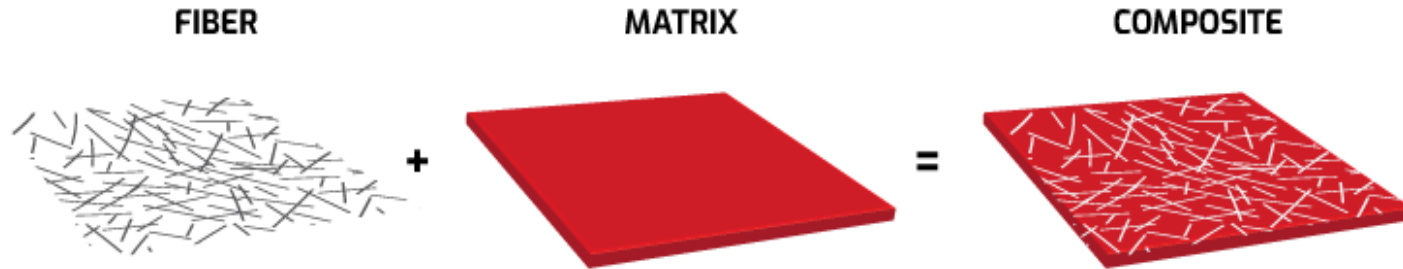
The LIFE COMPOLIVE project has received funding from the LIFE programme of the European Union



LIFE-COMPOLIVE Project
www.lifecompolive.eu

Foro de Bioeconomía Circular
21 de Noviembre de 2023
Sevilla

Natural fiber (reinforcement) + Polymer matrix → BIOCOMPOSITE



COMPOLIVE:



Olive tree pruning fiber



Polymer matrix: rPP, rPE, PLA



Biocomposite

Scaling-up: collection of olive pruning



Scaling-up: mechanical processing of olive pruning

Shredding of pruning

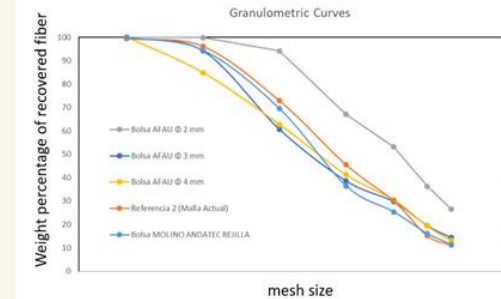
**Pilot scale
(20-50 kg/day)**



**Large scale
(160 kg/h – 10 Tn/h)**



+



Scaling-up: sieving of olive fiber

**Pilot scale
(1 kg/h)**



**Large scale
(300-400 kg/h)**



Scaling-up: chemical treatment of olive fiber

50l reactor

**Maximum Production Capacity:
10 kg treated fiber/day**

Chemical Treatment

Filtration → Drying



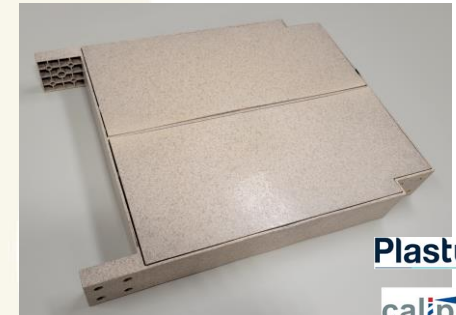
Untreated fiber



Treated Fiber

**It was obtained up to 350 kg of
treated fiber.**

Scaling-up: production of biocomposite



Plasturgia
caliplast
OLIVRONS NOS HORIZONS



A total of 800 kg biocomposite material