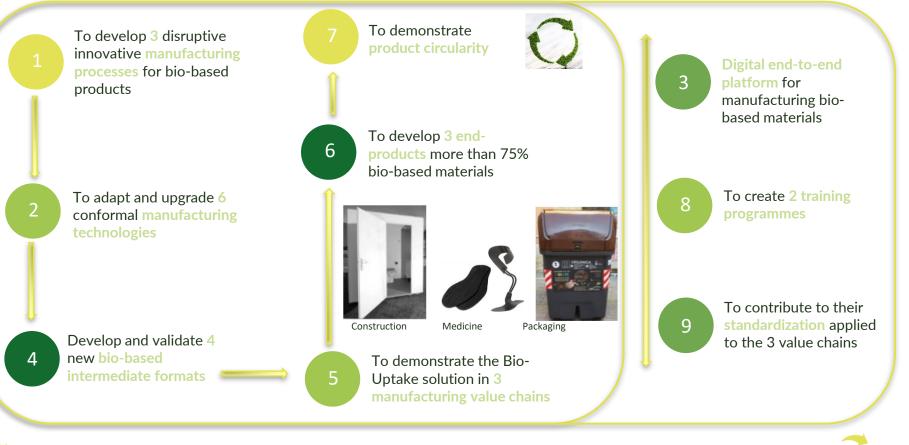


BIOcomposites in smart plastic transformation processes to pave the way for the large-scale UPTAKE of sustainable bio-based products

#### **Bio-UPTAKE objectives**



BIO-UPTAKE



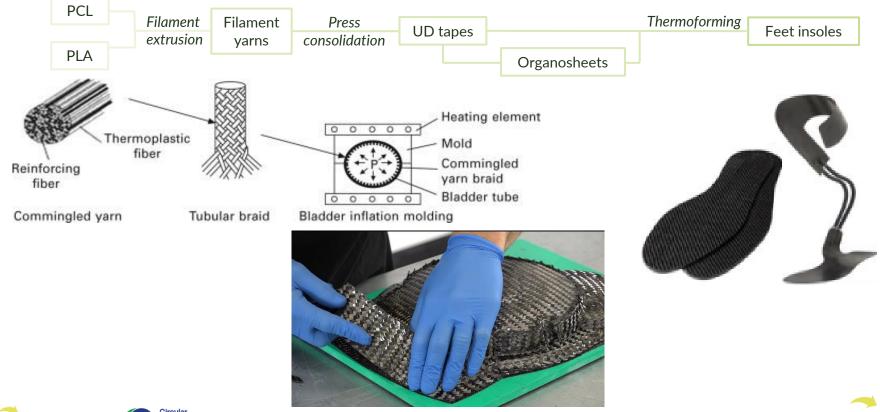
Co-funded by the European Union BIO UPTAKE Project - Confidential - GA no. 101057049

#### **Bio-UPTAKE demo cases**

PCL Filament Press UD tapes   extrusion yarns consolidation Organical	Thermoforming Feet insoles anosheets
BioPA Extrusion compounding Wood&short carbon fibre	Over-injection Lid for a garbage container
Bioepoxy Resin impregnation Endured organosheets	Thermoforming fabricated bathroom pods
	oject – Confidential – GA no. 101057049 <b>25/06/2024</b>

the European Union

# **Bio-UPTAKE** demo cases → Feet insoles



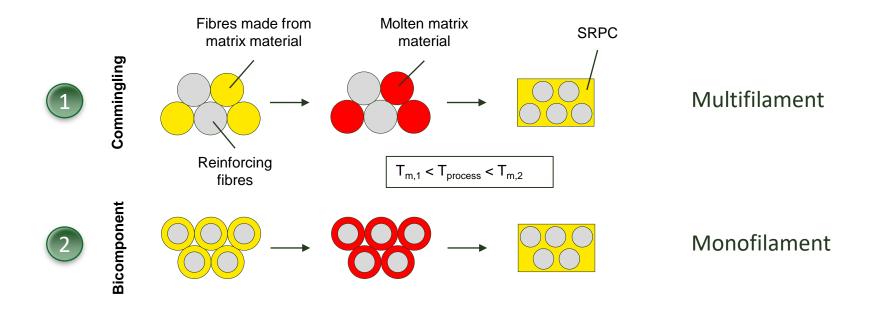






BIO UPTAKE Project – Confidential – GA no. 101057049

# **Bio-UPTAKE demo cases** → Feet insoles

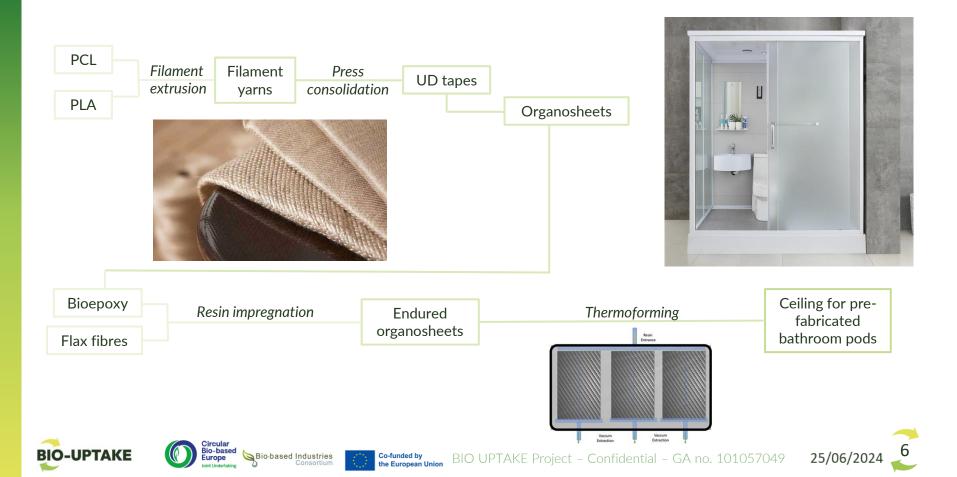








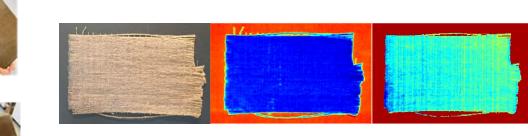
# Bio-UPTAKE demo cases → Ceiling

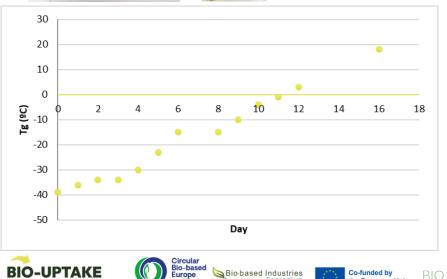


#### **Bio-UPTAKE demo cases** $\rightarrow$ **Ceiling**



**BIO-UPTAKE** 





o-based Industries

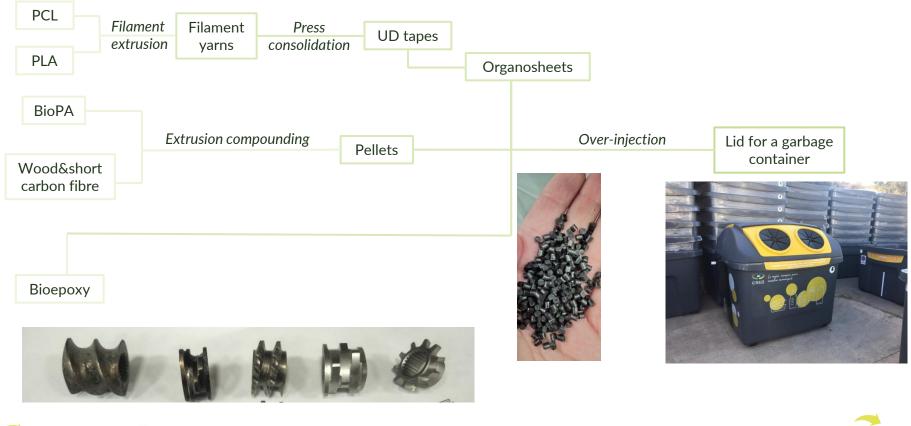




-10 -20 -30 -40 -50 -60

BIO UPTAKE Project - Confidential - GA no. 101057049 he European Union

# Bio-UPTAKE demo cases → Container lid



BIO UPTAKE Project - Confidential - GA no. 101057049

25/06/2024

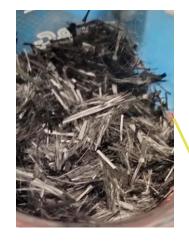
Co-funded by

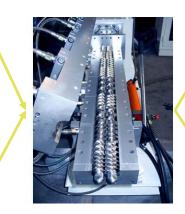
the European Union





#### Bio-UPTAKE demo cases → Container lid





















## Bio-UPTAKE demo cases $\rightarrow$ Container lid



Temperature

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100.00

80.00 60.00 40.00 20.00

0.00

1000 RAW 5% Fibre 10% Fibre 14% Fibre 18% Fibre 24% Fibre 28% Fibre PA10-10 rCF PA10-10 Wood PA11 rCF PA11 Wood

**BIO-UPTAKE** 

Circular

Europe

**Bio-based** 

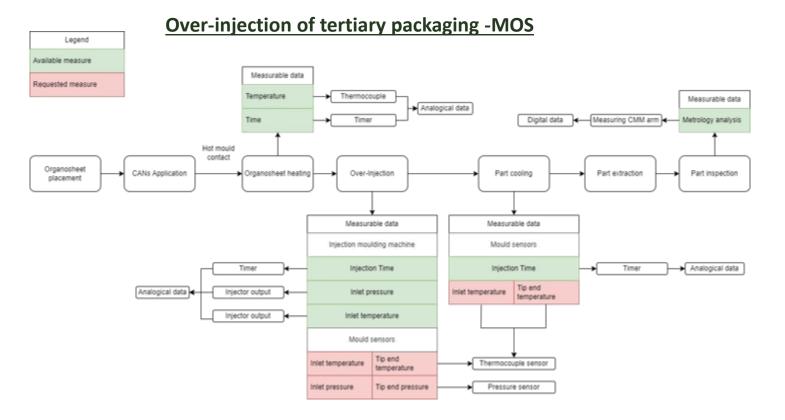
Bio-based Industries

RAW 5% Fibre 10% Fibre14% Fibre18% Fibre24% Fibre28% Fibre

PA10-10 rCF PA10-10 Wood PA11 rCF PA11 Wood



# Bio-UPTAKE → Next steps



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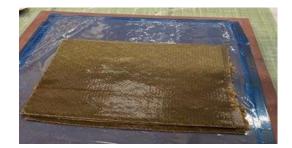
11

# **Bio-UPTAKE** → Next steps

#### Thermoforming parameters

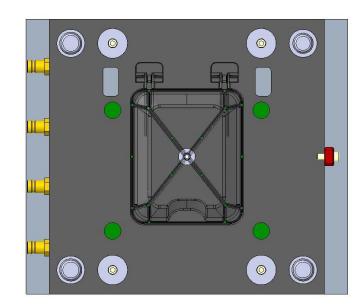






Prepreg manufacturing trials

#### Mould for overinjection











# **BIO-UPTAKE**

# Thank you

**Julio Vidal**